



Tulare County Office of  
Emergency Services



## 2011 Tulare County Hazard Mitigation Plan



December 2011

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# TABLE OF CONTENTS

---

<b>Section ONE Introduction</b> .....	<b>1-1</b>
1.1 Overview - Introduction.....	1-1
1.2 Hazard Mitigation Planning.....	1-1
1.3 Disaster Mitigation Act of 2000 .....	1-1
1.4 Grant Programs with Mitigation Plan Requirements.....	1-1
1.4.1 Stafford Act Grant Programs .....	1-2
1.4.2 National Flood Insurance Act Grant Programs.....	1-2
1.5 Community Profiles .....	1-3
1.5.1 Tulare County .....	1-4
1.5.2 City of Dinuba.....	1-6
1.5.3 City of Exeter.....	1-6
1.5.4 City of Farmersville .....	1-6
1.5.5 City of Lindsay .....	1-7
1.5.6 City of Porterville .....	1-7
1.5.7 City of Tulare.....	1-7
1.5.8 City of Visalia.....	1-7
1.5.9 City of Woodlake.....	1-8
1.5.10 Tulare County Office of Education.....	1-8
1.5.11 Tule River Tribe.....	1-8
1.5.12 Land Use and Development Trends.....	1-9
1.6 Description of the Hazard Mitigation Plan .....	1-10
1.6.1 Section 2: Record of Adoption .....	1-10
1.6.2 Section 3: Planning Process .....	1-10
1.6.3 Section 4: Hazard Analysis.....	1-10
1.6.4 Section 5: Vulnerability Analysis .....	1-10
1.6.5 Section 6: Capability Assessment.....	1-10
1.6.6 Section 7: Mitigation Strategy .....	1-11
1.6.7 Section 8: Plan Maintenance.....	1-11
1.6.8 Section 9: References.....	1-11
1.6.9 Appendices.....	1-11
<b>Section TWO Prerequisites</b> .....	<b>2-1</b>
2.1 Overview - Prerequisites.....	2-1
2.2 Adoption Documentation.....	2-1
<b>Section THREE Planning Process</b> .....	<b>3-1</b>
3.1 Overview – Planning Process .....	3-1
3.2 Summary of Planning Process .....	3-2
3.3 Schedule.....	3-2
3.4 Steering Committee .....	3-4
3.5 Planning Committee.....	3-5
3.6 Public Outreach.....	3-8
3.6.1 Tribal Public Participation Process.....	3-8

# TABLE OF CONTENTS

---

3.7	Incorporation of Existing Plans and Other Relevant Information .....	3-9
<b>Section FOUR Hazard Analysis .....</b>		<b>4-1</b>
4.1	Overview – Hazard Analysis .....	4-1
4.2	Hazard Identification and Screening .....	4-1
4.3	Hazard Profiles.....	4-5
4.3.1	Avalanche .....	4-5
4.3.2	Biological Hazard .....	4-7
4.3.3	Civil Disturbance .....	4-13
4.3.4	Earthquake .....	4-14
4.3.5	Energy Emergency .....	4-19
4.3.6	Flood .....	4-19
4.3.7	Fog .....	4-27
4.3.8	Hazardous Materials .....	4-28
4.3.9	Heat .....	4-31
4.3.10	Landslide/Mudslide.....	4-33
4.3.11	Post-Fire Debris Flow .....	4-34
4.3.12	Severe Winter Storm.....	4-35
4.3.13	Terrorism.....	4-37
4.3.14	Volcano .....	4-38
4.3.15	Wildfire.....	4-40
<b>Section FIVE Vulnerability Analysis.....</b>		<b>5-1</b>
5.1	Overview – Vulnerability Analysis .....	5-1
5.2	Asset Inventory .....	5-1
5.3	Methodology .....	5-2
5.4	Data Limitations.....	5-3
5.5	Exposure Analysis .....	5-3
5.6	RL Properties .....	5-4
5.7	Summary Of Impacts .....	5-5
5.8	Additional Tribal Requirements .....	5-6
<b>Section SIX Capability Assessment.....</b>		<b>6-1</b>
6.1	Overview – Capability Assessment .....	6-1
6.2	Capability Assessment Recommendations By CalEMA/FEMA .....	6-1
6.3	Tribal Requirements.....	6-1
<b>Section SEVEN Mitigation Strategy .....</b>		<b>7-1</b>
7.1	Overview – Mitigation Strategy.....	7-1
7.2	Mitigation Goals .....	7-1
7.3	Identification and Analysis of Mitigation Actions.....	7-2
7.4	Implementation of Mitigation Actions.....	7-7
7.5	Identification and Analysis of Mitigation Actions: NFIP Compliance .....	7-8

# TABLE OF CONTENTS

---

<b>Section EIGHT Plan Maintenance.....</b>	<b>8-1</b>
8.1 Overview – Plan Maintenance .....	8-1
8.2 Monitoring, Evaluating, and Updating the Plan .....	8-1
8.3 Implementation Through Existing Planning Mechanisms.....	8-2
8.4 Continued Public Involvement .....	8-3
8.5 Additional Tribal Requirements .....	8-4

<b>Section NINE References.....</b>	<b>9-1</b>
-------------------------------------	------------

## Appendices

A	FEMA Crosswalk
B	Adoption Resolutions
C	Hazard Figures
D	Planning Committee Meetings
E	Public Outreach
F	Plan Maintenance
G	Tulare County
H	City of Dinuba
I	City of Exeter
J	City of Farmersville
K	City of Lindsay
L	City of Porterville
M	City of Tulare
N	City of Visalia
O	City of Woodlake
P	Tulare County Office of Education
Q	Tule River Tribe

## Figures

C-1	Avalanche Hazard Areas
C-2	Regional Historical Earthquakes, Magnitude $\geq 4.0$ , 1871-2010
C-3	Probabilistic Earthquake Groundshaking Hazard Areas And Quaternary Faults
C-4	Flood Hazard Areas
C-5	Dam Failure Inundation Areas
C-6	Fog Hazard Areas
C-7	Hazardous Material Transportation Corridors

# TABLE OF CONTENTS

---

C-8	Hazardous Materials Fixed Facilities
C-9	Post-Fire Debris Flow Hazard Areas
C-10	Average Snowfall
C-11	Peak Wind Gusts $\geq$ 50 Miles Per Hour
C-12	Average Days With The Temperature At Or Below Freezing
C-13	Volcanic Ash Fall Hazard Areas
C-14	Fire Hazard Severity Zones, Local Responsibility Area
C-15	Fire Hazard Severity Zones, State Responsibility Area
C-16	Estimated 2010 Population
C-17	Estimated 2010 Households
C-18	Critical Facilities And Infrastructure
C-19	Repetitive Loss Properties

## Tables

Table 3-1.	2011 HMP Schedule
Table 3-2.	Steering Committee
Table 3-3.	Planning Committee
Table 4-1.	Tulare County Hazard Screening
Table 4-2.	Hazards by Jurisdiction
Table 4-3.	Tulare County Selected Communicable Diseases, 2001–2008
Table 4-4.	Pandemic (H1N1) 2009 Virus Provisional Data: April 23, 2009–May 1, 2010
Table 4-5.	Modified Mercalli Intensity Scale
Table 4-6.	Historical Earthquakes of M5.5 or Greater Near Tulare County, 1950–2010
Table 4-7.	Date of Initially Mapped FIRM and Emergency/Regular Program Entrance Date into NFIP for Tulare County and Cities
Table 4-8.	Dams in Tulare County
Table 4-9.	Recent Hazardous Material Mobile Incidents in Tulare County
Table 4-10.	High Temperatures in the City of Fresno since 2000
Table 4-11.	Expected Ash Fall Thickness for Moderate and Large Volcanic Eruptions in Long Valley Area
Table 4-12.	Tulare County Fires That Burned over 1,000 Acres, 1979–2009
Table 7-1.	Mitigation Goals
Table 7-2.	Potential Mitigation Actions
Table G-1.	County of Tulare, Total Population and Residential Buildings

# TABLE OF CONTENTS

---

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

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

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

Table G-5. Tulare County, RL Properties

Table G-6. Tulare County, Summary of Impacts for Population and Residential Buildings

Table G-7. Tulare County, Summary of Impacts for Critical Facilities and Infrastructure

Table G-8. Tulare County, Human and Technical Resources for Hazard Mitigation

Table G-9. Tulare County, Financial Resources for Hazard Mitigation

Table -10. Tulare County, Legal and Regulatory Resources for Hazard Mitigation

Table G-11. Tulare County, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs

Table G-12. Tulare County, Potential Mitigation Actions

Table G-13. Tulare County, Mitigation Action Plan

Table H-1. City of Dinuba, Total Population and Residential Buildings

Table H-2. City of Dinuba, Total Critical Facilities and Infrastructure

Table H-3. City of Dinuba, Vulnerable Population and Residential Buildings

Table H-4. City of Dinuba, Vulnerable Critical Facilities and Infrastructure

Table H-5. City of Dinuba, Summary of Impacts for Population and Residential Buildings

Table H-6. City of Dinuba, Summary of Impacts for Critical Facilities and Infrastructure

Table H-7. City of Dinuba, Human and Technical Resources for Hazard Mitigation

Table H-8. City of Dinuba, Financial Resources for Hazard Mitigation

Table H-9. City of Dinuba, Legal and Regulatory Resources for Hazard Mitigation

Table H-10. City of Dinuba, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs

Table H-11. City of Dinuba, Potential Mitigation Actions

Table H-12. City of Dinuba, Mitigation Action Plan

Table I-1. City of Exeter, Total Population and Residential Buildings

Table I-2. City of Exeter, Total Critical Facilities and Infrastructure

Table I-3. City of Exeter, Vulnerable Population and Residential Buildings

Table I-4. City of Exeter, Vulnerable Critical Facilities and Infrastructure

Table I-5. City of Exeter, RL Properties

Table I-6. City of Exeter, Summary of Impacts for Population and Residential Buildings

Table I-7. City of Exeter, Summary of Impacts for Critical Facilities and Infrastructure

# TABLE OF CONTENTS

---

Table I-8. City of Exeter, Human and Technical Resources for Hazard Mitigation

Table I-9. City of Exeter, Financial Resources for Hazard Mitigation

Table I-10. City of Exeter, Legal and Regulatory Resources for Hazard Mitigation

Table I-11. City of Exeter, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs

Table I-12. City of Exeter, Potential Mitigation Actions

Table I-13. City of Exeter, Mitigation Action Plan

Table J-1. City of Farmersville, Total Population and Residential Buildings

Table J-2. City of Farmersville, Total Critical Facilities and Infrastructure

Table J-3. City of Farmersville, Vulnerable Population and Residential Buildings

Table J-4. City of Farmersville, Vulnerable Critical Facilities and Infrastructure

Table J-5. City of Farmersville, Summary of Impacts for Population and Residential Buildings

Table J-6. City of Farmersville, Summary of Impacts for Critical Facilities and Infrastructure

Table J-7. City of Farmersville, Human and Technical Resources for Hazard Mitigation

Table J-8. City of Farmersville, Financial Resources for Hazard Mitigation

Table J-9. City of Farmersville, Legal and Regulatory Resources for Hazard Mitigation

Table J-10. City of Farmersville, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs

Table J-11. City of Farmersville, Potential Mitigation Actions

Table J-12. City of Farmersville, Mitigation Action Plan

Table K-1. City of Lindsay, Total Population and Residential Buildings

Table K-2. City of Lindsay, Total Critical Facilities and Infrastructure

Table K-3. City of Lindsay, Vulnerable Population and Residential Buildings

Table K-4. City of Lindsay, Vulnerable Critical Facilities and Infrastructure

Table K-5. City of Lindsay, Summary of Impacts for Population and Residential Buildings

Table K-6. City of Lindsay, Summary of Impacts for Critical Facilities and Infrastructure

Table K-7. City of Lindsay, Human and Technical Resources for Hazard Mitigation

Table K-8. City of Lindsay, Financial Resources for Hazard Mitigation

Table K-9. City of Lindsay, Legal and Regulatory Resources for Hazard Mitigation

Table K-10. City of Lindsay, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs

Table K-11. City of Lindsay, Potential Mitigation Actions

Table K-12. City of Lindsay, Mitigation Action Plan



# TABLE OF CONTENTS

---

Table L-1. City of Porterville, Total Population and Residential Buildings

Table L-2. City of Porterville, Total Critical Facilities and Infrastructure

Table L-3. City of Porterville, Vulnerable Population and Residential Buildings

Table L-4. City of Porterville, Vulnerable Critical Facilities and Infrastructure

Table L-5. City of Porterville, Summary of Impacts for Population and Residential Buildings

Table L-6. City of Porterville, Summary of Impacts for Critical Facilities and Infrastructure

Table L-7. City of Porterville, Human and Technical Resources for Hazard Mitigation

Table L-8. City of Porterville, Financial Resources for Hazard Mitigation

Table L-9. City of Porterville, Legal and Regulatory Resources for Hazard Mitigation

Table L-10. City of Porterville, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs

Table L-11. City of Porterville, Potential Mitigation Actions

Table L-12. City of Porterville, Mitigation Action Plan

Table M-1. City of Tulare, Total Population and Residential Buildings

Table M-2. City of Tulare, Total Critical Facilities and Infrastructure

Table M-3. City of Tulare, Vulnerable Population and Residential Buildings

Table M-4. City of Tulare, Vulnerable Critical Facilities and Infrastructure

Table M-5. City of Tulare, Summary of Impacts for Population and Residential Buildings

Table M-6. City of Tulare, Summary of Impacts for Critical Facilities and Infrastructure

Table M-7. City of Tulare, Human and Technical Resources for Hazard Mitigation

Table M-8. City of Tulare, Financial Resources for Hazard Mitigation

Table M-9. City of Tulare, Legal and Regulatory Resources for Hazard Mitigation

Table M-10. City of Tulare, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs

Table M-11. City of Tulare, Potential Mitigation Actions

Table M-12. City of Tulare, Mitigation Action Plan

Table N-1. City of Visalia, Total Population and Residential Buildings

Table N-2. City of Visalia, Total Critical Facilities and Infrastructure

Table N-3. City of Visalia, Vulnerable Population and Residential Buildings

Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure

Table N-5. City of Visalia, Summary of Impacts for Population and Residential Buildings

Table N-6. City of Visalia, Summary of Impacts for Critical Facilities and Infrastructure

Table N-7. City of Visalia, Human and Technical Resources for Hazard Mitigation

# TABLE OF CONTENTS

---

Table N-8. City of Visalia, Financial Resources for Hazard Mitigation

Table N-9. City of Visalia, Legal and Regulatory Resources for Hazard Mitigation

Table N-10. City of Visalia, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs

Table N-11. City of Visalia, Potential Mitigation Actions

Table N-12. City of Visalia, Mitigation Action Plan

Table O-1. City of Woodlake, Total Population and Residential Buildings

Table O-2. City of Woodlake, Total Critical Facilities and Infrastructure

Table O-3. City of Woodlake, Vulnerable Population and Residential Buildings

Table O-4. City of Woodlake, Vulnerable Critical Facilities and Infrastructure

Table O-5. City of Woodlake, Repetitive Loss Properties

Table O-6. City of Woodlake, Summary of Impacts for Population and Residential Buildings

Table O-7. City of Woodlake, Summary of Impacts for Critical Facilities and Infrastructure

Table O-8. City of Woodlake, Human and Technical Resources for Hazard Mitigation

Table O-9. City of Woodlake, Financial Resources for Hazard Mitigation

Table O-10. City of Woodlake, Legal and Regulatory Resources for Hazard Mitigation

Table O-11. City of Woodlake, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs

Table O-12. City of Woodlake, Potential Mitigation Actions

Table O-13. City of Woodlake, Mitigation Action Plan

Table P-1. Tulare County Office of Education, Total Critical Facilities and Infrastructure

Table P-2. Tulare County Office of Education, Vulnerable Critical Facilities and Infrastructure

Table P-3. Tulare County Office of Education, Summary of Impacts for Critical Facilities and Infrastructure

Table P-4. Tulare County Office of Education, Human and Technical Resources for Hazard Mitigation

Table P-5. Tulare County Office of Education, Legal and Regulatory Resources Available for Hazard Mitigation

Table P-6. Tulare County Office of Education, Financial Resources

Table P-7. Tulare County Office of Education, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs

Table P-8. Tulare County Office of Education, Potential Mitigation Actions

Table P-9. Tulare County Office of Education, Mitigation Action Plan

Table Q-1. Tule River Tribe, Total Population and Residential Buildings

# TABLE OF CONTENTS

---

Table Q-2. Tule River Tribe, Total Critical Facilities and Infrastructure

Table Q-3. Tule River Tribe, Vulnerable Population and Residential Buildings

Table Q-4. Tule River Tribe, Vulnerable Critical Facilities and Infrastructure

Table Q-5. Tule River Tribe, Summary of Impacts for Population and Residential Buildings

Table Q-6. Tule River Tribe, Summary of Impacts for Critical Facilities and Infrastructure

Table Q-7. Tule River Tribe, Human and Technical Resources for Hazard Mitigation

Table Q-8. Tule River Tribe, Financial Resources for Hazard Mitigation

Table Q-9. Tule River Tribe, Legal and Regulatory Resources for Hazard Mitigation

Table Q-10. Tule River Tribe, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs

Table Q-11. Tule River Tribe, Potential Mitigation Actions

Table Q-12. Tule River Tribe, Mitigation Action Plan

## Acronyms

ACS	American Community Survey
AIDS	acquired immune deficiency syndrome
CalARP	California Accidental Release Prevention (Program)
CalEMA	California Emergency Management Agency
CalFire	California Department of Forestry and Fire Protection
CDC	Centers for Disease Control and Prevention
CFR	Code of Federal Regulations
County	Tulare County
CUPA	Certified Unified Program Agency
DFIRM	digital FIRM
Dinuba	City of Dinuba
DMA 2000	Disaster Mitigation Act of 2000
Exeter	City of Exeter
F	Fahrenheit
Farmersville	City of Farmersville
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Map
FMA	Flood Mitigation Assistance
FY	Fiscal year

# TABLE OF CONTENTS

---

g	gravity
GIS	Geographic Information System
GWSS	glass-winged sharpshooter
HIV	human immunodeficiency virus
HLB	huanglongbing
HMA	Hazard Mitigation Assistance
HMGP	Hazard Mitigation Grant Program
HMP	hazard mitigation plan
Lindsay	City of Lindsay
M	moment magnitude
MMI	Modified Mercalli Intensity
mph	mile(s) per hour
MRSA	methicillin-resistant staphylococcus aureus
NCDC	National Climatic Data Center
NFIP	National Flood Insurance Program
NRC	National Response Center
NWS	National Weather Service
OES	Office of Emergency Services
PDM	Pre-Disaster Mitigation (Program)
PGA	peak ground acceleration
POC	Point of contact
Porterville	City of Porterville
RFC	Repetitive Flood Claims
RL	Repetitive Loss
SARS	severe acute respiratory syndrome
SR	State Route
SRL	Severe Repetitive Loss
Stafford Act	Robert T. Stafford Disaster Relief and Emergency Assistance Act of 1988
TB	tuberculosis
TCOE	Tulare County Office of Education
Tulare	City of Tulare
Tule River Tribe	Tule River Indian Tribe

# TABLE OF CONTENTS

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URS	URS Corporation
U.S	United States
USACE	U.S. Army Corps of Engineers
USC	United States Code
USGS	U.S. Geological Survey
Visalia	City of Visalia
VMB	vine mealybug
Woodlake	City of Woodlake

# TABLE OF CONTENTS

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## **1.1 OVERVIEW - INTRODUCTION**

This section provides an introduction to hazard mitigation planning; an overview of the Disaster Mitigation Act of 2000 (DMA 2000), grant programs with mitigation plan requirements, plan participants; and a description of the hazard mitigation plan (HMP) that Tulare County (the County) has developed to assess the risks posed by natural and human-caused hazards and to develop a mitigation strategy to reduce these risks. The multi-jurisdictional HMP developed by Tulare County (hereafter referred to as the 2011 HMP) has been prepared in accordance with the requirements of DMA 2000. The Tulare County Office of Emergency Services (OES) has coordinated the preparation of the 2011 HMP in cooperation with several cities, the Tule River Tribe, and the Tulare County Office of Education.

## **1.2 HAZARD MITIGATION PLANNING**

As defined in Title 44 of the Code of Federal Regulations (CFR), Subchapter D, Section 201.2, hazard mitigation is “any sustained action taken to reduce or eliminate the long-term risk to human life and property from 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 both 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 the federal law known as DMA 2000. On October 30, 2000, Congress passed DMA 2000 (Public Law 106-390); this law 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). The new section emphasized the need for state, tribal, and local entities to closely coordinate their mitigation planning and implementation efforts. This new section also provided 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 (FEMA 2002) (44 CFR Part 201). The tribal planning requirements were updated in 44 CFR Part 201.7 in 2009. The local and tribal mitigation planning requirements are identified in their appropriate sections throughout the 2011 HMP and in Appendix A, FEMA Crosswalk.

## **1.4 GRANT PROGRAMS WITH MITIGATION PLAN REQUIREMENTS**

FEMA’s Hazard Mitigation Assistance (HMA) programs currently provides five grant programs 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. Descriptions of each of the five grant programs is provided in the subsequent sections, Table 1-1 lists FEMA's Historic HMA funding amounts for these grant programs.

**Table 1-1. FEMA's Historic HMA Funding**

FY	HMGP*	PDM	FMA	RFC	SRL
FY10	\$23,361,517	\$100,000,000	\$40,000,000	\$10,000,000	\$70,000,000
FY09	\$359,034,202	\$90,000,000	\$35,700,000	\$10,000,000	\$80,000,000
FY08	\$1,246,236,812	\$114,000,000	\$34,000,000	\$10,000,000	\$80,000,000
FY07	\$315,730,830	\$100,000,000	\$31,000,000	\$10,000,000	\$40,000,000
FY06	\$232,227,932	\$50,000,000	\$28,000,000	\$10,000,000	\$40,000,000

\* HMGP funding amounts as of May 3, 2010. Funding amounts fluctuate based on the number and severity of declared disasters, as well as the applicable percentage of other assistance that is the basis for HMGP amounts (the current percentage has been in effect since October 2006)

#### 1.4.1 Stafford Act Grant Programs

**Hazard Mitigation Grant Program (HMGP).** HMGP provides grants to state, tribal, and local 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 to enable mitigation measures to be implemented during the period of 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. The cost-sharing for this grant is 75 percent federal and 25 percent nonfederal.

**Pre-Disaster Mitigation (PDM) Program:** 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 nonfederal, though cost-sharing of 90 percent federal and 10 percent nonfederal is available in certain situations.

#### 1.4.2 National Flood Insurance Act Grant Programs

**Flood Mitigation Assistance (FMA) Program:** The goal of the FMA 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. The cost-sharing for this grant is 75 percent federal and 25 percent nonfederal, though cost-sharing of 90 percent federal and 10 percent nonfederal is available in certain situations to mitigate Severe Repetitive Loss (SRL) properties. As of October 2010, 11 RL properties and no SRL properties were in Tulare County.

**Repetitive Flood Claims (RFC) Program:** The RFC program provides funding to reduce or eliminate the long-term risk of flood damage to residential and nonresidential structures insured under the NFIP. Structures considered for mitigation must have had one or more claim payments for flood damages. In FY 2004, Congress appropriated \$10 million for the implementation of this program. Since then, up to \$10 million is available annually for FEMA to provide to States and communities. All RFC 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 of over \$5,000 each, at least two such claims must have occurred within any 10-year period, and the cumulative amount of such claim payments must exceed \$20,000; or at least two separate claims payments must 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 nonfederal, though a cost-sharing ratio of 90 percent federal and 10 percent nonfederal is available to mitigate SRL properties when a state or tribal plan addresses ways to mitigate SRL properties. As of October 2010, no SRL properties were within Tulare County.

## **1.5 COMMUNITY PROFILES**

This section describes the jurisdictions participating in the development and adoption of the 2011 HMP.

The participating jurisdictions represented in this multi-jurisdictional plan are:

- Tulare County
- City of Dinuba
- City of Exeter
- City of Farmersville
- City of Lindsay
- City of Porterville
- City of Tulare
- City of Visalia
- City of Woodlake
- Tulare County Office of Education (participating on behalf of the various County school districts, the complete list of school districts is found in Section 1.5.10)

- Tule River Tribe

### 1.5.1 Tulare County

**Location, Geography, and History:** Tulare County is located in central California. The County is geographically diverse. It is divided into three general topographical zones: a valley region, a foothill region, and a mountain region. The eastern portion of the County lies in the Sierra Nevada mountain range, and the western half of the County is situated on the San Joaquin Valley floor. Tulare County is bordered by Fresno County to the north, Kings County to the west, Kern County to the south, and Inyo County to the east.

Tulare County is approximately 22 miles from the larger city of Fresno (to the north) and 33 miles from the larger city of Bakersfield (to the south), about 275 miles from San Francisco, and 175 miles from Los Angeles. The County has an area of 4,839 square miles; approximately 15 square miles in the County are covered by water, and the remaining 4,824 square miles are occupied by land. Elevations in Tulare County range from 207 feet above sea level to 14,505 feet above sea level at Mount Whitney, the highest summit in the contiguous United States (situated at the boundary between Tulare County and Inyo County).

The climate of Tulare County varies by location within the County. The vast majority of the population in the County lives in the valley, where the climate is warm and dry, with hot summers (temperatures in July normally reach 100 degrees Fahrenheit [F]) and fairly mild winters. In the mountain communities, winters are colder, and summers not quite as hot. Above 7,000 feet, winters can be severe, with year-round snow at the highest elevations. The rainy season is October through April, and the average rainfall is 10.5 inches per year. Although ice and snow are rare on the valley floor, the snow pack in the mountains often measures more than 200 inches. Fog is common in Tulare County, particularly in the winter months, though it can also occur in the summer.

The original inhabitants of Tulare County were Yokut-speaking tribes, who populated much of the San Joaquin Valley. In 1772, while exploring the Tulare area, a Spanish commander discovered a great lake surrounded by marshes and filled with rushes. He named this lake *Los Tules* (the tules), from which the name Tulare is derived. The first Americans to visit the Tulare area came after 1800; settlers first inhabited the present day area of Visalia. The County was created in 1852; originally, the County encompassed a much larger area. Over the years, territory was taken from Tulare County to create Fresno, Mono, Kern, Inyo and Kings Counties. It was not until 1893 that the present boundaries of Tulare County were established.

Tulare County has eight incorporated cities (Dinuba, Exeter, Farmersville, Lindsay, Porterville, Tulare, Visalia, and Woodlake), 39 unincorporated communities, and the Tule River Indian Reservation.

**Government:** The Tulare County government consists of five county supervisors and one County Administrator. The Board of Supervisors is the legislative and executive governing body of Tulare County. The board hires the County Administrator, who is responsible for carrying out the policy decisions made by the board and for the day to day operations of the County. The board also hires the County Counsel, who is the County's legal advisor.

**Economy:** The agriculture industry makes up the base of the Tulare County economy. Tulare County leads the nation in dairy production, with a value over \$1 billion in 2009, and ranks

second in agricultural production, with a value of \$4 billion in 2009. As noted in the Tulare County General Plan Background Report (Tulare County 2008b), in 2002, 29 percent of all jobs in the County were in the agriculture industry. The second-largest industry in Tulare County is manufacturing, which employed 8 percent of the working population.

Although the agricultural and the manufacturing industries are vital to Tulare County’s economy, “local support industries” are the fastest growing industries in the County. Local support industries are described as those industries whose fortunes are closely tied to population growth. For Tulare County, these industries are finance-insurance-real estate, construction, and government. As population increases in the Central Valley, local support industries (e.g., real estate) will do more business (e.g., sell more homes) and thus create more jobs in other population-dependent local support industries (e.g., construction).

**Demographics:** According to the United States (U.S.) Census Bureau’s 2005–2009 American Community Survey (ACS), the estimated 2009 population of Tulare County, including its incorporated cities, is 416,299 people. Approximately 9.8 percent of the County population was under the age of five, 57.5 percent was between 18 and 64 years old, and 9.4 percent was over the age of 65.

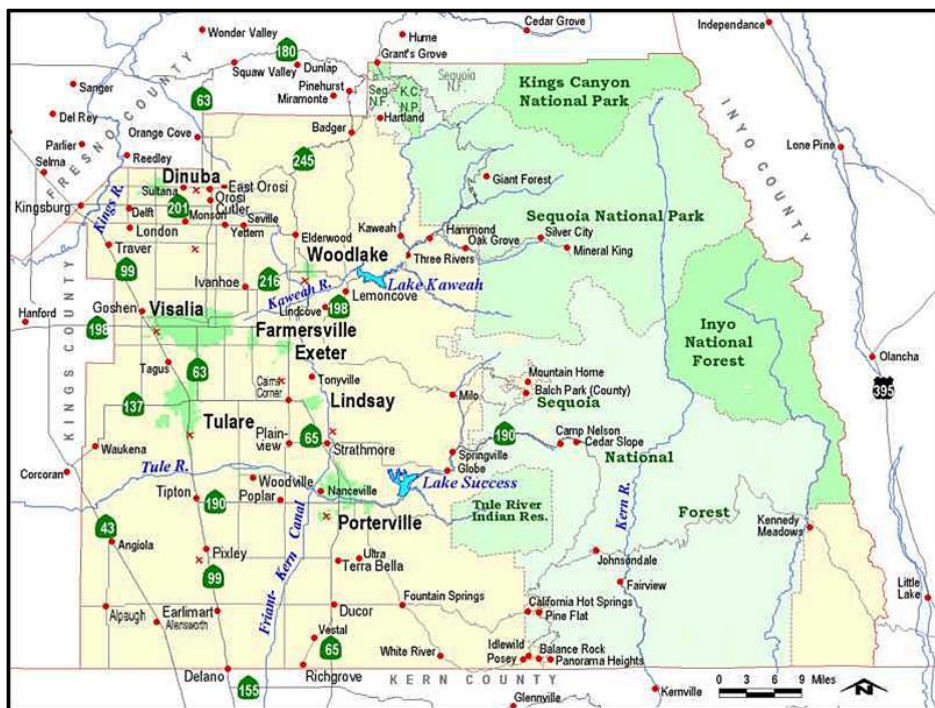
According to the ACS, the entire County labor force (defined as members of the population over 16 years of age) consists of 294,041 people, 61.2 percent of whom are employed. The median household income is recorded as \$43,164 (for the U.S. as a whole, that figure is \$51,425), and the median family income is recorded as \$46,479 (it is \$62,363 nationwide). About 22.6 percent of the County residents live below the poverty level, compared with 13.5 percent nationwide. The County’s per capita income is \$17,865, and the per capita income for the U.S. as a whole was \$27,041.

**Incorporated Cities:**

There are 8 incorporated cities in Tulare County: Dinuba, Exeter, Farmersville, Lindsay, Porterville, Tulare, Visalia and Woodlake. Each of these cities is described separately in the subsequent sections.

**Unincorporated Communities:**

Tulare County contains 39 unincorporated communities and census-designated places. Some are little more than place names from past history (often when they had their own post offices), but others are active communities.



- Western Tulare County, Valley communities: Allensworth; Alpaugh; Angiola; Cairns Corner; Calgro; Cutler; Ducor; Earlimart; East Orosi; East Porterville; Goshen; Ivanhoe; Lemon Cove; Lindcove; London; Orosi; Pixley; Poplar-Cotton Center; Richgrove; Seville; Strathmore; Sultana; Terra Bella; Tipton; Traver; Waukena; Woodville; Yettem; and Zante.
- Eastern Tulare County, Mountain communities: Advance; Badger; Balance Rock; California Hot Springs; Camp Nelson; Johnsdale; Kaweah; Posey; Springville; and Three Rivers.

### **1.5.2 City of Dinuba**

The City of Dinuba (Dinuba) is in the northwestern corner of Tulare County, approximately 20 miles north of the County seat (Visalia). Dinuba covers 3.4 square miles, all of which is land. According to the ACS, the population of Dinuba is 20,049 people. About 10 percent of the population is under the age of 5 years, 56.8 percent is between the ages of 18 and 65 years, and 8.2 percent of the population is 65 years or older.

Of the 13,888 Dinuba residents eligible for the labor force, 58.5 percent are employed; the unemployment rate in Dinuba is 9.7 percent. The median household income in Dinuba is \$39,845, and the median family income is \$40,831. Per capita income in Dinuba in 2009 is \$13,380, and 26.5 percent of the population is living below the poverty line.

### **1.5.3 City of Exeter**

The City of Exeter (Exeter) is just south of the intersection of State Route (SR) 65 and SR 198, about 7 miles east of the County seat (Visalia). Exeter has a total area of 2.2 square miles, all of which is land. The total population of Exeter in 2009 was estimated as 9,865 people. About 8.3 percent of the population is under the age of 5 years, 57.5 percent is between the ages of 18 and 65 years, and 9.4 percent is 65 years or older.

Of the 7,037 residents of Exeter eligible for the labor force, 64.9 percent are employed; the unemployment rate in Exeter is 8.4 percent. The median household income in Exeter is \$45,363, and the median family income is \$51,000. Per capita income in Exeter is \$17,675, and 17.3 percent of the population is living below the poverty line.

### **1.5.4 City of Farmersville**

The City of Farmersville (Farmersville) is about 5 miles east of the County seat (Visalia). Farmersville covers about 1.9 square miles, all of which is land. The total population of Farmersville in 2009 was estimated as 9,893 people. About 9.8 percent of the population is under the age of 5 years, 61.3 percent is between the ages of 18 and 65 years, and 6.1 percent is 65 years or older.

According to ACS, of the 7,055 residents of Farmersville eligible for the labor force, 56.1 percent are employed; the unemployment rate in Farmersville is 8.6 percent. The median household income in Farmersville is \$32,963, and the median family income is \$34,210. Per capita income in Farmersville is \$10,301, and 26.8 percent of the population is living below the poverty line.

**1.5.5 City of Lindsay**

The City of Lindsay (Lindsay) is on SR 65 about 15 miles southeast of the County seat (Visalia). Lindsay covers 2.4 square miles, all of which is land. The total population of Lindsay in 2009 was estimated as 10,616 people. According to the ACS, 12.7 percent of the population is under the age of 5 years, 51.2 percent is between the ages of 18 and 65 years, and 8.1 percent is 65 years or older.

Of the 6,794 residents of Lindsay eligible for the labor force, 52.5 percent are employed; the unemployment rate in Lindsay is 11.6 percent. The median household income in Lindsay is \$29,556, and the median family income is \$33,527. Per capita income in Lindsay is \$11,104, and 30.5 percent of the population is living below the poverty line.

**1.5.6 City of Porterville**

The City of Porterville (Porterville) is along SR 65 just north of SR 190, about 22 miles southeast of the County seat (Visalia). Porterville has a total area of 14.1 square miles, 1 square mile of which is water. The total population of Porterville in 2009 was estimated as 51,171 people. About 9.8 percent of the population is under the age of 5 years, 56.9 percent is between the ages of 18 and 65 years, and 8.9 percent is 65 years or older.

Of the 35,442 residents of Porterville eligible for the labor force, 55.2 percent are employed; the unemployment rate in Porterville is 6.9 percent. The median household income in Porterville is \$38,079, and the median family income is \$41,915. Per capita income in Porterville is \$15,524, and 24.3 percent of the population is living below the poverty line.

**1.5.7 City of Tulare**

The City of Tulare (Tulare) is along Highway 99, about 11 miles south of the County seat (Visalia). Tulare covers 16.7 square miles, 0.1 square mile of which is water. The total population of Tulare in 2009 was estimated as 54,286 people. Tulare is the second-most-populous city in Tulare County. About 10.1 percent of the population is under the age of 5 years, 56.8 percent is between the ages of 18 and 65 years, and 9.0 percent is 65 years or older.

According to the ACS, of the 37,393 Tulare residents eligible for the labor force, 56.9 percent are employed; the unemployment rate in Tulare is 5.1 percent. The median household income in Tulare is \$44,146, and the median family income is \$45,950, and 19.9 percent of the population is living below the poverty line. Per capita income in Tulare is \$16,999.

**1.5.8 City of Visalia**

The City of Visalia (Visalia) is the Tulare County seat. Visalia is along SR 198, about 230 miles southeast of San Francisco and 190 miles north of Los Angeles. Visalia has a total area of 28.6 square miles, all of which is land. The total population of Visalia in 2009 was estimated as 116,380, which makes it the largest city in Tulare County. About 9.7 percent of the population is under the age of 5 years, 58.7 percent is between the ages of 18 and 65 years, and 10.4 percent is 65 years or older.

Of the 83,994 residents of Visalia eligible for the labor force, 57.8 percent are employed; the unemployment rate in Visalia is 4.0 percent. The median household income in Visalia is

\$53,016, and the median family income is \$60,727. Per capita income in Visalia is \$23,769, and 15.3 percent of the population is living below the poverty line.

### **1.5.9 City of Woodlake**

The City of Woodlake (Woodlake) is a small rural town about 14 miles northeast of the County seat (Visalia). Woodlake covers 2.5 square miles, 0.5 square miles of which is water. The ACS estimated the total population of Woodlake in 2009 as 7,279 people. About 10.5 percent of the population is under the age of 5 years, 54.4 percent is between the ages of 18 and 65 years, and 7.6 percent is 65 years or older.

Of the 4,932 residents of Woodlake eligible for the labor force, 52.0 percent are employed; the unemployment rate in Woodlake is 11.3 percent. The median household income in Woodlake is \$29,241, and the median family income is \$30,814. Per capita income in Woodlake is \$11,268, and 32.7 percent of the population is living below the poverty line.

### **1.5.10 Tulare County Office of Education**

The Tulare County Office of Education (TCOE) serves over 90,000 students and 47 school districts in Tulare County. Tulare County school districts range from single-school districts with as few as 20 students to large, multi-school districts with over 25,000 students. To address the challenge of serving such a diversity of districts, the Office of Education is organized into four primary divisions: Business Services, Human Resources, Instructional Services, and Special Services.

For the 2011 HMP, the TCOE represents the following school districts: Allensworth, Alpaugh Unified, Alta Vista, Buena Vista, Burton, Citrus South Tule, Columbine, Cutler-Orosi Unified, Dinuba Unified, Ducor, Earlimart, Exeter Elementary, Exeter High, Farmersville Unified, Hope, Hot Springs, Kings River, Liberty, Lindsay Unified, Monson-Sultana, Oak Valley, Outside Creek, Palo Verde, Pixley, Pleasant View, Porterville Unified, Richgrove, Rockford, Saucelito, Sequoia Union, Springville, Stone Corral, Strathmore, Sundale, Sunnyside, Terra Bella, Three Rivers, Tipton, Traver, Tulare City, Tulare High, Visalia Unified, Waukena, Woodlake Elementary, Woodlake High, and Woodville.

### **1.5.11 Tule River Tribe**

The Tule River Indian Tribe (hereafter referred to as the Tule River Tribe) is a federally recognized tribe that inhabits the Tule River Indian Reservation, which was established in 1873. The reservation covers almost 85 square miles of rugged foothill lands of the Sierra Nevada Mountains and is about 50 miles southeast of Visalia, the Tulare County seat. The tribe consists of Yokut, Western Mono, and Tubatulabal peoples, and as of 2009 the tribal population was approximately 850 people. The Tule River Tribal Council, which was created by the constitution and bylaws of the Tule River Indian Tribe and approved January 15, 1936, conducts executive, legislative, and business functions. The Tribal Council consists of nine council members elected by secret ballot. The elected officials then decide who will perform the functions of chairman, vice chairman, secretary, and treasurer.

**1.5.12 Land Use and Development Trends**

The population of Tulare County was 368,021 in 2000 and 429,668 in 2009, which is an increase of 61,647 persons, or 16.75 percent from 2000 to 2009. The growth of the population of California during the same period was 9.12 percent. Growth has occurred throughout the populated portions of the County and has been concentrated in the four largest cities in the County. From 2000 to 2009, the population of Dinuba grew by 23 percent, the population of Tulare grew by 31 percent, the population of Porterville grew by 32 percent, and the population of Visalia grew by 33 percent. It is anticipated that the population of Tulare County will continue to grow and will continue to exceed the growth rate of the state as a whole.

The Tulare County General Plan 2030 Update (General Plan Update) was started in 2004 and presently is anticipated to be completed by the end of 2011/beginning of 2012. The Housing Element was prepared on a separate schedule and was adopted on March 23, 2010.

The General Plan Update provides a comprehensive, long-term plan for the physical development of the County. The General Plan Update consists of development policies that set forth the objectives, principles, and standards to guide land use decisions within the County.

The proposed Planning Framework Element modernizes the policies of the Urban Boundary Element around the cities and unincorporated communities in the County and formalizes the Hamlet Development Boundaries and Mountain Service Centers. The effect of this element will be to standardize land use rules to direct new growth to areas near existing growth. The purpose of this policy is to make unincorporated areas economically viable.

One of the highlights of the general plan is that it directs most development toward areas near the incorporated cities, but allows for limited development in the unincorporated communities, which have been overlooked in the past. This part of the general plan is an important part of the County's desire to raise the quality of life for residents in smaller communities. The General Plan Update will also address climate change, which is a new and important factor in county planning.

At present, the General Plan 2030 Update Report, the Final Environmental Impact Report, the Background Report, and the Draft Climate Action Plan are available to the public.

***Tule River Tribe Land Use and Development Trends***

The Tule River Reservation covers almost 85 square miles and is located in the remote rural areas of the Sierra Nevada Mountains. Most of the land on the reservation is underdeveloped and covered by oak woodlands and conifer forests. The Reservation is accessible only by one winding paved road that follows the South Fork of the Tule River. The isolated, rugged setting allows for privacy and development independent from urban or recreational sprawl.

The Tribe also owns 40 acres in the Porterville Airport Industrial Park and 79 acres in the foothill scenic development corridor along Highway 190. The Eagle Feather Trading Post, once of the largest convenience stores in Tulare County, is located on Highway 190, but the majority of the Tribe's acreage in the scenic development corridor along Highway 190 remains undeveloped. The 40 acres in the industrial park, referred to as the "Airpark," was the start of the Tule River Tribe's economic expansion beginning in the late 1980's. Intended as a diversification from the Tribe's lumbering operations the Airpark is now home to a variety of businesses and organizations including flood services, federal agencies and storage/warehouse facilities

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

The remainder of the 2011 HMP consists of the sections (and appendices) described below.

### **1.6.1 Section 2: Record of Adoption**

Section 2 addresses the adoption of the 2011 HMP by the participating jurisdictions. The adoption resolutions are provided in Appendix B, Adoption Resolutions.

### **1.6.2 Section 3: Planning Process**

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

### **1.6.3 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 2011 HMP. The hazard analysis includes the nature, history, location, extent, and probability of future events for each hazard. Figures showing the locations subject to the various hazards and the historical occurrences of hazards are provided in Appendix C, Hazard Figures.

### **1.6.4 Section 5: Vulnerability Analysis**

Section 5 describes the methodology for analyzing potentially vulnerable assets (i.e., population, residential building stock, and critical facilities and infrastructure, such as community services facilities, government buildings, public safety facilities, and public works facilities). This information was compiled by assessing the potential impacts of each hazard using Geographic Information System (GIS) data. The results of the analysis are provided in the jurisdiction-specific appendices, Appendices G through Q.

### **1.6.5 Section 6: Capability Assessment**

Section 6 describes the recommendations for the capability assessment for the plan participants from the California Emergency Management Agency (CalEMA) and the requirements of the capability assessment for the participating tribal jurisdiction. The assessment for each participating jurisdiction is provided in the jurisdiction-specific appendices, Appendices G through Q.

In each appendix, 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 also list the current, ongoing, and completed mitigation projects and programs for each participating jurisdiction.



**1.6.6 Section 7: Mitigation Strategy**

Section 7 provides a blueprint for reducing the potential losses identified in the vulnerability analysis. The Planning Committee created a list of over two dozen mitigation projects. Through an evaluation and prioritization process described in this section, each participating jurisdiction selected high-priority projects to include in its mitigation action plan.

**1.6.7 Section 8: Plan Maintenance**

Section 8 describes the formal plan maintenance process to ensure that the 2011 HMP remains an active and applicable document. The plan maintenance process consists of monitoring, evaluating, and updating the plan; monitoring mitigation projects and closeout procedures; implementing the plan through existing planning mechanisms; and achieving continued public involvement. Forms to assist in plan maintenance are found in Appendix F, Plan Maintenance.

**1.6.8 Section 9: References**

Section 9 lists the references used to develop this document.

**1.6.9 Appendices**

Appendices A-F, provide supplementary documents and figures. Appendices G-Q, provide jurisdiction specific information, including the vulnerability analysis, capability assessment and mitigation strategy.

- Appendix A - FEMA Crosswalk
- Appendix B - Adoption Resolutions
- Appendix C - Hazard Figures
- Appendix D - HMP Planning Committee Meetings
- Appendix E - Public Outreach
- Appendix F - Plan Maintenance Documents
- Appendix G - Tulare County
- Appendix H - City of Dinuba
- Appendix I - City of Exeter
- Appendix J - City of Farmersville
- Appendix K - City of Lindsay
- Appendix L - City of Porterville
- Appendix M - City of Tulare
- Appendix N - City of Visalia
- Appendix O - City of Woodlake

- Appendix P - Tulare County Office of Education
- Appendix Q - Tulare River Tribe

**2.1 OVERVIEW - PREREQUISITES**

This section describes the prerequisites that FEMA requires before it considers approval of the 2011 HMP.

**2.2 ADOPTION DOCUMENTATION**

The requirements for the adoption of the 2011 HMP by the participating local governing body, 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.

Tulare County, the City of Dinuba, the City of Exeter, the City of Farmersville, the City of Lindsay, the City of Porterville, the City of Tulare, the City of Visalia, the City of Woodlake, the TCOE, and the Tule River Tribe are the local and tribal jurisdictions represented in this 2011 HMP and meet the requirements of Section 409 of the Stafford Act and Section 322 of the DMA 2000.

The governing body of each plan participant has adopted the 2011 HMP by resolution. A scanned copy of each resolution is included in Appendix B, Adoption Resolutions.

The additional tribal requirements in DMA 2000 and its implementing regulations for the Tule River Tribe are described below.

**DMA 2000 REQUIREMENTS: PREREQUISITES****Adoption by the Tribal Governing Body**

**Requirement §201.7(c)(5):** The plan must be formally adopted by the governing body of the Indian Tribal government prior to submittal to FEMA for final review and approval.

**Element**

- Has the governing body of the Indian Tribal government adopted the new or updated plan?
- Is supporting documentation, such as a resolution, included?
- Does the plan provide assurances that the Tribe will continue to comply with all applicable Federal statutes and regulations during the periods for which it receives grant funding, in compliance with 44 CFR 13.11(c), and will amend its plan whenever necessary to reflect changes in Tribal or Federal laws and statutes as required in 44 CFR 13.11(d).

Source: FEMA 2010.

The Tule River Tribe will continue to comply with all applicable federal statutes and regulations during the periods in which it receives grant funding, as required by 44 CFR 13.11(c), and will amend its plan whenever necessary to reflect changes in tribal or federal laws and statutes, as required by 44 CFR 13.11(d).

### 3.1 OVERVIEW – PLANNING PROCESS

This section describes the planning efforts involved in the preparation of the plan including:

- Narrative of and schedule for the planning process
- Steering Committee
- Planning Committee
- Public outreach efforts
- Review and incorporation of existing plans, studies, reports, and technical information

Additional information regarding the meetings and public outreach efforts is found in Appendix D, Planning Committee Meetings, and Appendix E, Public Outreach.

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 planning process describe the review and incorporation, if appropriate, of existing plans, studies, reports, and technical information?

Source: FEMA 2008.

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

**DMA 2000 REQUIREMENTS: PLANNING PROCESS****Documentation of the Planning Process**

**Requirements §201.7(b):** An effective planning process is essential in developing and maintaining a good plan. The mitigation planning process should include coordination with other tribal agencies, appropriate Federal agencies, adjacent jurisdictions, interested groups, and be integrated to the extent possible with other ongoing tribal planning efforts as well as other FEMA mitigation programs and initiatives.

**Requirement §201.7(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 defined and involved. This shall include:

- (i) An opportunity for the public to comment on the plan during the drafting stage and prior to plan approval, including a description of how the Indian Tribal government defined “public;” and
- (ii) As appropriate, an opportunity for neighboring communities, tribal 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 nonprofit interests to be involved in the planning process.

**Element**

- Does the new or updated plan provide a narrative description of the process followed to prepare the new or updated plan?
- Does the new or updated plan indicate who was involved in the current planning process?
- Does the new or updated plan indicate how the “public” was defined and involved? (How was the “public” involved? Were they provided an opportunity to comment on the plan during the drafting stage and prior to the plan approval?)
- Does the new or updated plan discuss the opportunity for other Indian Tribal governments, tribal and regional agencies, businesses, academia, nonprofits, neighboring communities, and other affected stakeholders and interested parties to be involved in the planning process?

Source: FEMA 2008.

**3.2 SUMMARY OF PLANNING PROCESS**

This planning process was organized and completed to meet all requirements. The relevant activities included formation of a broadly based stakeholders group (the Steering Committee) with representatives from throughout the planning area and from the various state and federal governmental agencies and nongovernmental groups who provide services in, have facilities in, or have jurisdictional responsibilities for activities or programs in Tulare County. The planning process also involved the formation of a smaller Planning Committee, which primarily consisted of representatives from the participating jurisdictions. The Planning Committee met several times; announced and conducted three public workshops; and drew on the best and most current available studies, plans, and other relevant documents. These items are discussed in more detail below.

**3.3 SCHEDULE**

Table 3-1 shows the key planning tasks and the timeline associated with each task.

**Table 3-1. 2011 HMP Schedule**

Task	April 2010	May 2010	June 2010	July 2010	Aug 2010	Sep 2010	Oct 2010	Nov 2010	Dec 2010	Jan 2011	Feb 2011	Mar 2011	April 2011	May 2011	June 2011	July 2011	Aug 2011	Sep 2011	
Step 1: Organize Resources	✓	✓																	
Steering Committee Meeting: Project Kickoff		✓																	
Step 2: Plan for Public Involvement	✓	✓	✓	✓															
Planning Committee Meeting #1			✓																
Step 3: Identify the Hazards				✓	✓														
Planning Committee Meeting #2					✓														
Step 4: Assess Vulnerability						✓	✓	✓	✓	✓									
Step 5: Document the Planning Process										✓	✓								
Planning Committee Meeting #3									✓										
Step 6: Identify Goals and Objectives										✓	✓								
Planning Committee Meeting #4										✓									
Step 7: Develop Mitigation Actions											✓	✓	✓	✓					
Step 8: Monitor, Evaluate, and Update the Plan													✓	✓					
Step 9: Draft and Review the Plan												✓	✓	✓	✓				
Planning Committee Meeting #5														✓					
Public Workshops																	✓		
Step 10: Adopt and Submit the Plan																		✓	✓

**3.4 STEERING COMMITTEE**

The Steering Committee for the 2011 HMP consisted of a wide spectrum of stakeholders with responsibilities for providing services, having facilities in, or exercising jurisdiction in Tulare County. Some examples of these stakeholders are the National Weather Service, the Red Cross, and the California Department of Forestry and Fire Protection (CalFIRE). Table 3-2 lists the members of the Steering Committee and their affiliations.

The project kickoff meeting was held May 24, 2010; this meeting was used to introduce the HMP project to the Steering Committee. At the kickoff meeting, the following topics were addressed:

- The objectives of the HMP planning process and the DMA 2000 requirements;
- Why national emphasis is being placed on reducing future disaster losses;
- Types of mitigation funding available and example projects
- The plan development process and schedule
- Public outreach mechanisms, with a focus on the development of a website for the 2011 HMP
- Is the hazard included in the 2030 General Plan Update for Tulare County?

**Table 3-2. Steering Committee**

Name	Department or Agency
<b>Tulare County</b>	
Cypert, Hal	Tulare County General Services
Dvoskin, Larry	Tulare County Health and Human Services
Hunt, Roger	Tulare County Resource Management Agency
Jose, Ruiz-Salas	Tulare County Department of Public Health
Kinoshita, Marilyn	Tulare County Agriculture Commissioner
Lockman, Andrew	Tulare County Office of Emergency Services
Martens, Joel	Tulare County Department of Environmental Health
May, Jim	Tulare County Resource Management Agency - Flood Control
Mendoza, Ted	Tulare County Fire Department
Micari, Larry	Tulare County Sheriff's Office
Smith, Amber	Tulare County Office of Emergency Services
<b>Dinuba</b>	
Thompson, Chad	City of Dinuba Fire Department
<b>Exeter</b>	
Bush, Cliff	City of Exeter Police Department
Rabena, Celis	City of Exeter, Police Department
<b>Farmersville</b>	
Krstic, Mario	City of Farmersville Police Department



**Table 3-2. Steering Committee**

<b>Name</b>	<b>Department or Agency</b>
<b>Lindsay</b>	
Hughes, Christopher	City of Lindsay Police Department
Clower, Bryan	City of Lindsay Police Department
<b>Porterville</b>	
Garcia, Mario	City of Porterville Fire Department
<b>Tulare</b>	
Epps, Willard	City of Tulare Fire Department
Kielty, Mark	City of Tulare Planning and Building
Simoes, Bonnie	City of Tulare Planning
Threlkeld, Michael	City of Tulare Fire Department
<b>Visalia</b>	
Damko, Doug	City of Visalia
Kassner, Karl	City of Visalia Fire Department
Mestas, Colleen	City of Visalia Police Department
<b>Woodlake</b>	
Aguayo, Jose	City of Woodlake Police Department
<b>Tulare County Office of Education</b>	
Caudle, John	Tulare County Office of Education
<b>Tule River Tribe</b>	
Galupe, Larry	Tule River Tribe
<b>Agency</b>	
Clary, Stephen	National Park Service, Sequoia/Kings Canyon National Park
Davis, Marie	Central Valley Red Cross
Deffenbaugh, Phil	U.S. Army Corps of Engineers
Foster, Calvin	U.S. Army Corps of Engineers
Mendenhall, Steve	U.S. National Weather Service
Swartzlander, Kirk	Cal Fire

**3.5 PLANNING COMMITTEE**

The Planning Committee was formed after the first meeting of the Steering Committee. The Planning Committee met five times during the planning process. Table 3-3 lists the members of the Planning Committee and their affiliations. Further information (meeting agendas and notes) is presented in Appendix D, Planning Committee Meetings.

**Table 3-3. Planning Committee**

<b>Name</b>	<b>Department or Agency</b>
<b>Tulare County</b>	
Ruiz-Salas, Jose	Tulare County Department of Public Health
Kinoshita, Marilyn	Tulare County Agriculture Commissioner
Lockman, Andrew	Tulare County Office of Emergency Services
Martens, Joel	Tulare County Department of Environmental Health
May, Jim	Tulare County Resource Management Agency - Flood Control
Micari, Larry	Tulare County Sheriff's Office
Smith, Amber	Tulare County Office of Emergency Services
McNeill, Stevie	Tulare County Department of Agriculture
Sunderland, Steve	Tulare County Fire
Pallitto, Tony	Tulare County Health and Human Services
<b>Dinuba</b>	
Thompson, Chad	City of Dinuba Fire Department
<b>Exeter</b>	
Qualls, Daymon	City of Exeter Police Department
Rabena, Celis	City of Exeter Police Department
<b>Farmersville</b>	
Krstic, Mario	City of Farmersville Police Department
<b>Lindsay</b>	
Hughes, Christopher	City of Lindsay Police Department
Clower, Bryan	City of Lindsay Police Department
<b>Porterville</b>	
Garcia, Mario	City of Porterville Fire Department
<b>Tulare</b>	
Epps, Willard	City of Tulare Fire Department
Threlkeld, Michael	City of Tulare Fire Department
<b>Visalia</b>	
Damko, Doug	City of Visalia
Kassner, Karl	City of Visalia Fire Department
<b>Woodlake</b>	
Aguayo, Jose	City of Woodlake Police Department
<b>TCOE</b>	
Caudle, John	Tulare County Office of Education
<b>Tule River Tribe</b>	
Santos, Shane	Tule River Tribe Fire Department
Vera, Vernan	Tule River Tribe Community Planning

**Table 3-3. Planning Committee**

Name	Department or Agency
Agency	
Clary, Stephen	National Park Service, Sequoia/Kings Canyon National Park
Deffenbaugh, Phil	U.S. Army Corps of Engineers
Foster, Calvin	U.S. Army Corps of Engineers

Summaries of the five Planning Committee meetings are provided below, in chronological order.

**June 21, 2010**

The first Planning Committee Meeting began with a brief recap of the kickoff meeting for the Steering Committee and then described the objective of the 2011 HMP planning process, the DMA 200 requirements, and the plan development process and schedule. After this recap and description, the focus of the meeting shifted to identifying the hazards that are most important to the committee and therefore the hazards that should be analyzed in the County’s 2011 HMP.

The participation of other agencies in future planning meetings was also discussed. It was decided that the following agencies would be contacted and invited to join the Planning Committee: CalFire, California Highway Patrol, the Tulare County Department of Environmental Health, the Tulare County Department of Public Health, the U.S. Bureau of Land Management, and the U.S. Forest Service.

**August 23, 2010**

The second Planning Committee Meeting focused on reviewing the preliminary hazard data and maps and discussing how some hazards with potential local impacts (e.g., floods) could be addressed through mitigation projects, whereas other hazards with local impacts (e.g., fog) could be recognized but little could be done to mitigate them. After a brief discussion of each potential hazard, the Planning Committee decided whether the hazard should remain part of the 2011 HMP. It was decided that some hazards would be kept in the hazard profile text, but not included in the vulnerability analysis.

Assets and critical facilities were also discussed. URS Corporation (URS), the planning consultant working with OES to coordinate the 2011 HMP, explained the types of facilities that are important to include in the analysis and the information needed about each type of facility (city, county, and tribal facilities). The capability assessment was also discussed; the purpose of this discussion was to identify and evaluate the resources each participating jurisdiction has available to assist in its mitigation efforts.

**December 8, 2010**

The third Planning Committee Meeting involved the presentation of the initial draft of the vulnerability analysis. The purpose of and the methodology behind the vulnerability analysis was further discussed. Committee members were asked to review the analysis for accuracy and completeness.

The capability assessment was discussed again in detail. Some confusion about the capability assessment was evident after the second meeting, so the Capability Assessment Workbook was reintroduced and the worksheets were reviewed step by step.

### **January 31, 2011**

The fourth Planning Committee Meeting focused on the development of the mitigation strategy section. The purpose of a mitigation strategy was explained and Planning Committee members were provided a Mitigation Strategy Workbook to help guide them through the development process.

The Mitigation Strategy Workbook has been designed to accomplish the following: familiarize the participants with eligible and ineligible FEMA mitigation actions; provide a list of potential mitigation actions for the participants to review (additional mitigation actions may be added, if necessary); and to select and prioritize the mitigation actions to be included in each plan participant's mitigation action plan. Participants were given five weeks to work with staff from other relevant departments and agencies in their jurisdictions to develop their jurisdiction-specific mitigation action plan.

### **May 25, 2011**

The fifth Planning Committee Meeting involved the presentation of the Initial Draft Plan to the Planning Committee. During this meeting, the Planning Committee reviewed and commented on each section of the completed document. The courtesy review process and the adoption process for the HMP were also explained and discussed.

Public workshops will be held to formally present the HMP to the general population. The Planning Committee discussed the structure of the workshops, dates, length and means to publicize the workshops.

## **3.6 PUBLIC OUTREACH**

The plan development process included ongoing public outreach activities, such as presenting opportunities for the public to provide information and participate through the publicly accessible and advertised website for the Tulare Hazard Mitigation Plan: [www.tularehmp.com](http://www.tularehmp.com). The website provided general information about the development of the 2011 HMP and access to all planning documents. The website also provided the public a link to submit comments at any point in the planning process.

In addition to the website, three public workshops were held to present the Final Draft Plan and to solicit public input. The public workshops were all held on July 21, 2011 with a morning session in Porterville, an afternoon session in Dinuba and an evening session in Visalia. Appendix E, Public Meetings, provides additional information about the public meetings.

### **3.6.1 Tribal Public Participation Process**

The Tule River Tribe recognizes the "public" as all members present on the Tule River Reservation, Off-Reservation Trust Lands, and other tribally owned properties. The Tule River Tribes involvement in the 2011 HMP planning process facilitated adjacent jurisdictions involvement, participation and review. This processes assured that the Tule River Tribe's mitigation actions and projects were viable for all stakeholders.

The 2011 HMP was internally reviewed by various Tribal Departments throughout the document's development and upon completion, including the Environmental Department, the Community Planning and the Fire Department.

### **3.7 INCORPORATION OF EXISTING PLANS AND OTHER RELEVANT INFORMATION**

During the planning process, the planning team reviewed existing plans, studies, and reports and incorporated material relevant to the 2011 HMP. The key state, tribal, and local information sources integrated into this document are listed below. Section 9, References, lists all the sources used to prepare The 2011 HMP.

**County of Tulare, RMA Planning Branch, *Background Report: Tulare County General Plan, February 2010*.** This detailed 12-chapter report, which was required by California's general planning law, provided valuable data to support the 2011 HMP. Of special importance was the chapter on market conditions and demographics (including economic and demographic characteristics) and the chapter on safety (which included discussion of geologic and seismic hazards, flood hazards, fire hazards, and hazardous waste).

**County of Tulare, RMA Planning Branch, *General Plan Goals and Policies Report, Tulare County, January 2008*.** Tulare County is in the process of updating its General Plan. The portion of the Goals and Policies Report that was most relevant to the 2011 HMP was Chapter 10, Health and Safety, which addresses key public safety subjects relevant to Tulare County. Of particular importance were the sections on geologic and seismic hazards, hazardous materials, flood hazards, urban and wildland fire hazards, and work plan/implementation measures.

**State of California, California Emergency Management Agency, *State of California Multi-Hazard Mitigation Plan, 2010*.** This second update of the original 2004 Hazard Mitigation Plan provides the basis for hazard mitigation planning in California, provides an overview of hazards and risks, and discusses a variety of directly related subjects. Of particular importance to the 2011 HMP was the information about the hazards, risks, and vulnerabilities that, when coupled with local information, provide the best available information for use in Tulare County. The state plan also describes state-local relationships, which are discussed where needed in this plan. For example, CalFire provides services both from its own facilities and from locally owned facilities through service contracts.

**Tule River Indian Tribe, *General Website, 2010*.** The Tule Rive Tribe website was accessed on numerous occasions throughout the planning process. The website provided information regarding the Tribe in general, their land use and the Tribal Council.

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#### 4.1 OVERVIEW – HAZARD ANALYSIS

A hazard analysis consists of identifying, screening, and profiling each hazard. The hazard analysis encompasses 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 encompass technological hazards. Technological hazards are generally accidental or result from events with unintended consequences (for example, an accidental release of hazardous materials).

Local mitigation planning requirements specify that this hazard analysis consist 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.

<p style="text-align: center;"><b>DMA 2000 REQUIREMENTS: RISK ASSESSMENT</b></p> <p style="text-align: center;"><b>Identifying Hazards</b></p> <p><b>Requirement 44 CFR § 201.6(c)(2)(i):</b> [The risk assessment shall include a] description of the type of all natural hazards that can affect the jurisdiction.</p> <p><b>Element</b></p> <ul style="list-style-type: none"><li>▪ Does the new or updated plan include a description of all of the types of all natural hazards that affect the jurisdiction?</li></ul> <p>Source: FEMA 2008.</p>
--

As the first step in the hazard analysis, the Planning Committee conducted the hazard identification and screening process by reviewing the list of hazards presented in Table 4-1 and by applying the following questions to each listed hazard:

- Is the hazard included in the Draft 2010 State of California Hazard Mitigation Plan?
- Has the hazard occurred in Tulare County and been declared a presidential or state emergency or disaster in the past 40 years?
- Is the hazard included in the 1993 Tulare County Multi-Hazard Functional Plan?
- Is the hazard included in the 2030 General Plan Update for Tulare County?

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

**Table 4-1. Tulare County Hazard Screening**

Hazard	Identified in 1993 Multihazard Functional Plan	Identified in 2030 General Plan Update <sup>(1)</sup>	Declared Emergencies and Disasters, 1970 to Present	
			State	Presidential
Agricultural biological			X	
Avalanche				
Civil unrest		X		
Coastal erosion		X		
Dam Failure	X	X <sup>(2)</sup>		
Drought			X	
Earthquake	X	X		X
Energy emergency/power disruption				
Expansive soils		X		
Flood <sup>(3)</sup>	X	X	X	X
Fog				
Hailstorm				
Hazardous materials		X <sup>(4)</sup>		
Heat				
Hurricane				
Infectious disease				
Landslide/mudslide	X	X		X
Levee failure	X		X	X
Liquefaction	X	X		
Noise		X		
Severe wind				X
Severe winter storm			X	X
Subsidence		X		
Terrorism				
Tornado				
Transportation disruption				
Tsunami/seiche		X		
Volcano				
Wildfire/fire	X	X <sup>(5)</sup>	X	X

<sup>(1)</sup> Includes Background Report and Revised Draft

<sup>(4)</sup> Hazardous materials and waste

<sup>(2)</sup> Inundation from dam failure

<sup>(5)</sup> Fire

<sup>(3)</sup> Includes post-fire debris flow



After discussing each hazard listed in Table 4-1, the Planning Committee determined that the following hazard groups pose the greatest threat to the County and should therefore be profiled in the 2011 HMP.

- Avalanche
- Biological hazard
  - Medical hazard
  - Agricultural hazard
- Civil disturbance
- Earthquake
- Energy emergency
- Flood
  - Riverine, shallow, and localized
  - Dam failure
  - Levee failure
- Fog
- Hazardous materials
  - Mobile incident
  - Fixed incident
- Heat
- Landslide/mudslide
- Post-fire debris flow
- Severe winter storm
- Terrorism
- Volcano
- Wildfire

The Planning Committee determined that the remaining hazards pose a lower threat to life and property in the County because of their low likelihood of occurrence and/or the low probability that life and property would be affected significantly. If the risk from these remaining hazards increases, the 2015 HMP can be updated to incorporate a hazard analysis for these hazards.

Of the hazards chosen to be addressed in the 2011 HMP, Table 4-2 shows which hazards affect each participating jurisdiction.

**Table 4-2. Hazards by Jurisdiction**

Hazard	Tulare County	City of Dinuba	City of Exeter	City of Farmersville	City of Lindsay	City of Porterville	City of Tulare	City of Visalia	City of Woodlake	TCOE	Tule River Tribe
Avalanche	X										
Biological hazard <sup>(1)</sup>	X	X	X	X	X	X	X	X	X	X	X
Civil unrest	X	X	X	X	X	X	X	X	X	X	X
Earthquake	X	X	X	X	X	X	X	X	X	X	X
Energy emergency	X	X	X	X	X	X	X	X	X	X	X
Flood <sup>(2)</sup>	X	X	X	X	X	X	X	X	X	X	X
Fog	X	X	X	X	X	X	X	X	X	X	X
Hazardous materials <sup>(3)</sup>	X	X	X	X	X	X	X	X	X	X	X
Heat	X	X	X	X	X	X	X	X	X	X	X
Landslide/mudslide	X										
Post-fire debris flow	X										
Severe winter storm	X	X								X	X
Terrorism	X	X	X	X	X	X	X	X	X	X	X
Volcano	X										
Wildfire	X					X			X	X	X

<sup>(1)</sup> Includes medical and agricultural biological hazards

<sup>(2)</sup> Includes riverine, shallow and localized flooding; dam failure and levee failure

<sup>(3)</sup> Includes mobile and fixed incidents

**4.3 HAZARD PROFILES**

The requirements for hazard profiles, as stipulated in DMA 2000 and its implementing regulations, are described 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 that the Planning Committee selected for the 2011 HMP have been profiled using existing available information. The hazard profiles consist of describing the nature of each hazard, the disaster history of each hazard, locations susceptible to each hazard, the possible extent of each hazard, and the probability of future events for each hazard. The sources of information used to prepare this document are listed in Section 9.

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

**4.3.1 Avalanche**

**Nature:** An avalanche is a flow of snow down a mountainside. Avalanches are among the biggest dangers in mountain areas for both life and property. Several factors contribute to the occurrence of avalanches, including weather, temperature, slope steepness, slope orientation (whether the slope is facing north or south), wind direction, terrain, vegetation, and general snowpack conditions. Different combinations of these factors can create low, moderate, or extreme avalanche conditions. In general, there are three types of avalanches: slab, sluffs or loose snow, and wet avalanches.

Slab avalanches often involve large volumes of fast-moving snow. Slab avalanches occur when a cohesive or hard layer of snow is located on top of a less cohesive or softer and weaker layer of snow. When the weaker layer collapses and the snowpack fractures, the slab starts moving almost instantaneously and a slab avalanche occurs. The slab avalanche is both the most common and the deadliest avalanche.

Sluffs or loose snow avalanches generally occur at the surface in fresh, loose snow. They are commonly formed on steeper slopes, where snow conditions appear stable. Sluffs or loose snow

avalanches usually begin at a point or small area and increase in size as more snow is entrained. They typically are the least dangerous type of avalanche.

Wet avalanches occur when warm temperatures melt the surface snow layers, which become saturated with water. The water weakens the bonds between the layers, leading to the movement of the snow. Wet avalanches move more slowly than dry avalanches but can still be very dangerous.

Avalanches are most likely to occur either during or immediately after significant snowfall. The 24 hours following a heavy snowstorm are the most critical. Avalanche conditions can be analyzed by monitoring temperature, wind, and snowfall amounts during a storm.

Avalanches kill and injure people through burial and mechanical impact. Victims of avalanches can suffer injuries as a result of being dragged through trees and cliffs. They may also get hurt by their own equipment: snowboards, skis, or snowmobiles. Avalanches can also bury victims in snow, causing suffocation from lack of oxygen or physical injury from the weight of the snow. According to avalanche researchers, approximately two-thirds of avalanche fatalities are due to suffocation, and the majority of the remaining are due to head and neck trauma.

Although the majority of avalanches involving people occur in the backcountry, away from development, avalanches can also cause property damage to homes and transportation facilities, such as highways and railroads, in developed areas. The economic costs of disruptions from road closures, lost vehicles, and destroyed homes can be significant in areas with limited access options. In addition, avalanches can disturb forest resources and wildlife habitat. However, avalanche fatalities provide the best indicator for locations of where events occur and what populations are most threatened.

**History:** Only one fatality has been recorded in Tulare County in recent years as a result of an avalanche. In January 2008, two hikers in Tokopah Canyon, Sequoia National Park, were crossing a steep slope when an avalanche occurred and resulted in one fatality.

Avalanche fatalities are uncommon for the State of California as well. Statistics provided by the Northwest Weather and Avalanche Center note that since the winter of 1985, 28 avalanche fatalities have occurred in California. In comparison Colorado and Arkansas have the highest number of fatalities at 149 and 101 respectively.

**Location:** While avalanche fatalities are the best indicator for avalanche location, with only one recorded fatality in Tulare County there is not sufficient information to develop a definitive list of avalanche locations. Therefore, for this HMP avalanche vulnerability is analyzed by snowfall amount and slope.

The southern portion of the Sierra Nevada range crosses through Tulare County. Various areas within the mountain range, especially steep-sloped areas that are likely to experience significant amounts of snowfall, are vulnerable to avalanches. Figure C-1 (Appendix C, Hazard Figures) illustrates the areas most vulnerable to avalanches; all of the vulnerable areas are located in the unincorporated areas of Tulare County. Areas that receive at least 72 inches of snowfall per year and have a slope of 45-60 degrees were considered to be in the medium avalanche hazard zone and areas that receive at least 72 inches of snowfall per year and have a slope of 30-45 degrees were considered to be in the high avalanche hazard zone.

**Extent:** The size of avalanches depends on the amount of snow that is initially released, the amount picked up or deposited during downslope motion, and the mechanical properties of

snow, such as moisture content and runout distance. In the United States, avalanches are classified into five sizes based on an estimate of the volume of snow transported down the avalanche path and are relative to path. Relating avalanche size to the path implies that the same avalanche may have a wide variation in size according to the path on which it falls. Information regarding the path is required for the avalanche size to be meaningful. As this information for Tulare County is not currently available, the extent of avalanches occurring is unknown.

**Probability of Future Events:** In the southern portion of the Sierra Nevada range, which crosses through Tulare County, snowfall is heaviest in February and March. Therefore, avalanche-like conditions are most likely during these months. However, as also noted above, avalanches in this mountain range can occur as early as November and as late as spring and early summer when near-surface loose wet snow, deep wet slab avalanches, and winter storm conditions exist. Minor avalanches are almost guaranteed every winter. Therefore, it is highly likely an avalanche is probable within Tulare County within the calendar year (a 1 in 1 years chance of occurring -  $1/1 = 100$  percent). History of events is greater than 33 percent likely per year.

### **4.3.2 Biological Hazard**

Biological hazards refer to biological substances that pose a threat to the health of living organisms, primarily humans. Such substances can include microorganisms, viruses, or toxins from a biological source that can affect human health. This section discusses (1) medical hazards/infectious diseases, and (2) agricultural biological hazards.

#### ***Medical Hazard***

**Nature:** Infectious diseases are diseases caused by a pathogen which enters the body, triggering development of an infection. Such pathogens may include bacteria, viruses, fungi, prions, or protozoans. Infectious diseases can have a range of causes and are often considered contagious or communicable, meaning they can be passed from person to person. They can be transmitted through numerous modes, including direct contact (person-to-person, animal-to-person, or mother-to-unborn child), insect bites, food and water contamination, or airborne inhalation. Many infectious diseases can make the body vulnerable to secondary infections, which are caused by other organisms taking advantage of an already weakened immune system.

Infectious diseases can affect anyone. According to the Global Health Council, over 9.5 million people die each year from infectious diseases. Although progress has been made to control or eradicate many infectious diseases, humans remain vulnerable to many new emerging organisms, such as severe acute respiratory syndrome (SARS) and the West Nile virus. In addition, previously recognized pathogens can evolve to become resistant to available antibiotics and other treatments. For example, malaria, tuberculosis, and bacterial pneumonias are appearing in new forms that are resistant to drug treatments. The spread of infectious diseases also increases with population growth and the ease of travel.

Human activities play an important role in the spread of infectious diseases. These activities can include:

***Human behavior and demographics:*** Human behavior contributes to emergence of infectious diseases by enhancing the opportunity for parasites to encounter human beings. Excess human fertility increases the chances that a destructive pathogen will appear. As the human population increases, the frequency of close contact also increases. People living in close

proximity with animals with poor sanitation can propagate new strains because microbes can jump between species.

*Agricultural changes:* As new crops are introduced, new crop pests and the microbes they carry can expose people to unfamiliar diseases, particularly in farming communities.

*Technological advancement:* The invention of different modes of transportation and increasing technological advancement has led to the spread of infectious diseases. Millions of people move short and long distances around the globe for work or pleasure, enhancing microbial encounters. Pathogens can be transported great distances before symptoms even appear. Technological advancement is also reflected in modern communications. Modern communications systems provide a method for which ideas can be transferred and influence human behavior. In addition, modern communications systems can motivate close encounters, which are facilitated by modern transportation.

*Environmental changes:* As the release of greenhouse gases increases, global warming can lead to the growth of plants and algae, as well as to massive changes in the climate. Each of these factors may affect the pathogenic range of microorganisms and their ability to adapt and create new strains.

Although there are many different types of infectious diseases, the most dangerous infectious diseases likely to threaten the United States over the next two decades include:

*HIV/AIDS:* HIV stands for human immunodeficiency virus and can lead to acquired immune deficiency syndrome (AIDS). HIV damages the body by destroying specific blood cells that are crucial to helping the body fight diseases. AIDS is the late state of HIV infection, when a person's immune system is severely damaged and has difficulty fighting diseases and certain cancers. Although emerging drug therapies have cut HIV/AIDS deaths significantly in recent years, emerging microbial resistance to such drugs and continued new infections will sustain the threat.

*Hepatitis C:* Hepatitis C is a liver disease that is accompanied by painful, red inflammation of the liver. Approximately 3.2 million Americans have Hepatitis C infections, which account for about \$15 billion annually in healthcare costs.

*Tuberculosis (TB):* TB is a deadly infectious disease which attacks the lungs and is caused by various strains of mycobacteria. The disease is spread through the air, when infected people cough, sneeze, or spit. TB has been exacerbated by new resistant strains and HIV/AIDS co-infection. The threat of spreading TB continues to be an issue with the spread of HIV and the growing number of new immigrants infected by TB.

*Methicillin-resistant staphylococcus aureus (MRSA):* MRSA is a kind of bacteria that is resistant to a family of antibiotics related to penicillin. Staphylococcus aureus (staph) are bacteria commonly carried on the skin or in the nose of healthy people. Most people carrying staph do not have skin infections. However, staph can sometimes cause infections, especially in people with weakened immune systems. Staph, including MRSA, can be spread by direct skin-to-skin contact or by contact with items that have been touched by people with staph. In 2008, MRSA was the sixth-leading cause of death in the United States. More than 90,000 Americans have been infected by MRSA. In addition, MRSA is a major source of hospital-acquired infections.

*More lethal variants of influenza:* Influenza is a contagious respiratory illness caused by influenza viruses. It can cause mild to severe illness and at times can lead to death. The flu is especially dangerous because it is spread through the air. The two main types of flu virus are Type A influenza and Type B influenza. These types are viruses that routinely spread in people (human influenza viruses) and are responsible for seasonal flu epidemics each year.

In April 2009, a new strain of the flu virus called swine flu (or H1N1 flu virus) emerged. The virus was first detected in the United States and has spread around the world. Swine flu spreads in much the same way that seasonal influenza viruses spread. Like seasonal flu, H1N1 in humans can vary in severity from mild to severe. Severe disease with pneumonia, respiratory failure, and death is possible with the H1N1 flu infection. In June 2009, the World Health Organization declared that a global pandemic of H1N1 flu is underway.

**History:** Table 4-3 illustrates the occurrence of selected communicable diseases, by number of cases, in Tulare County from 2001 to 2008 (disease selection made by the California Department of Public Health).

**Table 4-3. Tulare County Selected Communicable Diseases, 2001–2008**

<b>Infectious Disease</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>
Animal Rabies	4	0	2	3	0	8	1	0
Brucellosis	1	0	0	0	1	1	0	0
Campylobacteriosis	140	140	137	131	122	137	130	163
Coccidioidomycosis	70	96	143	161	132	192	172	224
Cryptosporidiosis	1	3	1	2	1	0	3	2
Escherichia Coli O157	3	6	4	2	4	9	7	7
Giardiasis	45	27	20	12	13	10	19	18
Listeriosis	2	0	4	2	1	1	2	1
Lyme disease	2	0	0	0	0	0	1	0
Q Fever	0	0	1	0	0	0	0	0
Salmonellosis	58	59	58	51	70	77	79	93
Shigellosis	21	21	20	16	14	22	28	30
Typhoid fever	0	0	0	0	0	0	1	0
Vibriosis (non-cholera)	0	0	0	0	0	1	0	0

Source: CDPH 2010b.

Recently, influenza has had the most significant impact and caused the largest concern. In the spring of 2009, a new influenza A (H1N1 flu) virus emerged, which eventually spread worldwide. Table 4-4 illustrates H1N1 flu hospitalization and death information for Tulare County.

**Table 4-4. Pandemic (H1N1) 2009 Virus Provisional Data:  
April 23, 2009–May 1, 2010**

County	Severe Cases <sup>(1)</sup>	ICU Cases <sup>(2)</sup>	Deaths <sup>(3)</sup>
Tulare County	28	28	5

Source: CDPH 2010a.

<sup>(1)</sup> Includes: (a) fatal cases not admitted to the ICU, (b) fatal cases admitted to the ICU, and (c) non-fatal cases admitted to the ICU.

<sup>(2)</sup> Includes the following individuals: (a) non-fatal ICU cases, (b) fatal ICU cases.

<sup>(3)</sup> Not all fatal cases were admitted to the ICU.

ICU= intensive care unit

**Location:** Tulare County and all participating jurisdictions are vulnerable to infectious emerging diseases. However, because of the communicable nature of these diseases, city centers or areas of high population concentrations, such as the cities of Tulare and Visalia, are more susceptible to transmission and infection.

**Extent:** Each infectious disease has a different transmutability, which affects the probability of occurrence. In addition, the spread of infectious diseases and the probability of their occurrence are affected by factors, such as environmental changes, human behavior and demographics, technological advancement, and agricultural changes.

People who have weak immune systems are particularly vulnerable to infectious diseases. Infectious diseases can seriously affect those individuals who are infected with HIV or are receiving immunosuppressive therapy for cancer or organ transplants. Others who are generally disproportionately affected by infectious diseases include the elderly; persons being cared for in institutional settings (such as hospitals and nursing homes); and persons with inadequate access to health care, such as the homeless, migrant farm workers, and others of low socioeconomic status. In addition, pregnant women and people who care for small children are generally at higher risk for acquiring infectious diseases.

**Probability of Future Events:** According to the Centers for Disease Control and Prevention (CDC), influenza does have a predictable pattern and a near certainty of occurrence. CDC estimated that approximately 5 to 20 percent of the population contracts the seasonal flu.

Due to the H1N1 flu, the occurrence of influenza was higher than the yearly average. During the 2009 to 2010 flu season, the H1N1 flu virus caused more illness in young people and pregnant women than is usual based upon prior flu seasons. However, according to FluView, a weekly influenza surveillance report prepared by CDC, flu activity is declining and is about the same as what is normally seen during the summer in the United States. Furthermore, with the introduction of influenza vaccination, influenza occurrences are likely to remain below those reported during the 2009 to 2010 influenza season; probability of occurrence will return to the typical estimation of 5 to 20 percent of the population to contract the flu annually.

#### ***Agricultural Hazard***

**Nature:** Agricultural infestation is a naturally occurring infection of crops or livestock that renders them unfit for consumption or other use. Typical causes are insects, vermin, fungus, and diseases that are transferable among insects or animals. The types and severity of agricultural infestations vary based on many factors, such as heavy rain and drought cycles.



The onset of an agricultural infestation can be rapid, and controlling the spread is critical to limiting the impact. Methods such as quarantine, culling, premature harvest, and/or crop destruction, when necessary, are used to control the spread. Duration is affected largely by the degree to which the infestation is controlled but commonly is more than one week. The warning time needed to control infestation is typically more than 24 hours; maximization of warning time is critical for reducing the damage from this hazard.

Agriculture is a vital component of Tulare County's economy, and the County's agricultural strength is based on the diversity of the crops produced. In 2009, the County's crops were valued at \$4,046,447.700. Fifty commodities had a gross value in excess of \$1 million. Although the production of individual commodities may vary from year to year, Tulare County continues to provide high-quality crops to more than 89 countries worldwide. According to the California Department of Food and Agriculture, Tulare County ranks as the second-largest agricultural-producing County in all of California, with a production value of \$5.02 billion in 2008. It is second only to Fresno County.

Agriculture in Tulare County may be affected by insect pests and agriculture biological diseases. Not only could crops be directly affected, but the County could experience economic losses from an inability to export crops if the emergence of a serious pest triggered a quarantine. The most likely biological hazards to agriculture in Tulare County are:

*Glass-winged sharpshooter (GWSS)*: The GWSS is a type of leaf-hopping insect native to the southeastern United States. Grape crops are extremely vulnerable to the GWSS, which carries a bacterial infection called Pierce's disease. Public interest in the GWSS has grown since this hazard was first identified in California in 1990. Pierce's disease infects the xylem of plants, which is the structure responsible for transmission of water and nutrients. Within one year of infection, the infected plant will wither and die. There is currently no cure for Pierce's disease.

*Vine mealybug (VMB)*: The VMB is emerging as a serious vineyard pest across the major grape-growing districts in California. VMB negatively affects grape crops by contaminating clusters with egg sacs, larvae, adults, and honeydew. Premature defoliation of the grape vine can occur from excessive feeding on the leaves. Feeding near the fruit allows for the entry of fungi, which can rot clusters of grapes. VMB reproduces quickly and can continue reproduction even below ground, where it is protected from pesticides and cold weather. Because of its rapid rate of reproduction, VMB can result in large economic losses. Once established, it is difficult to eradicate.

*Olive fruit fly*: The olive fruit fly is considered to be the most serious pest of olive fruit in the world. The fly was first detected in the Los Angeles Basin in 1998 and by 2001 had spread to Tulare County. The olive fruit fly lays eggs in the olive and as the eggs hatch, the larvae feed on the fruit and cause fruit to drop prematurely. The infestation also causes an increase in fruit acidity, decreasing fruit and oil quality.

*Asian citrus psyllid*: The Asian citrus psyllid is a citrus pest originally found in rural San Diego County. The small, invasive, aphid-like insect pest carries Huanglongbing (HLB) disease, a bacterial disease that affects citrus trees. HLB is the most devastating disease of citrus trees in the world. 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.

European grapevine moth: The European grapevine moth is the latest pest to find its way into the Central Valley. The European grapevine moth prefers to host on grapes, but has also been reported on the flowers of olive and rosemary. The moth has 2 to 4 generations per year depending on the temperature, and larvae in the later generations cause economic damage by feeding directly on mature grapes.

**History:** The glass-winged sharpshooter, vine mealybug, and olive fruit fly have been detected in Tulare County. The Asian citrus psyllid and European grapevine moth have not been detected in the County yet, but are imminent threats.

Glass-winged sharpshooter: GWSS was first identified in California in 1990. Between 1990 and 1993, increasing numbers of the insect began to appear throughout California. By 1997 to 1998, the numbers and habits of the GWSS were causing serious concern to the viticultural industry as well as other horticultural industries. According to the Tulare County Table Grape Pest and Disease Control District, from July 2003 through December 2004, 56,592 acres of citrus were treated for GWSS in Tulare County. Tulare County has been actively employing a control and suppression program for GWSS. In 2003, the program expanded to an area-wide control project which employs over 6,000 traps throughout the County.

Vine mealybug: VMB was first identified in the Coachella Valley, California in 1994. In 1998, the VMB was discovered in a few southern San Joaquin Valley vineyards. In 2004, VMB was found in Tulare County as well as San Benito and Merced counties. Tulare County currently employs field tests of pheromone trapping, a technique which helps detect incipient infestations. These traps are being used to monitor VMB males in nurseries and newly infested areas of the state.

Olive fruit fly: The olive fruit fly was first detected in the Los Angeles Basin in 1998 and spread to Tulare County by 2001. Since 2004, the California Olive Committee has been funding research to define the insect's biology and to determine potential chemical and biological control methods.

Asian citrus psyllid: The Asian citrus psyllid pest was first identified in San Diego County in 2008. As of June 2010, the pest has not been detected in Tulare County. However, the Tulare County Agricultural Commissioner recently expressed worry that the Asian citrus psyllid could enter the County on truckloads of citrus fruit coming from Mexico during late summer.

European grapevine moth: The European grapevine moth was first reported in the United States from Napa County vineyards in October 2009. The pest was found in Fresno County in 2010. However, no traces have been found in Tulare County as of June 2010. In June 2010 a quarantine was extended throughout Fresno County. The Fresno County Department of Agriculture and the California Department of Food and Agriculture currently have more than 5,000 moth traps in place throughout the County.

**Location:** The agricultural areas of Tulare County, most of which are part of the San Joaquin Valley, are the most vulnerable to agricultural biological hazards. These Valley Agricultural areas (as termed by the Tulare County General Plan 2030 Update) are located in the western portion of the County and with the exception of the Tule River Tribe, surround all participating jurisdictions. The following describes the most vulnerable agricultural areas.

Glass-winged sharpshooter: The GWSS feeds on the xylem tissues of its host plants. While GWSS are often found hosting on grape crops, it can also be found on a wide variety of

ornamental landscape plants, agricultural crops, and natural vegetation. The GWSS has also been observed in citrus plants and avocado groves. The GWSS is most likely to be found in vineyards and farms or fields which grow these types of plants.

Vine mealybug: The VMB hosts primarily on grapes and is therefore found mostly in grape vineyards. However, the pest has also been reported feeding on other common fruits such as mangoes, avocados, apples, and pomegranate. The VMB can be spread naturally by birds and wind. It can also be spread by assistance through field workers.

Olive fruit fly: The olive fruit fly is present primarily in the portions of Tulare County which support the growth of olive groves.

Asian citrus psyllid: The Asian citrus psyllid pest has not been identified in Tulare County as of June 2010. If the pest were discovered in Tulare County, a likely location where it would be found is at one of the six Tulare County citrus juice facilities. Cross-border trucks, such as those carrying oranges from the end of the Mexican citrus season, could carry the pest into the County.

European grapevine moth: No traces of the European grapevine moth have been found in Tulare County as of June 2010. However, the moths have been discovered in Fresno County where a quarantine was enforced in 2010. If not contained or eradicated, the moths could cross the county border and endanger grape vineyards, olive fruit, and rosemary in Tulare County.

**Extent:** The extent of agricultural infestations in Tulare County are based on many factors. Pests enter Tulare County on commercial shipments of plants, food, and other materials. They may also be transported on vehicles, fruits, plants, seeds, or animals when travelers enter the County. Since Tulare County is a major agricultural center for California and commercial shipments and transport of crops are critical to the agricultural production.

**Probability of Future Events:** Based on previous occurrences, future infestations are likely every five to 10 years. However, the extent and probability of a devastating event are unknown. Therefore, it is possible agriculture in Tulare County may be affected by insect pests and agriculture biological diseases within five years (a 1 in 5 years chance of occurring -  $1/5 = 20$  percent). History of events is greater than 10 percent but less than or equal to 20 percent likely per year.

### 4.3.3 Civil Disturbance

**Nature:** Civil disturbance, or civil disorder, is described as “any incident intended to disrupt community affairs and threaten public safety.” Civil disturbance is a result of civil unrest, when individuals or groups within the general population feel they are being discriminated against or that their rights are not being upheld. Triggers can include racial tension, immigration control, unpopular political decisions, loss of essential services or supplies, and bad weather. Crowds attending sporting events after the defeat or victory of their team can also be motivated to cause civil disturbances. Civil disturbance spans a variety of actions including strikes, demonstrations, riots, and rebellion.

Civil disturbance can be broken down into the following three categories:

- Peaceful, no-obstructive demonstrations
- Non-violent, disruptive demonstrations

- Violent, disruptive demonstrations

In general a low-severity disturbance, such as a strike, will not cause much concern and will involve little-to-no involvement from law enforcement. A moderately severe civil disturbance, such as a protest that disrupts nearby businesses and possibly causes some property damage, will require law enforcement intervention to restore order, but without employing chemical agents or physical force. A severe civil disturbance, such as rioting, arson, looting, and assault, will require aggressive police action (tear gas, curfews, and mass arrests).

**History:** In the 1930s and the 1970s, agricultural workers held a number of strikes. More recently, local immigrant advocacy groups organized demonstrations in Farmersville to protest immigration issues. However, extremely violent or highly disruptive demonstrations have not been recorded in Tulare County.

**Location:** Civil disturbances are likely to occur in Tulare County in three locations:

- Densely populated areas (such as the cities of Porterville, Tulare and Visalia)
- Farm land (located in both the valley and foothill portions of the County)
- Large government facilities or businesses (such as the County Civic Center and Government Plaza located in Visalia or the County's largest food processing factory located in the City of Dinuba)

**Extent:** Because of the wide variety of potential civil disturbances, the extent of such an event can range extensively. The impact could be as simple as a picket line outside of a company or damage caused by thrown objects, fires and looting.

**Probability of Future Events:** The lack of density in Tulare County does decrease the potential of an episode of civil disturbance. The types of "spill-over" violence and destruction associated with large cities are less likely to occur in a smaller city, due to the noncontiguous nature of suburban development patterns.

Based on previous occurrences, it is unlikely a civil disturbance will occur in Tulare County within the next ten years (a 1 in 10 years chance of occurring -  $1/10 = 10$  percent). History of events is less than or equal to 10 percent likely per year; a civil disturbance event is possible, but unlikely to occur.

#### **4.3.4 Earthquake**

**Nature:** 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 one-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 one-point increase on the Richter scale corresponds to about a 32-fold increase in energy released. Therefore, a moment magnitude (M) 7 earthquake is 100 times ( $10 \times 10$ ) more powerful than an M 5 earthquake and releases 1,024 times ( $32 \times 32$ ) 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 4-5.

**Table 4-5. Modified Mercalli Intensity Scale**

<b>MMI Value</b>	<b>Description of Shaking Severity</b>	<b>Summary Damage Description</b>	<b>Full Description</b>
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 motor cars 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.

Sources: ABAG 2003; USGS 2009e.

Masonry A: Good workmanship, mortar, and design; reinforced, especially laterally, and bound together by using steel, concrete, etc.; designed to resist lateral forces.

Masonry B: Good workmanship and mortar; reinforced, but not designed in detail to resist lateral forces.

Masonry C: Ordinary workmanship and mortar; no extreme weaknesses like failing to tie in at corners, but neither reinforced nor designed against horizontal forces.

Masonry D: Weak materials, such as adobe; poor mortar; low standards of workmanship; weak horizontally.

Earthquake faults are indications of past seismic activity. Those that have been active most recently are the most likely to be active in the future. According to the California Geological Survey Alquist-Priolo Earthquake Fault Zoning Act, an “active” fault is one that has ruptured in the last 11,000 years. Faults that are “potentially active” have been active within the last two million years and are referred to as being in the Quaternary Period.

**History:** Tulare County has not experienced any earthquakes equal to or greater than M 5.5 in recent years. However, several historical earthquakes greater than M 5.5 have occurred within close vicinity of the County. Table 4-6 indicates the date, magnitude, and location of historical earthquakes near Tulare County between 1950 and 2010. Shaking would have been felt by those in Tulare County, but not major or structural damage occurred. Figure C-2 (Appendix C, Hazard Figures) shows historical earthquakes with a magnitude of 4.0 or greater that have occurred in Tulare County and the surrounding region from 1871 to 2010.

**Table 4-6. Historical Earthquakes of M5.5 or Greater Near Tulare County, 1950–2010**

Date	Magnitude	Location
7/21/1952	5.5	Kern County
7/23/1952	5.7	Kern County
7/23/1952	5.8	Kern County
7/25/1952	5.8	Kern County
7/25/1952	6	Kern County
7/29/1952	6.3	Kern County
7/31/1952	5.5	Kern County
8/22/1952	5.8	Kern County
7/11/1992	5.7	Eastern Kern County
9/20/1995	5.6	Ridgecrest–China Lake

Source: CGS 2010b.

**Location:** While only one fault runs through Tulare County, the County is located within four principal fault zones with potential seismic activity. These faults are shown on the California Geological Survey’s Fault Activity Map of California, published in 2010. Descriptions of the principal faults are provided below. The locations of the active and potentially active faults are shown on Figure C-2 (Appendix C, Hazard Figures).

San Andreas fault: San Andreas is the longest and most significant fault in California. Because of considerable historic earthquake activity, this fault has been designated as active by the State of California. The large fault collectively accommodates the majority of relative north-south motion between the North American and Pacific plates. The San Andreas fault is a strike-slip fault that is 1,100 kilometers (approximately 684 miles) long and approximately 40 miles west of the Tulare County boundary. There is a 59 percent chance that an M 6.7 earthquake, or larger, will occur on this fault within the next 30 years.

Owens Valley fault zone: The Owens Valley fault zone is located on the eastern base of the Sierra Nevada and is a complex system containing both active and potentially active faults.

The zone is located within Tulare and Inyo counties and has historically been the source of seismic activity within Tulare County. The Owens Valley fault is the primary active fault within the zone and has a fault length of 107 kilometers (approximately 75 miles). The last major rupture was approximately M 8 and occurred in 1972.

*Kern Canyon fault:* The Kern Canyon fault runs along the length of Kern Canyon in the southern Sierra Nevada. A large portion of the fault runs through eastern Tulare County. Although the 150 kilometer (approximately 93 mile) -long fault has been considered inactive since the 1930s, recent investigations reveal that the fault has ruptured within the past few thousand years. This discovery, paired with an abundance of low-magnitude earthquakes along the fault, indicates that the fault is active. The Kern Canyon fault is shown as an active fault on the California Geological Survey's 2010 Fault Activity Map of California.

*Clovis fault:* The Clovis fault generally runs north to south, through Fresno County and through the City of Clovis. This fault is classified as a "potentially active" fault which was active within the last two million years. Although it is located in Fresno County, a strong earthquake on this fault could affect northern Tulare County. Activity along this fault could potentially generate more seismic activity in Tulare County than the San Andreas or Owens Valley faults. However, lack of historic activity along the fault makes it difficult to assess the maximum earthquake impacts).

**Extent:** 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) ( $g = 980$  centimeters (32.152 feet) 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 the relative hazard between sites when making economic and safety decisions.

In 2009, the U.S. Geological Survey (USGS) updated the 2002 National Seismic Hazard Maps displaying earthquake ground motions for various probability levels across the United States. The updated maps incorporate new findings on earthquake ground shaking, faults, and seismicity and are currently applied in seismic provisions of building codes, insurance rate structures, risk assessments, and other public policy. PGA data from these maps have been used to determine the areas within Tulare County that are at risk for earthquake hazards. Figure C-3 (Appendix C, Hazard Figures) shows the PGA values in Tulare County for the 2 percent probability of exceedance in 50 years. Moderate-earthquake hazard areas are defined as ground accelerations of 0.65g, 0.75g, and 0.85g, and high-earthquake hazard areas are defined as ground accelerations of 0.95g and 1.05g.

Tulare County falls within the low to moderate ranges of the scale. Regions at the upper end of the scale are often near major active faults. These regions will, on average, experience stronger earthquake shaking more frequently, with intense shaking that can damage even strong, modern buildings. Thus, based on historical activity and the PGA values shown on Figure C-3 (Appendix C, Hazard Figures), all areas in Tulare County are likely to experience low to moderate shaking from earthquakes, and may experience higher levels if an earthquake were to occur in or near the County.



**Probability of Future Events:** Ongoing field and laboratory studies suggest the following maximum, likely magnitudes and recurrence intervals for the major local Tulare faults:

- San Andreas fault: M 6.8-8.0, recurrence interval varies from under 20 years to over 300 years
- Owens Valley fault zone: M 6.5-8.2, recurrence interval likely between 2,000 to 3,000 years
- Kern Canyon fault: M 6.0-7.0, recurrence interval unknown
- Clovis fault: Magnitude and recurrence interval unknown

#### **4.3.5 Energy Emergency**

**Nature:** An energy emergency occurs because of an actual or potential shortage of any type of energy resource, including electricity, gasoline and other liquid fuels, and natural gas. When energy resources become scarce or expensive, and the lack of energy resources disrupts the course of day-to-day business and the lives of the citizens of the County, the situation results in an energy emergency. Specific to energy emergencies involving electricity power outages, the vulnerable populations include the elderly and persons who may be dependent on certain types of medical devices. Energy emergencies may occur fairly suddenly during inclement weather when severe storms disrupt the production or distribution of energy. Energy emergencies may also develop over the long-term, such as the California Energy Emergency of 2001, which was caused by a complex series of factors and was triggered by the deregulation of the electric utility industry in California.

**History:** Most of California, including Tulare County, experienced power outages and rolling blackouts in 2000 to 2001.

**Location:** Because energy supplies tend to be generated and distributed in regional networks, the entire County will likely be affected by an energy emergency.

**Extent:** A future energy emergency would likely extend to all of Tulare County; the duration of any future events will be based on the cause and type of energy emergency.

**Probability of Future Events:** Therefore it is unlikely an energy emergency will occur which will affect Tulare County within ten years (a 1 in 10 years chance of occurring having a  $1/10 = 10$  percent). History of events is less than or equal to 10 percent likely per year.

#### **4.3.6 Flood**

##### ***Riverine, Shallow, and Localized***

**Nature:** 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.

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. River channels change as water moves downstream, acting on the channel banks and on the channel bottom. On the outside of a channel curve, the banks are subject to erosion as the water scours against them. On the inside of a channel curve, the banks receive deposits of sand and

sediment transferred from the eroded sites. In areas where flow contains a high-sediment load, the course of a river or stream may shift dramatically during a single flood event.

There are three major types of flooding within Tulare County: riverine flooding (also known as overbank flooding), shallow flooding, and localized drainage flooding.

- Riverine flooding occurs when downstream channels receive more rain or snowmelt from their watershed than normal, or a channel is blocked by an ice jam or debris. Excess water overloads the channels and flows out onto the floodplain. When flooding occurs in steep, mountainous areas, it is usually confined, strikes with less warning time, and has a short duration. In comparison, larger rivers typically have longer, more-predictable flooding sequences and broad floodplains. Riverine floodplains range from narrow, confined channels in the steep valleys of mountainous and hilly regions to wide, flat areas in plains and coastal regions. The amount of water in the floodplain is a function of the size and topography of the contributing watershed, the regional and local climate, and land use characteristics.
- Shallow flooding occurs in the valley of Tulare County. Shallow flooding may consist of sheet flow or ponding and generally occurs in flat areas where a lack of channels prevents water from draining away easily. Sheet flow occurs where there are inadequate or no defined channels. Floodwaters spread over a large area at a uniform depth after an intense or prolonged rainfall during which rain cannot soak into the ground. Ponding occurs in some flat areas when runoff collects in depressions and cannot drain out. The floodwaters remaining temporary pond until they infiltrate into the soil, evaporate, or are pumped out.
- Localized flooding in Tulare County is generally associated with irrigation ditches and canals in the valley, which may contribute to flooding because of levee overtopping or failure. Major canal systems and numerous ditches follow the line of the foothills and cut across the natural drainage pattern. When flood flows overtop the banks of the channels in reaches of inadequate capacity, they may pond against the embankments of the canals (such as roads and railroads), or flow along the embankment until they reach a crossing. Floodwaters may also back up behind obstacles until they overtop a canal bank, then flow down the canal to increase flooding downstream.

**History:** Tulare County has had a long history of flooding; damaging floods in Tulare County have been reported as early as 1840. Major flood protection facilities were completed on the Kaweah and Tule rivers, and since their completion the most-severe flooding events, as described below, occurred in 1966 and 1969.

- The 1966 flood on the Tule River was a 120-year event. Despite the presence of Success Dam and Reservoir, which has been operated by the U.S. Army Corps of Engineers (USACE) since 1961, significant damage still occurred. According to the 1971 Tulare County Flood Control Master Plan, the December 1966 rains were so intense over the watershed of the Tule River that they produced uncontrolled spill at Success Dam. In addition, snowfall was so great that the resulting runoff could not be controlled completely. Water poured into Tulare Lake and flooded agricultural land. Primary damage from the 1966 flood was estimated at \$21.4 million.
- The January 1969 flood caused flooding along Sand Creek, Cottonwood Creek, Yokohl Creek, Lewis Creek, Frazier Creek, Deer Creek, White River, and in the southwest corner of the County. Terminus Dam, which has been operated by the USACE since 1962, helped

reduce the potential flood hazards on Kaweah River and its distributaries. However, flood damage could not be completely avoided. Most of the flooding occurred in agricultural areas in the valley. Some urban damage occurred in Cutler, Earlimart, East Orisi, Orisi, Strathmore, Dinuba, Exeter, and Lindsay. The flood caused over \$86.2 million (1969 dollars) in damage and approximately 100,000 acres in Tulare County were flooded.

Over the last two decades, Tulare County has experienced a number of severe floods. During 1997 to 1998, the mountainous areas of Tulare County sustained flooding as heavy rains swelled creeks over their banks. Heavy rains contributed to high runoff and flooding throughout Kings Canyon and Sequoia National Park. Numerous roads, bridges, and trails were damaged. Flooding from the Tule and White rivers caused extensive agricultural damage in the San Joaquin Valley. The communities of Three Rivers, Springville, Lindsay, and Earlimart also experienced significant flooding. Lake Success above Porterville and Kaweah Lake were both filled in about 24 hours. Total damages were estimated at more than \$1 million in Tulare County.

In 2006, the State of California issued three State Proclamations for severe rainstorms between late December 2005 and April 2006. The series of storms brought unusually heavy rains that caused flooding, mudslides, debris accumulation, damaged roads, and loss of human life in 40 California counties, including Tulare County.

Most recently Tulare County experienced severe rainstorms between December 2010 and January 2011. This episode led to a Presidential Disaster Declaration for the State of California, including the County of Tulare and nine other counties. For Tulare County the constant rainfall caused major flooding and millions of dollars in damage to agriculture crops, infrastructure, roads and homes. Primary estimates from the County noted more than 60 miles of road damage, 33 homes and two commercial properties received flood damage and six residents from two homes were displaced from their homes due to the flooding.

**Location:** Watercourses in Tulare County originate in the Sierra Nevada and foothills and flow in a westerly or southwesterly direction across the valley floor. Tulare County has two primary stream systems which drain the mountainous portions: the Kaweah River and Tule River. When the two rivers reach the valley floor, they form distributary systems. The Kaweah River distributary system contributes primarily to flooding in the cities of Tulare, Visalia, Woodlake, Farmersville, and unincorporated areas of the County. The Tule River flows in a westerly direction and eventually reaches Success Reservoir. It has three main forks: the North, Middle, and South Forks. The North Fork and Middle Fork join together just above the town of Springville. The South Fork joins the other two forks at Success Reservoir. The Tule River then flows to Porterville. In general, all major and minor streams within the County are dissipated by irrigation diversions, channel percolation, or evapo-transpiration. During flood events, streamflows from major streams may reach the Tulare lake bed, a former lake encompassing most of the Southern San Joaquin Valley that disappeared by the early twentieth century due to draining and land reclamation.

Other major rivers in Tulare County include the Kings River and the Kern River. The Kern River system drains the eastern one-third of Tulare County and flows in a southerly direction toward east of the city of Bakersfield. It then discharges onto the floor of the San Joaquin Valley, into Buena Vista Lake and Tulare Lake. Almost all lands within Tulare County which are drained by the Kern River system are located within Sequoia National Forest.

The Kings River drains the northeastern portion of the County. The Kings River flows onto the valley floor in a southerly direction and enters Tulare County just west of Dinuba. Waters from the Kings River eventually end up in Tulare Lake or the San Joaquin River.

Throughout the valley portion of Tulare County, several irrigation companies operate a large network of irrigation ditches and canals. These irrigation ditches and canals may contribute to localized flooding because of levee overtopping or failure. Due to the flatness of the valley, the canal levees and highway and railroad embankments collect and divert floodwater and can cause local areas of ponding.

The largest canal, the Friant-Kern Canal, is a major conveyance facility of the Central Valley Project, a U.S. Bureau of Reclamation federal water project in California which was devised to provide irrigation and municipal water to California's Central Valley. The Friant-Kern Canal runs from the north portion of the County to the south along the base of the foothills. During recent historical flood events, the canal has not experienced overtopping or failure.

In addition to localized flooding of irrigation ditches and canals, other flooding in the valley of Tulare County occurs as sheet flow and ponding in flat areas where there are inadequate or undefined channels.

**Extent:** 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, as well as the 500-year flood (0.2 percent probability of occurrence in any given year), is the system of Flood Insurance Rate Maps (FIRMs) prepared by FEMA. These maps are used to support the NFIP.

FEMA has prepared a digital FIRM (DFIRM), effective June 16, 2009, for the incorporated and unincorporated areas of Tulare County. Table 4-7 lists the date of the initially mapped FIRM and the emergency/regular program entrance date into the NFIP. FEMA has not prepared flood hazard data for federal lands in Tulare County, which include the Sequoia National Park. Figure C-4 (Appendix C, Hazard Figures) shows the 100-year floodplain and 500-year floodplain for Tulare County.

**Table 4-7. Date of Initially Mapped FIRM and Emergency/Regular Program Entrance Date into NFIP for Tulare County and Cities**

County/Community Name	Date of Initially Mapped FIRM	Emergency/Regular Program Entrance Date into NFIP	Number of Policies in Force (as of June 30, 2010)
City of Dinuba	11/3/1982	11/3/1982	592
City of Exeter	6/16/2009	8/24/1981	3
City of Farmersville	12/15/1983	12/15/1983	383
City of Lindsay	9/28/1984	9/28/1984	423
City of Porterville	7/18/1983	7/18/1983	364
City of Tulare	7/5/1983	7/5/1983	17
City of Visalia	7/5/1984	7/5/1984	5457
City of Woodlake	6/1/1983	6/1/1983	121
Tulare County	9/29/1986	9/29/1986	2342

Sources: FEMA 2010a; FEMA 2010b.

FIRM Flood Insurance Rate Maps  
 NFIP National Flood Insurance Program

Flooding in the valley is primarily characterized as shallow flooding with depths less than 3 feet in the floodplains. Velocities are low, and flooding generally results in deposition of large amounts of sand, silt, and debris over the flooded areas. Shallow flooding from local runoff is caused by high-intensity localized rainfall, such as the 5.55 inches of precipitation that occurred over a 5-day period in December 1966.

**Probability of Future Events:** In low-lying areas of Tulare 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. Although the climate throughout Tulare County can vary considerably because of differences in elevation, it is generally hot and dry with low humidity during the summer and very mild with infrequent snowfall at low elevations during the winter. Over 75 percent of the annual precipitation occurs between November and April. Average annual precipitation varies widely, from 8 inches in the southwest corner of the County to 45 inches at the headwaters of the Kaweah and Tule rivers. Flood season extends from November through June, with general rain floods usually occurring between November and April, and snowmelt floods occurring from April to June. Based on previous occurrences, severe flooding is most likely to occur during strong El Niño years (every 5 to 7 years). Therefore, it is possible a flood will occur which will affect Tulare County and several of its jurisdictions within five years (a 1 in 5 years chance of occurring having a  $1/5 = 20$  percent). History of events is greater than 20 percent likely per year.

***Dam Failure***

**Nature:** A dam failure is the structural collapse of a dam that releases the water stored in the reservoir behind the dam. 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.

**History:** There is no record of dam failure within in Tulare County.

**Location:** Nine dams are present in Tulare County. Of the nine dams, seven are under the jurisdiction of the State of California and two are owned and operated by federal agencies. Table 4-8 lists the name, owner, stream, year built, capacity, height, type, and jurisdiction of each dam. Of the seven dams under the jurisdiction of the State of California, three are gravity dams and four are earthen dams. The size and capacity of these dams are generally much smaller than those owned and operated by federal agencies. The two dams with the largest capacities in Tulare County are Success Dam and Terminus Dam, both which are owned by the USACE.

**Table 4-8. Dams in Tulare County**

Name of Dam	Owner	Stream	Year Built	Capacity (acre-feet)	Height (feet)	Type	Jurisdiction
Bravo Lake Reservoir	Wutchumna Water Company	Wutchumna Ditch	1980	3,427	24	Earth	State
Crystal Lake	Southern California Edison Company	East Fork of Kaweah River	1903	162	16	Gravity	State
Elk Bayou	Kaweah Delta Water Conservation District	Elk Bayou	1903	60	16	Earth	State
Lady Franklin Lake	Southern California Edison Company	East Fork of Kaweah River	1905	467	21	Gravity	State
Larson	South Tule Independent Ditch Company	South Tributary of Tule River	1963	325	54	Earth	State
Sand Creek	Tulare County Resources Management Agency	Sand Creek	1980	1,050	60	Earth	State
Upper Monarch Lake	Southern California Edison Company	East Fork of Kaweah River	1905	314	22	Gravity	State
Success	USACE	Tule River	1961	82,300	156	Earth	Federal
Terminus	USACE	Kaweah River	1962	143,000	255	Earth	Federal

Source: California Division of Safety of Dams 2010.

USACE = U.S. Army Corps of Engineers

A dam that is 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. In California, these dams are under the jurisdiction of the California Division of Safety of Dams.

In addition to these nine dams, there are two dams that are not within the County but can affect flooding in portions of Tulare County: Pine Flat Dam and Isabella Dam. Pine Flat Dam on Kings River is located in Fresno County, which is north of and adjacent to Tulare County. Pine Flat Dam was completed in 1954 and is operated by USACE. The dam has a gross capacity of approximately 1 million acre-feet, and affects peak discharges for Kings River and Alta East Branch Canal, which receives flood flows from Kings River.

**Extent:** Figure C-5 (Appendix C, Hazard Figures) shows that two major dams in Tulare County, Terminus Dam (on Lake Kaweah) and Success Dam (on Lake Success), can cause substantial flooding in the event of a failure.

- Terminus Dam regulates discharges on Kaweah River, St. Johns River, Deep Creek, Mill Creek, and Packwood Creek, as well as the smaller elements through the Kaweah River tributary network. The dam has been operated for flood control by the USACE since 1962 and forms Lake Kaweah, which has a gross pool of 150,000 acre-feet. Lake Kaweah is approximately 30 miles east of Visalia and 20 miles west of the entrance to Sequoia National Park. If the Terminus Dam were to fail, the dam inundation area will extend to portions of the Woodlake area, Farmersville, Visalia, Ivanhoe, and Goshen.
- Success Dam, which has been owned and operated by USACE since 1961, affects the hydrology of the Lower Tule River, Porter Slough, and other small canals in the Tule River tributary network. Success Dam reservoir has a gross storage of 85,400 acre-feet. If Success Dam were to fail, the dam inundation areas will include the city of Porterville and approximately 200,000 acres of land downstream of the dam.

**Probability of Future Events:** Dam failure can result from numerous natural or human activities. Earthquakes, internal erosion, improper siting, structural and design flaws, or rising floodwaters can all result in the collapse or failure of a dam. A dam failure may also be a result of the age of the structure or inadequate spillway capacity. As such, the probability of a future dam failure affecting Tulare County is unknown. Therefore, it is considered possible but unlikely that a dam failure event will occur within the next ten years (a 1 in 10 years chance of occurring –  $1/10 = 10$  percent). Event history is less than or equal to 10 percent likely per year.

### ***Levee Failure***

**Nature:** 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. Urban levee systems, because they are designated to protect urban areas, 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 levee-impacted 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; however, 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 will weaken, resulting in a breach or collapse of the levee wall and uncontrollable amounts of water will be released.

**History:** The last major levee failure in Tulare County was in the winter of 1998-1999. Levee failure on the White River caused Highway 99 to be shut down at the community of Earlimart.

However, 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. This process revealed that a number of levees nationwide have not been assessed since their original inclusion in the NFIP and may no longer be in compliance with FEMA regulations. Should a levee be non-compliant, 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.

**Location:** Levees are an interesting anomaly in Tulare County; they are not limited to just tributary waterways but also distributary waterways present in the alluvial fan geography. Property rights for levees reside almost exclusively in private ownership, with waterway easements being equally limited. There is not a complete inventory list of all levees on the watercourses throughout Tulare County. However, the following levees and their locations are confirmed.

The Friant-Kern canal flows north to south through Tulare County on the eastern side of the valley. Levees located on the Friant-Kern canal were developed to USACE design criteria, but it is unknown if the levees remain in compliance with USACE standards.

The St. Johns River begins at the diversion dam in the Kaweah River and flows in a westerly direction along the north side of the city of Visalia; the system is over 14 miles long. The levees on the St. Johns River were at one point maintained by Levee Maintenance Districts I and II. However, District I ceased maintenance in 1997 and District II has been inactive for over two decades.

Both Deer Creek and the White River run east to west in the southern portion of Tulare County. The Deer Creek levees begin west of Highway 43 and extend at least to Highway 99, approximately 10 miles. The White River levees begin in the westerly distribution system constructed during the 1930s and 1940s between Highway 43 and Road 128 which is composed primarily of excavated canals with levees. The levee system continues easterly to Road 208 about 16 miles.

Sand Creek holds the only levees to which Tulare County has property rights. Sand Creek is in northwest Tulare County from Avenue 432 to Avenue 384 and stretches 8.5 miles.

**Extent:** Currently, there is not a database that completely accounts for all levees and their condition for Tulare County. Without the location and design/condition of each levee, the extent of levee failures for Tulare County cannot be determined.

**Probability of Future Events:** Due to the lack of knowledge regarding the levee system in Tulare County, the probability of future levee failures in Tulare County is unknown. However, levee failure may result from a large winter storm or seismic event. Therefore, due to past levee failure history, it is considered possible but unlikely that a levee failure event will occur within the next ten years (a 1 in 10 years chance of occurring –  $1/10 = 10$  percent). Event history is less than or equal to 10 percent likely per year.



**4.3.7 Fog**

**Nature:** Fog is defined by the National Weather Service (NWS) as “water droplets suspended in the air at the Earth’s surface.” Fog is often hazardous when the visibility is reduced to ¼ mile or less.

Fog can be considered as a cloud that forms at ground level. Similar to clouds, fog is made up of condensed water droplets which are formed as the result of air being cooled to the dew point. The dew point is the temperature to which air must be cooled in order for water vapor in the air to condense to liquid water.

In California’s Central Valley, a type of fog known as Tule fog is common. Tule fog is defined by the NWS as “... radiation fog in the Central Valley of California. It forms during night and morning hours in late fall and early winter months following the first significant rainfall.” Thus, Tule fog tends to form at night during California’s rainy season, roughly between November 1 and March 31. The fog is formed when cold air from the Sierra Nevada flows into the Central Valley at night and is unable to escape the valley due to the coastal ranges to the west. Higher pressure air from above the mountaintops presses down on the colder, denser air, resulting in the fog.

The NWS also notes that Tule fog is a leading cause of weather-related casualties in California. The fog can last for days or weeks, and is dispersed by turbulent air. Visibility under Tule fog can be reduced to zero. Tule fog may also cause a light drizzle; in cold months this drizzle might freeze, causing conditions to become even more dangerous on roadways.

**History:** A number of fog-related accidents have occurred in Tulare County due to the reduction in visibility and slowing of traffic during fog. According to data from the California Highway Patrol, 180 fog-related collisions occurred on Highway 99 in Tulare County between 1997 and 2008, resulting in 4 casualties and 129 persons injured.

One of the worst fog-related accidents occurred on November 14, 1998, when a number of vehicles were traveling too fast under poor visibility conditions on Highway 99, approximately two miles southeast of Kingsburg in Tulare County. A series of chain-reaction accidents involved 74 vehicles, including 19 tractor-trailer rigs. Over 132 people were involved in the accident, and there were two fatalities and 51 injuries.

More recently, on December 10, 2008, another fog-related accident occurred on Highway 99. Thick fog caused 60 vehicles to collide in a string of accidents near Visalia. The California Highway Patrol indicated that there were more than four separate accidents, involving 56 cars and 4 big rigs. However, no serious injuries occurred. Traffic was diverted for nearly two hours after parts of Highway 99 were closed.

Other large vehicle accidents due to heavy fog have occurred in the vicinity of Tulare County. On November 3, 2007, heavy fog caused a massive pile-up that included over ten passenger vehicles and nine big rig trucks on Highway 99 between Fowler and Fresno, which is north of Tulare County. There were 2 fatalities and 39 injuries resulted from the crash.

**Location:** Tule fog is known to occur regularly in the western portion of Tulare County; this includes all cities in the County as well as the special district of the County Office of Education. The areas most susceptible in Tulare County are the low elevation areas, specifically areas that are at 200 meters (656 feet) of elevation, or lower, since tule fog only occurs in the Central

Valley. Figure C-6 (Appendix C, Hazard Figures) shows the portions of Tulare County and the surrounding regions that are susceptible to fog.

**Extent:** The visibility in Tule fog is often less than 1/8 of a mile (600 feet), but can be less than 10 feet. It can vary rapidly in any area, with visibility reducing to zero in only a few feet. Tule fog may also cause a light drizzle, which can freeze in cold months.

**Probability of Future Events:** Tule fog is a continual occurrence in Tulare County and is not expected to cease. As noted above, Tulare County, Tule fog tends to form at night during the rainy season, roughly between November 1 and March 31. Therefore, it is highly likely a severe weather fog event will occur within Tulare County within the calendar year (a 1 in 1 years chance of occurring -  $1/1 = 100$  percent). History of events is greater than 50 percent likely per year.

#### **4.3.8 Hazardous Materials**

Hazardous materials are substances that may have negative effects on health or the environment. Exposure to hazardous materials may cause injury, illness, or death. Effects may be felt over seconds, minutes, or hours (short-term effects) or not emerge until days, weeks, or even years after exposure (long-term effects). Also, some substances are harmful after a single exposure of short duration, but others require long episodes of exposure or repeated exposure over time to cause harm.

The toxicity of a specific substance is one important factor in determining the risk it poses, but other factors can be just as important, if not more so. Factors affecting the severity of an accidental release include:

- Toxicity
- Quantity
- Dispersal characteristics
- Location of release in relation to population and sensitive environmental areas
- Efficacy of response and recovery actions

Hazardous materials can be found almost everywhere in our society. Paints, solvents, adhesives, gasoline, household cleaners, batteries, pesticides and herbicides, and even medicines are all potential sources of hazardous materials. This plan does not focus on the hazards contained in everyday products, but rather on the hazards associated with potential releases of hazardous substances from transportation corridors (mobile incident) and fixed facilities (fixed incident) within the County.

Hazardous materials are generally classified by their primary health effects on humans. Some common types include the following:

- Anesthetics and narcotics are substances that depress the central nervous system.
- Asphyxiants are substances that interfere with normal breathing and can cause suffocation.
- Explosives are substances that pose a risk of exploding; fires and chemical effects may also be a danger.

- Flammable materials are substances that catch fire easily, though they may also pose other dangers, such as explosion or chemical effects.
- Irritants cause burns or irritation to body tissues such as eyes, nose, throat, lungs, or skin.

**Mobile Incident**

**Nature:** Mobile incidents include those that occur on a roadway or a railroad. Mobile incident-related releases are dangerous because they can occur anywhere, including close to human populations, assets and utilities, or environmentally sensitive areas. Mobile incident-related releases can also be more difficult to mitigate because of the great area over which any given incident might occur and the potential distance of the incident site from response resources.

**History:** The National Response Center’s (NRC’s) Internet-based query system of non-Privacy Act data shows that since 1990, ten mobile incidents have been reported; causes include equipment failure, operator error, and transportation accident; also, some of the causes are unknown. These incidents are listed in Table 4-9.

**Table 4-9. Recent Hazardous Material Mobile Incidents in Tulare County**

Year	Location	Incident Cause	Material
1990	1066 E. Rankin Avenue, City of Tulare	Unknown	Sulfuric acid
1995	Riggin Avenue east of Demaree Road	Unknown	Not available
1995	Not available	Equipment failure	Not available
1998	13575 Avenue 450	Operator error	Chlorpyrifos–“Lorsban”
2000	Near Interstate 5 and West Street	Other	Motor oil
2000	501 South Alta Avenue	Operator error	Soybean oil
2001	On Ventura in the area south of Kern Drive	Unknown	Ammonia
2001	501 South Alta Avenue	Equipment failure	Vegetable oil
2006	8461 Avenue 304	Transport accident	Motor oil
2006	5593 Avenue 176	Transport accident	Ethylene glycol, motor oil

Source: National Response Center 2010.

Additionally, during the same reporting period, nine railroad incidents were reported. The causes of these releases include equipment failure, and transportation accident/derailment. In six of the cases, diesel or other oil was spilled. Other materials released include liquid fertilizer, alcohol, and carburetor cleaner.

**Location:** In Tulare County, a mobile hazardous material event is most likely to occur along Highways 43, 63, 65, 99, 198, and railroad tracks (see Figure C-7 [Appendix C, Hazard Figures]). Trucks and rail cars that use these transportation corridors commonly carry a variety of hazardous materials, including gasoline, other petroleum products, and other chemicals known to cause human health problems, including fertilizers, pesticides, and industrial chemicals. Cities that are bisected by both major highways and railroad tracks include the city of Exeter, Lindsay, Tulare and Visalia. However, the entire County is vulnerable to a hazardous material event.

**Extent:** Comprehensive information on the probability and magnitude of a hazardous material event along transportation corridors is not available. Wide variations among the characteristics of hazardous material sources and among the materials themselves make such an evaluation difficult. As such, the extent of a hazardous material mobile incident is unknown.

**Probability of Future Events:** Based on previous occurrences, it is likely a minor hazardous materials event due to a vehicular accident will occur every 1 to 5 years (a  $1/5=20$  percent chance of occurring) and every 1 to 3 years (a  $1/3=33$  percent chance of occurring) due to a rail accident in Tulare County. History of events is greater than 20 percent but less than or equal to 33 percent likely per year.

#### ***Fixed Incident***

**Nature:** The release of hazardous substances from stationary sources can be caused by human error, equipment failure, intentional dumping, acts of terrorism, or natural phenomena. Earthquakes pose a particular risk, because they can damage or destroy facilities containing hazardous substances. The threat posed by a hazardous-material event can be amplified by restricted access, reduced fire suppression and spill containment capability, and even complete cutoff of response personnel and equipment.

The EPA's Risk Management Program sets thresholds for regulated substances and regulates facilities that have quantities greater than the threshold. The regulated substances that are listed in the Risk Management Program include 77 toxic chemicals and 63 flammable substances. This program requires a facility to develop the following: a Hazard Assessment, Prevention Elements, a Management System, and an Emergency Response Program.

In addition, California replaced the Risk Management Program with the California Accidental Release Prevention (CalARP) Program on January 1, 1997. The CalARP Program is very similar to the EPA's Risk Management Program with the following differences:

- The list of toxic chemicals is larger, 276 versus 77.
- The threshold quantities of the chemicals are smaller (e.g., the federal threshold quantity for chlorine is 2,500 pounds, whereas the California threshold quantity for chlorine is 100 pounds).
- An external events analysis is required, including a seismic analysis.
- There is more interaction with the public and agencies, including the requirement to develop a risk management plan.

**History:** According to the NRC, there have been 76 reported fixed incidents in Tulare County since 1991. These events were caused by dumping, equipment failure, operator error, and other or unknown causes. The most-common material involved in these incidents is ammonia (34 incidents), followed by oil (17 releases). The largest reported release was 100 to 150 gallons, although many incident reports did not include the amount or volume of material released.

**Location:** Figure C-8 (Appendix C, Hazard Figures) shows the 99 facilities that are included in the CalARP Program. These facilities are scattered throughout the western portion of the County, therefore all participating jurisdictions, with the exception of the Tule River Tribe, are susceptible to the release of a hazardous substance. These facilities include food processing facilities, warehouses, cold storage, and water treatment plants, to name a few.

Additional facilities that may cause hazardous materials releases are regulated under the local Certified Unified Program Agency (CUPA). There are currently 12,131 CUPA facilities in the County. Of these CUPA facilities, 480 are classified as extreme-hazard substance sites. Common substances at the extreme-hazard substance sites are ammonia, ethylene, hydrogen peroxide and peroxyacetic mixtures, paraquat dichloride, and sulfur dioxide.

**Extent:** Comprehensive information on magnitude of a hazardous material event at fixed locations is not available. The extent of a release is based on factors such as equipment maintenance, operator training, The potential of natural phenomena to disrupt handling and storage of the materials and potential weather distribution patterns. As such, the extent of a hazardous material fixed incident is unknown.

**Probability of Future Events:** Comprehensive information on probability of a hazardous material event at fixed locations is not available. Similar to extent, the probability of a release is based on factors such as equipment maintenance, operator training, and the potential of natural phenomena to disrupt handling and storage of the materials. However, based on previous occurrences, Tulare County can expect a minor hazardous material event 2 to 7 times a year as a result of equipment failure, operator error, dumping, or other causes. Based on previous event history, it is likely a fixed incident will occur within Tulare County from a minor hazardous material event within 2 to 7 years (a 1/3=33 percent chance of occurring) due to a various factors indicated above. History of events is greater than 20 percent but less than or equal to 33 percent likely per year.

#### **4.3.9 Heat**

**Nature:** According to the NWS, extreme heat occurs when the temperature reaches high levels or when the combination of heat and humidity causes the air to become oppressive and stifling. Generally, extreme heat is considered to be 10 degrees F above the County's mean temperature over an extended period of time. However, extreme heat can manifest itself in several ways:

- During a period of time of sweltering humidity, which reaches levels commonly associated with moist tropical regions; stress on the body can be exacerbated when atmospheric conditions cause pollutants to be trapped near the ground.
- In an excessively dry condition, strong winds and blowing dust can worsen the situation.
- When there is a rise in the heat index; the body's perception of the "apparent" temperature is based on both the air's real temperature and the amount of moisture present in the air. Humidity and mugginess make the temperature seem higher than it is. In high humidity, an 85 degree F day may be perceived as having reached 95 degrees F.

During heat or extreme heat, local NWS offices can issue heat-related messages as conditions warrant, including:

- **Excessive Heat Outlook:** when the potential exists for an excessive-heat event in the next three to seven days. The NWS will provide an indication of areas where people and animals may need to take precautions against the heat. It is based on a combination of temperature and humidity over a certain number of days. An outlook is used to indicate that a heat event may develop. It is intended to provide information to those who need considerable lead time to prepare for the event, such as public utilities, emergency management personnel, and public health officials.

- **Excessive Heat Watch:** when conditions are favorable for an excessive heat event in the next 12 to 48 hours. The term “watch” is used when the risk of a heat wave has increased, but its occurrence and timing are still uncertain. It is intended to provide enough lead time so those who need to set their plans in motion can do so, such as cities that have excessive-heat event mitigation plans. Also, a watch notice is issued when heat indices in excess of 105 degrees F during the day, combined with nighttime low temperatures of 80 degrees F, or higher, are forecast to occur for two consecutive days.
- **Excessive Heat Warning/Advisory:** when an excessive heat event is expected in the next 36 hours. These warnings are issued when an excessive heat event is occurring, is imminent, or has a very high probability of occurrence. The warning is issued when these conditions are present: a heat index of at least 105 degrees F for more than three hours per day for two consecutive days, or a heat index of more than 115 degrees F for any period of time. The warning is used for conditions posing a threat to life or property. An advisory is for less-serious conditions, but still cause significant discomfort or inconvenience and, if caution is not taken, could lead to a threat to life and/or property.

**History:** According to the NWS, there are no weather monitoring stations with detailed records located in Tulare County; the nearest monitoring station with detailed records is located in the City of Fresno. This area experiences similar climatologic patterns as Tulare County, and could be considered as a proxy for the weather experienced in Tulare County. The highest recorded temperature in the City of Fresno is 115 degrees F, recorded in 1905. Also, Table 4-10 shows the recent record high temperatures recorded in the city of Fresno.

**Table 4-10. High Temperatures in the City of Fresno since 2000**

Month and Year	Temperature (degrees Fahrenheit)
July 2006	113
July 2008, and July 2009	112
July 2007	111
June 2008 and July 2010	110
June 2009 and June 2010	108
June, 2006, July 2010 and June 2011	107

Source: National Weather Service 2010b.

**Location:** When an excessive heat event occurs, it likely affects the low elevations in the western portion of the County, affecting all cities and the unincorporated areas of the County. Once higher elevations are reached, such as the area of the Tule River Tribe, in the Sierra Nevada, extremely high heat levels are less likely.

**Extent:** The hottest months are July and August; these months average 31 and 29 days per month, respectively, with temperatures equal to or greater than 90 degrees F.

**Probability of Future Events:** Based on historical occurrences in neighboring Fresno, Tulare County can expect to experience temperatures equal to or greater than 90 degrees F about 115

days every year, generally between April and September. The County can also expect temperatures to exceed 100 degrees F every summer. It is highly likely that high heat events will occur within a calendar year affecting Tulare County (1/1=100 percent chance of occurring). Event history is 100 percent likely per year.

#### **4.3.10 Landslide/Mudslide**

**Nature:** 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 may result from a wide range of combinations of natural rock, soil, or artificial fill. The susceptibility of hillside and mountainous areas to landslides depends on variations in geology, topography, vegetation, and weather. Landslides may also occur because of indiscriminate development of sloping ground or the creation of cut-and-fill slopes in areas of unstable or inadequately stable geologic conditions.

Additionally, landslides often occur together with other natural hazards, thereby exacerbating conditions, as described below:

- Shaking due to earthquakes can trigger events ranging from rock falls and topples to massive slides.
- Intense or prolonged precipitation that causes flooding can also saturate slopes and cause failures leading to landslides.
- Wildfires can remove vegetation from hillsides, significantly increasing runoff and landslide potential.
- Landslides into a reservoir can indirectly compromise dam safety; a landslide can even affect the dam itself.

Mudslides are another type of soil failure, and are defined as flows or rivers of liquid mud down a hillside. They occur when water accumulates under the ground, usually following long and heavy rainfalls. If there is no brush, tree, or ground cover to hold the soil, mud will form and flow down the slope.

**History:** No major landslides or mudslides have been recorded in Tulare County.

**Location:** In Tulare County, areas that are more prone to landslide/mudslide include the foothill and mountain areas where fractured and steep slopes are present (as in the Sierra Nevada), where less-consolidated or weathered soils overlie bedrock, or where inadequate ground cover accelerates erosion. Erosion and slumping of soils can also occur along bluffs along the Kaweah, Kern and Tule rivers. Therefore, the unincorporated areas of Tulare County and the Tule River Tribe are susceptible to landslide/mudslides.

**Extent:** Landslides in the foothill and mountain areas of Tulare County, such as in the steep slopes of the Sierra Nevada, are typically deep-seated landslides which are hundreds to thousands of feet in length or width and only move fractions of an inch per year. However, during heavy rainfall or seismic events, a landslide or mudslide can move several yards a minute or faster. In these areas, rocks have been weakened through faulting and fracturing, uplift, and saturated soils due to heavy or prolonged rainfall.

**Probability of Future Events:** Due to the possibility of earthquakes in the region and the presence of steep slopes in the foothill and mountain areas, landslides/mudslides can be expected to occur during or shortly after strong El Niño years (every five to seven years) or during a large earthquake event. It is possible a landslide event will occur within Tulare County within 2 to 7 years (a  $1/5=20$  percent chance of occurring). Probability is greater than 10 percent but less than or equal to 20 percent likely per year.

#### **4.3.11 Post-Fire Debris Flow**

**Nature:** Post-fire debris flows are defined as fast-moving, highly destructive flows of rain, water, rock, and soil within the burned area and downstream. They are most common in the two years after a fire and are usually triggered by heavy rainfall.

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.

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.

**History:** There are no recorded occurrences of post-fire debris flows in Tulare County. However, in recent years, neighboring counties have experienced significant post-fire debris flows.



**Location:** Portions of Tulare 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.

Figure C-9 (Appendix C, Hazard Figures) shows areas of concern for post-fire debris flows, which are confined to the unincorporated areas of the County. These areas of concern are stream channels and drainages that drain regions that have: (1) burned in a wildfire in the last five years, and (2) have slopes of 30 degrees or more. These areas of concern were not created using accurate or highly scientific data or methodologies, but are estimated based on readily-available data and simplified methods.

**Extent:** The extent of post-fire debris flows are dependent on the following factors:

- The percent of area burned in each basin at both high and moderate severities
- The average storm rainfall intensity
- The measure of sorting of the grain-size distribution of the burned soil
- The percent of soil organic matter (by weight)
- The soil permeability
- The soil drainage
- The percentage of the basin with slopes great than or equal to 30 percent

**Probability of Future Events:** Post-fire debris flows are most common in the two years after a fire; they are usually triggered by heavy rainfall. Flooding and increased runoff may continue for several years, but it is unusual for post-fire debris flows to be produced beyond the second rainy season. The probability of future post-fire debris flow in Tulare County is unknown.

#### **4.3.12 Severe Winter Storm**

**Nature:** The climate in California's Central Valley is hot Mediterranean, in which summers are hot and dry and winters are cool and damp. The time period between mid-autumn to mid-spring comprises the rainy season (roughly October to April). During these months, winter storms may occur.

A dominating factor in the weather of California is the semi-permanent high pressure area of the northern 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 further south, permitting storms to move into and across the state, producing 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.

Winter storms can also lead to high winds. Winds are horizontal flows of air that blow from areas of high pressure to areas of low pressure. Wind strength depends on the difference between the high- and low-pressure systems and the distance between them. A steep pressure gradient results from a large pressure difference or short distance between these systems and causes high winds.

Winter storms may also bring snow to higher elevations as well as heavy rains and freezing temperatures.

**History:** Severe Winter Storm is being characterized by freezing temperatures, snow fall and high winds (as flooding is previously captured as its own hazard, heavy rain is not included in the hazard of Severe Winter Storm). The National Climatic Data Center (NCDC) database shows the following severe storm information for Tulare County:

- One hundred fifty-six snow and ice events since 2000. In most of these storms, snow occurred at elevations of 2,500 feet or higher. In one case, \$25,000 of property damage was reported. In another case, one death was reported.
- Eight strong wind events since 2003. Property damage up to \$210,000 for one event has been recorded, although some events were not associated with any property damage. The highest wind speed recorded, according to this database, was 49 knots, or 56 miles per hour (mph). (A knot is a unit of speed equal to 1 nautical mile per hour, which is equal to approximately 1.151 mph.)
- Three severe freeze events since 1990, resulting in three Presidential Declarations (1990–1991, 1998, and 2007). These freeze events caused a loss of citrus and seasonal crops throughout the County. Numerous farm workers also lost their jobs due to the damaged crops.

**Location:** Figure C-10 (Appendix C, Hazard Figures) shows the areas within Tulare County that are susceptible to snowfall. Higher elevations in the eastern portion of the County can average up to 72 inches of snowfall per year, while middle elevations in the central portion of the County average around 36 inches of snowfall per year (including the Tule River Reservation, the unincorporated areas of the County and areas under the jurisdiction of the TCOE). Low elevations in the western portion of the County receive little or no snowfall.

Figure C-11 (Appendix C, Hazard Figures) shows the areas within Tulare County that are susceptible to high peak gusts. Specifically, this figure shows (by area in Tulare County and surrounding region) the average number of days per year that wind gusts peak at or above 50 mph. As shown on the figure, the eastern and central parts of the County (limited to the County unincorporated) experience more days per year (31 to 40 days) with high peak gusts than the rest of the County (20 to 30 days).

Freezing occurs throughout the County, and occurs more frequently at higher elevations. Figure C-12 (Appendix C, Hazard Figures) shows the areas within Tulare County that are most susceptible to freezing temperatures. Specifically this figure shows (by area in Tulare County and surrounding region) the average number of days per year that the temperature is at or below freezing. The Tule River Tribe, the TCOE and the unincorporated areas of the County all experience at least 31 days per year with a mean temperature of 32 degrees F or below.

**Extent:** In Tulare County, a severe winter storm can produce high snowfall (up to 60 inches in one day), wind (peak gusts up to 55 mph), and freezing temperatures (for more than 121 days per year).

**Probability of Future Events:** Based on previous events, Tulare County can expect to experience at least one major winter storm annually. High winds, which are defined as those that last longer than 1 hour at greater than 39 mph or for any length of time at greater than 57 mph,

occur every one to three years. Freezing temperatures and snowfall occur annually. The mountainous areas in the County will continue to experience over 70 inches of snowfall per year as well as freezing temperatures for over 120 days per year.

Therefore, it is highly likely that an event will occur within the calendar year. Events have a 1 in 1 year (a 1/1=100 percent) chance of occurring.

#### **4.3.13 Terrorism**

**Nature:** There is not a universally agreed upon definition of terrorism; however, the CFR defines terrorism as “... the unlawful use of force and violence against persons or property to intimidate or coerce a government, the civilian population, or any segment hereof, in furtherance of political or social objectives.” (28 C.F.R. Section 0.85) In general, terrorism is seen as violence against civilians to achieve a political or ideological objective through fear.

Terrorism can occur in various forms: assassinations; kidnappings; hijackings; bomb scares and bombings; cyber attacks (computer-based); and the use of chemical, biological, nuclear and radiological weapons. In Tulare County, a biological attack, most specifically, bioterrorism and agroterrorism, is viewed as the most likely hazard.

- **Bioterrorism:** A bioterrorism attack is the deliberate release of viruses, bacteria, or other germs (agents) used to cause illness or death in people, animals, or plants. These agents are typically found in nature, but it is possible that they can be changed to increase their ability to cause disease, make them resistant to current medicines, and/or to increase their ability to be spread into the environment. Biological agents can be spread through the air, through water, or in food. Terrorists may use biological agents because they can be extremely difficult to detect and do not cause illness for several hours to several days. Some bioterrorism agents, like the smallpox virus, can be spread from person to person and some, like anthrax, cannot.
- **Agroterrorism:** A subset of bioterrorism, is defined as the deliberate introduction of an animal or plant disease with the goal of generating fear, causing economic losses, and/or undermining stability. Agriculture has several characteristics that pose unique problems for managing the threat. Agricultural production is geographically disbursed in unsecured environments. Livestock are frequently concentrated in confined locations, and then transported and commingled with other herds. Pest and disease outbreaks can quickly halt economically important exports. Many veterinarians lack experience with foreign animal diseases that are resilient and endemic in foreign countries.

**History:** No recorded incidents of terrorism have occurred in Tulare County.

**Location:** The Department of Homeland Security’s National Planning Scenario identifies the possible terrorist strike locations it views as most plausible; places at risk include cities, such as Visalia, Tulare, and Porterville, that have economic and symbolic value, places with hazardous facilities, and areas where large groups of people congregate, such as an office building or a sports arena. However, it is also believed that terrorists may begin to target small rural communities, such as Badger, Lemon Cove, and Traver, with the goal of targeting pesticide facilities, chemical plants, water supply, dams and/or agriculture.

**Extent:** Due to the large number of factors involved, including the factors of human decision and drive, the extent of a future terrorist attack in Tulare County is unknown.

**Probability of Future Events:** The probability of a future terrorist event in Tulare County cannot be determined. Too many factors, including the factors of human decision and drive, affect the probability of a future terrorist attack; therefore, no estimate is available for the probability of a future terrorist event in Tulare County.

#### **4.3.14 Volcano**

**Nature:** A volcano is a vent or opening in the earth's crust from which molten lava (magma), pyroclastic materials, and volcanic gases are expelled onto the surface. Volcanoes and other volcanic phenomena can unleash cataclysmic destructive power greater than nuclear bombs, and can pose serious hazards if they occur in populated and/or cultivated regions.

There are four general types of volcanoes:

- **Lava domes** are domes that are formed when lava erupts and accumulates near the vent.
- **Cinder cones** are cone-shaped and formed by accumulation of cinders, ash, and other fragmented materials originating from an eruption.
- **Shield volcanoes** are broad, gently sloping volcanic cones of flat domical shape, usually several tens or hundreds of square miles in extent, built chiefly of overlapping and interfingering basaltic lava flows.
- **Composite or strato-volcanoes** are typically steep-sided, symmetrical cones of large dimensions built of alternating layers of lava flows, volcanic ash, cinders, and blocks. Most composite volcanoes have a crater at the summit containing a central vent or clustered group of vents.

Along with the different kinds of volcanoes there are different types of eruptions. The type of eruption is a major determinant of what physical results an event will create, and what hazards it poses. Six main types of volcano hazards exist including:

- **Volcanic gases** are made up of water vapor (steam), carbon dioxide, ammonia, as well as sulfur, chlorine, fluorine, and boron compounds, and several other compounds. Wind is the primary source of dispersion for volcanic gases. Life, health, and property can be endangered from volcanic gases within about six miles of a volcano. Acids, ammonia, and other compounds present in volcanic gases can damage eyes and respiratory systems of people and animals, and heavier-than-air gases, such as carbon dioxide, can accumulate in closed depressions and suffocate people or animals.
- **Lahars** are usually created by shield volcanoes and strato-volcanoes and can easily grow to more than 10 times their initial size; they are formed when loose masses of unconsolidated, wet debris become mobilized. Eruptions may trigger one or more lahars directly by quickly melting snow and ice on a volcano or ejecting water from a crater lake. More often, lahars are formed by intense rainfall during or after an eruption since rainwater can easily erode loose volcanic rock and soil on hillsides and in river valleys. As a lahar moves farther away from a volcano, it will eventually begin to lose its heavy load of sediment and decrease in size.
- **Landslides** are common on strato-volcanoes because their massive cones typically rise thousands of feet above the surrounding terrain, and are often weakened by the very process that created the mountain—the rise and eruption of molten rock (magma). If the moving rock

debris is large enough and contains a large content of water and soil material, the landslide may transform into a lahar and flow down valley more than 50 miles from the volcano.

- **Lava flows** are streams of molten rock that erupt from a vent and move downslope. Lava flows destroy everything in their path; however, deaths caused directly by lava flows are uncommon because most move slowly enough that people can move out of way easily, and flows usually do not travel far from the source vent. Lava flows can bury homes and agricultural land under tens of feet of hardened rock, obscuring landmarks and property lines in a vast, new, hummocky landscape.
- **Pyroclastic flows** are dense mixtures of hot, dry rock fragments and gases that can reach 50 mph. Most pyroclastic flows include a ground flow composed of coarse fragments and an ash cloud that can travel by wind. Escape from a pyroclastic flow is unlikely because of the speed at which they can move.
- **Tephra** is a term describing any size of volcanic rock or lava that is expelled from a volcano during an eruption. Large fragments generally fall back close to the erupting vent, while smaller fragment particles can be carried hundreds to thousands of miles away from the source by wind. Ash clouds are common adaptations of tephra.

**History:** Eruptions have occurred in the Inyo and Mono craters as recently as 600 years ago, and small eruptions have occurred in Mono Lake between the mid 1700s and mid 1800s. Although no volcanic eruptions are known to have occurred in eastern California since those in Mono Lake, the volcanic system in the Mammoth Lakes/Long Valley area is still active.

**Location:** The nearest volcanoes to Tulare County are located about 60 miles northeast of the County border in the Mammoth Lakes/Long Valley area within Mono County. The Long Valley Caldera is located in this area; the Caldera is a depression that was created 760,000 years ago when a large volcanic eruption destroyed the existing volcano. Over time, other volcanic features developed in the caldera area, including Mammoth Mountain and the Mono and Inyo Craters. Mammoth Mountain is a composite volcano that extruded along the southwest rim of the Long Valley Caldera approximately 220,000 to 50,000 years ago. The Mono and Inyo craters were formed by more recent eruptions 5,000 to 500 years ago. This younger volcanic chain extends from south of Mammoth Mountain on the western caldera to the north shore of Mono Lake.

**Extent:** If an eruption were to occur in the Long Valley Caldera area, its impact will depend on the size of the eruption, location, and type of eruption. Impacts will also depend on the wind direction and the time of the year the eruption occurs. For example, an eruption during the winter months could melt heavy snow and generate mudflows. In the Long Valley area, significantly destructive flooding could occur. Areas in the opposite direction of the wind will experience less volcanic ash deposition.

The most serious effect on Tulare County would be ash deposition, if the wind direction were occurring in such a way to bring ash towards Tulare County. Airborne volcanic ash may be carried hundreds of miles downwind, possibly impacting homes and agricultural fields in Tulare County, which is located approximately 80 miles from the Long Valley area. More-violent volcanic hazards, such as pyroclastic flows, are not expected to affect Tulare County. According to USGS, even the main population centers in the Long Valley area are far enough from the probable eruption sites that they are unlikely to be direction impacted by the flows.

The USGS prepares volcano hazard assessment reports to help residents who live near volcanoes prepare for future eruptions. A USGS preliminary assessment report on potential hazards from future volcanic eruptions in the Long Valley area provides hazard maps describing the potential hazards from volcanic ash deposition. The report describes hazard zones for two eruption size scenarios: (1) eruptions of moderate magma volume such as those occurring in the last 10,000 years, and (2) an eruption of very large volume, such as the one that occurred at Long Valley about 760,000 years ago. Figure C-13 (Appendix C, Hazard Figures) shows a hazard map for the second eruption size scenario. This figure illustrates that the far northern portion of the County, all unincorporated county land, could potentially acquire at least one meter of airfall ash due to the volcanic eruption. Table 4-11 summarizes the hazard zones and expected ash fall for both the moderate and the large volume scenarios; in scenario one, the entire County is expected to receive a minimum of 0.5 inches of ash fall from the eruption.

**Table 4-11. Expected Ash Fall Thickness for Moderate and Large Volcanic Eruptions in Long Valley Area**

<b>Eruption Size</b>	<b>Distance from Potentially Erupting Vents (miles)</b>	<b>Thickness of Ash Fall (inches)</b>
(1) Moderate	22	8
	53	2
	85	0.5
(2) Large	75	40
	125	16
	300	6

Source: Bailey et al. 1982.

It is not possible to precisely determine the wind directions that will exist at the time of a future eruption. However, examination of historical wind records can provide an estimate of the predicted wind direction. Records suggest that on an annual basis, more than 80 percent of the winds blow toward some easterly direction between due north and due south. It is expected that areas in these directions have a greater chance of being affected by ash fall. Tulare County is located to the west of the Long Valley Caldera, and thus will not likely experience severe effects from ash deposition in the unlikely event a volcanic eruption were to occur.

**Probability of Future Events:** According to USGS, the pattern of volcanic activity over the past 5,000 years suggest that the next eruption will most likely happened along the Mono-Inyo volcanic chain. However, the probability of such an eruption is less than one percent in any given year. In addition, geologists believe that a large eruption such as that one that formed Long Valley Caldera is rare, and there is no evidence that such an eruption is expected to occur again in the area.

**4.3.15 Wildfire**

**Nature:** A wildfire is an uncontrolled fire spreading through vegetative fuels. Wildfires can be caused by human activities (such as arson or campfires) or by natural events (such as lightning).

Wildfires often occur in forests or other areas with ample vegetation. Wildfires differ from other fires due to their large size, the speed at which the fires can spread, and the ability of the fire to change direction unexpectedly and to jump gaps, such as roads, rivers, and fire breaks.

In areas where structures and other human development meet or intermingle with wildland or vegetative fuels (referred to as the “wildland urban interface”), wildfires can cause significant property damage and present extreme threats to public health and safety.

The following three factors contribute significantly to wildfire behavior and 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 more 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 will burn with greater intensity; and nonnative plants may be more susceptible to burning than native species. Dense or overgrown vegetation increases the amount of fuel load. The ratio of living to dead plant matter is also important. The risk of fire increases significantly during periods of prolonged drought, as the moisture content of both living and dead plant matter decreases; or when a disease or infestation has caused widespread damage. The fuel’s continuity, both horizontally and vertically, is also an important factor.
- **Weather:** The most variable factor affecting the behavior of wildfires is weather. 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 signal 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.

Wildfires can have serious effects on the local environment, beyond the removal of vegetation. Soil exposed to intense heat may lose its capability 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.

**History:** Numerous wildfires have been recorded in Tulare County. Table 4-12 lists the fires that have burned 1,000 acres or more in Tulare County in the past 30 years.

**Table 4-12. Tulare County Fires That Burned over 1,000 Acres, 1979–2009**

Name	Start Date	Acres Affected <sup>(1)</sup>	Name	Start Date	Acres Affected <sup>(1)</sup>
Woodlake Mountain	1979	1,900	Stage	2002	1,100
Taylor	1979	2,100	Delima	2003	3,000

**Table 4-12. Tulare County Fires That Burned over 1,000 Acres, 1979–2009**

Name	Start Date	Acres Affected <sup>(1)</sup>	Name	Start Date	Acres Affected <sup>(1)</sup>
Round Valley	1981	3,600	Cooney (TIA 2415)	2003	1,928
USFS #5	1985	8,100	NPS #6 Paradise	2003	1,298
Case	1987	4,723	Millwood	2005	2,600
Lopez/Kern Company #8	1995	1,985	Pine	2005	1,600
Oak Flat	1996	1,000	Alpaugh	2006	1,700
Kaweah	1996	4,479	Kern 19 Cottonwood	2006	2,500
White Oak	1996	7,150	Grouse	2007	1,022
Castle Complex	1996	1,633	Goldledge	2007	4,196
Coffee	1997	2,420	F#88 Shannon Inc.	2007	2,140
Fernandez	1997	43,700	Honey Bee	2008	1,225
King <sup>(2)</sup>	2000	3,243	Clover	2008	15,300
Manter	2000	74,439	Hidden	2008	3,668
Chance <sup>(2)</sup>	2000	1,200	Lion	2009	2,577
Borel	2002	3,430	Granite	2009	1,417
McNally	2002	150,696	—	—	—

Source: CalFire n.d.

<sup>(1)</sup> Acres affected = total acreage.

<sup>(2)</sup> Fire occurred in both Tulare and Kern counties.

NPS National Park Service  
 TIA Tule River Tribe  
 USFS U.S. Forest Service

**Location:** Public Resources Code 4201-4204 and Government Code 51175-89 directed CalFire 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- to 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 incorporated 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 CalFire under contract to the local government. The fire hazard severity zones for the area of local responsibility in Tulare County are shown on Figure C-14 (Appendix C, Hazard Figures).

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 local or federal agencies. The fire hazard severity zones for the area of state responsibility in Tulare County are shown on Figure C-15 (Appendix C, Hazard Figures).



The portion of the County that transitions from the valley floor into the foothills and mountains is characterized by high to very high threat of wildfire; this includes the cities of Porterville and Woodlake, the jurisdiction of the TCOE, the Tule River Tribe Reservation and areas of the County unincorporated. Steeper terrain in these areas increases the threat of wildfire. The western portion of the County has little or no threat of wildfire.

The risk of wildfire increases where human access exists in high fire hazard severity zones, such as the Sierra Nevada and foothills, because of a greater chance for human carelessness and because of historic and current fire management practices.

**Extent:** CalFire has classified 22 percent of Tulare County as high wildfire hazard areas and an additional 27 percent as very high wildfire hazard areas.

**Probability of Future Events:** Based on historical events, on average, about two to three wildfires burn within Tulare County each year. Therefore, it is highly likely that a wildfire event will occur within the calendar year impacting Tulare County. Events have a 2 in 1 year (a 1/1=100 percent) chance of occurring.

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## **5.1 OVERVIEW – VULNERABILITY ANALYSIS**

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.

As described in the local mitigation planning requirements, this vulnerability analysis consists of seven steps:

- Asset inventory
- Methodology
- Data limitations
- Exposure analysis
- RL properties
- Summary of impacts
- Additional tribal requirements

Tables that support the asset inventory, exposure analysis, RL properties, summary of impacts, and additional tribal requirements are provided in the jurisdiction-specific appendices, Appendices G through Q.

Due to the lack of adequate information and the lack of a standard methodology for a quantitative vulnerability analysis, no vulnerability results have been prepared for the following hazards: biological hazard (medical and agricultural hazards), civil disturbance, energy emergency, hazardous material (mobile and fixed incidents), heat, landslide/mudslide, and terrorism. Thus, a quantitative vulnerability analysis has been prepared for the following hazards:

- Avalanche
- Earthquake
- Flood
- Fog
- Post-fire debris flow
- Severe winter storm (freezing, snowfall and wind gust)
- Volcano
- Wildfire

## **5.2 ASSET INVENTORY**

Assets that were included in the vulnerability analysis for the 2011 HMP are as follows:

- Population
- Residential building stock

- RL properties
- Critical facilities and infrastructure:
  - Government facilities
  - 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 participating jurisdiction are listed in the first table of that jurisdiction's appendix (the jurisdiction-specific appendices are Appendices G through Q). Figure C-16 (Appendix C, Hazard Figures) shows the estimated 2010 population of Tulare County by census block, and Figure C-17 (Appendix C, Hazard Figures) shows the estimated 2010 housing units in Tulare County by census block. Figure C-18 (Appendix C, Hazard Figures) provides a visual representation of the assets inventoried for Tulare County.

### **5.3 METHODOLOGY**

A conservative exposure-level analysis was conducted to assess the risks associated with the following hazards: avalanche; earthquake; flood; fog; post-fire debris flow; severe winter storm (freezing, snowfall and wind gust); volcano; and wildfire. 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 was derived from 2000 Census information, and adjusted to reflect 2010 population numbers. Then, a combination of spatial overlay and proportional analysis was used to determine the number of people living in the areas where the hazards are likely to occur.

The number of residential buildings was derived from Census block-level residential building information (2000 Census data, adjusted to 2010 numbers). Then, a combination of spatial overlay and proportional analysis was used to determine the number of residential buildings in the areas where the hazards are likely to occur.

The geocoded locations of physical assets were derived from data provided by Tulare County, the incorporated cities, the TCOE, and the Tulare River Tribe. Then, the geocoded locations of the physical assets were compared to locations where the hazards are likely to occur. If any portion of an asset fell within a hazard area, it was counted as impacted. A spatial proportion was used to determine the amount of a linear asset, such as a highway, that was within a hazard area. The exposure analysis for linear assets was measured in miles. Plan participants provided estimated replacement values for their owned assets, if values were available.

For each physical asset 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.

It is important to note that fog has been identified as a hazard for this 2011 HMP, but fog in itself does not cause structural damage or loss of human life. However, for the vulnerability analysis the methodology as described in the previous paragraph has been applied to all hazards. As such, any physical asset within the fog hazard zone will be illustrated as affected.

## 5.4 DATA LIMITATIONS

As noted above, due to the lack of adequate information and the lack of a standard methodology for a quantitative vulnerability analysis, no vulnerability results were prepared for the following hazards: biological hazard (medical and agricultural hazards), civil disturbance, energy emergency, hazardous materials (mobile and fixed incidents), heat, landslide/mudslide, and terrorism.

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 the 2011 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 in future updates to 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.

The vulnerable populations and existing structures (i.e., the residential buildings and the critical facilities and infrastructure) that are at risk to each identified hazard are listed in each jurisdiction's appendix (the jurisdiction-specific appendices are Appendices G through Q). For Tulare County, the incorporated cities, and the Tule River Tribe, the exposure analysis was prepared for population, residential buildings, and critical facilities and infrastructure. In

addition, for Tulare County, the City of Exeter, and the City of Woodlake, the RL properties were included in the analysis for each of these plan participants.

**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 the residential buildings and the critical facilities and infrastructure at risk to each identified hazard are listed in each jurisdiction’s appendix (the jurisdiction-specific appendices are Appendices G through Q). As noted previously, estimated values were provided by each plan participant, 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 National Flood Insurance Program 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.

A total of 11 RL properties are in Tulare County: eight of the RL properties are in unincorporated areas of Tulare County, two of the RL properties are in Exeter, and one of the RL properties is in Woodlake. All but one of the RL properties are single-family homes; one nonresident RL property is in the unincorporated area of Tulare County.

Information about each RL property, including occupancy type, flood zone, and number of losses, is provided in the jurisdiction-specific appendices for Tulare County (Appendix G), the City of Exeter (Appendix I), and the City of Woodlake (Appendix O). An RL property map is provided as Figure C-19 (Appendix C, Hazard Figures). This information was obtained using FEMA’s SQANet dated October 19, 2010.

## 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.

An overall summary of impacts (i.e., percentage at risk) for each identified hazard for Tulare County is provided below. Summaries for each specific jurisdiction (converging population, residential buildings, and critical facilities and infrastructure), Tulare County unincorporated, the incorporated cities, and the Tule River Tribe, are provided in the accompanying jurisdiction-specific appendices (Appendices G through Q). For the participating special district, the TCOE, the analysis only includes the critical facilities that the TCOE owns and maintains (Appendix P).

Overall, based on this 2011 HMP's vulnerability analysis, a summary of impacts includes the following:

- The eastern portion of Tulare County, along the Sierra Nevada mountain range is susceptible to avalanches. Areas with a high avalanche potential are areas that receive 72 inches or more of snow per year and have a slope of 30-40 degrees. This includes 5.3 percent of Tulare County, all unincorporated County land, but because these areas are generally uninhabited, only .01 percent of the population is affected.
- The entire County is located within the low to moderate shaking range for an earthquake. Therefore should an earthquake occur, all city residents, County residents and Tule River Reservation residents will feel the earthquake, objects will move or fall off of walls and shelves, but building and infrastructure damage is not expected to occur.
- Riverine flooding is prevalent in the majority of the inhabited, western, portion of the County as well as the Tule River Reservation. 11.8 percent of Tulare County located within the 100 or 500 year floodplain, but because the majority of flooding occurs in the inhabited portion of Tulare 53.3 percent of the population is affected. Tulare County and the Tule River Tribe is also susceptible to flooding due to dam failure. There are five dams whose inundation zones fall within Tulare County, which covers 12 percent of the County and could affect 58.5 percent of the population.
- The western portion of Tulare County, as well as the Tule River Reservation, is susceptible to fog. Tule fog generally occurs in areas of low elevation and affects 32 percent of the County, 97.4 percent of the population.

- Post-fire debris flow is most likely to occur in the mountainous, eastern portion of Tulare County. The areas of concern are stream channels and drainages that drain regions that have: (1) burned in a wildfire in the last five years, and (2) have slopes of 30 degrees or more. According to this methodology .25 percent of the County, all unincorporated County land, is susceptible to post-fire debris flow, but as these areas are generally uninhabited only .02 percent of the population is affected.
- The hazard of a severe winter storm has been described to include the following characteristics: below freezing temperatures, snowfall and wind gusts. Accordingly, the eastern portion of Tulare County is most susceptible to severe winter storms, affecting about 62 percent of the County and 11.2 percent of its residents. The susceptible areas include the City of Dinuba, the TCOE, the Tule River Tribe and unincorporated areas of Tulare County.
- The probability of a volcanic eruption along the Mono-Inyo volcanic chain is less than one percent in any given year. However, should one occur, the most serious effect on Tulare County would be ash deposition. The northern portion of Tulare County, all unincorporated land, has the potential to be affected by the hazard of a volcano; 6.2 percent of the County could be affected by volcanic ash fall and .07 percent of the population.
- The eastern portion of Tulare County is most susceptible to wildfires; the portion of the County that transitions from the valley floor into the foothills and the mountains is characterized by high to very high threat of wildfire. As such, 65.5 percent of the County is classified as high or very high wildfire risk areas, affecting 3.3 percent of the population. The susceptible areas include the City of Porterville, the City of Woodlake, the TCOE, the Tule River Tribe and unincorporated areas of Tulare County.

**5.8 ADDITIONAL TRIBAL REQUIREMENTS**

Additional tribal requirements for assessing vulnerability for cultural and sacred sites, as stipulated in DMA 2000 and its implementing regulations, are described below.

<p style="text-align: center;"><b>DMA 2000 RECOMMENDATIONS: RISK ASSESSMENT</b></p> <p style="text-align: center;"><b>Assessing Vulnerability: Assessing Cultural and Sacred Sites</b></p> <p><b>Requirement § 201.7(c)(2)(ii)(D):</b> [The plan should describe vulnerability in terms of] cultural and sacred sites that are significant, even if they cannot be valued in monetary terms.</p> <p><b>Element</b></p> <ul style="list-style-type: none"><li>▪ Does the new or updated plan describe significant cultural and sacred sites that are located in hazard areas?</li></ul> <p>Source: FEMA 2010.</p>
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Cultural and sacred sites are present on the 85-square-mile reservation of the Tule River Tribe. However, the tribe has requested that the cultural and sacred sites not be identified in this publicly available plan.

The tribe is very knowledgeable of their cultural and sacred sites potential vulnerability to the hazards identified in the 2011 HMP and are able to define and plan for potential impacts from those hazards.



## 6.1 OVERVIEW – CAPABILITY ASSESSMENT

DMA 2000 and its implementing regulations do not require that a capability assessment be prepared for most plan participants; the exception is that the regulations do require a capability assessment be undertaken for tribal entities. A capability assessment identifies and evaluates the human and technical, financial, and legal and regulatory resources available for hazard mitigation and describes current, ongoing, and recently completed mitigation projects.

CALEMA/FEMA’s local mitigation planning recommendations and the tribal mitigation planning requirements are addressed below.

## 6.2 CAPABILITY ASSESSMENT RECOMMENDATIONS BY CALEMA/FEMA

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

### **DMA 2000 RECOMMENDATIONS: LOCAL CAPABILITY ASSESSMENT**

#### **Local Capability Assessment**

**Requirement 44 CFR §201.4(c)(3)(ii):** – Of the Federal Register Interim Final Rule 44 CFR Parts 201 and 206 states, “[The State mitigation strategy shall include] a general description and analysis of the effectiveness of local mitigation policies, programs, and capabilities.

#### **Element**

- 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?
- 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?
- Does the new or updated plan list local ordinances which affect or promote disaster mitigation, preparedness, response, or recovery within the reporting jurisdiction?
- Does the new or updated plan describe the details of in-progress, ongoing, or completed mitigation projects and programs within the reporting jurisdiction?

Source: FEMA 2008.

Each participating jurisdiction’s human and technical, financial, and legal and regulatory resources as well as their current, ongoing, and completed mitigation projects and programs is provided in the overall summary (exposure analysis) tables provided in in Appendices G through Q.

## 6.3 TRIBAL REQUIREMENTS

Tribal requirements for identifying funding requirements and developing a capability assessment, as stipulated in DMA 2000 and its implementing regulations, are described below.

**DMA 2000 REQUIREMENTS: CAPABILITY ASSESSMENT****Tribal Capability Assessment**

**Requirement § 201.7(c)(3)(iv):** [The mitigation strategy shall include] a discussion of the Indian Tribal government’s pre- and post-disaster hazard-management policies, programs, and capabilities to mitigate the hazards in the area, including an evaluation of Tribal laws, regulations, policies, and programs related to hazard mitigation as well as to development in hazard-prone areas.

**Element**

- Does the new or updated plan include an evaluation of the Indian Tribal government’s **pre-disaster hazard management laws**, regulations, policies, programs, and capabilities?
- Does the new or updated plan include an evaluation of the Indian Tribal government’s **post-disaster management laws**, regulations, policies, programs, and capabilities?
- Does the new or updated plan include an evaluation of the Indian Tribal government’s laws, regulations, policies programs, and capabilities related to development in hazard prone areas?
- Does the new or updated plan include a discussion of the Indian Tribal government’s funding capabilities for hazard mitigation projects?

Source: FEMA 2010.

**DMA 2000 REQUIREMENTS: FUNDING REQUIREMENTS****Funding Sources**

**Requirement § 201.7(c)(3)(v):** [The mitigation strategy shall include an] identification of current and potential sources of Federal, Tribal, or private funding to implement mitigation activities.

**Element**

- Does the new or updated plan identify current sources of Federal, tribal, or private funding to implement mitigation activities?
- Does the new or updated plan identify potential sources of Federal, tribal, or private funding to implement mitigation activities?

Source: FEMA 2010

Capability and funding resources for the Tule River Tribe are listed in Tables Q-7 through Q-10 in Appendix Q, Tule River Tribe.

## 7.1 OVERVIEW – MITIGATION STRATEGY

For each plan participant, a mitigation strategy involves the identification of mitigation goals and actions to reduce the risks associated with each hazard and the vulnerability of the local population and built environment to the hazards.

As described in the local mitigation planning requirements, the mitigation strategy for each plan participant 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 that represent a community-wide vision. Table 7-1 shows the mitigation goals that were developed to reduce or avoid long-term vulnerability to each hazard included in the vulnerability analysis of the 2011 HMP, including avalanche, earthquake, flood, fog, post-fire debris flow, severe winter storm, volcano, and wildfire.

**Table 7-1. Mitigation Goals**

Goal Number	Goal Description
1	Reduce the possibility of damage and losses due to avalanches.
2	Reduce the possibility of damages and losses due to earthquakes.
3	Reduce the possibility of damages and losses due to floods.
4	Reduce the possibility of damages and losses due to fog.
5	Reduce the possibility of damages and losses due to post-fire debris flows.
6	Reduce the possibility of damages and losses due to severe winter storms.
7	Reduce the possibility of damages and losses due to volcanoes.
8	Reduce the possibility of damages and losses due to 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.

**DMA 2000 REQUIREMENTS: MITIGATION STRATEGY**

**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**

- Does the plan identify and analyze a comprehensive range of specific mitigation actions and projects for each hazard?
- Do the identified actions and projects address reducing the effects of hazards on new buildings and infrastructure?
- Do the identified actions and projects address reducing the effects of hazards on existing buildings and infrastructure?
- Does the mitigation strategy identify actions related to the participation in and continued compliance with the NFIP?

Source: FEMA 2008.

Mitigation actions are activities, measures, 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.

The consultant and the Planning Committee developed 20 potential mitigation actions using the following criteria:

- 2011 HMA Unified Guidance project criteria eligibility
- DMA 2000 requirements for the identification and analysis of mitigation actions
- Results of the vulnerability analyses (Appendices G through Q)

As shown in Table 7-2, the following information is listed for each potential mitigation action: mitigation action description, mitigation action category, hazard(s) addressed, and type of development affected by mitigation action. As noted above, the consultant developed the first 20 potential mitigation actions. Each plan participant added specific mitigation actions, as needed (details about the mitigation actions for each plan participant are provided in the participant-specific appendices, Appendices G through Q).

**Table 7-2. 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 of residential and/or non-residential structures in hazard areas, such as high and/or very high wildfire areas.	Property Protection	All	New and Existing – Residential and non-residential buildings in hazard areas.
2	Integrate the Tulare County 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	Not applicable.
3	Seismically retrofit or replace public works and/or emergency response facilities that are necessary during and/or immediately after a disaster or emergency.	Property Protection, Structural Project	Earthquake	Existing – Public works and/or emergency response facilities that are structurally deficient or located within a high ground shaking area.
4	Seismically retrofit or replace 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 and/or immediate after a disaster or emergency.	Property Protection, Structural Project	Earthquake	Existing – Ramps and bridges identified by Caltrans as structurally deficient or located within an extreme ground shaking area.
5	Develop a public outreach program that informs property owners located in the dam or levee inundation areas about voluntary flood insurance.	Public Outreach	Flood	Existing – Residential buildings located within dam or levee inundation areas.
6	Create a database that accounts for all levees in Tulare County and their condition.	All	Flood	Not applicable.
7	Acquire, relocate, or elevate residential structures, in particular those that have been identified as Repetitive Loss (RL) properties that are located within the 100-year floodplain.	Property Protection	Flood	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
8	Acquire, relocate, elevate, and/or floodproof critical facilities that are located within the 100-year floodplain.	Property Protection	Flood	Existing - Critical facilities located within the 100-year floodplain.

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

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
9	Reinforce County and local ramps, bridges, and roads from flooding through protection activities, including elevating the road and installing culverts beneath the road or building a higher bridge across the area that experiences regular flooding.	Property Protection, Structural Project	Flood	Existing – County and local ramps, bridges, and roads identified in the 100-year floodplain.
10	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide Digital Flood Insurance Rate Map (DFIRM), Community Assessment Visits, and/or the Department of Water Resources (DWR).	All	Flood	New/Existing - Properties within the 100-year or 500-year floodplain.
11	Increase participation in the National Flood Insurance Program (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	Flood	New/Existing –County and incorporated communities that have RL properties.
12	Continue to work with weather forecasting and public safety agencies to provide warning and protective information to residents, travelers, and visitors about severe valley fog conditions*.	Prevention	Fog	Not applicable.
13	Implement post-fire debris flow hill-slope and channel treatments, such as seeding, mulching, and checking dams and debris racks, as needed.	Prevention, Property Protection	Post-Fire Debris Flow	Existing – Public works facilities.
14	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	Existing – Critical facilities located in areas that experience severe wind.
15	Develop a free annual tree chipping and tree pick-up day that encourages residents living in wind hazard areas to manage trees and shrubs at risk to falling on nearby structures.	Property Protection	Severe Winter Storm	Existing – Residential buildings that experience severe wind.

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

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
16	Bolt down the roofs of critical facilities in wind gust hazard areas in order to prevent wind damage.	Property Protection	Severe Winter Storm	Existing – Critical facilities located in areas that experience wind gusts.
17	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 high and very high wildfire zones.	Prevention, property protection, natural resource protection	Wildfire	Existing – Critical facilities and residential buildings located within high and very high wildfire zones.
18	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 from around their homes.	Property Protection	Wildfire	Existing – Residential buildings in high or very high wildfire zones.
19	Develop a community wildfire mitigation plan that identifies and prioritizes areas for hazard fuel reduction treatments, and recommend the types of methods of treatments.	Prevention, Property Protection	Wildfire	New/ Existing – Residential and non-residential buildings located within high or very high wildfire areas in the Local Responsibility Areas.
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 – Residential and non-residential buildings located within high or very high wildfire areas.
21	Other?			
22	Other?			

\* Mitigation action does not meet the 2011 HMA Guidance requirements for FEMA mitigation funding.

DFIRM = digital Flood Insurance Rate Map  
 DWR = Department of Water Resources  
 FEMA = Federal Emergency Management Agency  
 HMP = Hazard Mitigation Plan  
 NFIP = National Flood Insurance Program  
 RL = Repetitive Loss



## 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 plan participant. 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 was developed, each plan participant evaluated and prioritized the potential mitigation actions using the Mitigation Strategy Workbook to determine which mitigation actions would be that participant's mitigation action plan. Only mitigation actions that met at least three or more of the prioritization criteria listed below were included in the mitigation action plan. Criteria considered for this evaluation process included:

- A. A local jurisdiction department or agency champion currently exists or can be identified
- B. The action can be implemented during the 5-year lifespan of the HMP
- C. The action may reduce expected future damages and losses (passes a cost-benefit analysis)
- D. The action mitigates a high-risk hazard
- E. The action mitigates multiple hazards

Each participant's mitigation action plan is included in that participant's appendix (Appendices G through Q). Each mitigation action plan consists of a description of each mitigation action; prioritization criteria for selecting each action; the potential facility or facilities to be mitigated by the action (if known); the department or agency responsible for implementing the action; and the implementation time frame for the action.

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

The requirements for the identification and analysis of mitigation actions that comply with the NFIP, 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 4.3.6, Tulare County and all of its incorporated cities participate in the NFIP. Table 4-7 lists the following for each NFIP participant: date of the initially mapped FIRM; emergency/regular NFIP entrance date; and number of flood policies in force.

Mitigation actions 10 and 11 in Table 7-2 address continued compliance with the NFIP. These actions are analyzed using the criteria in section 7-4 and prioritized, as necessary, in the participant-specific mitigation action plans (Appendices G through Q).

**8.1 OVERVIEW – PLAN MAINTENANCE**

This section describes a formal plan maintenance process to ensure that the 2011 HMP remains an active and applicable document. This section provides an explanation of how the Tulare County OES and the Planning Committee intend to organize their efforts to ensure that the revisions to the 2011 HMP occur in a well-managed, efficient, and coordinated manner.

The following four steps in the plan maintenance process are addressed below:

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

**8.2 MONITORING, EVALUATING, AND UPDATING THE PLAN**

The requirements for monitoring, evaluating, and updating the 2011 HMP, as stipulated in the DMA 2000 and its implementing regulations, are described below.

**DMA 2000 REQUIREMENTS: PLAN MAINTENANCE PROCESS****Monitoring, Evaluating and Updating the Plan**

**Requirement 44 CFR § 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 Tulare County OES, the Planning Committee, and the consultant prepared the 2011 HMP as a collaborative effort. To maintain momentum and build on previous hazard mitigation planning efforts and successes, the Tulare County OES will make use of the Planning Committee to monitor, evaluate, and update the 2011 HMP. The current Planning Committee Point of Contact (POC), who is from the Tulare County OES, will continue to serve as the POC and will coordinate all local efforts to monitor, evaluate, and update this document.

Every 12 months from the date of plan adoption, the Planning Committee POC will email each member of the Planning Committee an Annual Review Questionnaire to complete. As shown in Appendix F, Plan Maintenance Documents, the Annual Review Questionnaire will include questions to evaluate the following topics: the planning process, the hazard analysis, the vulnerability analysis, the capability assessment, and the mitigation strategy.

The Planning Committee POC will collect the completed questionnaires and determine if the 2011 HMP needs to be updated to address any new or more threatening hazards, to incorporate new technical reports or findings, or consider new or better-defined mitigation projects. The Planning Committee POC will summarize the evaluation findings and email them out to the entire Planning Committee. If the Planning Committee POC believes that the 2011 HMP needs to be updated based on the findings, then the Planning Committee POC will request that the Planning Committee members attend an HMP update Planning Committee meeting.

Mitigation actions will be monitored and updated through the use of the Mitigation Project Progress Report. During each annual review, each department or agency currently administering a mitigation project will submit a progress report to the Planning Committee POC that reviews and evaluates the implementation and results of the mitigation action. For projects that are being funded by a FEMA mitigation grant, the FEMA quarterly reports may be used as the preferred reporting tool. As shown in Appendix F, Plan Maintenance Documents, 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 progress reports, the Planning Committee POC may request a meeting with the implementing department or agency to discuss project conditions.

In addition to the Annual Review Questionnaire, Mitigation Project Progress Report, and any annual meetings, the Planning Committee will meet to update the 2011 HMP every five years. To ensure that this update process starts within the first six months of the third year after plan adoption, the Planning Committee will undertake the following activities:

- Research whether funding is available to assist in the HMP update (and apply for funds, which may take up to a year to obtain)
- Thoroughly analyze and update the risk of natural and human-made hazards in Tulare County
- Complete a new Annual Review Questionnaire (Appendix F) and review the responses to the previous questionnaires
- Provide a detailed review and, if necessary, revision of the mitigation strategy
- Prepare a new implementation strategy
- Prepare a new draft HMP and submit it to the local 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 44 CFR § 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 2011 HMP, the Planning Committee will ensure that elements of the 2011 HMP are incorporated into other existing planning mechanisms. The processes for incorporating the 2011 HMP into various planning documents will occur as other plans are updated and as new plans are developed.

Therefore, the County, which is undertaking its general plan update process, will incorporate the hazard analysis and mitigation strategy of the HMP in its safety element. The County, which is also updating its emergency operations plan, will also incorporate the HMP for hazard analysis into the hazards description section of its emergency operations plan. The incorporated cities participating in this plan will also incorporate the various components of the HMP as they update their own general plans and emergency operations plans.

Each plan participant will also use the HMP’s hazard and vulnerability analysis information and incorporate it into emergency-management-related public information efforts.

The TCOE will incorporate its mitigation action plan into its regular maintenance programs (e.g., securing roofs for wind events, elevating or relocating portable structures in the defined floodplains, applying current building code provisions when modifying or upgrading school buildings). The TCOE will also use the hazard and vulnerability analysis information in the HMP to identify possible emergency response problems as it periodically updates its school emergency operations plans and procedures.

**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 Tulare County OES and the Planning Committee are dedicated to involving the public directly in the continual reshaping and updating of the 2011 HMP. A downloadable copy of the 2011 HMP will be available on the website of the Tulare County OES. Also, Tulare County OES will post any proposed changes or updates on its website. In addition, this website will contain an e-mail address and phone number to which people can direct their comments or concerns.

As noted above, the Planning Committee will be retained to oversee implementation, examine the responses to the annual review questionnaires and the project progress reports, modify the implementation strategy and process as needed, and update the HMP as required. The Planning Committee will hold stakeholder meetings periodically to ensure continued outreach to a broader audience. Public notices and releases will be used to inform the public of these meetings and other relevant issues and to invite their comments and attendance at the meetings.

## **8.5 ADDITIONAL TRIBAL REQUIREMENTS**

Additional tribal requirements for monitoring the progress of mitigation activities, as stipulated in DMA 2000 and its implementing regulations, are described below.

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

#### **Monitoring Progress of Mitigation Activities**

**Requirement § 201.7(c)(4)(ii), Requirement § 201.7(c)(4)(v):** [The plan maintenance process shall include a] system for monitoring implementation of mitigation measures and project closeouts; and a system for reviewing progress on achieving goals as well as activities and projects identified in the mitigation strategy.

#### **Element**

- Does the new or updated plan describe how mitigation measures and project closeouts will be monitored?
- Does the new or updated plan identify a system for reviewing progress on achieving goals and implementing activities and projects in the Mitigation Strategy?

Source: FEMA 2008.

The grant writer for the Tulare River Tribe will manage mitigation projects and project closeouts for mitigation projects that are funded by federal and state grant programs. For projects that are not funded by grants, project administration will be handled by the tribal department that is responsible for project implementation (e.g., the Fire Department or the Environmental Department). The Tribal Council will review progress made on achieving goals and implementing activities and projects identified in the mitigation action plan during their quarterly Tribal Council Meetings.

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**Appendix A**  
**FEMA Crosswalk**

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## 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.:**

<b>Example</b>				
<b>Assessing Vulnerability: Overview</b>				
<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	Submitting Jurisdiction input in Green. State comments in Blue. FEMA requirements & reviewer comments in Red. 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"/>	<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"/>	<input type="checkbox"/>
<b>SUMMARY SCORE</b>			<input type="checkbox"/>	<input type="checkbox"/>

# 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

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

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

### 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)

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

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

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

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

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

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

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

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

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

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

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

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

<input type="checkbox"/>	<input type="checkbox"/>
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\*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"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<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"/>

### State

Multi-jurisdictional:  
Letter of Commitment for each jurisdiction

Summary of mitigation projects

Summary of hazards

<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

### TABLE A: SUMMARY OF MITIGATION ACTIONS

This table will assist FEMA and the State in identifying potential projects, actions or strategies for various mitigation grant programs and whether the identified projects, actions or strategies are consistent with State and Local Jurisdiction Hazard Mitigation Plans. Local jurisdictions may find the table useful to ensure that their plan addresses each hazard that can affect the jurisdiction and possible actions to reduce risk to their respective community. **Completing this table is required.** *Identifying Mitigation Actions §201.6(c)(3)(iii).*

A	B	C	D	E	F	G	H	I
Mitigation Action by Grant Activity Type	Page # – Location in Plan Where Actions are Identified	Total # of Projects All Hazards	Flood Hazard Project # Only	Fire Hazard Project # Only	Earthquake Hazard Project # Only	Tsunami Hazard Project # Only	Severe Winter Storm Project # Only	Other Hazard Project # Only
General Mitigation Project	Page 7-5 and G-109 (as well as appendices G-Q)	5	2	0	0	0	0	3
Property Acquisition and Structural Demolition	NA	0	0	0	0	0	0	0
Property Acquisition and Structural Relocation	Page 7-4 (as well as appendices G-Q)	2	2	0	0	0	0	0
Structural Elevation	Page 7-4 and 7-5 (as well as appendices G-Q)	3	3	0	0	0	0	0
Mitigation Reconstruction	NA	0	0	0	0	0	0	0
Dry Floodproofing of Historic Residential Structures	NA	0	0	0	0	0	0	0
Dry Floodproofing of Non-residential Structures	Page 7-4 (as well as appendices G-Q)	1	1	0	0	0	0	0
Minor Localized Flood Reduction Projects	Page 7-4 and 7-5 (as well as appendices G-Q)	3	3	0	0	0	0	0
Structural retrofitting of Existing Buildings	Page 7-4 (as well as appendices G-Q)	1	0	0	1	0	0	0
Non-structural Retrofitting of Existing Buildings and Facilities	Page 7-6 (as well as appendices G-Q)	1	0	0	0	0	1	0
Infrastructure Retrofit	Page 7-4 and 7-5 (as well as appendices G-Q)	2	1	0	1	0	0	0
Soil Stabilization	Page 7-5 (as well as appendices G-Q)	1	0	0	0	0	0	1
Wildfire Mitigation	Page 7-6 and G-109 (as well as appendices G-Q)	5	0	5	0	0	0	0
Post-Disaster Code Enforcement	NA	0	0	0	0	0	0	0
Hazard Mitigation Planning	Page 7-4, 7-6 and G-109 (as well as appendices G-Q)	7	2	1	0	0	0	4
Vegetation Management	Page 7-5 and 7-6 (as well as appendices G-Q)	4	0	2	0	0	2	0

Legend:

§201.6(c)(3)(iii) Mitigation Actions

- A. Type of eligible activity per the FEMA Hazard Mitigation Assistance Unified Guidance for HMGP, PDM, FMA, SRL, and RFC.
- B. List each page where project/s or activities can be found in the community's Local Hazard Mitigation Plan.

C. Total number of projects that would fall under this Grant Activity Type (combining all disaster project types Columns D-H).

D – H. Number of projects specific to this type of Hazard.

H. If this Column is used, identify Hazard Type and project by using "Other" in Column A.

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

**Local Mitigation Plan Review and Approval Status**

<b>Jurisdiction:</b> Tulare County, City of Dinuba, City of Exeter, City of Farmersville, City of Lindsay, City of Porterville, City of Tulare, City of Visalia, City of Woodlake, Tulare County Office of Education.	<b>Title of Plan:</b> Tulare County Hazard Mitigation Plan (Final Draft Plan, June 2011)	<b>Date of Plan:</b> July 2011
<b>Local Point of Contact:</b> Amber Smith	<b>Address:</b> Tulare County Health & Human Services Agency 5957 S. Mooney Blvd. Visalia, CA 93277	
<b>Title:</b> Office of Emergency Services Manager		
<b>Agency:</b> Tulare County Health & Human Services Agency		
<b>Phone Number:</b> (559) 624-7497	<b>E-Mail:</b> AMSmith@tularehhsa.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>		

	dFIRM in plan?	Adopted	Participating	Risk Assessment	Mitigation Action	NFIP Status			
	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	N/A	CRS Review Y/N	CRS Class
1. Tulare County									
2. City of Dinuba									

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

3. City of Exeter									
4. City of Farmersville									
5. City of Lindsay									
6. City of Porterville									
7. City of Tulare									
8. City of Visalia									
9. City of Woodlake									

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

## 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?	Section 1.5			
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>				

## LOCAL MITIGATION PLAN REVIEW CROSSWALK

### 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
A. Does the <b>new or updated</b> plan describe <b>how</b> each jurisdiction participated in the plan's development?	Section 3.5			
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 <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 3.4, 3.5			
B. 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 3.6			
C. <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 3.6			

## 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.*

	Location in the	Reviewer's Comments	SCORE	
			N	S
D. Does the planning process describe the review and incorporation, if appropriate, of existing plans, studies, reports, and technical information?	Section 3.7			
E. Does the plan provide a narrative description of the process followed to prepare the <b>new or updated</b> plan?	Section 3.2, 3.3, 3.4, 3.5			
F. <b>Does the updated plan document how the planning team reviewed and analyzed each section of the plan and whether each section was revised as part of the update process?</b>	NA – not an update			
<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.*

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 <b>description</b> of the types of <b>all natural hazards</b> that affect the jurisdiction?	Section 4.2 (Table 4.1, 4.2)			
<b>SUMMARY SCORE</b>				



## LOCAL MITIGATION PLAN REVIEW CROSSWALK

### 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.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the risk assessment identify the <b>location</b> (i.e., 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 - Avalanche 4.3.2 - Biological Hazards 4.3.3 – Civil disturbance 4.3.4 – Earthquake 4.3.5 – Energy Emergency 4.3.6 - Flooding: Riverine, Dam failure and Levee failure 4.3.7 – Fog 4.3.8 – Hazardous materials 4.3.9 - Heat 4.3.10 – Landslide/ Mudslide 4.3.11 - Post-fire debris flow 4.3.12 - Severe winter storm 4.3.13 – Terrorism 4.3.14 – Volcano 4.3.15 - Wildfire			
B. Does the risk assessment identify the <b>extent</b> (i.e., magnitude or severity) of each hazard addressed in the <b>new or updated</b> plan?	Subheader "extent" for each of the following: 4.3.1 - Avalanche 4.3.2 - Biological Hazards 4.3.3 – Civil disturbance 4.3.4 – Earthquake 4.3.5 – Energy Emergency 4.3.6 - Flooding: Riverine, Dam failure and Levee failure 4.3.7 – Fog 4.3.8 – Hazardous materials			

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

	<p>4.3.9 - Heat                  4.3.10 – Landslide/                  Mudslide                  4.3.11 - Post-fire                  debris flow                  4.3.12 - Severe winter                  storm                  4.3.13 – Terrorism                  4.3.14 – Volcano                  4.3.15 - 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 - Avalanche                  4.3.2 - Biological                  Hazards                  4.3.3 – Civil                  disturbance                  4.3.4 – Earthquake                  4.3.5 – Energy                  Emergency                  4.3.6 - Flooding:                  Riverine, Dam                  failure and Levee                  failure                  4.3.7 – Fog                  4.3.8 – Hazardous                  materials                  4.3.9 - Heat                  4.3.10 – Landslide/                  Mudslide                  4.3.11 - Post-fire                  debris flow                  4.3.12 - Severe winter                  storm                  4.3.13 – Terrorism                  4.3.14 – Volcano                  4.3.15 -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                  "probability of future                  events" for each of the                  following:                  4.3.1 - Avalanche                  4.3.2 - Biological                  Hazards                  4.3.3 – Civil                  disturbance                  4.3.4 – Earthquake                  4.3.5 – Energy                  Emergency                  4.3.6 - Flooding:                  Riverine, Dam                  failure and Levee</p>			

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

	failure 4.3.7 – Fog 4.3.8 – Hazardous materials 4.3.9 - Heat 4.3.10 – Landslide/ Mudslide 4.3.11 - Post-fire debris flow 4.3.12 - Severe winter storm 4.3.13 – Terrorism 4.3.14 – Volcano 4.3.15 - 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 Q, 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 Q, 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
A. Does the <b>new or updated</b> plan describe vulnerability in terms of the types and numbers of <b>repetitive loss properties</b> located in the identified hazard areas?	Section 5.6 (overview only), local-participant-specific appendix for Tulare County (Appendix G) and the cities of Exeter (Appendix I) and Woodlake (Appendix O).	<b>Note: This requirement becomes effective for all local plans approved after October 1, 2008.</b>		
<b>SUMMARY SCORE</b>				

## LOCAL MITIGATION PLAN REVIEW CROSSWALK

### 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
A. Does the <b>new or updated</b> plan describe vulnerability in terms of the <b>types and numbers</b> of <b>existing</b> buildings, infrastructure, and critical facilities located in the identified hazard areas?	Section 5.5 (overview only); Appendix G through Q (local-participant-specific tables).	<b>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</b>		
B. Does the <b>new or updated</b> plan describe vulnerability in terms of the <b>types and numbers</b> of <b>future</b> buildings, infrastructure, and critical facilities located in the identified hazard areas?	No.	<b>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</b>		
<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
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 Q (local-participant-specific tables).	<b>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</b>		
B. Does the <b>new or updated</b> plan describe the <b>methodology</b> used to prepare the estimate?	Section 5.3	<b>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</b>		
<b>SUMMARY SCORE</b>				

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

**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?	Section 1.5.12	<b>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</b>		
<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 Q (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 – Q (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 – Q (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 – Q (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 4.3.6	<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 # 10 and 11	<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 <b>new or updated</b> mitigation strategy include how the actions are <b>prioritized</b> ? (For example, is there a discussion of the process and criteria used?)	Section 7.4, Appendix G – Q (local-participant-specific tables).			
B. Does the <b>new or updated</b> 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 – Q (local-participant-specific tables).			
C. Does the <b>new or updated</b> prioritization process include an emphasis on the use of a <b>cost-benefit review</b> to maximize benefits?	Section 7.4 (prioritization criteria)			
D. 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?	Not Applicable – not a plan update			
<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 – Q (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?	Not Applicable – not a plan update			
<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 8.2			
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 8.2			
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 8.2			
<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 8.3			
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 8.3			
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?	Not Applicable – not a plan update			
<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.

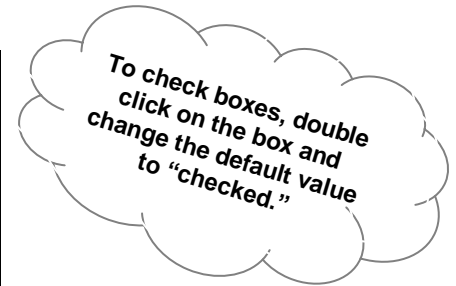
Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the <b>new or updated</b> plan explain how <b>continued public participation</b> will be obtained? (For example, will there be public notices, an on-going mitigation plan committee, or annual review meetings with stakeholders?)	Section 8.4			
<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?
- D. Does the plan include the probability of future events (*i.e.*, chance of occurrence) for each hazard addressed in the plan?

# LOCAL MITIGATION PLAN REVIEW CROSSWALK

## 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	
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"/>
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"/>
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"/>
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"/>
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"/>
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"/>
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"/>
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"/>
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"/>
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"/>
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"/>
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"/>
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"/>
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"/>
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"/>
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"/>
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"/>
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"/>
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"/>
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"/>
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"/>
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"/>

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

§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?

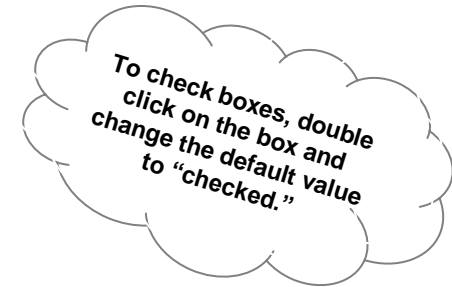
# LOCAL MITIGATION PLAN REVIEW CROSSWALK

## 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?

**Instructions for Using the Plan Review Crosswalk for Review of Tribal Multi-Hazard Mitigation Plans**

Attached is a Plan Review Crosswalk based on the *Tribal Multi-Hazard Mitigation Planning Guidance*, published by FEMA, dated March 2010. This Plan Review Crosswalk is consistent with the Section 322 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act (Stafford Act), as amended by 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 November 30, 2009.

**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, reviewers may want to put an N/A in the prerequisite box for single jurisdiction plans. Indian Tribal governments or States that have additional requirements can add them in the appropriate sections of the *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.

**Example**

**Assessing Vulnerability: Overview**

**Requirement 201.7(c)(2)(ii):** *[The risk assessment shall include a] description of the Indian Tribal government’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 tribe.*

Element	Location in the Plan (section or annex and page #)	Reviewer’s Comments	SCORE	
			N	S
A. Does the plan include an <b>overall summary</b> description of the Indian tribe’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.		✓
B. Does the plan address the <b>impact</b> of each hazard on the Indian tribe?	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.	✓	
<b>SUMMARY SCORE</b>			✓	

Indian Tribal Government: Tule River Indian Tribe

Tribal Mitigation Plan Review and Approval Status		
<b>Tribe:</b> Tule River Indian Tribe	<b>Title of Plan:</b> Tulare County Hazard Mitigation Plan (Final Draft Plan, June 2011)	<b>Date of Plan:</b> June 2011
<b>Tribal Point of Contact:</b> Amber Smith	<b>Address:</b> Tulare County Health & Human Services Agency 5957 S. Mooney Blvd. Visalia, CA 93277	
<b>Title:</b> Office of Emergency Services Manager		
<b>Agency:</b> Tulare County Health & Human Services Agency		
<b>Phone Number:</b> (559) 624-7497	<b>E-Mail:</b> AMSmith@tularehhsa.org	

<b>State Reviewer (if applicable):</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>		

Additional Indian Tribal Governments (if appropriate):	DFIRM		NFIP Status*			CRS Class
	In Plan	NOT In Plan	Y	N	N/A	
1.						
2.						
3.						
4.						
5. [ATTACH PAGE(S) WITH ADDITIONAL INDIAN TRIBAL GOVERNMENTS]						

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

**TRIBAL MULTI-HAZARD 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.

**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.

**Planning Process**

	N	S
1. Documentation of the Planning Process: 201.7(b) and 201.7(c)(1)(i) and (ii)		
2. Program Integration: 201.7(c)(1)(iii) and (iv)		

**Risk Assessment**

	N	S
3. Identifying Hazards: 201.7(c)(2)(i)		
4. Profiling Hazards: 201.7(c)(2)(i)		
5. Assessing Vulnerability: Overview: 201.7(c)(2)(ii)		
6. Assessing Vulnerability: Identifying Structures: 201.7(c)(2)(ii)(A)		
7. Assessing Vulnerability: Estimating Potential Losses: 201.7(c)(2)(ii)(B)		
8. Assessing Vulnerability: Analyzing Development Trends: 201.7(c)(2)(ii)(C)		
9. Assessing Vulnerability: Assessing Cultural and Sacred sites: 201.7(c)(2)(ii)(D)		

**Mitigation Strategy**

	N	S
10. Tribal Multi-Hazard Mitigation Goals: 201.7(c)(3)(i)		
11. Identification and Analysis of Tribal Mitigation Actions: 201.7(c)(3)(ii)		
12. Implementation of Tribal Mitigation Actions: 201.7(c)(3)(iii)		
13. Tribal Capability Assessment: 201.7(c)(3)(iv)		
14. Tribal Funding Sources: 201.7(c)(3)(v)		

**Plan Maintenance Process**

	N	S
15. Monitoring, Evaluating, and Updating the Plan: 201.7(c)(4)(i)		
16. Monitoring Progress of Mitigation Activities: 201.7(c)(4)(ii) and 201.7(4)(v)		
17. Incorporation into Existing Planning Mechanisms: 201.7(c)(4)(iii)		
18. Continued Member and Stakeholder Involvement: 201.7(c)(4)(iv)		

**Prerequisites**

	NOT MET	MET
19. Adoption by the Tribal Governing Body : 201.7(c)(5) and (c)(6) <b>[single Indian Tribal government only]</b>		
20. Multi-Jurisdictional Plan Adoption: 201.7(a)(4), (c)(5) and(c)(6) <b>[multi-jurisdictional only]</b>		
21. Multi-Jurisdictional Planning Participation: 201.7(a)(4) <b>[multi-jurisdictional only]</b>		

**Severe Repetitive Loss Strategy (Optional)**

	N	S
22. Repetitive Loss Strategy: 201.7(c)(3)(vi)		

**TRIBAL MITIGATION PLAN APPROVAL STATUS**

PLAN NOT APPROVED

See Reviewer’s Comments

PLAN APPROVED



**PLANNING PROCESS:** 201.7(b): An effective planning process is essential in developing and maintaining a good plan. The mitigation planning process should include coordination with other tribal agencies, appropriate Federal agencies, adjacent jurisdictions, interested groups, and be integrated to the extent possible with other ongoing tribal planning efforts as well as other FEMA mitigation programs and initiatives.

**1. Documentation of the Planning Process**

**Requirement 201.7(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 defined and involved. This **shall** include:

- (i) An opportunity for the public to comment on the plan during the drafting stage and prior to plan approval, including a description of how the Indian Tribal government defined “public;” and
- (ii) As appropriate, an opportunity for neighboring communities, tribal 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 nonprofit interests to be involved in the planning process.

Element	Location in the Plan (section or annex and page #)	Reviewer’s Comments	SCORE	
			N	S
A. Does the plan provide a narrative <b>description of the process</b> followed to prepare the new or updated plan?	Section 3.2, 3.3, 3.4, 3.5			
B. Does the new or updated plan indicate <b>who was involved</b> in the current planning process?	Section 3.4, 3.5			
C. Does the new or updated plan indicate <b>how the “public” was defined and involved?</b> How was the “public” defined? How was the “public” involved? Were they provided an opportunity to comment on the plan during the drafting stage and prior to the plan approval?	Section 3.6.1			
D. Does the new or updated plan discuss the opportunity for other Indian Tribal governments, tribal and regional agencies, businesses, academia, nonprofits, neighboring communities, and other affected stakeholders and interested parties to be involved in the planning process?	Section 3.6			
E. Does the updated plan document how the planning team reviewed and analyzed each section of the plan? <b>[Updates only.]</b>	NA – not a plan update			
F. Does the updated plan indicate for each section of the plan whether or not it was revised as part of the update process? <b>[Updates only.]</b>	NA – not a plan update			
<b>SUMMARY SCORE</b>				

**2. Program Integration**

**Requirement 201.7(c)(1)(iii) and (iv):** *[The plan shall:]*

*[include] (iii) Review and incorporation, if appropriate, of existing plans, studies, and reports; and*

*(iv) Be integrated to the extent possible with other ongoing tribal planning efforts as well as other FEMA programs and initiatives.*

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 review and incorporation, if appropriate, of existing plans, studies, and reports in the new or updated plan?	Section 8.5			
B. Does the new or updated plan describe how the Indian tribal mitigation plan is <b>integrated with other ongoing Indian tribal planning efforts?</b>	Section 8.3, 8.5			
C. Does the new or updated plan describe how the Indian tribal mitigation planning process is <b>integrated with FEMA mitigation programs and initiatives?</b>	Section 8.3, 8.5			
<b>SUMMARY SCORE</b>				

**RISK ASSESSMENT: 201.7(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. Tribal risk assessments must provide sufficient information to enable the Indian Tribal government to identify and prioritize appropriate mitigation actions to reduce losses from identified hazards.*

**3. Identifying Hazards**

**Requirement 201.7(c)(2)(i):** *[The risk assessment shall include a] description of the type ... of all natural hazards that can affect the tribal planning area.*

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 <b>tribal planning area?</b>	Section 1.5.11			
B. Does the new or updated plan include a description of the <b>types of all natural hazards</b> that affect the tribal planning area?	Section 4.2 (Table 4.1, 4.2)			
<b>SUMMARY SCORE</b>				

**4. Profiling Hazards**

**Requirement 201.7(c)(2)(i):** [The risk assessment **shall** include a] description of the ... location and extent of all natural hazards that can affect the tribal planning area. The plan **shall** include information on previous occurrences of hazard events and on the probability of future hazard events.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
<p>A. Does the risk assessment identify the <b>location</b> (i.e., geographic area affected) of each natural hazard addressed in the new or updated plan?</p>	<p>Subheader "location" for each of the following:                      4.3.1 - Avalanche                      4.3.2 - Biological Hazards                      4.3.3 - Civil disturbance                      4.3.4 - Earthquake                      4.3.5 - Energy Emergency                      4.3.6 - Flooding: Riverine, Dam failure and Levee failure                      4.3.7 - Fog                      4.3.8 - Hazardous materials                      4.3.9 - Heat                      4.3.10 - Landslide/ Mudslide                      4.3.11 - Post-fire debris flow                      4.3.12 - Severe winter storm                      4.3.13 - Terrorism                      4.3.14 - Volcano                      4.3.15 - Wildfire</p>			
<p>B. Does the risk assessment identify the <b>extent</b> (i.e., magnitude or severity) of each hazard addressed in the new or updated plan?</p>	<p>Subheader "extent" for each of the following:                      4.3.1 - Avalanche                      4.3.2 - Biological Hazards                      4.3.3 - Civil disturbance                      4.3.4 - Earthquake                      4.3.5 - Energy Emergency                      4.3.6 - Flooding: Riverine, Dam failure and Levee failure                      4.3.7 - Fog                      4.3.8 - Hazardous materials                      4.3.9 - Heat                      4.3.10 - Landslide/ Mudslide                      4.3.11 - Post-fire debris flow                      4.3.12 - Severe winter storm                      4.3.13 - Terrorism                      4.3.14 - Volcano                      4.3.15 - Wildfire</p>			

Indian Tribal Government: Tule River Indian Tribe

<p>C. Does the new or updated plan provide information on <b>previous occurrences</b> of each hazard addressed in the plan?</p>	<p>Subheader "history" for each of the following:                      4.3.1 - Avalanche                      4.3.2 - Biological Hazards                      4.3.3 - Civil disturbance                      4.3.4 - Earthquake                      4.3.5 - Energy Emergency                      4.3.6 - Flooding: Riverine, Dam failure and Levee failure                      4.3.7 - Fog                      4.3.8 - Hazardous materials                      4.3.9 - Heat                      4.3.10 - Landslide/ Mudslide                      4.3.11 - Post-fire debris flow                      4.3.12 - Severe winter storm                      4.3.13 - Terrorism                      4.3.14 - Volcano                      4.3.15 -Wildfire</p>			
<p>D. Does the new or updated plan include the <b>probability of future events</b> (i.e., chance of occurrence) for each hazard addressed in the plan?</p>	<p>Subheader "probability of future events" for each of the following:                      4.3.1 - Avalanche                      4.3.2 - Biological Hazards                      4.3.3 - Civil disturbance                      4.3.4 - Earthquake                      4.3.5 - Energy Emergency                      4.3.6 - Flooding: Riverine, Dam failure and Levee failure                      4.3.7 - Fog                      4.3.8 - Hazardous materials                      4.3.9 - Heat                      4.3.10 - Landslide/ Mudslide                      4.3.11 - Post-fire debris flow                      4.3.12 - Severe winter storm                      4.3.13 - Terrorism                      4.3.14 - Volcano                      4.3.15 - Wildfire</p>			
<p>E. Does the updated plan address data deficiencies, if any, noted in the previously approved plan?</p>	<p>NA – not a plan update</p>			
<b>SUMMARY SCORE</b>				

**5. Assessing Vulnerability: Overview**

**Requirement 201.7(c)(2)(ii):** *[The risk assessment shall include a] description of the Indian Tribal government'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 tribe.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the new or updated plan include an <b>overall summary</b> description of the Indian tribe's <b>vulnerability</b> to each hazard?	Appendix Q, tables Q-3 through Q-6 (hazards not addressed mean that Reservation is not located in hazard area)			
B. Does the new or updated plan address the <b>impact</b> of each hazard on the Indian tribe?	Appendix Q, Table Q-5 and Q-6			
<b>SUMMARY SCORE</b>				

**6. Assessing Vulnerability: Identifying Structures**

**Requirement 201.7(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 areas.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the new or updated plan describe vulnerability in terms of the <b>types and numbers of existing</b> buildings, infrastructure, and critical facilities located in the identified hazard areas?	Appendix Q, tables Q-3 through Q-6	<b>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</b>		
B. Does the new or updated plan describe vulnerability in terms of the <b>types and numbers of future</b> buildings, infrastructure, and critical facilities located in the identified hazard areas?	No.	<b>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</b>		
<b>SUMMARY SCORE</b>				

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

**Requirement 201.7(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
A. Does the new or updated plan estimate <b>potential dollar losses</b> to vulnerable structures?	Appendix Q, tables Q-3 through Q-6	<b>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</b>		
B. Does the new or updated plan describe the <b>methodology</b> used to prepare the estimate?	Section 5.3	<b>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</b>		
C. Does the updated plan reflect the effects of <b>changes in development</b> on loss estimates?	No.	<b>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</b>		
<b>SUMMARY SCORE</b>				

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

**Requirement 201.7(c)(2)(ii)(C):** [The plan **should** describe vulnerability in terms of a] general description of land uses and development trends within the tribal planning area 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 new or updated plan describe land uses and development trends within the tribal planning area?	Section 1.5.12	<i>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</i>		
B. Does the updated plan reflect changes in development for tribal lands in hazard prone areas within the tribal planning area?	NA – not a plan update	<i>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</i>		
<b>SUMMARY SCORE</b>				

**9. Assessing Vulnerability: Assessing Cultural and Sacred Sites**

**Requirement 201.7(c)(2)(ii)(D):** [The plan **should** describe vulnerability in terms of] cultural and sacred sites that are significant, even if they cannot be valued in monetary terms.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the new or updated plan describe significant cultural and sacred sites that are located in hazard areas?	Section 5.8	<i>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</i>		
<b>SUMMARY SCORE</b>				

**MITIGATION STRATEGY:** 201.7(c)(3): *[The plan shall include a] mitigation strategy that provides the Indian Tribal government’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.*

**10. Tribal Multi-Hazard Mitigation Goals**

**Requirement 201.7(c)(3)(i):** *[The 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 new or updated 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. Does the updated plan demonstrate that the goals were evaluated and either remain valid or have been revised?	NA – not a plan update			
<b>SUMMARY SCORE</b>				

**11. Identification and Analysis of Tribal Mitigation Actions**

**Requirement 201.7(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 new or updated plan identify and analyze a <b>comprehensive range</b> of specific mitigation actions and projects for each hazard?	Section 7.3, Table 7-2			
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			
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			
<b>SUMMARY SCORE</b>				



**12. Implementation of Tribal Mitigation Actions**

**Requirement: 201.7(c)(3)(iii):** [The mitigation strategy **shall** include an] action plan describing how the actions identified in section (c)(3)(ii) will be prioritized, implemented, and administered by the Indian Tribal government.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the mitigation strategy in the new or updated plan include how the actions are <b>prioritized</b> ? (For example, is there a discussion of the process and criteria used?)	Appendix Q, Table I-11			
B. Does the mitigation strategy in the new or updated plan address how the actions will be <b>implemented and administered</b> , including the responsible agency, existing or potential resources, and the timeframe to complete each action?	Appendix Q, Table I-12			
C. 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.e., deferred), does the updated plan describe why no changes occurred?	NA – not a plan update			
<b>SUMMARY SCORE</b>				

**13. Tribal Capability Assessment**

**Requirement 201.7(c)(3)(iv):** [The mitigation strategy **shall** include a] discussion of the Indian Tribal government's pre- and post-disaster hazard management policies, programs, and capabilities to mitigate the hazards in the area, including: An evaluation of tribal laws, regulations, policies, and programs related to hazard mitigation as well as to development in hazard-prone areas; and a discussion of tribal funding capabilities for hazard mitigation projects.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the new or updated plan include an evaluation of the Indian Tribal government's <b>pre-disaster hazard management</b> laws, regulations, policies, programs, and capabilities?	Appendix Q, Table Q-7, Q-8, Q-9, Q-10			
B. Does the new or updated plan include an evaluation of the Indian Tribal government's <b>post-disaster hazard management</b> laws, regulations, policies, programs, and capabilities?	Appendix Q, Table Q-7, Q-8, Q-9, Q-10			
C. Does the new or updated plan include an evaluation of the Indian Tribal government's laws, regulations, policies, programs, and capabilities <b>related to development</b> in hazard prone areas?	Appendix Q, Table Q-9			
D. Does the new or updated plan include a discussion of the Indian Tribal government's <b>funding capabilities</b> for hazard mitigation projects?	Appendix Q, Table Q-8			
E. Does the updated plan address any hazard management laws, policies, programs, capabilities, or funding capabilities of the Indian Tribal government's that have changed since approval of the previous plan?	NA – not a plan update			
<b>SUMMARY SCORE</b>				

**14. Tribal Funding Sources**

**Requirement 201.7(c)(3)(v):** [The mitigation strategy **shall** include an] identification of current and potential sources of Federal, tribal, or private funding to implement mitigation activities.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the new or updated plan identify <b>current</b> sources of Federal, tribal, or private funding to implement mitigation activities?	Appendix Q, Table Q-8			
B. Does the new or updated plan identify <b>potential</b> sources of Federal, tribal, or private funding to implement mitigation activities?	Appendix Q, Table Q-8			
C. Does the updated plan identify the sources of mitigation funding used to implement activities in the mitigation strategy since approval of the previous plan?	NA – not a plan update			
<b>SUMMARY SCORE</b>				

**PLAN MAINTENANCE PROCESS**

**15. Monitoring, Evaluating, and Updating the Plan**

**Requirement 201.7(c)(4)(i):** [The plan maintenance process **shall** include a] section describing the method and schedule of monitoring, evaluating, and updating the mitigation plan.

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 method and schedule for <b>monitoring</b> the plan, including how, when, and by whom (e.g., the responsible agency)?	Section 8.2 and 8.5			
B. Does the new or updated plan describe the method and schedule for <b>evaluating</b> the plan, including how, when, and by whom (e.g., the responsible agency)?	Section 8.2 and 8.5			
C. Does the new or updated plan describe the method and schedule for <b>updating</b> the plan, including how, when, and by whom (e.g., the responsible agency), within the 5-year cycle?	Section 8.2 and 8.5			
D. Does the updated plan include an analysis of whether the previously approved plan's method and schedule worked, and what elements or processes, if any, were changed for the next 5 years?	NA – not a plan update			
<b>SUMMARY SCORE</b>				

**16. Monitoring Progress of Mitigation Activities**

**Requirement 201.7(c)(4)(ii):** [The plan maintenance process **shall** include a] system for monitoring implementation of mitigation measures and project closeouts.

**Requirement 201.7(c)(4)(v):** [The plan maintenance process **shall** include a] system for reviewing progress on achieving goals as well as activities and projects identified in the mitigation strategy.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the new or updated plan describe how mitigation measures and project closeouts will be <b>monitored</b> ?	Section 8.2, 8.5 and Appendix F			
B. Does the new or updated plan identify a <b>system for reviewing progress</b> on achieving goals and implementing activities and projects in the Mitigation Strategy?	Section 8.2, 8.5 and Appendix F			
C. Does the updated plan describe any modifications, if any, to the system identified in the previously approved plan to track the initiation, status, and completion of mitigation activities?	NA – not a plan update			
D. Does the updated plan discuss whether mitigation actions were implemented as planned?	NA – not a plan update			
<b>SUMMARY SCORE</b>				

**17. Incorporation into Existing Planning Mechanisms**

**Requirement 201.7(c)(4)(iii):** [The plan maintenance process **shall** include a] process by which the Indian Tribal government incorporates the requirements of the mitigation plan into other planning mechanisms such as reservation master plans 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 new or updated plan identify <b>other tribal planning mechanisms</b> available for incorporating the requirements of the mitigation plan?	Section 8.5			
B. Does the new or updated plan include a <b>process by which the Indian Tribal government will incorporate the mitigation strategy</b> and other information contained in the plan (e.g., risk assessment) into other planning mechanisms, when appropriate?	Section 8.3, 8.5			
<b>SUMMARY SCORE</b>				

**18. Continued Member and Stakeholder Involvement**

**Requirement 201.7(c)(4)(iv):** *[The plan maintenance process shall include a] discussion on how the Indian Tribal government 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 new or updated 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 8.4			
<b>SUMMARY SCORE</b>				

**PREREQUISITES**

**19. Adoption by the Tribal Governing Body (Single Indian Tribal government)**

**Requirement 201.7(c)(5):** *The plan must be formally adopted by the governing body of the Indian Tribal government prior to submitting to FEMA for final review and approval.*

**Requirement 201.7(c)(6):** *[The plan must include] assurances that the Indian Tribal government will comply with all applicable Federal statutes and regulations in effect with respect to the periods for which it receives grant funding, in compliance with 13.11(c) of this chapter. The Indian Tribal government will amend its plan whenever necessary to reflect changes in tribal or Federal laws and statutes as required in 13.11(d) of this chapter.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			NOT MET	MET
A. Has the Indian tribal governing body formally adopted the new or updated plan?	No – draft plan for courtesy review only			
B. Is supporting documentation, such as a resolution, included with the new or updated plan?	No – draft plan for courtesy review only			
C. Does the new or updated plan provide assurances that the Indian Tribal government will continue to comply with all applicable Federal statutes and regulations during the periods for which it receives grant funding, in compliance with 44 CFR 13.11(c), and will amend its plan whenever necessary to reflect changes in tribal or Federal laws and statutes as required in 44 CFR 13.11(d)?	Section 2.2			
<b>SUMMARY SCORE</b>				

**20. Multi-Jurisdictional Plan Adoption (Multiple Indian Tribal governments)**

**Requirement 201.7(a)(4):** Multi-jurisdictional plans (e.g., county-wide or watershed plans) may be accepted, as appropriate, as long as each Indian Tribal government...has officially adopted the plan.

**Requirement 201.7(c)(5):** The plan **must** be formally adopted by the governing body of the Indian Tribal government prior to submittal to FEMA for final review and approval.

**Requirement 201.7(c)(6):** [The plan **must** include] assurances that the Indian Tribal government will comply with all applicable Federal statutes and regulations in effect with respect to the periods for which it receives grant funding, in compliance with 13.11(c) of this chapter. The Indian Tribal government will amend its plan whenever necessary to reflect changes in tribal or Federal laws and statutes as required in 13.11(d) of this chapter.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			NOT MET	MET
A. Does the new or updated plan indicate the specific Indian Tribal government(s) represented in the plan?	NA			
B. For each Indian Tribal government(s), has the governing body adopted the new or updated plan?	NA			
C. Is supporting documentation, such as a resolution, included for each participating Indian Tribal government(s)?	NA			
D. Does the new or updated plan provide assurances that the Indian Tribal government will continue to comply with all applicable Federal statutes and regulations during the periods for which it receives grant funding, in compliance with 44 CFR 13.11(c), and will amend its plan whenever necessary to reflect changes in tribal or Federal laws and statutes as required in 44 CFR 13.11(d)?	NA			
<b>SUMMARY SCORE</b>				

**21. Multi-Jurisdictional Planning Participation (*Multiple Indian Tribal governments*)**

**Requirement 201.7(a)(4):** Multi-jurisdictional plans (e.g., county-wide or watershed plans) may be accepted, as appropriate, as long as each Indian Tribal government has participated in the process... Indian Tribal governments must address all the elements identified in [44 CFR 201.7] to ensure eligibility as a grantee or as a subgrantee.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			NOT MET	MET
A. Does the new or updated plan describe <b>how</b> each Indian Tribal government participated in the plan's development?	NA			
B. Does the updated plan identify all participating Indian Tribal governments, including new and continuing Indian Tribal government(s) and any Indian Tribal government(s) that no longer participate in the plan?	NA			
C. Does each participating Indian Tribal government participating in the new or updated mitigation plan meet all of the elements identified in the Tribal Multi-Hazard Mitigation Plan Review Crosswalk for their tribal planning area? Has a separate crosswalk for participating Indian Tribal government(s) been completed, and are all elements "Met" or "S"?	NA			
<b>SUMMARY SCORE</b>				

**REPETITIVE LOSS STRATEGY (OPTIONAL)**

**22. Repetitive Loss Strategy**

**Requirement 201.7(c)(3)(vi):** An Indian Tribal government applying to FEMA as a grantee may request the reduced cost share authorized under 79.4(c)(2) of this chapter of the FMA and SRL programs if they have an approved Tribal Mitigation Plan meeting the requirements of this section that also identifies actions the Indian Tribal government has taken to reduce the number of repetitive loss properties (which must include severe repetitive loss properties), and specifies how the Indian Tribal government intends to reduce the number of such repetitive loss properties. **[Note: While submittal of a Repetitive Loss Strategy is optional, if the Indian Tribal government wants to request the reduced cost share authorized under 44 CFR 79.4(c)(2) for the FMA and SRL programs as a grantee, then all of the following requirements must be met.]**

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
Does the new or updated plan address repetitive loss properties in its risk assessment (see 201.7(c)(2))?	Section 5.6	<i>[Note: Only required for SRL 90/10 under FMA &amp; SRL]</i>		
Does the new or updated plan describe the Indian Tribal government's mitigation goals that support the selection of mitigation activities for repetitive loss properties (see 201.7(c)(3)(i))?	Section 7.2 (Table 7-1)	<i>[Note: Only required for SRL 90/10 under FMA &amp; SRL]</i>		
Does the new or updated plan identify mitigation actions for repetitive loss properties (see 201.7(c)(3)(iii))?	Appendix Q, Table Q-11	<i>[Note: Only required for SRL 90/10 under FMA &amp; SRL]</i>		
Does the new or updated plan describe specific actions that have been implemented to mitigate repetitive loss properties, including actions taken to reduce the number of severe repetitive loss properties?	Appendix Q, Table Q-10	<i>[Note: Only required for SRL 90/10 under FMA &amp; SRL]</i>		
Does the new or updated plan consider repetitive loss properties in its evaluation of the Indian Tribal government's hazard management laws, regulations, policies, programs, and capabilities and its general description of mitigation capabilities (see 201.7(c)(3)(iv))?	Appendix Q, Table Q-9	<i>[Note: Only required for SRL 90/10 under FMA &amp; SRL]</i>		
Does the new or updated plan identify current and potential sources of Federal, tribal, or private funding to implement mitigation activities for repetitive loss properties (see 201.7(c)(3)(v))?	Appendix Q, Table Q-8	<i>[Note: Only required for SRL 90/10 under FMA &amp; SRL]</i>		
<b>SUMMARY SCORE</b>				

**MATRIX A: PROFILING HAZARDS**

This matrix can assist FEMA (and the State, if applicable) as well as the Indian Tribal government in scoring each hazard. Indian Tribal governments may find the matrix useful to ensure that their plan addresses each natural hazard that can affect the tribal planning area. **Completing the matrix is not required.**

*Note: First, check which hazards are identified in requirement 201.7(c)(2)(i). Then, place a checkmark in either the N or the 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 201.7(c)(2)(i)		A. Location		B. Extent		C. Previous Occurrences		D. Probability of Future Events	
	Not a Hazard	Yes	N	S	N	S	N	S	N	S
Avalanche										
Coastal Erosion										
Coastal Storm										
Dam Failure										
Drought										
Earthquake										
Expansive Soils										
Extreme Heat										
Flood										
Hailstorm										
Hurricane										
Land Subsidence										
Landslide										
Severe Winter Storm										
Tornado										
Tsunami										
Volcano										
Wildfire										
Windstorm										
Other:										
Other:										
Other:										

Legend: 201.7(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?



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

**MATRIX B: ASSESSING VULNERABILITY**

This matrix can assist FEMA (and the State, if applicable) as well as the Indian Tribal government in scoring each hazard. Indian Tribal governments may find the matrix useful to ensure that their plan addresses each natural hazard that can affect the tribal planning area. **Completing the matrix is not required.**

*Note: First, check which hazards are identified in requirement 201.7(c)(2)(i). Then, place a checkmark in either the N or the 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.*

Hazard Type	Hazards Identified Per Requirement 201.7(c)(2)(i)		201.7(c)(2)(ii) Overview	A. Overall Description of Vulnerability		B. Hazard Impact		201.7(c)(2)(ii)(A) and (D) Identifying Structures and Sacred Sites (types and estimated numbers)	A. Existing Structures		B. Future Structures		201.7(c)(2)(ii)(B) Estimating Potential Losses	A. Loss Estimate		B. Methodology	
	Not a Hazard	Yes		N	S	N	S		N	S	N	S		N	S	N	S
	Avalanche																
Coastal Erosion																	
Coastal Storm																	
Dam Failure																	
Drought																	
Earthquake																	
Expansive Soils																	
Extreme Heat																	
Flood																	
Hailstorm																	
Hurricane																	
Land Subsidence																	
Landslide																	
Severe Winter Storm																	
Tornado																	
Tsunami																	
Volcano																	
Wildfire																	
Windstorm																	
Other:																	
Other:																	
Other:																	

**Legend:**

201.7(c)(2)(ii) Assessing Vulnerability: Overview

A. Does the new or updated plan include an overall summary description of the vulnerability of the tribal planning area to each hazard?

B. Does the new or updated plan address the impact of each hazard on the tribal planning area?

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

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?

201.7(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?

**MATRIX C: IDENTIFICATION AND ANALYSIS OF MITIGATION ACTIONS**

This matrix can assist FEMA (and the State, if applicable) as well as the Indian Tribal government, in scoring each hazard. Indian Tribal governments 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 201.7(c)(2)(i). Then, place a checkmark in either the N or the 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 201.7(c)(2)(i)		A. Comprehensive Range of Actions and Projects	
	Not a Hazard	Yes	N	S
Avalanche				
Coastal Erosion				
Coastal Storm				
Dam Failure				
Drought				
Earthquake				
Expansive Soils				
Extreme Heat				
Flood				
Hailstorm				
Hurricane				
Land Subsidence				
Landslide				
Severe Winter Storm				
Tornado				
Tsunami				
Volcano				
Wildfire				
Windstorm				
Other:				
Other:				
Other:				

**Legend:**

201.7(c)(3)(ii) Identification and Analysis of Mitigation Actions

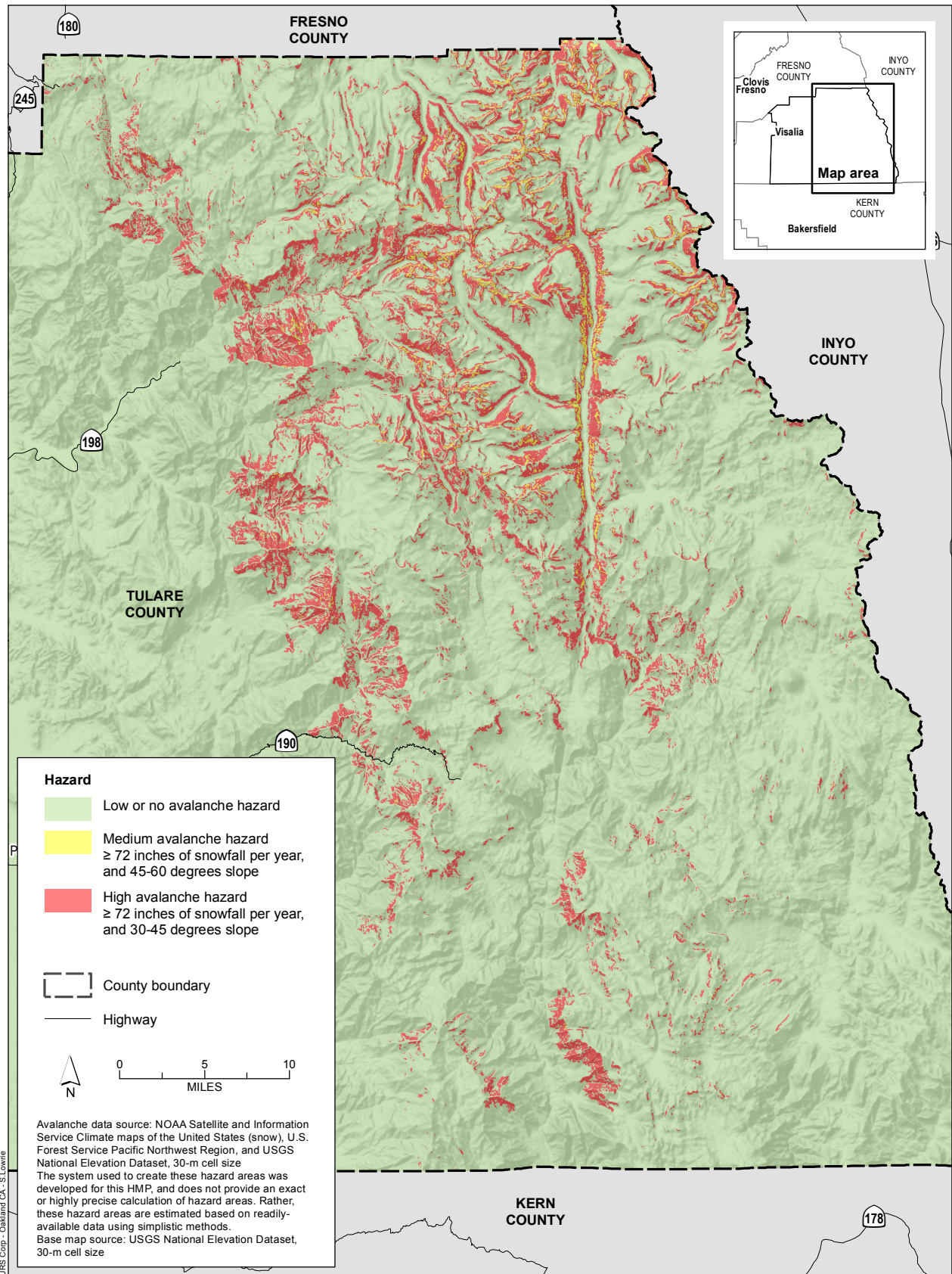
A. Does the new or updated plan identify and analyze a comprehensive range of specific mitigation actions and projects for each hazard?

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

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**Appendix C**  
**Hazard Figures**

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**Figure C-1**  
 Avalanche hazard areas

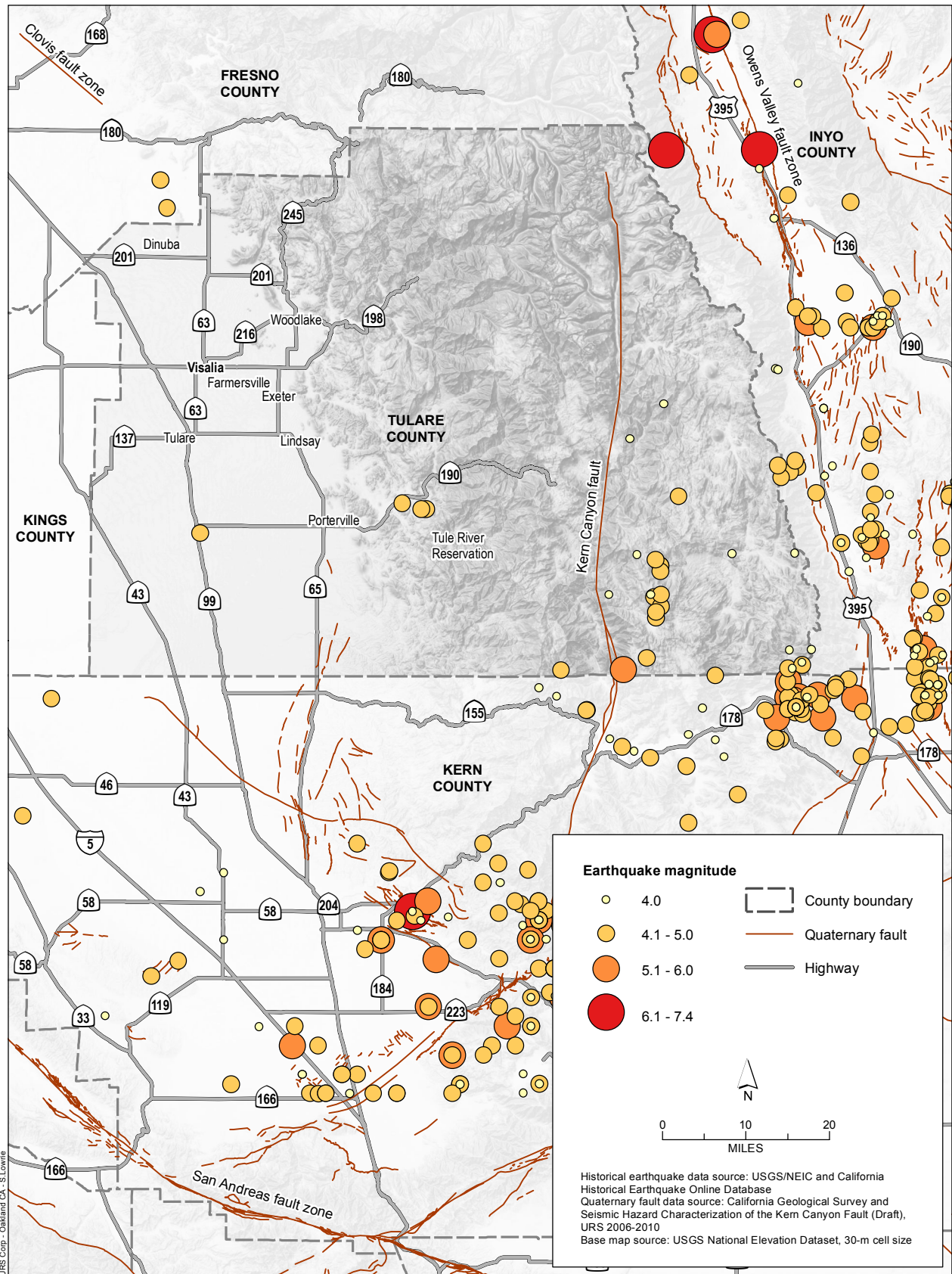
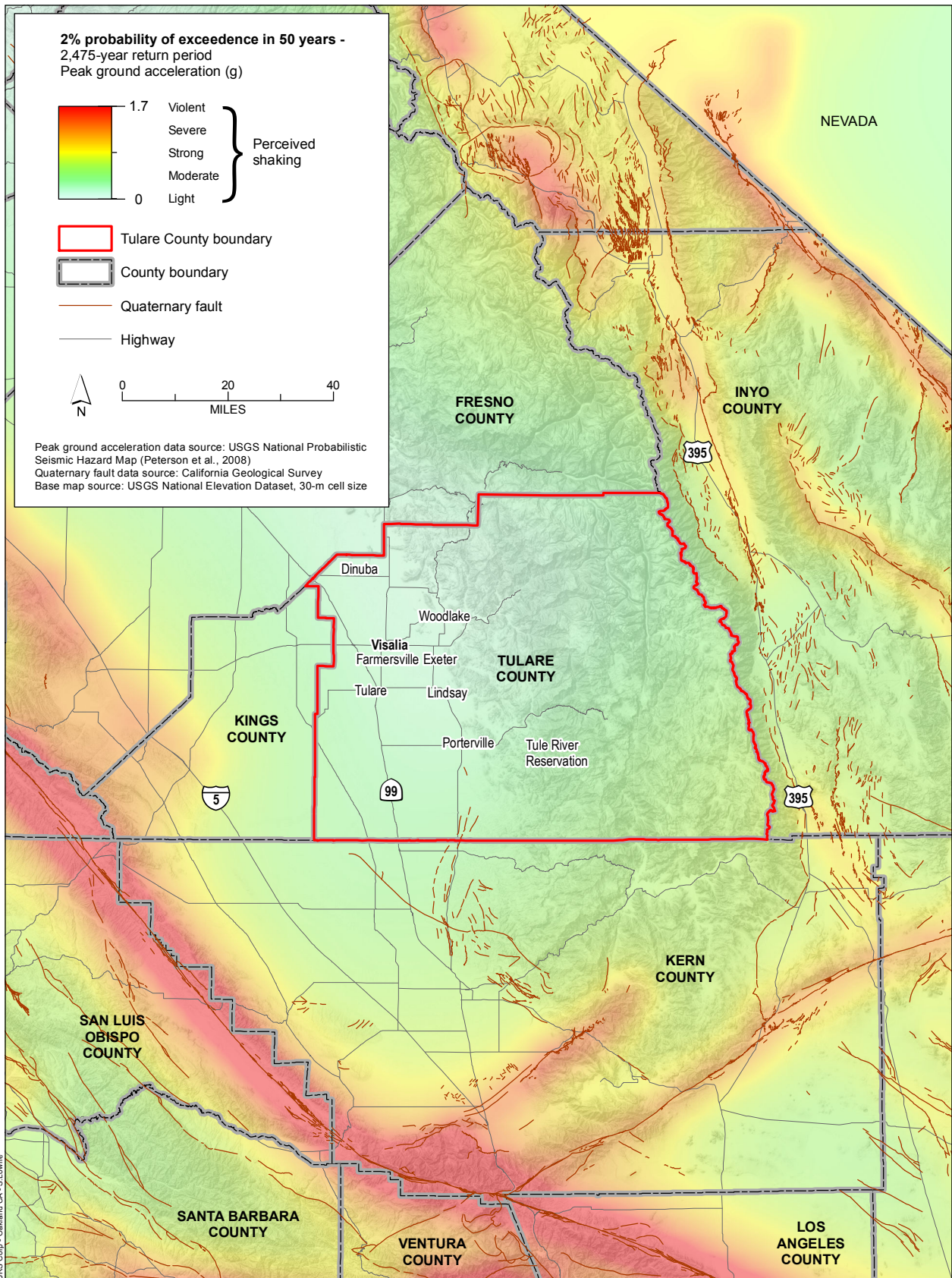
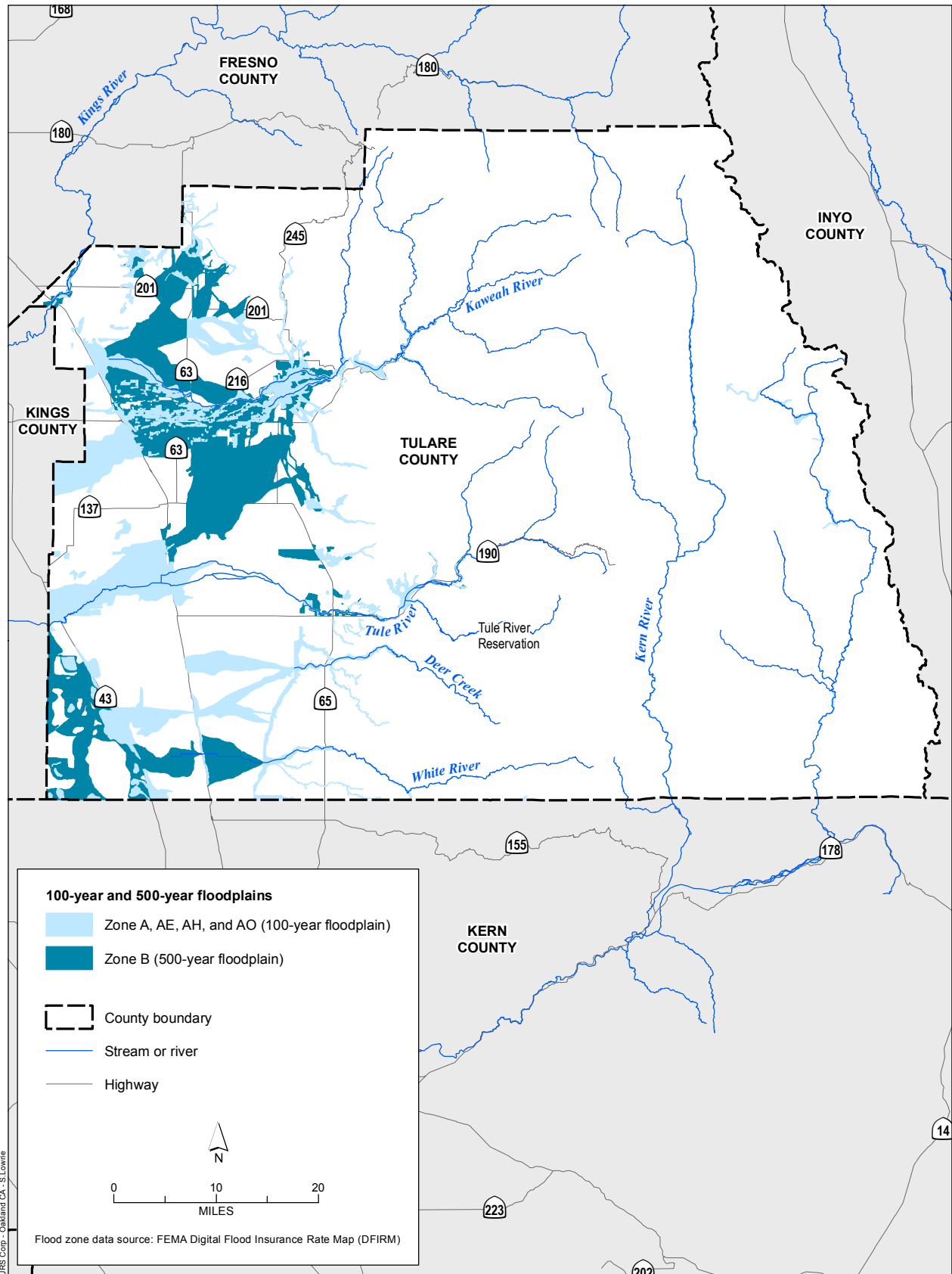


Figure C-2  
Regional historical earthquakes, magnitude ≥ 4.0, 1871-2010

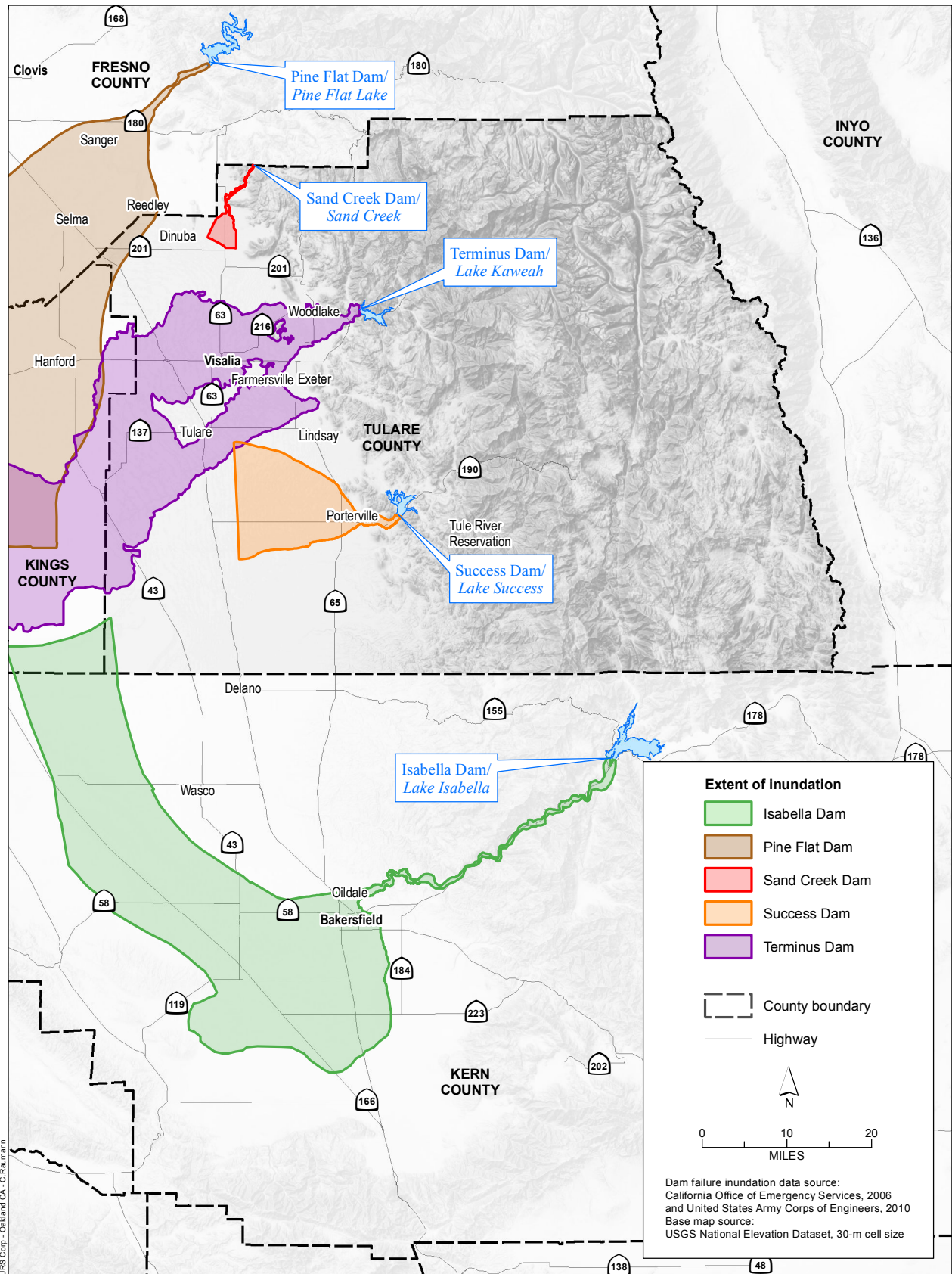




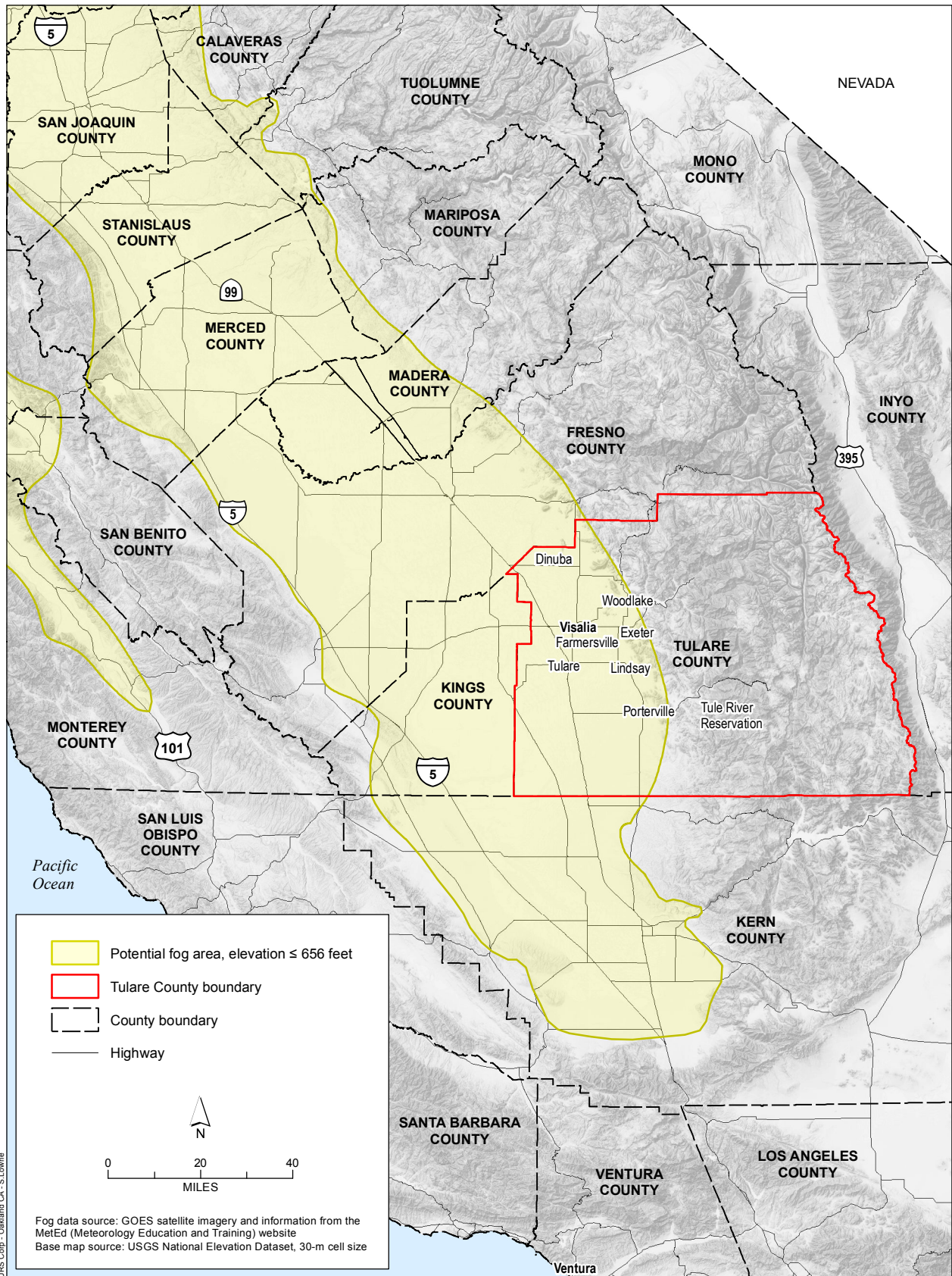


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**Figure C-4**  
Flood hazard areas

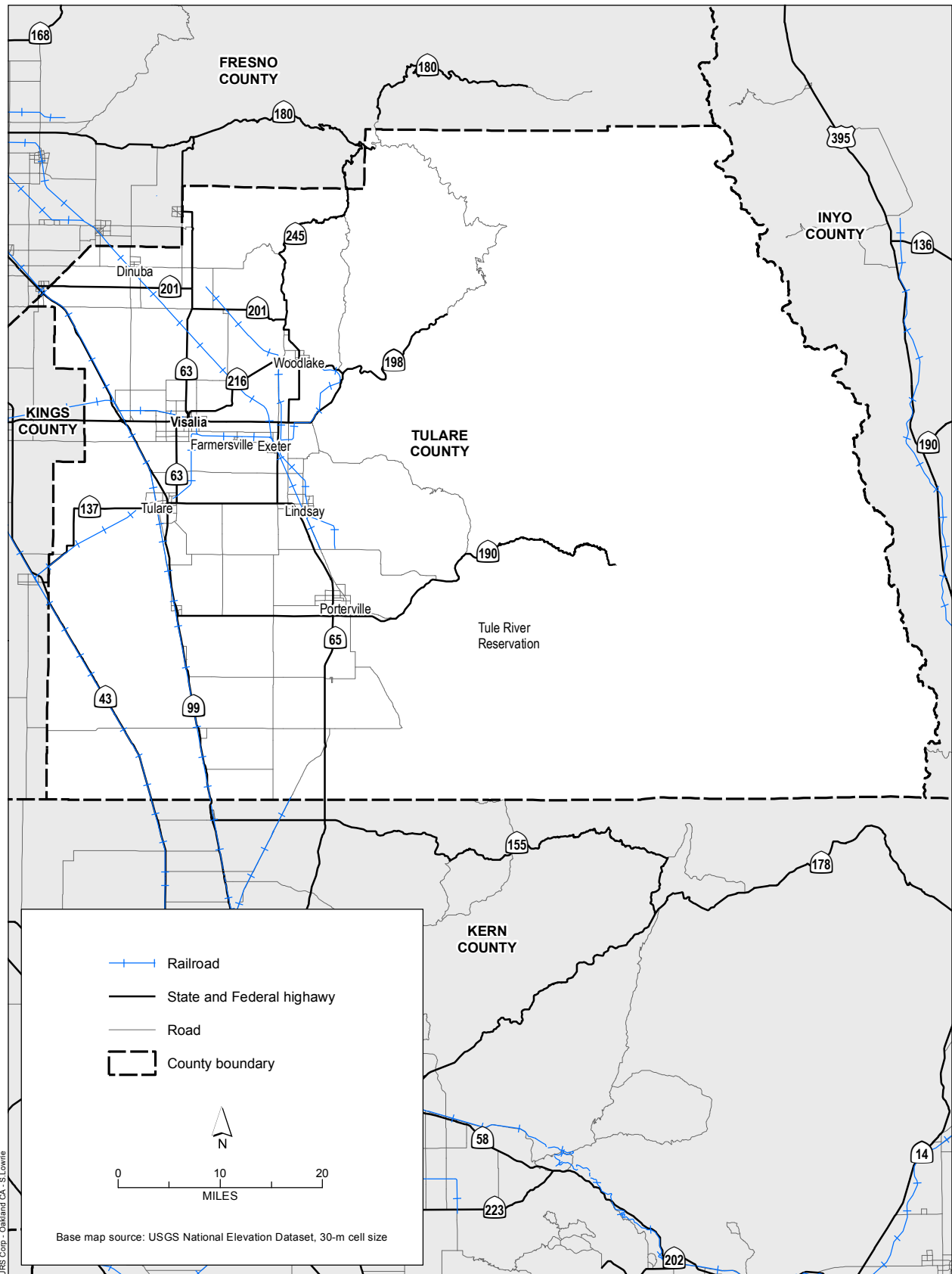


**Figure C-5**  
Dam failure inundation areas

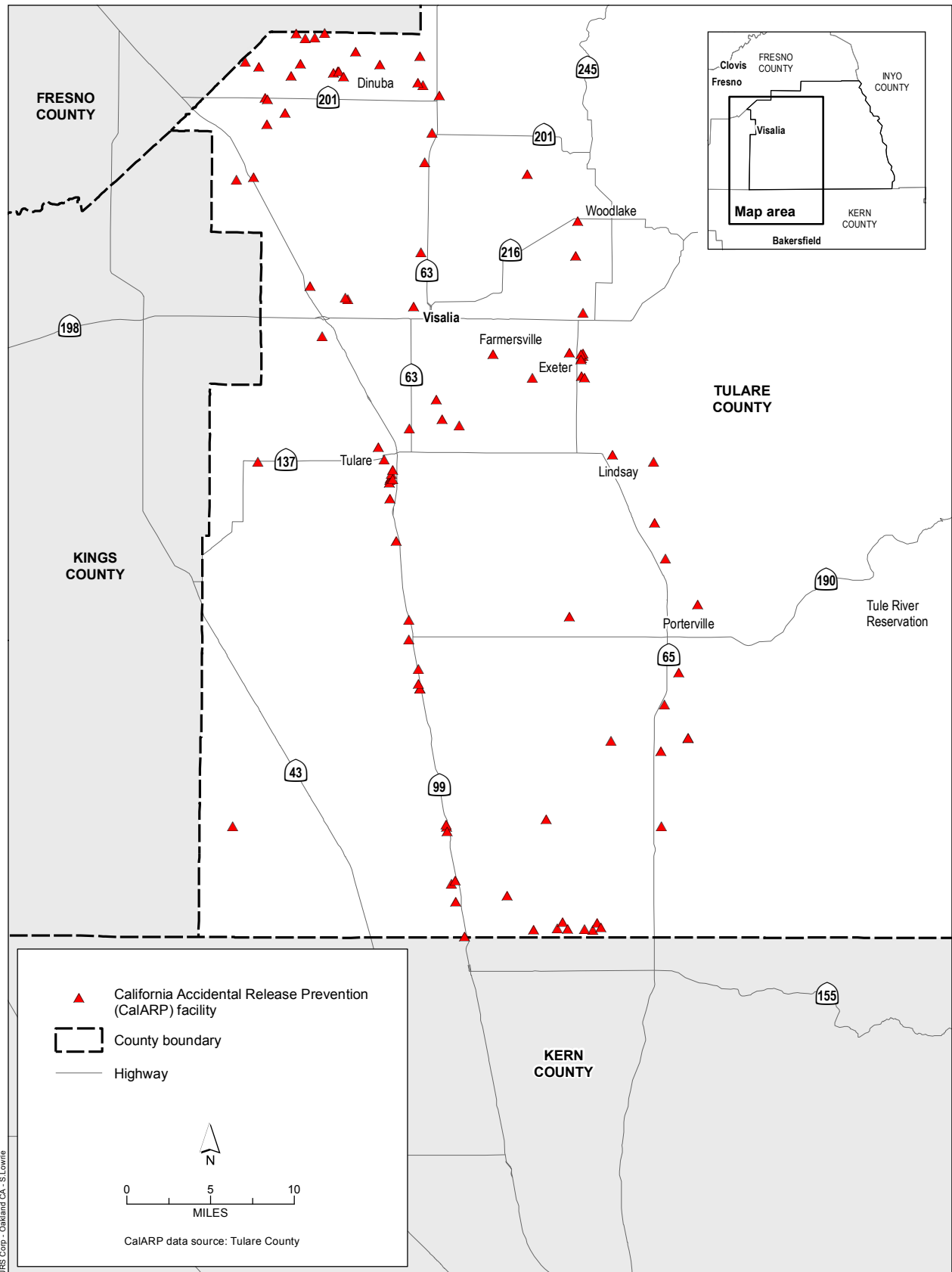


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**Figure C-6**  
 Fog hazard areas

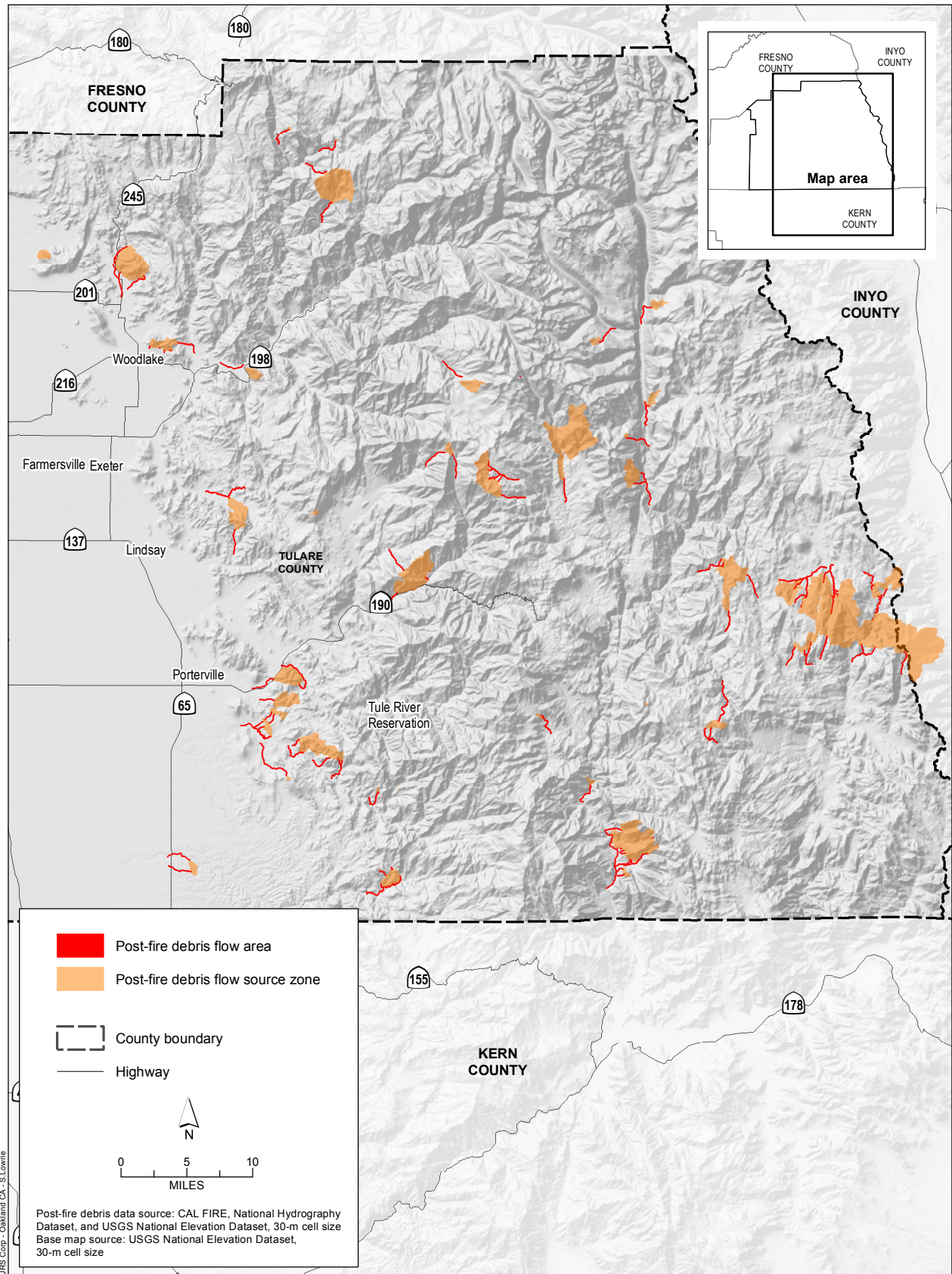


**Figure C-7**  
 Hazardous material transportation corridors

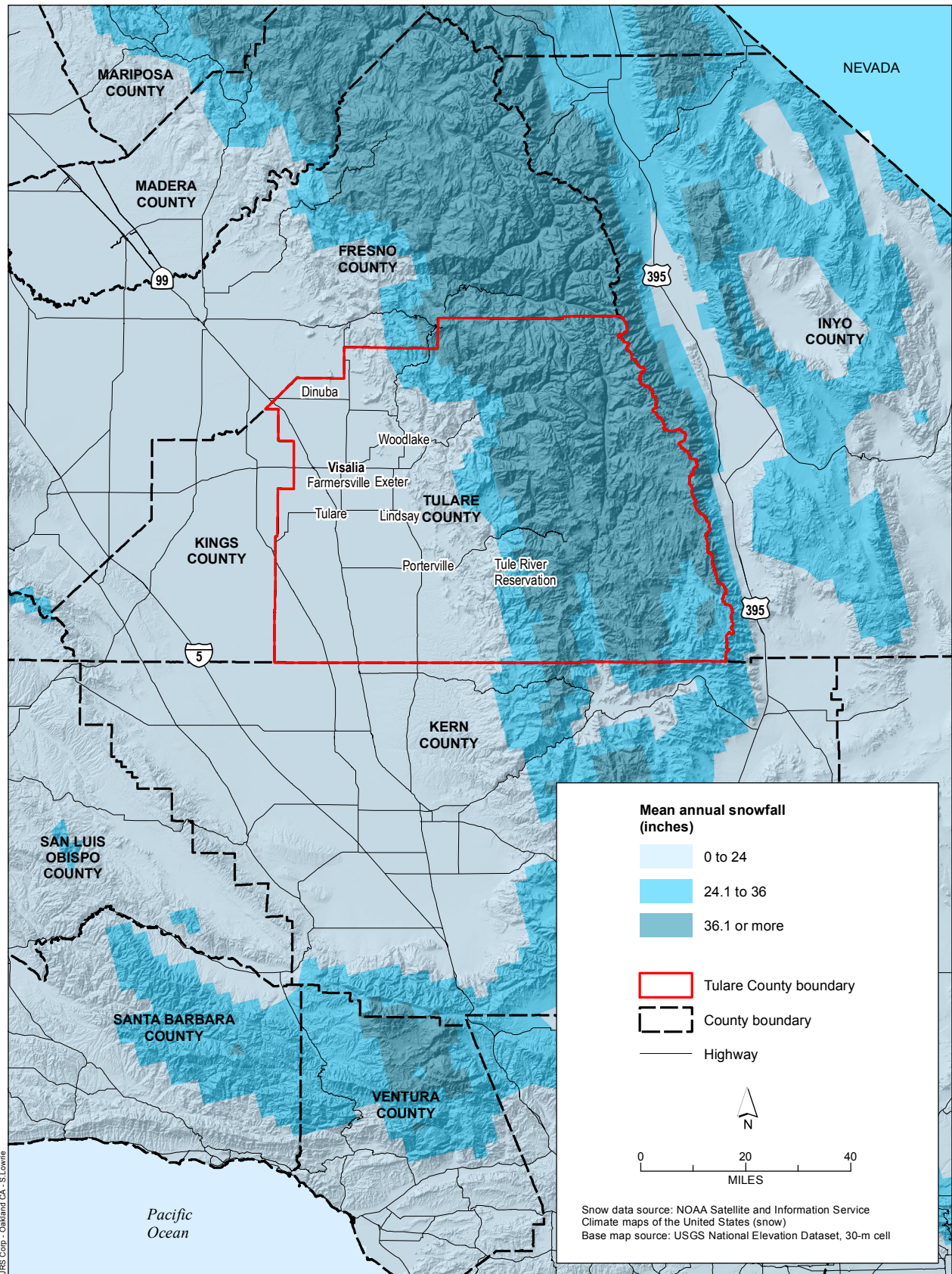


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**Figure C-8**  
Hazardous materials fixed facilities

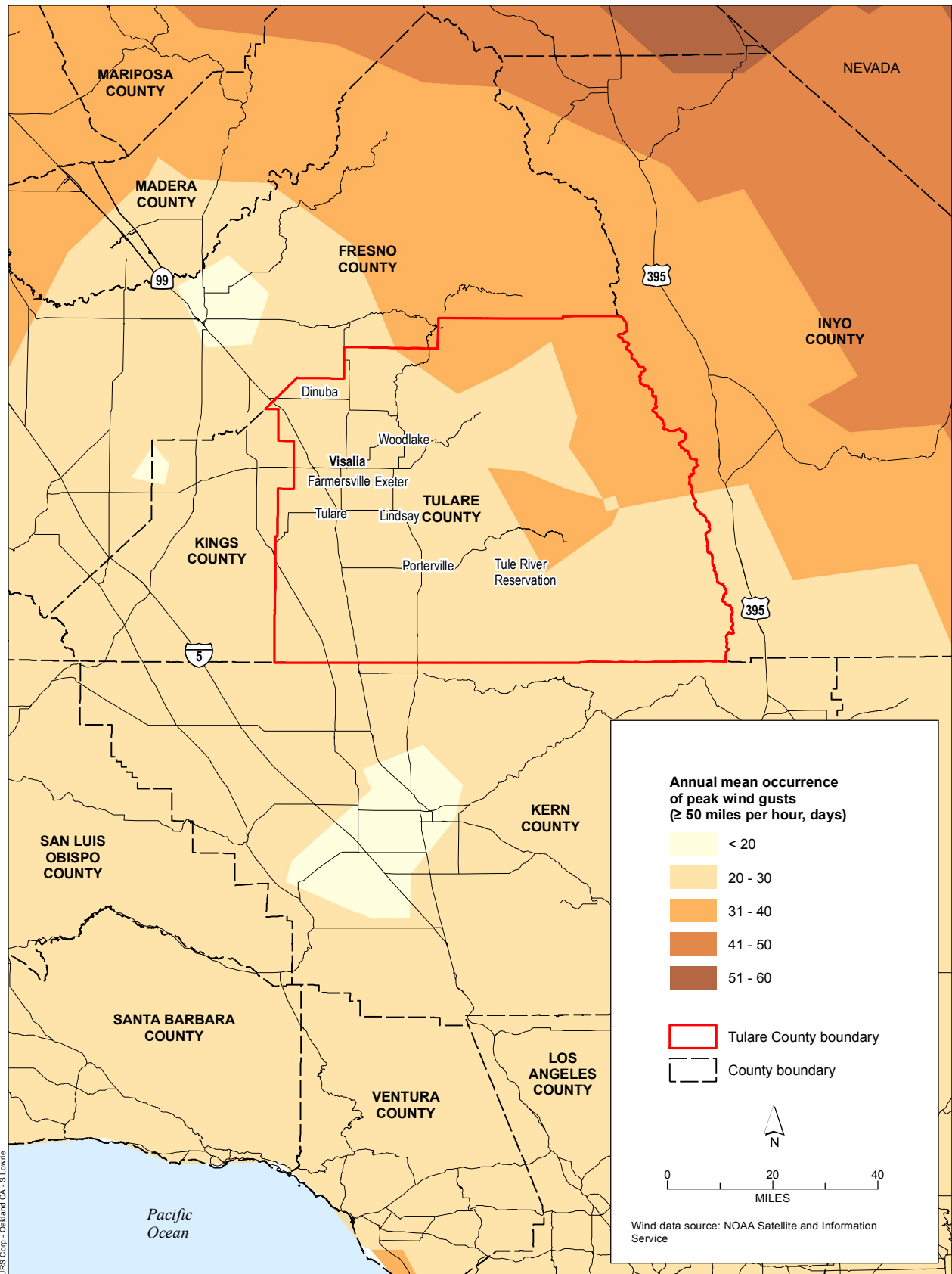


**Figure C-9**  
 Post-fire debris flow hazard areas



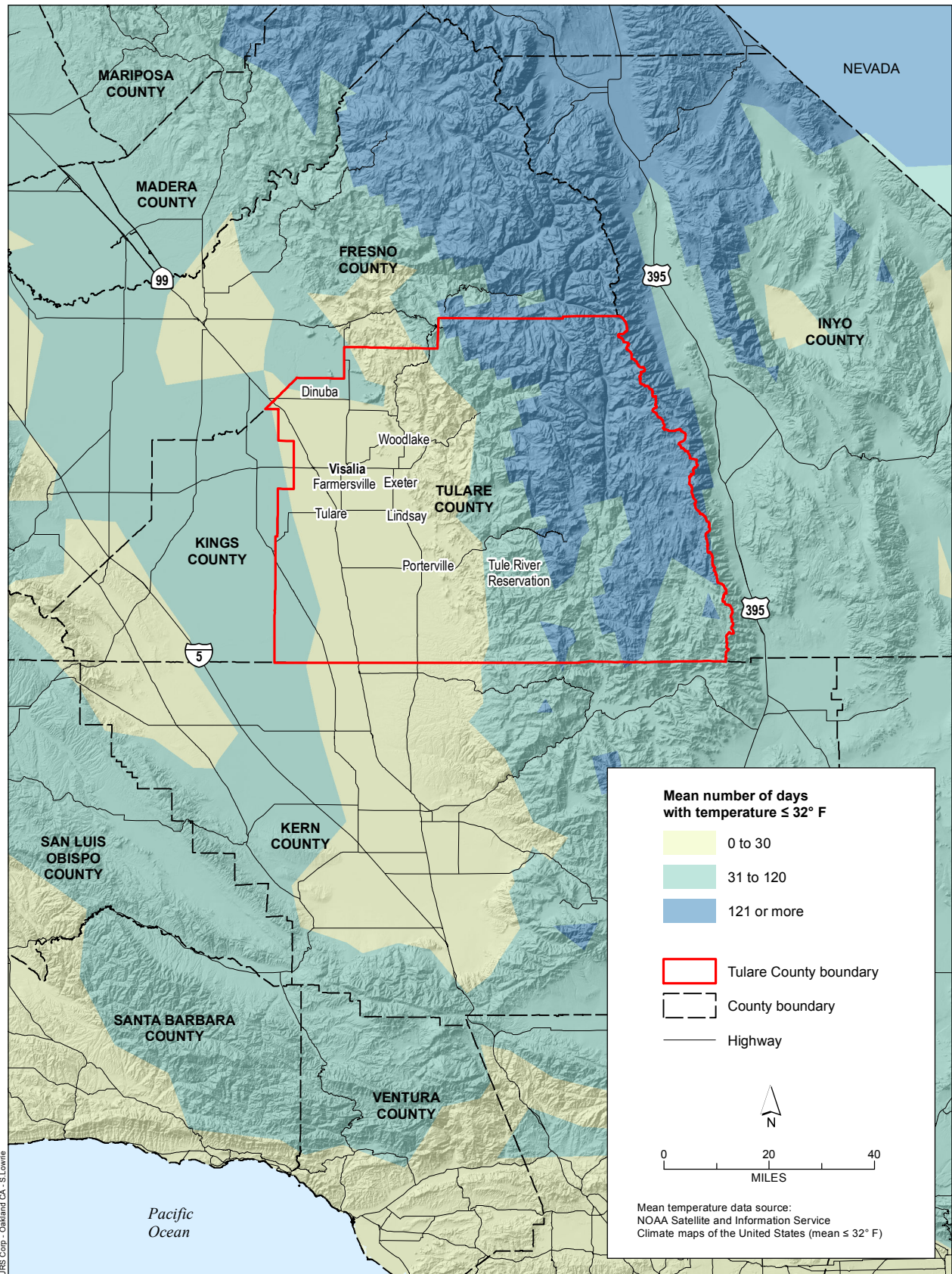
**Figure C-10**  
 Average snowfall





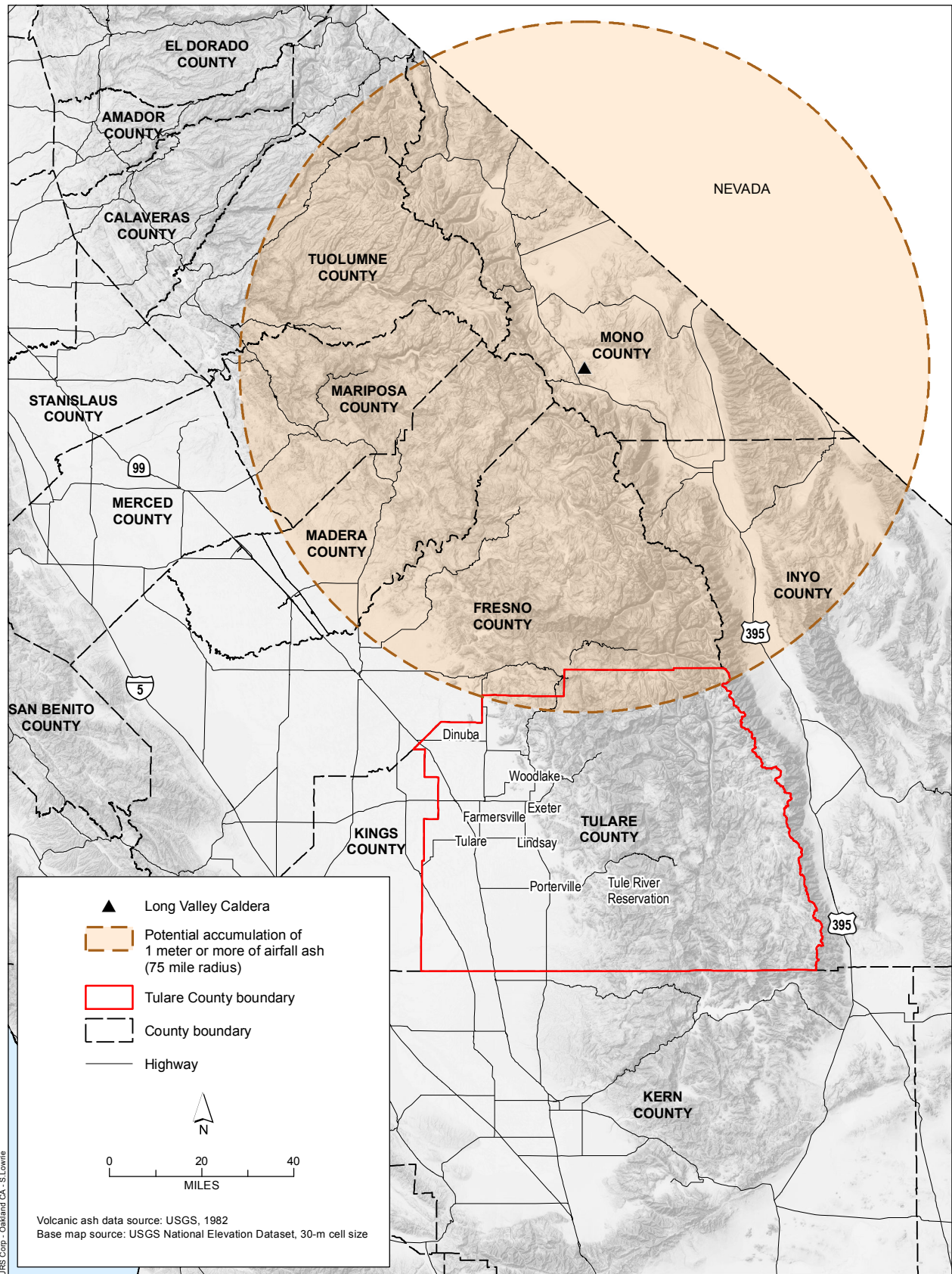
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**Figure C-11**  
Peak wind gusts ≥ 50 miles per hour

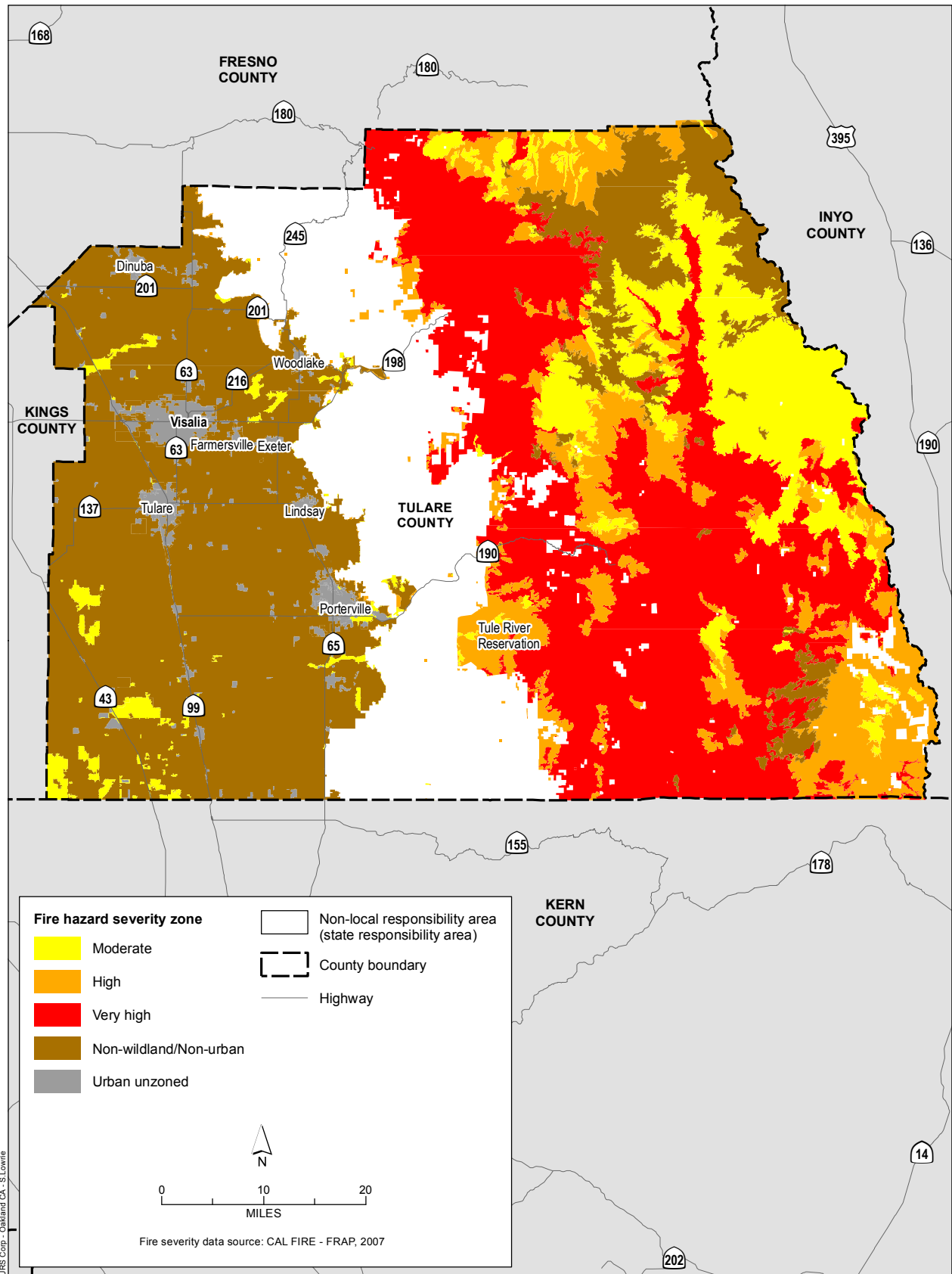


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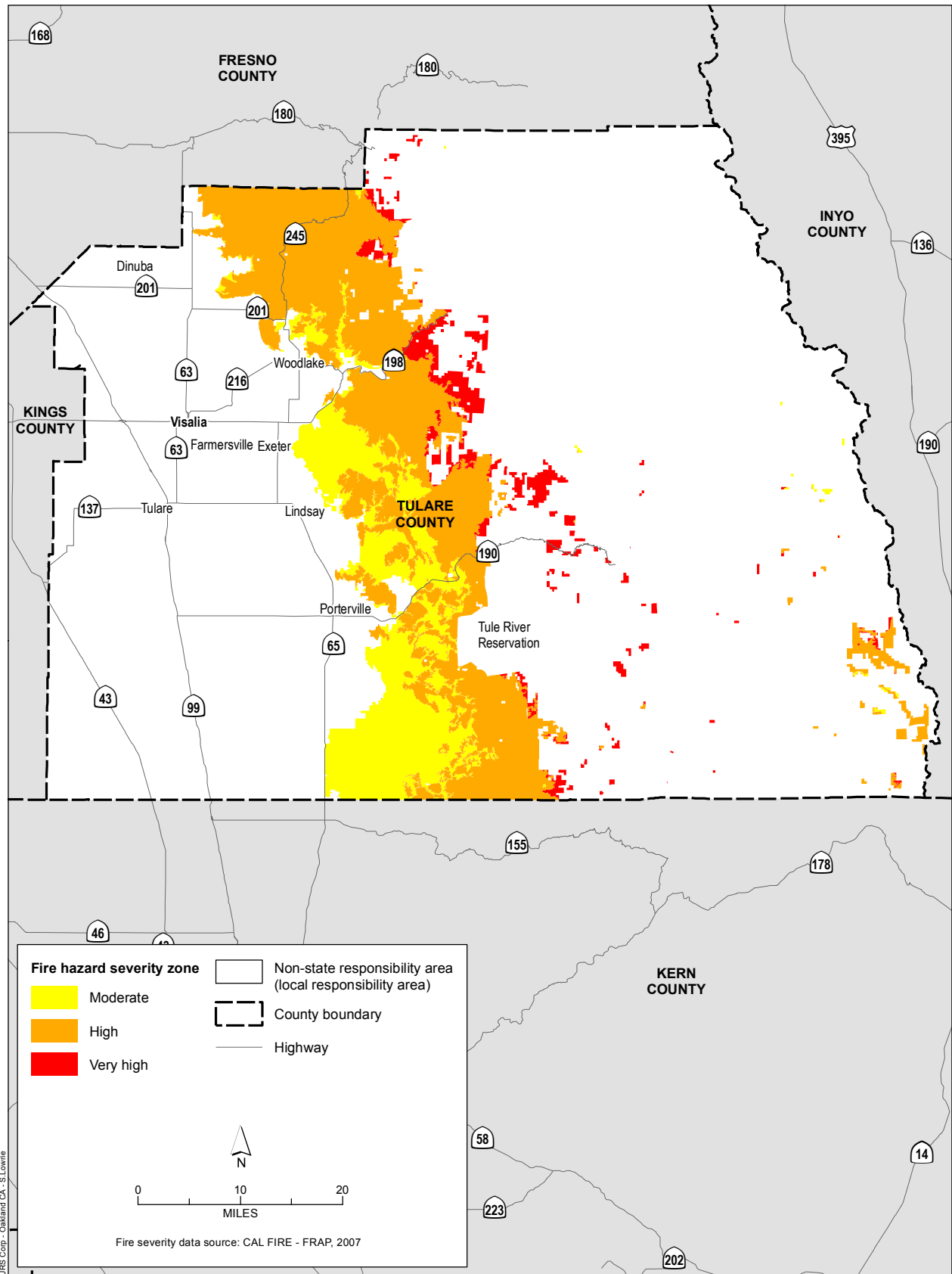
**Figure C-12**  
Average days with the temperature at or below freezing



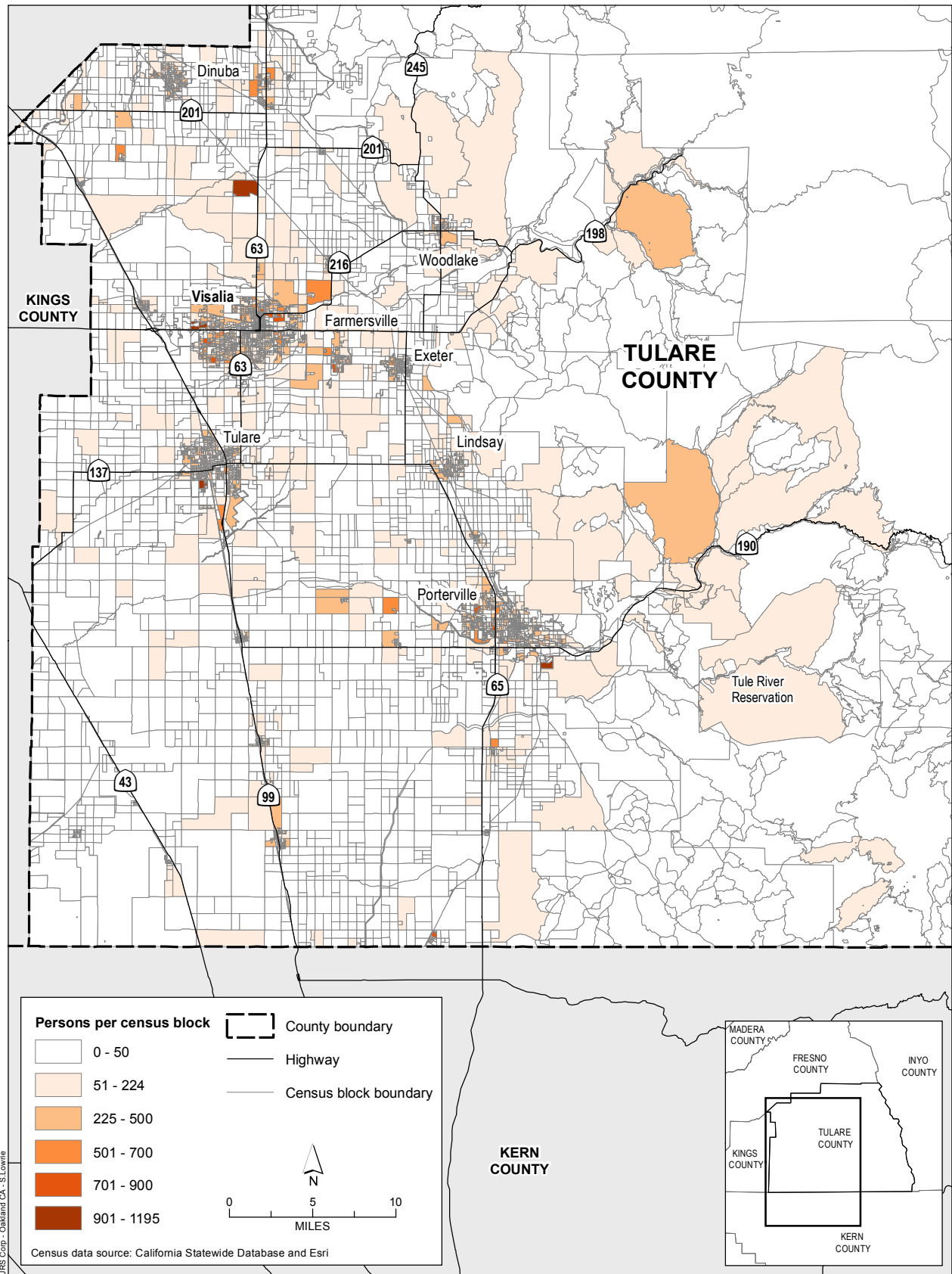
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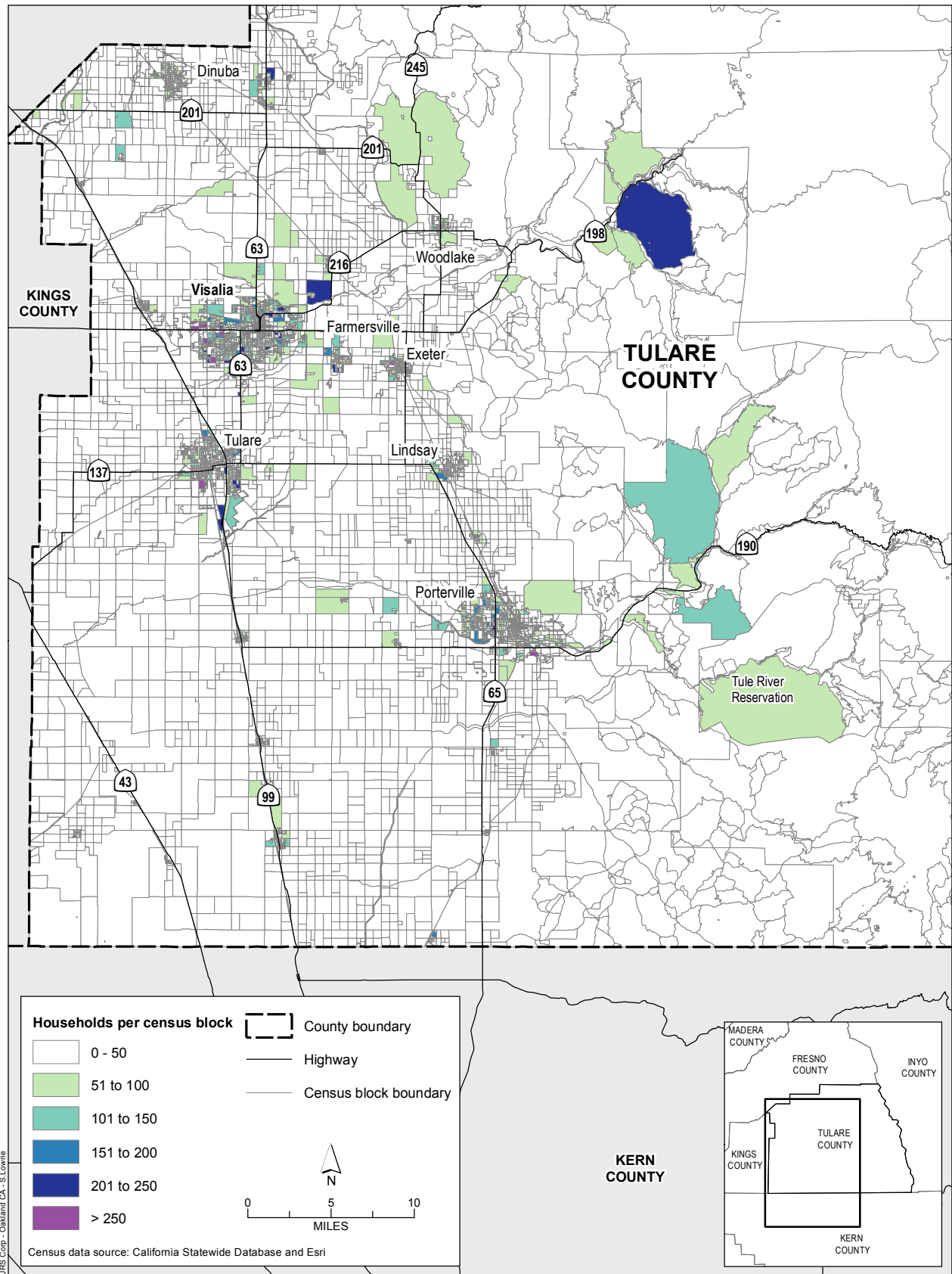
**Figure C-14**  
 Fire hazard severity zones, local responsibility area



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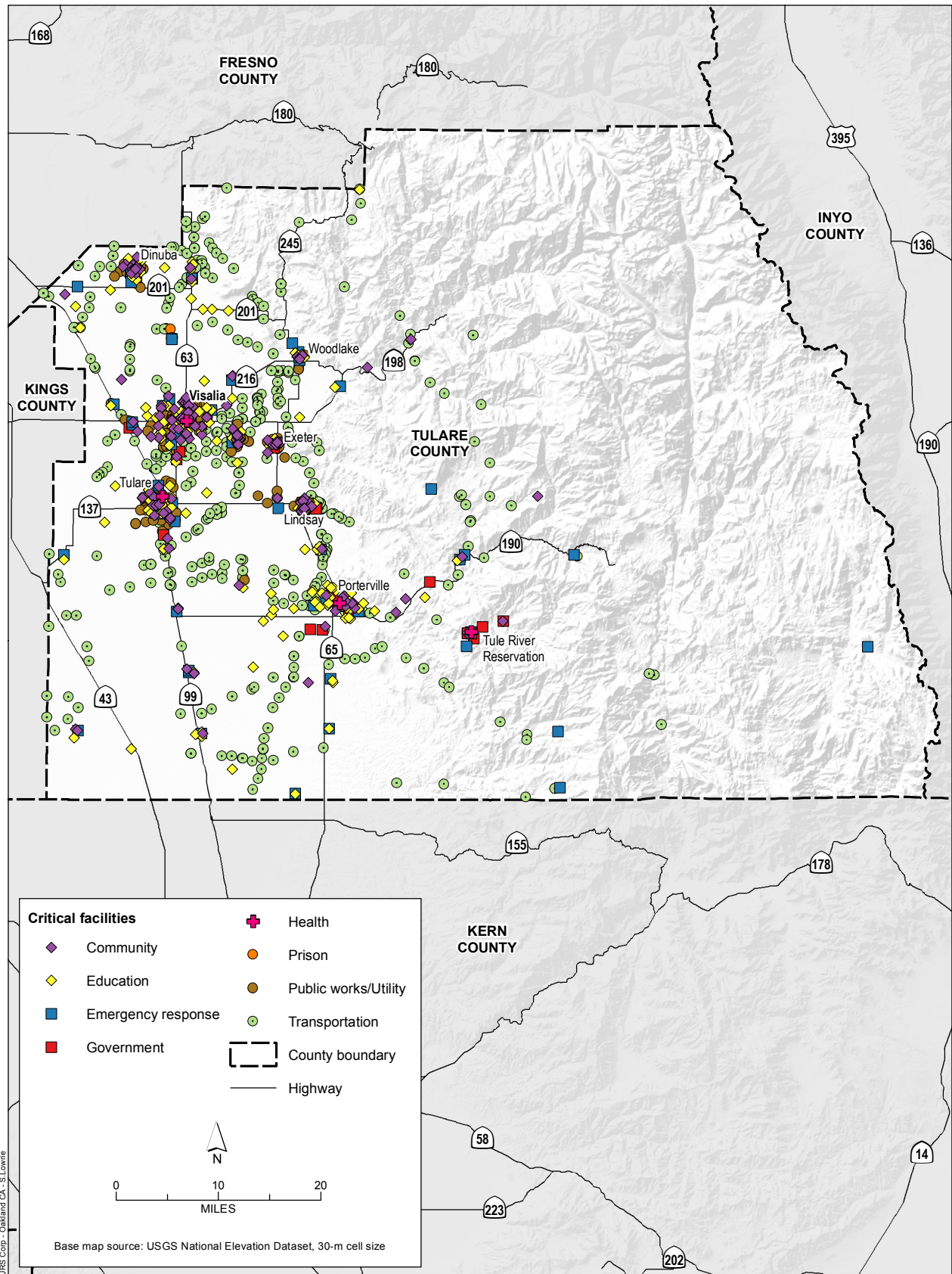


**Figure C-16**  
Estimated 2010 population



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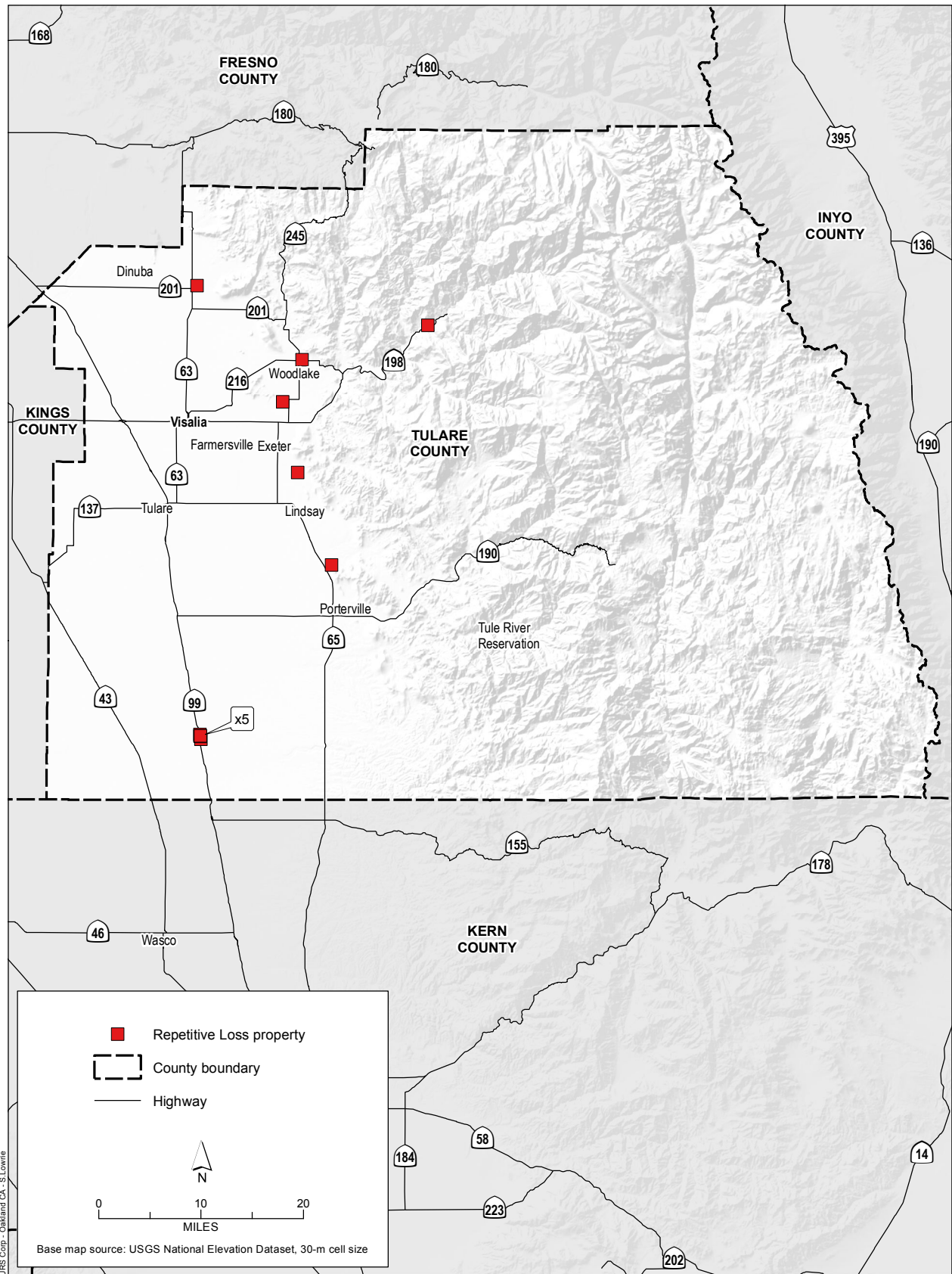
**Figure C-17**  
Estimated 2010 households



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**Figure C-18**  
Critical facilities and infrastructure





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**Figure C-19**  
Repetitive Loss Properties

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

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**TULARE COUNTY**  
**HAZARD MITIGATION PLANNING PROJECT**

Hazard Mitigation Planning Committee  
Meeting #1  
10:00 – 11:30 AM  
Monday, June 21, 2010  
Professional Development Center  
4031 W. Noble Avenue, Suite A, Visalia, CA 93277



**AGENDA**

<u>Time</u>	<u>Description</u>	<u>Led By</u>
10:00 – 10:15	<b>Introductions</b> Tulare County Office of Emergency Services Hazard Mitigation Planning Committee URS	Amber Smith, OES
10:15 – 10:25	<b>Brief Review of Hazard Mitigation Plan Requirements and Planning Process</b> Plan Background Plan Components Planning Schedule	Amy Jewel, URS
10:25 – 10:40	<b>Role and Schedule of this Committee</b>	Amy Jewel, URS
10:40 – 11:15	<b>Hazard Identification Exercise*</b> Discussion of Hazards to be Included Potential Data for Hazards Analysis and Vulnerability Assessment	Amy Jewel, URS
11:15 – 11:25	<b>Questions &amp; Answers</b>	Amy Jewel, URS
11:25 – 11:30	<b>Recap of Action Items</b>	Amber Smith, OES

\*Additional handout



TULARE COUNTY  
HAZARD MITIGATION PLANNING PROJECT

Minutes: Hazard Mitigation  
Planning Committee Meeting #1  
Monday, June 21, 2010



**Introduction – Amber Smith, Tulare County OES**

- Introductions for OES, URS, and introductions around the room

**Brief Recap of Hazard Mitigation Planning – Amy Jewel, URS**

- Why Mitigation Planning?
  - One large driver is to become eligible for certain types of pre-disaster hazard mitigation funding
  - The process also brings together stakeholders and helps in building partnerships
- Disaster Mitigation Act of 2000
  - Guidance for Local Mitigation Planning is available from the following website:  
<http://www.fema.gov/library/viewRecord.do?id=3336>
- Plan Components
  - Each of the major sections of the plan was reviewed
- Planning Schedule

**Role and Schedule for this Committee – Amy Jewel, URS**

- Hazards Analysis – HMPC to provide data, then review results of the Hazards Analysis. (June – August 2010).
- HMPC Meeting #2 in August 2010. Review Hazards Analysis. URS to provide the Asset Inventory at this meeting for each participant.
- Hazards Analysis complete by: the end of August 2010.
- Vulnerability Analysis – HMPC to review the Asset Inventory provided at Meeting #2, and the Vulnerability Assessment for their jurisdictions. (September – November 2010)
- HMPC Meeting #3 in October 2010. Review of Vulnerability Assessment.
- Vulnerability Assessment complete by: November 2010.
- Mitigation Goals and Actions – HMPC to develop Mitigation Goals and Actions for their jurisdictions, using worksheets provided by URS.
- HMPC Meeting #4 in January 2011 to review development of Mitigation Goals and Actions.
- Mitigation Goals and Actions complete by: February 2011.

- Draft the HMP – HMPC to review and provide comments on the Draft HMP.
- HMPC Meeting #5 in April or May 2011 to review the Draft HMP.
- Final Draft HMP complete by: July 2011.
- Public Involvement
  - Tulare County OES has developed a website for the project at: [www.tularehmp.com](http://www.tularehmp.com)
  - Participants are urged to place information on their websites and link to the above website.

**Hazard Identification Exercise: - Amy Jewel, URS**

- Each hazard was discussed, and the group determined whether the hazard should be included or not as follows:
  - Avalanche: Include. In the past, avalanches have caused fatalities and have impacted some buildings.
  - Biological Hazards: Include. Infectious diseases have been hazards in the County, particularly H1N1 flu. There is also risk of a biological hazard being introduced by a terrorist through contamination of our food supply at a processing facility or through irrigation water. Pests are a hazard that could impact agriculture.
  - Civil Unrest: Include. There were some incidents of civil unrest in the 1970s when workers went on strike. Recently there have been some demonstrations around immigration issues.
  - Dam Failure: Include. Data on dam failure inundation to be provided by the Army Corps of Engineers for Terminus and Success Dams. We may want to also consider including Pine Flat Dam in Fresno County because of it's size and the damage it would cause in Tulare County if it failed.
  - Drought: Do Not Include. This is a threat, but mainly impacts agriculture. Mitigation for drought would be difficult.
  - Earthquake: Include.
  - Energy Emergency: Possibly Include. The City of Visalia is working on a similar plan for energy, and could possibly provide some data and information.
  - Expansive Soils: Do Not Include. This hazard is addressed in land planning.
  - Flood: Include. Use the most recent FEMA Flood Insurance Rate Maps for the County as a data source.
  - Fog: Include. Every year, there are multiple accidents on Highway 99 due to fog.

- Hailstorm: Do Not Include, but consider hail in the Severe Winter Storm category.
- Hazardous Material Event: Include. Data can be provided from Environmental Health. Pesticide incidents do occur, but are usually small in scope to those impacted. Natural gas pipelines run along the railroads. There are also many hazardous materials transported along the railroads and highways.
- Hurricane: Do Not Include.
- Landslide/Mudslide: Include. Also could be connected with post fire debris flow. These do occur every year. This hazard is likely to impact roads.
- Levee Failure: Include. Some data may be available from the Army Corps of Engineers. In addition, current FEMA flood maps are heavily driven by levee failure, so they would be a good resource to consider.
- Liquefaction: Include. This is a primary mode of failure for the Success Dam per the Army Corps of Engineers.
- Noise: Do Not Include. This hazard is already addressed by building sound walls near highways.
- Severe Wind: Do Not Include as a separate category, but add to Severe Winter Storm Category
- Severe Winter Storm: Include. Consider wind, hail, and freeze.
- Soil Erosion: Do Not Include, but consider in the Flood Hazard Profile.
- Subsidence: Do Not Include. This hazard is addressed in land planning.
- Terrorism. Include. Terrorists may begin to target small rural communities, such as some of the areas in Tulare County. Other targets may be pesticide facilities, chemical plants, water supply and dams. Agricultural Terrorism is also a concern. Mitigation actions could include additional training for the Terrorism Liaison Officer (TLO) Program to include the agricultural industry. There is also a threat for domestic terrorism by local white supremacist and other groups.
- Transportation Disruption: Do Not Include. There are already contingency plans for all routes if there is an event that shuts down a portion of a highway. Rail disruption – the rail companies have their own resources in the case of derailment. There is no significant impact to the county from aircraft disruption.
- Tornado: Do Not Include. Tulare County does experience some small tornadoes, but this should be included in the severe storms category.
- Volcano: Possibly Include. There are volcanoes in Mammoth and Hot Springs within the county.
- Tsunami: Do Not Include.



Tulare County HMPC Meeting #1 – Notes

June 21, 2010

- Wildfire: Include. This is a key threat to Tulare County. We will look at using the Cal EMA Fire Hazard Severity Zones maps. County Fire relies on Cal-Fire detail, which may be an additional resource in our planning.
- The group discussed the following additional agencies to contact for inclusion in future planning meetings:
  - Cal Fire
  - California Highway Patrol
  - Tulare County Department of Environmental Health
  - Tulare County Department of Public Health
  - United States Bureau of Land Management
  - United States Forest Service

**Meeting Close**



**TULARE COUNTY**  
**HAZARD MITIGATION PLANNING PROJECT**

**Hazard Mitigation Planning Committee**  
**Meeting #2**  
**10:30 AM – 12:00 PM**  
**Monday, August 23, 2010**  
**Tulare County Government Plaza**  
**Pine North and South Conference Rooms**  
**5957 S. Mooney Blvd., Visalia, CA 93277**



**AGENDA**

<u>Time</u>	<u>Description</u>	<u>Led By</u>
10:30 – 10:45	<b>Introductions</b> Tulare County Office of Emergency Services Hazard Mitigation Planning Committee URS	<b>Amber Smith, OES</b>
10:45 – 11:00	<b>Time Tracking Requirements for Matching Grant</b>	<b>Amber Smith, OES</b>
11:00 – 11:30	<b>Discussion of Hazard Profiles and Maps</b> Review maps and data sources used in profiles* Discuss any gaps and inclusion of hazards in final HMP	<b>Amy Jewel, URS</b>
11:30 – 11:45	<b>Discussion of Assets</b> Population Residential Buildings Critical Facilities: <ul style="list-style-type: none"> <li>● Government Buildings</li> <li>● Parks and Community Services (parks, senior citizen centers, youth centers)</li> <li>● Public Safety Facilities (fire and police stations)</li> <li>● Public Works Facilities (wells and pump facilities)</li> <li>● Transportation (bus stations, airports)</li> </ul>	<b>Amy Jewel, URS</b>
11:45 – 12:00	<b>Review Capability Assessment Worksheet*</b> Types (county/city, tribal, school district) <ul style="list-style-type: none"> <li>● Human and Technical Resources</li> <li>● Financial Resources</li> <li>● Legal and Regulatory Resources</li> <li>● Current, Ongoing, and Completed Mitigation Projects</li> </ul>	<b>Amy Jewel, URS</b>
12:00	<b>Recap of Action Items and Next Steps</b>	<b>Amber Smith, OES</b>

\*Additional handout



TULARE COUNTY  
HAZARD MITIGATION PLANNING PROJECT

Minutes: Hazard Mitigation  
Planning Committee Meeting #2  
Monday, August 23, 2010



**Time Tracking:**

HMP Committee members are being asked to track their time and other expenses related to developing the HMP for the County's matching grant requirements.

- Timesheets are to be filled out to track non-meeting labor (time spent at HMP Committee Meetings is already captured and should not be included on the timesheets).
- Timesheets to be submitted to OES each month.
- See additional handout from OES.

**Hazard Profiles and Maps:**

In the last HMP Committee meeting, the Committee discussed a generic list of hazards and chose the hazards specific to Tulare County for consideration in the Hazard Mitigation Plan (HMP).

- The chosen hazards have been profiled and maps have been created for those applicable.
- Maps were not created for some hazards.

Our goal is to go briefly discuss each hazard and determine if the hazard should be kept in the HMP and included in the vulnerability analysis. Some hazards may be kept in the hazard profile text in the HMP, but not included in the vulnerability analysis.

**Avalanche:**

- This map is based upon areas with a high level of snowfall (72 inches or more per year) and areas that have a slope of 30 – 45 degrees (for high hazard areas) and areas with a slope of 45 – 60 degrees (for medium hazard areas).
- Avalanches have not significantly affected infrastructure or the lives of those in Tulare County.
  - In the past 12 years there was 1 record of a death due to avalanche.
- The hazard is more of a concern for the County personnel, such those that complete search and rescue.
  - Generally winter hikers or skiers are affected by the hazard.
- The hazard could possibly affect communications towers.
  - Should check with the National Park Service (however, National Parks are federal lands and not included in this HMP).
- Avalanche information should also be provided to the appropriate entities so that development is not allowed or is discouraged in hazard areas (i.e. Kennedy Meadows).
- This hazard profile will remain in the HMP but NOT be included in the vulnerability analysis.

**Biological (Medical and Agricultural):**

- There is no map for biological hazards.
- Medical Hazards/Infectious Diseases: This section discusses the infectious diseases that have affected Tulare County (2001-2008) as recorded by California Department of Public Health.
- Agricultural: The section discusses the pests and diseases that can harm the agriculture/crops of Tulare County.
- While the hazard profile may remain in this HMP, it is probably best to have mitigation for these hazards handled by another agency or agencies.
- This hazard profile will remain in the HMP but NOT be included in the vulnerability analysis.

**Civil Disturbance:**

- No map; civil disturbances occur due to a variety of reasons and therefore it is difficult to predict where and/or when one will occur.
- The hazard profile includes some information regarding past disturbances, including labor/union strikes and demonstrations in regard to immigration issues.
- Unsure as to what could be done to mitigate against future civil disturbances.
- What about occurrences in surrounding areas which would lead to an influx of people into Tulare County?
  - This would be more of an emergency response issue, not a hazard mitigation issue.
  - Currently there is preparation to deal with such incidents.
    - Tulare County actively participates in a mutual aid program for fires (Region X).
    - Law enforcement also has a similar mutual aid system. Neighboring areas/counties notify the County in the case of incidents and the County begins sending resources as needed (or receiving resources should the situation be reversed).
- This hazard profile will remain in the HMP but NOT be included in the vulnerability analysis.

**Earthquake:**

- 2 Maps: Groundshaking Hazard Map and locations of Historical Earthquakes (both based on data from USGS).
- The first map shows the County's susceptibility to shaking in terms of peak ground acceleration.
  - Based on the map, the most extreme shaking is not likely to occur within Tulare County.
- The second map shows the locations and magnitude of earthquakes from 1871 to present day.
- Risks involved with earthquakes are still present, but not as bad in comparison to neighboring areas.
- This hazard profile will remain in the HMP and will be included in the vulnerability analysis.

**Energy Emergency:**

- No map. An energy emergency is the shortage or loss of energy supplies, and would include a long-term electricity outage.
- Other than the rolling blackouts which affected the entire state in 2000-2001, there is no record of a history of energy emergencies in Tulare County.
- Concerns:

- A lack of power will affect Emergency Response activities
- Energy emergencies may affect prisons, which could create additional problems
- There is concern regarding a long term outage, in which case many services will shut down
- Potential mitigations to include ensuring there is a constant fuel supply for emergency generators
  - MOU for fuel supply
  - Solar energy (develop, depend on for the generators or other emergency supplies)
  - Natural gas capabilities
- This hazard profile will remain in the HMP but NOT be included in the vulnerability analysis.

### **Flooding:**

- This hazard has been broken up into 3 sections: Riverine Flooding; Dam Failure Inundation; and Levee Failure Inundation. Maps were created for the first two sections.
- This hazard profile will remain in the HMP and will be included in the vulnerability analysis.

#### Riverine Flooding

- Riverine flooding is the most common cause of flooding in the County:
- The first map illustrates the 100-year and the 500-year floodplains as defined by FEMA.

#### Dam Failure Inundation

- The second map illustrates the inundation zones should failure occur on the largest dams in Tulare County. Dam failure inundation zones are also provided for dams in two neighboring counties:
  - Failure of the Pine Flat Dam in Fresno County could affect a small portion of the northwestern corner of Tulare County.
  - Failure of the Isabella Dam in Bakersfield County could affect a small portion of the southwestern corner of Tulare County.
- The inundation areas represent the worst case scenario, i.e. total dam failure when reservoirs are filled.
- If Isabella Dam breaks there will likely be a large influx of people into Tulare County; can this be something that we address?
  - No, that is more of an emergency response issue. This plan can only address how to mitigate the hazard.
- Even though the Pine Flat Dam inundation zone barely touches Tulare County, there is a fire station about ¾ miles inside the County border which might be affected.
- Is Friant Kern Canal addressed?
  - Should Success Dam fail, the water will be diverted to Friant Kern canal, which will eventually go to White River and possibly Deer Creek.

#### Levee Failure Inundation

- There is not a map for levees and URS was not able to find much information regarding the levees in Tulare County.

- Most levees are agricultural levees and not certified.
  - Levees on White River are the only ones in the County that could potentially be up to certification standards
- White River has a history of levee failure. However, the bridge at White River was recently improved and seems to have solved the problem.
- Cottonwood – behind the juvenile facility – has a history of flooding
  - Jim May (RMA Flood control) noted that his agency is aware of the issue and actively trying to reduce the flooding.
- Known problem areas:
  - White River
  - Lewis Creek
  - Sand Creek
  - Cottonwood Creek
  - St. John’s River
  - Cross Creek
  - North Fork of the Tule River (capacity problem)
  - Porter Slough
  - North Fork/Middle Fork of Kaweah River
- Channel clearing is the most important issue regarding flooding.
- Tulare is not included in the statewide effort to assess/analyze all levees.
- Possible mitigation actions:
  - Assess/analyze levees in Tulare County.
  - Development and enforcement of codes.

### **Fog:**

- This map illustrates the typical fog zones (based upon elevation).
- There have been a number of fog related traffic incidents in Tulare County over the years. Other than fog warning systems, not sure how the hazard of fog can be mitigated.
- This hazard profile will remain in the HMP but NOT be included in the vulnerability analysis.

### **Hazardous Materials (mobile and fixed incidents):**

- The map for mobile incidents illustrates the major transportation corridors in Tulare County and a ¼ mile buffer around each transportation corridor.
- The map for a fixed incidents illustrates the locations of each California Accidental Release Prevention facility, with a ¼ mile buffer around each facility.
  - Important to note that these are private facilities, but can affect city/county facilities.
  - CUPA facilities should be included as well; map is currently missing about 1000 facilities.
- Is it worth overlaying a wind plot?
  - No, too hard to predict for a single map and most facilities have a program to track wind at the exact time of the incident.
- This hazard profile will remain in the HMP and will be included in the vulnerability analysis.

### Heat:

- No map. Tulare County does experience extreme heat
- Not sure what type of mitigation actions could be involved, but we will leave the text in the hazard profile section
- This hazard profile will remain in the HMP but NOT be included in the vulnerability analysis.

### Landslide/Mudslide:

- No map. There are no publicly available data on the hazard areas or records of any major incidents.
  - USGS and CGS have data for other parts of the state, but do not have data for Tulare County.
- Does anyone know of another data source?
  - No known source
- Biggest issue is how this hazard will affect roads; will need to determine if the roads are state or county roads. (Jim May is the contact for county roads)
- 198 is the road that stands out.
- If no major occurrences have occurred, what are our chances of getting mitigation money?
  - It will be difficult to get mitigation money without a history of repeated incidents.
- At this time, this hazard is not a major problem in the County.
  - However, it is important to ensure that future planning/development takes this hazard into consideration
- This hazard profile will remain in the HMP but NOT be included in the vulnerability analysis.

### Liquefaction:

- No map. The type of soil found in Tulare County is not terribly conducive to liquefaction.
- Should we address liquefaction due to the failure of Success Dam?
  - This would actually fall under the dam inundation flooding hazard.
- If there's no objection, we will assume this means everyone is in agreement to remove this hazard from the plan.
- Will be removed from the HMP.

### Post Fire Debris Flow:

- This map is based upon recently burned areas, areas with a slope of 30 degrees and greater, and the streams/channels within the areas (mapped for 2 miles).
- We did not find any direct data regarding post fire debris flow.
  - Cal Fire FRAT database was suggested as an additional source of information.
- Note: generally anything above 3,500 feet elevation is on federal land.
- This hazard profile will remain in the HMP and will be included in the vulnerability analysis.

**Severe Winter Storms:**

- The first map illustrates occurrence of wind based on data from the National Weather Service. The map illustrates the number of days/year experiencing wind gusts of 50 miles per hour and greater.
- The second map illustrates the annual snowfall.
  - Suggestion of overlay with wind data, for tree failure on roadways.
- The third map illustrates freeze, and shows the mean number of days with temperatures of 32 degrees or less.
  - Suggestion to overlay with wind data.
- This hazard profile will remain in the HMP and will be included in the vulnerability analysis.

**Volcano:**

- Long Valley Caldera is an active volcano, 2 counties north of Tulare (Mono County). The chance of eruption is less than 1% chance per year.
- Should the volcano erupt the main concern to Tulare County would be ash fall.
- The map illustrates areas that could potentially accumulate one meter or more of ash fall.
  - Only the very northern portion of Tulare County is included in this hazard area
  - Additionally, ash fall in the County will be determined by the wind direction, which tends to flow from west to east (not north to south, which would be required for Tulare to be affected).
- Important to note that this map illustrates a worst case scenario for a very unlikely event and would be difficult to mitigate.
- This hazard profile will remain in the HMP but NOT be included in the vulnerability analysis.

**Wildfire:**

- The first map illustrates the local responsibility areas and the second map illustrates the state responsibility areas.
- This hazard profile will remain in the HMP and will be included in the vulnerability analysis.

**Assets and Critical Facilities**

- URS needs to gather data on county-owned, city-owned, and tribal-owned assets and critical facilities
  - We have already received some data from the County GIS.
- However, additional data are needed from City GIS departments, assessors offices, or insurance offices
  - URS will be collecting the contact information for those whom you think will be best for us to contact to gain asset/critical facility data.
  - Most specifically what is needed are facility names, locations, and if known, replacement cost values.
- Important to remember that data is only needed for city, county and tribal facilities.
  - Funding will not apply to state and federal facilities.



- Locations of assets/critical facilities will be mapped and analyzed to identify which facilities are vulnerable to each hazard.

### Capability Assessment Worksheets

- The purpose of the capability assessment is to identify and evaluate the resources available to assist in mitigation efforts.
- These worksheet will provided to you in electronic form.
  - Worksheet 1: Human and Technical Resources
  - Worksheet 2: Financial Resources
  - Worksheet 3: Legal and Regulatory Resources
  - Worksheet 4: Current and Ongoing Mitigation Actions
- Portions of the worksheets will be highlighted; these are the areas to complete.
  - The rest of the text has been filled in for you, but please edit as needed.

### Deadlines

- Comments on Hazard Profiles and Maps due by: 9/13
- Capability Assessment Worksheets due by: 9/27

Next Meeting: November 2010

- Purpose: Review vulnerability assessment



**TULARE COUNTY**  
**HAZARD MITIGATION PLANNING PROJECT**



**Hazard Mitigation Planning Committee**  
**Meeting #3**  
**10:00 – 11:30 AM**  
**Wednesday, December 8, 2010**  
**RMA Main Conference Room**  
**5961 S. Mooney Blvd., Visalia**

**AGENDA**

<u>Time</u>	<u>Description</u>	<u>Led By</u>
10:00 – 10:10	<b>Introductions</b> Tulare County Office of Emergency Services Hazard Mitigation Planning Committee URS	Amber Smith, OES
10:10 – 10:20	<b>Reminder: Time Tracking Requirements for Matching Grant</b>	Amber Smith, OES
10:20 – 10:30	<b>Brief Recap of Hazard Mitigation Planning Process and Schedule*</b>	Amy Jewel, URS
10:30 – 11:15	<b>Discussion of Vulnerability Analysis*</b> <ul style="list-style-type: none"> <li>• Methodology</li> <li>• Results and Key Findings</li> <li>• Review Process</li> </ul>	Lindsey Trumpy, URS
11:15 – 11:30	<b>Review Capability Assessment Worksheet*</b> Types (county/city, tribal, school district) <ul style="list-style-type: none"> <li>• Human and Technical Resources</li> <li>• Financial Resources</li> <li>• Legal and Regulatory Resources</li> <li>• Current, Ongoing, and Completed Mitigation Projects</li> </ul>	Amy Jewel, URS
11:30	<b>Recap of Action Items and Next Steps</b>	Amber Smith, OES

\*Additional handout



**TULARE COUNTY  
HAZARD MITIGATION PLANNING PROJECT**

**Minutes: Hazard Mitigation  
Planning Committee Meeting #3  
Wednesday, December 8th, 2010**



**Time Tracking:**

HMP Committee members are being asked to track their time and other expenses related to developing the HMP for the County's matching grant requirements. Note that only \$1,400 of matching funds have been recorded through time tracking, and total matching funds must equal \$30,000.

- Timesheets are to be filled out to track non-meeting labor (time spent at HMP Committee Meetings is already captured and should not be included on the timesheets).
- Timesheets to be submitted to OES each month.

**Recap of HMP Process:**

The following is a brief recap of the major milestones of the HMP development process:

<u>Milestone</u>	<u>Status</u>
1. Hazard Identification	Complete
2. Hazard Analysis	Complete
3. Assets Identification	Complete in draft form
4. Vulnerability Analysis	Complete in draft form
5. Capability Assessment	Not yet complete
6. Mitigation Strategies	Not yet complete
7. Plan Maintenance	Not yet complete
8. Planning Process	Not yet complete

See end of notes on the next page for upcoming deadlines.

**Vulnerability Analysis:**

The overall purpose of the vulnerability analysis is to predict the extent of exposure that may result from a hazard event. The analysis allows the community to see the number of residential structures and critical facilities that are vulnerable. Results of the analysis will help to identify and prioritize mitigation measures.

Methodology of the vulnerability analysis was described. Some of the major points are:

- URS developed the list of assets and critical facilities using data from GIS departments, and other publicly available data. Some city and county representatives also reviewed earlier drafts of the list and provided additional data.
- There are no data on the asset value for some facilities.
- The source of data for population and residential structures (number of structures and value) was the 2000 Census. Data from census blocks were used. A multiplier was applied to the

2000 data to estimate 2010 values for population and the number of residences. The 2000 average residential value was applied to the estimated 2010 number of residences to estimate the total 2010 value of residential buildings in each census block.

- URS assumed a uniform distribution of population and structures within each census block
- GIS was used to determine the population, residences, and critical facilities that would be affected by each hazard using previously-developed hazard maps.
- The methodology for the vulnerability analysis assumes the worst case scenario – all facilities in the hazard zone would be destroyed in the case of a disaster.
- No estimates of death or injuries are provided, only the number of the population that would be in the affected hazard area.

HMP participants were asked to review asset lists and vulnerability analysis and provide comments. The full list of critical facilities and the vulnerability analysis will be posted on the HMP website.

Participants noted the following points:

- There are no road yards included in the critical facilities lists. These are crucial in times of emergency because they contain fueling stations.
- RMA may have a complete list of all county facilities that could be used as an additional data source.
- Warming and cooling centers and shelters may need to be added to the list.

In addition, there was a question about the use of the 2000 Census data. However, the 2010 census data will not be available in time to be used for this project due to upcoming project deadlines.

### **Capability Assessment Worksheets:**

- URS went through each page of the capability assessment worksheet to describe what participants need to complete.
- Highlighted text requires editing; the rest of the document is pre-filled with standard information.
- Worksheets will be posted on the HMP project website.

### **Deadlines**

- Comments on Critical Facilities and Infrastructure List due by: 12/31/10
- Capability Assessment Worksheets due by: 1/14/11

Next Meeting: February 2010

- Purpose: Discuss development of mitigation strategies



**TULARE COUNTY**  
**HAZARD MITIGATION PLANNING PROJECT**

Hazard Mitigation Planning Committee  
Meeting #4  
10:30AM – 12:00 PM  
Monday, January 31, 2011  
Pine North & South Conference Rooms, Government Plaza  
5957 S. Mooney Blvd., Visalia



**AGENDA**

<u>Time</u>	<u>Description</u>	<u>Led By</u>
10:30 – 10:40	<b>Introductions</b> Tulare County Office of Emergency Services Hazard Mitigation Planning Committee URS	Amber Smith, OES
10:40 – 11:00	<b>Brief Recap of Hazard Mitigation Planning Process and Schedule</b>	Amy Jewel, URS
11:00 – 11:45	<b>Mitigation Strategy</b> FEMA Mitigation Grants* Mitigation Strategy Workbook* <ul style="list-style-type: none"> <li>• Understanding FEMA’s Mitigation Action Criteria</li> <li>• Reviewing Potential Mitigation Actions</li> <li>• Prioritizing Mitigation Actions</li> <li>• Developing a Mitigation Action Plan</li> </ul>	Lindsey Trumpy, URS Amy Jewel, URS
11:45 – 12:00	<b>Next Steps</b>	Amber Smith, OES

\*Additional handout



TULARE COUNTY  
HAZARD MITIGATION PLANNING PROJECT

Minutes: Hazard Mitigation  
Planning Committee Meeting #4  
Monday, January 31, 2011



**Recap of HMP Process:**

The following is a brief recap of the major milestones of the HMP development process:

Milestone	Status
1. Hazard Identification	Complete
2. Hazard Analysis	Complete
3. Assets Identification	Complete
4. Vulnerability Analysis	Complete
5. Capability Assessment	In progress
6. Mitigation Strategies	Not yet complete
7. Plan Maintenance	Not yet complete
8. Planning Process	Not yet complete

See end of notes on the next page for upcoming deadlines.

**Mitigation Strategy:**

The Mitigation Strategy is the heart of the HMP. Each Participant must complete a Mitigation Strategy using the Mitigation Strategy Workbook. Each Participant must select a minimum of two strategies that are implementable over the next five years. The focus is on strategies that may be funded by grants from FEMA, although other strategies may also be included in the HMP.

**Mitigation Strategy Workbook:**

- URS developed the list potential mitigation strategies that each Participant should consider. This list is located in Table 1.
- Additional strategies that may be considered should be added by each Participant at the end of Table 1.
- The next step is to prioritize the strategies in Table 2.
- The Prioritization Criteria to be used is as follows:
  - A. A local jurisdiction department or agency champion currently exists or can be identified
  - B. The action can be implemented during the 5-year lifespan of the HMP
  - C. The action may reduce expected future damages and losses (cost-benefit)
  - D. The action mitigates a high-risk hazard
  - E. The action mitigates multiple hazards
- If a strategy meets 3 or more of the above criteria (A, B, C, D, E), it should be selected to be included. Mark "Yes" for that strategy in Table 2.

Tulare County Hazard Mitigation Planning Project

Hazard Mitigation Planning Committee Meeting #4

- If a strategy is selected, additional information is needed: Facility to be mitigated (if known), Department or Agency to implement the strategy, and Timeframe to be implemented. These are additional fields in Table 2, but should only be filled in for the strategies marked with a “Yes” in Table 2 after the prioritization of the strategies.

### Deadlines

- Capability Assessment Worksheets due by: 2/4/11
- Mitigation Workbooks due by 3/4/11

Next Meeting: April or May 2011

- Purpose: Discuss first draft of the Hazard Mitigation Plan



**TULARE COUNTY  
HAZARD MITIGATION PLANNING PROJECT**

**Hazard Mitigation Planning Committee  
Meeting #5  
9:30AM – 11:00 AM  
Wednesday, May 25, 2011  
RMA Main Conference Room, Government Plaza  
5961 S. Mooney Blvd., Visalia**



**AGENDA**

<u>Time</u>	<u>Description</u>	<u>Led By</u>
9:30 – 9:40	<b>Introductions</b> Tulare County Office of Emergency Services Hazard Mitigation Planning Committee URS	<b>Amber Smith, OES</b>
9:40 – 9:50	<b>Brief Recap of Hazard Mitigation Planning Process and Schedule</b>	<b>Amy Jewel, URS</b>
9:50 – 10:30	<b>Discussion of Draft Hazard Mitigation Plan*</b> Sections 1-8 Appendices	<b>Lindsey Trumpy, URS Amy Jewel, URS</b>
10:30 – 10:45	<b>Discussion of Public Workshop</b> Agenda Publicity	<b>Lindsey Trumpy, URS Amy Jewel, URS</b>
10:45 – 11:00	<b>Next Steps</b>	<b>Amber Smith, OES</b>

\* Copies of the Draft Hazard Mitigation Plan will be mailed to each Committee member in advance of the meeting. Please bring your copy to the meeting as additional copies will not be provided.





**TULARE COUNTY**  
**HAZARD MITIGATION PLANNING PROJECT**

**Minutes: Hazard Mitigation**  
**Planning Committee Meeting #5**  
**Wednesday, May 25, 2011**



**Recap of HMP Process:**

The following is a brief recap of the major milestones of the HMP development process:

<u>Milestone</u>	<u>Status</u>
1. Hazard Identification	Complete
2. Hazard Analysis	Complete
3. Assets Identification	Complete
4. Vulnerability Analysis	Complete
5. Capability Assessment	In progress
6. Mitigation Strategies	In progress
7. Plan Maintenance	Complete
8. Planning Process	In progress

See end of notes on the next page for upcoming deadlines and a summary of the project schedule moving forward.

**Draft Hazard Mitigation Plan:**

Hard copies of the Draft Plan were previously mailed out to the designated participants. This meeting briefly discussed each section of the plan; comments on any part of the plan are welcome.

**Section 1: Introduction**

- This section includes the community profiles; profiles have been reviewed previously, but please review one more time to ensure all information is up to date and reads as you would prefer.

**Section 2: Prerequisites**

- This section describes the prerequisite requirements for the HMP by FEMA.

**Section 3: Planning Process**

- This section documents the planning process. It is important to illustrate that this plan was developed by the County with the involvement of several stakeholders. This section notes and summarizes all meetings that we have held.

**Section 4: Hazard Profiles**

- This section contains the hazard profiles for the hazards chosen by the Planning Committee. For each hazard the following is discussed: Nature, Location, Extent, History, and Probability of Future Events. Corresponding maps are found in Appendix C.

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

- This section predicts the extent of exposure that may result from a hazard event of a given intensity in a given area. For this section, we created an inventory of all critical facilities in Tulare County, and then overlaid each individual hazard zone with the inventory of facilities. The end result lists each critical facility that is vulnerable to each hazard.

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

- This section identifies and evaluates the human and technical, financial, and legal and regulatory resources available for hazard mitigation and describes current, ongoing, and recently completed mitigation projects. Capability Assessment workbooks, containing four tables for completion, were used to complete this task (completed tables are found in the jurisdiction specific appendices).
- We still need to receive completed Capability Assessment Tables from some participants (specific jurisdictions will be notified individually).

### **Section 7: Mitigation Strategy**

- This section discusses the process by which each participating jurisdiction evaluates and prioritizes mitigation actions, to assist in the development of their jurisdiction specific mitigation action plan. A Mitigation Action workbook, containing two tables, was used to complete this task (completed tables are found in the jurisdiction specific appendices).
- We still need to receive the completed Mitigation Action Plan from some participants (specific jurisdictions will be notified individually).
- Andrew Lockman (OES) asked how many people were confident that the Mitigation Action Plan for their jurisdiction had been taken to/approved by the appropriate people; this HMP will be a publicly available document.
  - If this has not been done already, please take this opportunity to ensure the appropriate people have viewed the Mitigation Action Plan before the plan is presented for approval.

### **Section 8: Plan Maintenance**

- This section discusses plan maintenance process developed to ensure the plan remains an active and applicable document. Each HMP has a life of five years, but throughout those five years it is important to continually monitor, evaluate and update the plan as necessary.
- It is also important to ensure that any applicable pieces of this plan are carried over to relevant future planning efforts.

### **Section 9: References**

#### **Appendices**

- The most important pieces for the Planning Committee to review are the jurisdiction specific appendices (appendices G-Q).
- These are the newest addition to the plan; please review and provide URS with any comments/feedback

### **Public Workshop:**

We will be holding public workshops and will be developing specific details with Tulare County OES, but wanted to get input from the planning committee regarding the goal of the workshops, dates, time, structure and publicity.

**Goal:** It was decided that the goal of the workshops should be to explain what the HMP is and how it helps the County reduce damage from future hazard occurrences.

- Very small focus on the actual hazards because residents tend to know their vulnerabilities and do not need further education

**Dates:** Mid/End of July, not the 4<sup>th</sup> or the 12<sup>th</sup>.

- Planning Committee members felt the residents of their jurisdictions would have a strong interest in these workshops and suggested holding a large number of them
- URS's original thought was two workshops; based upon previous experience these workshops have had low interest/attendance
- Andrew Lockman (OES) suggested two: one focused toward agency representatives and one focused toward the general public
- To be further discussed with Tulare County OES

**Time:** Workshops should be offered both during the day and at night, for a couple hours each.

**Structure:** The first half of the workshop to be designed as a presentation, the second half open for Question and Answer.

**Publicity:** A variety of ideas were discussed for publicizing the workshops, but it was decided that we first need to solidify the audience, the number of workshops and their locations to determine the best method of publicity.

### **Next Steps:**

#### **Courtesy Review Process:**

- The plan will be reviewed first by Cal EMA, then by FEMA.
- Their comments will be applied to the plan and a Final PHMP will be developed

#### **Adoption Process:**

- Before being approved by FEMA, Tulare County must formally adopt the Final HMP.
- Once adopted by the County the plan will be submitted to FEMA for official approval
- Within one year, each participating jurisdiction must adopt the Final HMP and submit a copy of the resolution to 1) Tulare County OES and 2) FEMA.

### **Deadlines**

- Missing Capability Assessment Worksheets and Mitigation Action Plans are due by Friday, June 10th
- All additional comments on any portion of the plan are also due June 10th

**Summary of Project Schedule Moving Forward**

<b>Action</b>	<b>Due Date</b>
Discuss Draft of Hazard Mitigation Plan	May 25, 2011
Final Comments and Pieces Due to URS	<b>June 10, 2011</b>
Final Draft of Hazard Mitigation Plan	June 2011
Submit Plan for Courtesy Review	June 2011
Hold Public Workshop	July 2011
Finalize Plan	August 2011
Adopt and Submit Plan	August 2011

**Appendix E**  
**Public Outreach**

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**TULARE COUNTY HAZARD MITIGATION PLAN WEBSITE - HOMEPAGE SCREENSHOT**

Monday, April 25, 2011 Tulare County website - Tulare County OES



# TULARE HAZARD MITIGATION PLAN

Home - Plan Participants - Planning Documents - Contact Us

## County Multi-Jurisdictional Hazard Mitigation Plan

The Tulare County Office of Emergency Services (OES), in conjunction with incorporated cities and special districts in Tulare County and the Tule River Tribe, has begun the process of drafting a Multi-Jurisdictional Hazard Mitigation Plan (HMP). The HMP will analyze a wide range of potential natural and man-made hazards, and prioritize future projects that will reduce damage and impacts from disasters. The county-wide plan is expected to be completed by September 2011.

The plan will encompass all unincorporated areas within the county, as well as the cities of Dinuba, Exeter, Lindsay, Porterville, Tulare, Visalia, and Woodlake, and Tule River Tribe Lands.

Once the HMP is approved, Tulare County and other plan participants will be eligible to apply for and receive Federal hazard mitigation funds following a disaster, as well as certain types of pre-disaster hazard mitigation funding. The HMP is being completed as per the requirements in the Disaster Mitigation Act of 2000 (see below for more information about this Act). The Federal Emergency Management Agency (FEMA) is responsible for reviewing and approving state and local plans. For information about the FEMA's requirements for preparation of HMPs, please see FEMA's Local Multi-Hazard Mitigation Planning Guidance at the following link:  
<http://www.fema.gov/library/viewRecord.do?id=3336>

## Hazard Mitigation Planning Committee

Under the direction of OES, a Hazard Mitigation Planning Committee has been created to steer development of the HMP. The Committee includes county, city, special district, and tribal representatives, as well as representatives from state and federal agencies with facilities and responsibilities in Tulare County.

## NEWS AND ANNOUNCEMENTS

Please see the Planning Documents page for updated items to review. Participants should provide completed copies of the Tulare HMP Mitigation Workbook by March 4, 2011.



2004 Deep Fire

**MEDIA OUTREACH PLAN FOR PUBLIC WORKSHOP: PUBLIC PRESENTATION -**  
**DRAFT TULARE COUNTY HAZARD MITIGATION PLAN**

Tulare County Health & Human Services Agency  
Media & Marketing Services

**Media Outreach Plan**  
Tulare County Hazard Mitigation Plan Draft Public Presentations

**Branch:** Administration    **Date:** 7/5/11 – 7/21/11  
**Budget Amount:** N/A    **Orgs to Charge:** N/A    **Object:** N/A

**Agency Contact:** Allison Lambert, Media Specialist  
Location: Government Plaza, second floor  
Telephone: (559) 624-8007  
Email: [ALambert@tularehhsa.org](mailto:ALambert@tularehhsa.org)

**Campaign Overview:**

The Tulare County Health and Human Services Agency's Office of Emergency Services (OES), in cooperation with eight of the County's cities, the County Office of Education (on behalf of the school districts in the County), and the Tule River Tribe, has launched a countywide effort to review the risks posed by man-made and natural disasters and identify ways to reduce the damage from those risks.

In order for citizens to learn more about the draft plan, three informational sessions will be held on July 21, 2011. In order to properly publicize these upcoming meetings, a comprehensive media plan including outreach to broadcast, print and web based media entities will roll out.

**Events:**

- Public Presentation – Draft Tulare County Hazard Mitigation Plan
  - Three sessions to all be held on July 21, 2011:
    1. Morning Session: 10:00 am – 11:30am  
Porterville City Hall, Council Chambers  
291 N. Main Street  
Porterville, CA 93257
    2. Afternoon Session: 2:00 – 3:30 pm  
Dinuba City Hall, Council Chambers  
405 Avenue 416  
Dinuba, CA 93618
    3. Evening Session: 6:00 pm – 7:30 pm  
Visalia City Hall  
707 Acequia  
Visalia, CA 93291



**Tulare County Health & Human Services Agency**  
**Media & Marketing Services**

**Specific Services Needed:**

- Media & Marketing - Press Releases  
(Allison Lambert) - Copy for all postings and blasts  
- Management and roll out of media plan
- Translation - Spanish translation on all necessary materials  
(Yolanda Saldana)

**Media Strategies:**

In order to maximize the publicity for the events that will be taking place, print, broadcast, and online media resources will need to be utilized to take full advantage of all possibilities of free publicity.

**1) Press Releases and Media Advisories**

- Press Release: Presentations Announced
  - o Released: 7/7/11
    - Only English released
- Press Release: Presentations Announced
  - o Released: 7/12/11
    - Both English and Spanish released

**2) Broadcast Advertisement:**

- Interview Radio Spots
  - o Pitch interview piece with KTIP AM 1450
    - 5 minute interview aired week of 7/11 and 7/18
  - o Pitch interview piece with La Campesina 90.5 FM
    - Included information on meetings during news broadcasts
- See also *Community Calendar Postings*

**3) Print Advertisement:**

- Submit copy and articles to local print outlets; work with reporters on articles or news briefs:
  - o 7.15.11 Article in Kings River Life Magazine
    - "Flood, Fire, Earthquake and Man Made Disasters"
  - o 7.17.11 Article in Visalia Times Delta
    - "Three talks on disasters slated for Tulare County"
  - o 7.18.11 Article in Visalia Times Delta
    - "County Hazard Mitigation meetings planned"
- See also *Community Calendar Postings*

**4) Community Calendar Postings:**

- Print Media Community Calendar Posting
  - o Time of Run: 7/6/11 – 7/21/11

**Tulare County Health & Human Services Agency**  
**Media & Marketing Services**

- o No cost associated with this form of messaging
- o Will include posting on all local print newspapers and their websites
  - Visalia Times Delta
  - Porterville Recorder
  - Dinuba Sentinel
  - Foothill Sun Gazette
  - Valley Voice Newspaper
  - Tulare Voice Newspaper
  - Fresno Bee
- Broadcast Media Community Calendar Posting
  - o Time of Run: 7/6/11 – 7/21/11
  - o No cost associated with this form of messaging
  - o Will include submissions for their on air “Community Calendar” and station websites.
    - ABC Channel 30
    - CBS Channel 47
    - NBC Channel 24
    - FOX Channel 26
    - PBS Channel 18
    - CW Channel 59
- Website Community Calendar Posting
  - o Time of Run: 7/6/11 – 7/21/11
  - o No cost associated with this form of messaging
  - o Will include posting on all local print newspapers and their websites
    - [www.porterville.com](http://www.porterville.com)
    - [www.visitvisalia.com](http://www.visitvisalia.com)
    - [www.kingsriverlife.com](http://www.kingsriverlife.com)
    - [www.portervillepost.com](http://www.portervillepost.com)
    - [www.zvents.com](http://www.zvents.com)

**6) Web:**

- Social Media
  - o Utilize HHSA Twitter account for messaging
    - Post messages and [www.tularehmp.com](http://www.tularehmp.com) link on account and interface with other partner and media Twitter accounts
  - o Utilize HHSA facebook account for messaging and event postings
    - All three presentations listed under “Events” and posted as open invitation
    - Post messages and [www.tularehmp.com](http://www.tularehmp.com) on HHSA Page and all partner and media outlet facebook pages
- HHSAnet
  - o Time of Run: 7/13/11 – 7/21/11
  - o No cost associated with this form of messaging
- HHSA.org
  - o Time of Run: 7/11/11 – 7/21/11
  - o No cost associated with this form of messaging
- Tulare.ca.us (County Website)
  - o Time of Run: 7/12 – 7/21/11

**Tulare County Health & Human Services Agency**  
**Media & Marketing Services**

- o Have requested coverage with BOS staff, submitted copy
  - Completed w/help of Board Reps and IT Staff
- o No cost associated with this form of messaging

**7) Email Blasts:**

- Email Blasts to Local Chambers
  - o Sent: 7/7/11 and 7/12/11
  - o No cost associated with this form of messaging
  - o Will include:
    - Press Release
- Email Blast to Community Contacts
  - o Sent: 7/7/11 and 7/12/11
  - o No cost associated with this form of messaging
  - o Will include:
    - Press Release

**Support from Administration – Office of Emergency Services**

- *Approval*
  - o All materials that are developed must be approved by Amber Smith before distribution
  - o Upon the distribution of materials, the following HHSA parties will be CC'd or BC'd:
    - Kevin Marks
    - Amber Smith
    - Andrew Lockman
    - David Lee

**MEDIA RELEASE - PUBLIC WORKSHOPS**



**TULARE COUNTY HEALTH AND HUMAN SERVICES  
OFFICE OF EMERGENCY SERVICES  
MEDIA RELEASE**



*www.OESTulareHHSA.org*

**Nature of Event:** Public Presentation- Draft Tulare County Hazard Mitigation Plan

**Date, Time, and Locations:** July 21, 2011

Morning Session: 10:00 am – 11:30am\*  
Porterville City Hall, Council Chambers  
291 N. Main Street  
Porterville, CA 93257

Afternoon Session: 2:00 – 3:30 pm\*  
Dinuba City Hall, Council Chambers  
405 Avenue 416  
Dinuba, CA 93618

Evening Session: 6:00 pm – 7:30 pm\*  
Visalia City Hall  
707 Acequia  
Visalia, CA 93291

\* Should additional time be needed, presenters will be available for an additional 30 minutes following each session.

**Agency Responsible:** Tulare County Health and Human Services Agency, Office of Emergency Services

**Narrative:**

The Tulare County Health and Human Services Agency's Office of Emergency Services (OES), in cooperation with eight of the County's cities, the County Office of Education (on behalf of the school districts in the County), and the Tule River Tribe, has launched a countywide effort to review the risks posed by man-made and natural disasters and identify ways to reduce the damage from those risks.

The planning process, which has been underway for over a year, will result in the preparation of a Multi-Hazard Mitigation Plan. This plan is required under the Federal Disaster Mitigation Act of 2000 in order for jurisdictions to be eligible to receive certain forms of Federal disaster assistance. OES has received a grant from the Federal Emergency Management Agency (FEMA) for preparation of the County's Multi-Hazard Mitigation Plan.

Tulare County is vulnerable to a wide range of disasters. In the past year, Tulare County has received a Presidential disaster declaration due to flooding. The risks posed by flooding and other hazards increases as the County's population continues to grow. The plan will provide the County, the participating cities, the special districts, and the Tribe with the necessary tools to prioritize future actions for reducing the damage from these risks. Additionally, the plan will provide a framework for future requests for Federal assistance to institute risk-reducing actions.

Various documents from the process of developing the County's Multi- Hazard Mitigation Plan can be found on the project website. To view these documents, residents may go to [www.tularehmp.com](http://www.tularehmp.com).

To learn more about the draft plan we invite you to attend one of the three information sessions on July 21, 2011(details above). The agenda for each session will be identical and each will include an opportunity for Q&A. Additionally, the project website offers an opportunity to provide public comments after the July 21<sup>st</sup> sessions. OES intends to finalize the plan by August 2011, at which point it will be adopted by the County and all participating jurisdictions.

For further information, contact OES Manager, Amber Smith at (559) 624-7497

*Follow-up Contact:* Amber Smith, OES Manger at (559) 624-7497

*Approved By:* XXX

*Date of Release:* July 7, 2011 and July 12, 2011  
###

**PUBLIC WORKSHOP AGENDA - EXAMPLE AGENDA FROM MORNING SESSION**



TULARE COUNTY  
HAZARD MITIGATION PLANNING PROJECT

Public Presentation - Tulare County Hazard Mitigation Plan  
Morning Session  
10:00AM – 11:30 AM\*  
Thursday, July 21, 2011  
Porterville City Hall, Council Chambers  
291 N. Main Street, Porterville, CA 93257



AGENDA

<u>Time</u>	<u>Description</u>	<u>Led By</u>
10:00 – 10:15	<b>Introductions</b> Tulare County Office of Emergency Services URS	Amber Smith, OES
10:15 – 10:30	<b>Hazard Mitigation Plan Overview</b> Why Hazard Mitigation Planning Plan Components <ul style="list-style-type: none"> <li>- Vulnerability Analysis</li> <li>- Capability Assessment</li> <li>- Mitigation Strategies</li> </ul>	Amy Jewel and Lindsey Trumpy, URS
10:30 – 10:45	<b>Hazard Mitigation Plan Update Process</b> Planning Tasks/Planning Schedule	Amy Jewel and Lindsey Trumpy, URS
10:45 – 11:00	<b>Review Process</b> State and Federal Review Public Review	Amy Jewel and Lindsey Trumpy, URS
11:00 – 11:15	<b>Adoption Process</b>	Amy Jewel and Lindsey Trumpy, URS
11:15 – 11:30	<b>Questions and Answers</b>	OES and URS

\* OES and URS will be available until 12:00pm should additional Question and Answer time be needed.

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

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2011 Tulare County HMP - Annual Review Questionnaire				
HMP Section	Questions	Yes	No	Comments
<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?			

2011 Tulare County HMP - Mitigation Project Progress Report*	
Progress Report Period From (date):	To (date):
Project Title:	
Project ID:	
Description of Project:	
Implementing Agency:	
Supporting Agencies:	
Contact Name:	
Contact E-mail:	
Contact Number:	
Grant/Finance Administrator:	
Total Project Cost:	
Anticipated Cost Overrun/Underrun:	
Date of Project Approval:	
Project Start Date:	
Anticipated Completion Date:	
<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>	

**Appendix G  
Tulare County**

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

<b>Population</b>	<b>Residential Buildings</b>	<b>Total Residential Building Value(2000)</b>
145,633	45,520	\$3,992,710,700

(Average structural value of residences in Census blocks for the year 2000: \$121,827)

Source: U.S. Census Bureau, 2000, California Department of Finance, 2010

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

Category	Name	Address	Value
Community	Alpaugh Park	Tule Road and Park Avenue	Unknown
Community	Balch Park	48200 Bear Creek Drive	Unknown
Community	Bartlett Park	28801 Worth Drive	Unknown
Community	Cutler Park	15520 Ivanhoe Drive	Unknown
Community	Elk Bayou Regional Park	19701 Hosfield Drive	Unknown
Community	Kings River Nature Preserve	2 miles E of Highway 99 On Road 28	Unknown
Community	Lake Kaweah	25 miles E of Visalia On Highway 198	Unknown
Community	Lake Success	10 miles SE of Porterville On Highway 190	Unknown
Community	Ledbetter Park	12795 Avenue 408	Unknown
Community	Mooney Grove Park/Tulare County Museum	27000 S. Mooney Grove Boulevard	Unknown
Community	Pixley Park	850 N. Park Drive	Unknown
Community	Tulare County Library - Alpaugh Branch	3816 Avenue 54	Unknown
Community	Tulare County Library - Cutler/Orosi Branch	12646 Avenue 416	Unknown
Community	Tulare County Library - Dinuba Branch	150 South I Street	Unknown
Community	Tulare County Library - Earlimart Branch	780 East Washington Street	Unknown
Community	Tulare County Library - Exeter Branch	230 East Chestnut	Unknown
Community	Tulare County Library - Ivanhoe Branch	15964 Heather	Unknown
Community	Tulare County Library - Lindsay Branch	157 North Mirage Street	Unknown
Community	Tulare County Library - Pixley Branch	300 North School	Unknown
Community	Tulare County Library - Springville Branch	35800 Highway 190	Unknown
Community	Tulare County Library - Strathmore Branch	19646 Road 230	Unknown
Community	Tulare County Library - Terra Bella Branch	23825 Avenue 92	Unknown
Community	Tulare County Library - Three Rivers Branch	42052 Eggers Drive	Unknown
Community	Tulare County Library - Tipton Branch	221 North Evans Road	Unknown
Community	Tulare County Library - Visalia Branch	200 West Oak Avenue	Unknown
Community	Tulare County Library - Woodlake Branch	400 West Whitney	Unknown

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

Category	Name	Address	Value
Community	West Main Street Park	2 Blocks W of County Courthouse On Main St.	Unknown
Community	Woodville Park	16482 Avenue 168	Unknown
Emergency Response	Alpaugh Fire Station	3939 Avenue 54	Unknown
Emergency Response	Camp Nelson Fire Station	1500 Nelson Drive	Unknown
Emergency Response	Christian Faith Fellowship	506 N. Court St.	Unknown
Emergency Response	Community Of Christ Church	2127 S. Giddings	Unknown
Emergency Response	Cutler-Orosi Fire Station	40779 RD 128	Unknown
Emergency Response	Dinuba Fire Station	40404 RD 80	Unknown
Emergency Response	Doyle Colony Fire Station	1057 E. Date St.	Unknown
Emergency Response	Ducor Fire Station	23607 Avenue 56	Unknown
Emergency Response	Earlimart Fire Station	808 E. Washington Av	Unknown
Emergency Response	Exeter Fire Station	137 No. "F" St.	Unknown
Emergency Response	Farmersville Fire Station	Avenue 280/Road 164	Unknown
Emergency Response	Fire Administration Building	907 West Visalia Rd.	Unknown
Emergency Response	Gateway Church Of Visalia	1100 S Sowell	Unknown
Emergency Response	Goshen Fire Station	30901 RD 67	Unknown
Emergency Response	Ivanhoe Fire Station	32868 Hawthorn Rd	Unknown
Emergency Response	Kennedy Meadows Fire Station	Box 3A-10 Kennedy Meadows Road	Unknown
Emergency Response	Kings River Fire Station	3811 Avenue 400	Unknown
Emergency Response	Lemon Cove Fire Station	32490 Sierra Drive	Unknown
Emergency Response	Lindsay Fire Station	19603 Avenue 228	Unknown
Emergency Response	Lindsay First Assembly of God	360 E. Hermosa St.	Unknown
Emergency Response	Milo Forest Fire Station	38251 Yokohl Valley Rd	Unknown
Emergency Response	Pine Mountain Fire Station	Rt. 4 Box 665	Unknown
Emergency Response	Pixley Fire Station	200 No. Park Rd.	Unknown
Emergency Response	Posey Fire Station	Rt. 1 Box 239	Unknown

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

Category	Name	Address	Value
Emergency Response	Richgrove Fire Station	20890 Grove Drive	Unknown
Emergency Response	Springville Fire Station	35659 HWY 190	Unknown
Emergency Response	Springville Veterans Memorial Building	35978 Highway 190	Unknown
Emergency Response	Strathmore Fire Protection District	22908 Avenue 196	Unknown
Emergency Response	Terra Bella Fire Station	23658 Avenue 95	Unknown
Emergency Response	Tipton Fire Station	241 SO Graham Rd	Unknown
Emergency Response	Tulare County Consolidated Ambulance Dispatch (TCCAD)	125 N. N St.	Unknown
Emergency Response	Tulare County Sheriff - Personnel & Training	36004 Road 112	Unknown
Emergency Response	Tulare County Sheriff - Pixley Patrol Substation	161 N. Pine St	Unknown
Emergency Response	Tulare County Sheriff - Porterville Patrol Substation	379 North 3rd Street	Unknown
Emergency Response	Tulare County Sheriff's Department	36000 Road 112	Unknown
Emergency Response	Tulare County Sheriff's Department - Headquarters	2404 W. Burrel Avenue	Unknown
Emergency Response	Tulare Fire Station	2082 Foster Drive	Unknown
Emergency Response	Tulare Police Department	260 S. M ST	Unknown
Emergency Response	Tulare Veterans Memorial Building	1771 E. Tulare Avenue	Unknown
Emergency Response	Tulare Youth Center	848 North H Street	Unknown
Emergency Response	Valley Christian Church	432 E. Pleasant Avenue	Unknown
Emergency Response	Waukena Fire Station	2802 Avenue 192	Unknown
Emergency Response	West Olive Fire Station	22315 Avenue 152	Unknown
Emergency Response	Woodlake Christian Center	799 N. Valencia Boulevard	Unknown
Government	Government Plaza/Tulare County Elections	5951 S. Mooney Boulevard	Unknown
Government	Tulare County Administrative Office	2800 West Burrel Avenue	Unknown



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

Category	Name	Address	Value
Government	Tulare County Civic Center/Tulare County Superior Courts	221 S. Mooney Blvd	Unknown
Government	Tulare County Fire Dispatch/Radio Shop	11871 Avenue 272	Unknown
Government	Tulare County Human Resources & Development	2900 West Burrel Avenue	Unknown
Government	Tulare County Municipal Court	425 E. Kern Avenue	Unknown
Government	Tulare County Municipal Court	640 S. Alta Avenue	Unknown
Government	Tulare County Municipal Court	87 E. Morton Avenue	Unknown
Government	Tulare County Public Health Laboratory*	1062 South "K" Street	Unknown
Government	Tulare County Sheriff Substation - Cutler/Orosi	40765 Rd 128	Unknown
Incarceration	Tulare County Sheriff's Office - Bob Wiley Detention Facility	36712 Road 112	Unknown
Incarceration	Tulare County Sheriff's Office - Juvenile Detention Facility	11200 Avenue 368	Unknown
Incarceration	Tulare County Sheriff's Office - Men's Correctional Facility	36008 Road 112	Unknown
Incarceration	Tulare County Sheriff's Office - Pre-Trial Facility	36650 Road 112	Unknown
Transportation	County Bridge #1	1.75 mi N of SR 198	Unknown
Transportation	County Bridge #10	0.1 mi N of Avenue 224	Unknown
Transportation	County Bridge #100	0.4 mi S of SR 137	Unknown
Transportation	County Bridge #101	Avenue 280	Unknown
Transportation	County Bridge #102	2.0 mi E of SR 43	Unknown
Transportation	County Bridge #103	0.9 mi E of SR 43	Unknown
Transportation	County Bridge #104	0.3 mi W of SR 28	Unknown
Transportation	County Bridge #105	0.3 mi W of RD 20	Unknown
Transportation	County Bridge #106	0.2 mi W of RD 236	Unknown

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

Category	Name	Address	Value
Transportation	County Bridge #107	3.5 mi NW/O SR 190	Unknown
Transportation	County Bridge #108	0.2 mi E of RD 164	Unknown
Transportation	County Bridge #109	0.3 mi W RD 132	Unknown
Transportation	County Bridge #11	0.1 mi S of SR 198	Unknown
Transportation	County Bridge #110	0.6 mi N of Avenue 280	Unknown
Transportation	County Bridge #111	0.6 mi W of RD 68	Unknown
Transportation	County Bridge #112	0.7 mi E of SR 63	Unknown
Transportation	County Bridge #113	3.25 mi N of SR 198	Unknown
Transportation	County Bridge #114	0.9 mi N of Avenue 328	Unknown
Transportation	County Bridge #115	1.0 mi N of Avenue 328	Unknown
Transportation	County Bridge #116	0.6 mi S of Avenue 360	Unknown
Transportation	County Bridge #117	.5 mi SE of M193A	Unknown
Transportation	County Bridge #118	3.41 mi E of Balch Park	Unknown
Transportation	County Bridge #119	3 mi N of Jack Ranch Rd	Unknown
Transportation	County Bridge #12	1.2 mi N of Avenue 168	Unknown
Transportation	County Bridge #120	0.1 mi Balch Park Rd	Unknown
Transportation	County Bridge #121	0.3 mi S of Avenue 432	Unknown
Transportation	County Bridge #122	0.35 mi N SR 201	Unknown
Transportation	County Bridge #123	0.4 mi N of Avenue 368	Unknown
Transportation	County Bridge #124	@ Avenue 408	Unknown
Transportation	County Bridge #125	0.2 mi N of Avenue 264	Unknown
Transportation	County Bridge #126	3.5 mi N of SR 190	Unknown
Transportation	County Bridge #127	0.5 mi S of SR 198	Unknown
Transportation	County Bridge #128	6.7 mi E of Balch Park Rd	Unknown
Transportation	County Bridge #129	0.15 mi S of Avenue 224	Unknown
Transportation	County Bridge #13	Intersection with Avenue 272	Unknown

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

Category	Name	Address	Value
Transportation	County Bridge #130	.25 mi E of SR 63	Unknown
Transportation	County Bridge #131	.15 mi S of Fresno County Line	Unknown
Transportation	County Bridge #132	.25 mi N of SR 245	Unknown
Transportation	County Bridge #133	0.19 mi S of A456	Unknown
Transportation	County Bridge #134	0.1 mi SE SR 190	Unknown
Transportation	County Bridge #135	0.5 mi From Rd SD 243	Unknown
Transportation	County Bridge #136	.67 mi NE of R180	Unknown
Transportation	County Bridge #137	.18 mi W of R196	Unknown
Transportation	County Bridge #138	11.1 mi SE of Road M347	Unknown
Transportation	County Bridge #139	6.68 mi E of SR 198	Unknown
Transportation	County Bridge #14	4.0 mi N of SR 198	Unknown
Transportation	County Bridge #140	1.34 mi SE of Rd M347	Unknown
Transportation	County Bridge #141	1.42 mi SE of M347	Unknown
Transportation	County Bridge #142	4.1 mi SE Co Rd M347	Unknown
Transportation	County Bridge #143	2.23 mi SE of M120	Unknown
Transportation	County Bridge #144	5.11 mi SE/O M120	Unknown
Transportation	County Bridge #145	5.86 mi SE of M120	Unknown
Transportation	County Bridge #146	13.9 mi SE of M120	Unknown
Transportation	County Bridge #147	0.3 mi N of M56	Unknown
Transportation	County Bridge #148	16.4 mi E M109	Unknown
Transportation	County Bridge #149	11.94 mi SE of M50	Unknown
Transportation	County Bridge #15	1.25 mi W of Rd 224	Unknown
Transportation	County Bridge #150	4.81 mi SE of M50	Unknown
Transportation	County Bridge #151	0.2 mi W SR 245	Unknown
Transportation	County Bridge #152	0.1 mi E of Rd 168	Unknown
Transportation	County Bridge #153	0.2 mi E of Rd 156	Unknown

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

Category	Name	Address	Value
Transportation	County Bridge #154	1.0 mi N of Avenue 56	Unknown
Transportation	County Bridge #155	3.0 mi N of Avenue 56	Unknown
Transportation	County Bridge #156	0.5 mi N of Avenue 132	Unknown
Transportation	County Bridge #157	At Road 52	Unknown
Transportation	County Bridge #158	0.25 mi E of Rd 64	Unknown
Transportation	County Bridge #159	At Avenue 432	Unknown
Transportation	County Bridge #16	.1 mi S/O Avenue 32	Unknown
Transportation	County Bridge #160	At Avenue 416	Unknown
Transportation	County Bridge #161	0.1 mi W of Road 124	Unknown
Transportation	County Bridge #162	0.2 mi W of Rd 124	Unknown
Transportation	County Bridge #163	0.1 mi E of Road 140	Unknown
Transportation	County Bridge #164	At Road 144	Unknown
Transportation	County Bridge #165	0.4 mi E of Road 144	Unknown
Transportation	County Bridge #166	0.5 mi N of Avenue 420	Unknown
Transportation	County Bridge #167	0.2 mi W of Road 176	Unknown
Transportation	County Bridge #168	0.3 mi N of A390	Unknown
Transportation	County Bridge #169	0.2 mi N of Avenue 388	Unknown
Transportation	County Bridge #17	0.13 mi W of Rd 38	Unknown
Transportation	County Bridge #170	0.4 mi N of Avenue 384	Unknown
Transportation	County Bridge #171	0.6 mi W of SR 201	Unknown
Transportation	County Bridge #172	0.1 mi W of Road 200	Unknown
Transportation	County Bridge #173	0.2 mi N of Avenue 332	Unknown
Transportation	County Bridge #174	0.3 mi W of SR 245	Unknown
Transportation	County Bridge #175	0.1 mi W of SR 245	Unknown
Transportation	County Bridge #176	0.25 mi E of Road 200	Unknown
Transportation	County Bridge #177	0.1 mi E of Road 204	Unknown

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

Category	Name	Address	Value
Transportation	County Bridge #178	0.2 mi E of Road 206	Unknown
Transportation	County Bridge #179	0.3 mi E of Road 204	Unknown
Transportation	County Bridge #18	2.3 mi N of SR 198	Unknown
Transportation	County Bridge #180	0.8 mi E of Road 204	Unknown
Transportation	County Bridge #181	0.6 mi E of Road 216	Unknown
Transportation	County Bridge #182	0.1 mi E of Road 224	Unknown
Transportation	County Bridge #183	0.25 mi E of Road 228	Unknown
Transportation	County Bridge #184	0.1 mi E of Rd 228	Unknown
Transportation	County Bridge #185	0.35 mi E of Road 228	Unknown
Transportation	County Bridge #186	0.4 mi E of Rd 228	Unknown
Transportation	County Bridge #187	0.25 mi E of Road 228	Unknown
Transportation	County Bridge #188	0.25 mi E of Road 228	Unknown
Transportation	County Bridge #189	0.25 mi E of Road 228	Unknown
Transportation	County Bridge #19	0.1 mi S of Avenue 308	Unknown
Transportation	County Bridge #190	0.25 mi E of Road 228	Unknown
Transportation	County Bridge #191	0.25 mi W of Road 232	Unknown
Transportation	County Bridge #192	0.25 mi E of Road 228	Unknown
Transportation	County Bridge #193	0.25 mi W of Road 232	Unknown
Transportation	County Bridge #194	0.2 mi S of Avenue 200	Unknown
Transportation	County Bridge #195	At Road 234	Unknown
Transportation	County Bridge #196	0.1 mi E of Road 232	Unknown
Transportation	County Bridge #197	0.1 mi W of Road 232	Unknown
Transportation	County Bridge #198	At Drive 232/Newcomb St	Unknown
Transportation	County Bridge #199	0.25 mi W of Road 232	Unknown
Transportation	County Bridge #2	0.06 mi N of SR 198	Unknown
Transportation	County Bridge #20	0.25 mi E of Rd 156	Unknown

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

Category	Name	Address	Value
Transportation	County Bridge #200	0.25 mi W of Road 232	Unknown
Transportation	County Bridge #201	0.3 mi W of Road 232	Unknown
Transportation	County Bridge #202	0.25 mi E of Road 224	Unknown
Transportation	County Bridge #203	0.75 mi W of Road 224	Unknown
Transportation	County Bridge #204	At Avenue 216 (Paige Avenue)	Unknown
Transportation	County Bridge #205	1.0 mi N of Avenue 72	Unknown
Transportation	County Bridge #206	0.6 mi N of Avenue 160	Unknown
Transportation	County Bridge #207	1.1 mi N of Avenue 160	Unknown
Transportation	County Bridge #208	0.25 mi N of Avenue 176	Unknown
Transportation	County Bridge #209	0.5 mi S of Avenue 40	Unknown
Transportation	County Bridge #21	0.1 mi N of SR 198	Unknown
Transportation	County Bridge #210	0.3 mi N of Avenue 168	Unknown
Transportation	County Bridge #211	0.25 mi N of A 208	Unknown
Transportation	County Bridge #212	1.6 mi S of SR 137	Unknown
Transportation	County Bridge #213	0.68 mi N of Avenue 168	Unknown
Transportation	County Bridge #214	0.1 mi S of A186	Unknown
Transportation	County Bridge #215	0.25 mi N of A180	Unknown
Transportation	County Bridge #216	0.65 mi S of Avenue 192	Unknown
Transportation	County Bridge #217	0.5 mi S of Avenue 192	Unknown
Transportation	County Bridge #218	0.5 mi S of Avenue 40	Unknown
Transportation	County Bridge #219	1.0 mi N of Avenue 168	Unknown
Transportation	County Bridge #22	1.9 mi N of Avenue 328	Unknown
Transportation	County Bridge #220	0.63 mi S of SR 137	Unknown
Transportation	County Bridge #221	2.75 mi S of Avenue 56	Unknown
Transportation	County Bridge #222	0.1 mi N of Avenue 32	Unknown
Transportation	County Bridge #223	0.1 mi E of Rte. 168	Unknown

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

Category	Name	Address	Value
Transportation	County Bridge #224	0.67 mi N of Avenue 168	Unknown
Transportation	County Bridge #225	0.8 mi N of Avenue 168	Unknown
Transportation	County Bridge #226	1.4 mi N of Avenue 168	Unknown
Transportation	County Bridge #227	0.1 mi S of Avenue 188	Unknown
Transportation	County Bridge #228	0.23 mi N of Avenue 152	Unknown
Transportation	County Bridge #229	0.13 mi S of Avenue 176	Unknown
Transportation	County Bridge #23	0.45 mi W of Road 192	Unknown
Transportation	County Bridge #230	0.3 mi S Henderson Avenue	Unknown
Transportation	County Bridge #231	0.47 mi S of Avenue 176	Unknown
Transportation	County Bridge #232	0.05 mi S of Avenue 224	Unknown
Transportation	County Bridge #233	@ Avenue 236	Unknown
Transportation	County Bridge #234	0.13 mi N of Avenue 232	Unknown
Transportation	County Bridge #235	0.25 mi S of Avenue 220	Unknown
Transportation	County Bridge #236	0.5 mi E of SR 43	Unknown
Transportation	County Bridge #237	1.1 mi E of SR 43	Unknown
Transportation	County Bridge #238	At Rd 24	Unknown
Transportation	County Bridge #239	0.12 mi W of Rd 202	Unknown
Transportation	County Bridge #24	0.75 mi W of Rd 180	Unknown
Transportation	County Bridge #240	0.2 mi E of Rd 152	Unknown
Transportation	County Bridge #241	0.25 mi W of Rd 168	Unknown
Transportation	County Bridge #242	At Rd 52	Unknown
Transportation	County Bridge #243	0.18 mi E of Rd 132	Unknown
Transportation	County Bridge #244	0.18 mi E of Rd 140	Unknown
Transportation	County Bridge #245	0.25 mi E of Rd 244	Unknown
Transportation	County Bridge #246	0.38 mi E of Rd 143	Unknown
Transportation	County Bridge #247	0.3 mi E of Rd 236	Unknown

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

Category	Name	Address	Value
Transportation	County Bridge #248	0.25 mi W of Rd 224	Unknown
Transportation	County Bridge #249	3.7 mi N of M296	Unknown
Transportation	County Bridge #25	0.7 mi S of Avenue 360	Unknown
Transportation	County Bridge #250	0.6 mi S of A116	Unknown
Transportation	County Bridge #251	0.1 mi S of A 104	Unknown
Transportation	County Bridge #252	0.9 mi S of Avenue 88	Unknown
Transportation	County Bridge #253	0.6 mi S of Avenue 78	Unknown
Transportation	County Bridge #254	.25 mi N of SR245	Unknown
Transportation	County Bridge #255	0.3 mi S of Avenue 40	Unknown
Transportation	County Bridge #256	At Road 176	Unknown
Transportation	County Bridge #257	0.5 mi W of Road 184	Unknown
Transportation	County Bridge #258	0.05 mi W of Road 184	Unknown
Transportation	County Bridge #259	0.02 mi W of Road 184	Unknown
Transportation	County Bridge #26	0.8 mi S of Avenue 360	Unknown
Transportation	County Bridge #260	0.16 mi N of M357	Unknown
Transportation	County Bridge #261	0.1 mi N of SR 198	Unknown
Transportation	County Bridge #262	8.66 mi N of SR 216	Unknown
Transportation	County Bridge #263	0.7 mi N of A344	Unknown
Transportation	County Bridge #264	0.4 mi N of A 352	Unknown
Transportation	County Bridge #265	0.25 mi N of Avenue 356	Unknown
Transportation	County Bridge #266	0.9 mi N of Avenue 352	Unknown
Transportation	County Bridge #267	1.25 mi N of Avenue 364	Unknown
Transportation	County Bridge #268	0.05 mi N of Avenue 368	Unknown
Transportation	County Bridge #269	1.0 mi W of Rd 108	Unknown
Transportation	County Bridge #27	0.2 mi S of Avenue 336	Unknown
Transportation	County Bridge #270	0.2 mi E of SR 63	Unknown



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

Category	Name	Address	Value
Transportation	County Bridge #271	0.25 mi E of SR 63	Unknown
Transportation	County Bridge #272	0.4 mi E of R 109	Unknown
Transportation	County Bridge #273	0.4 mi N of Avenue 424	Unknown
Transportation	County Bridge #274	0.25 mi E of SR 63	Unknown
Transportation	County Bridge #275	0.5 mi E of SR 63	Unknown
Transportation	County Bridge #276	0.9 mi E of SR 63	Unknown
Transportation	County Bridge #277	Avenue 420	Unknown
Transportation	County Bridge #278	0.2 mi E of Road 108	Unknown
Transportation	County Bridge #279	0.4 mi E of Road 108	Unknown
Transportation	County Bridge #28	0.5 mi S of Avenue 200	Unknown
Transportation	County Bridge #280	0.1 mi E of Avenue 400	Unknown
Transportation	County Bridge #281	Road 124	Unknown
Transportation	County Bridge #282	0.05 mi N of Avenue 408	Unknown
Transportation	County Bridge #283	0.1 mi E of SR 63	Unknown
Transportation	County Bridge #284	0.1 mi N of Avenue 414	Unknown
Transportation	County Bridge #285	0.05 mi E of Rd 48	Unknown
Transportation	County Bridge #286	0.4 mi E of Rd 64	Unknown
Transportation	County Bridge #287	0.25 mi E of Road 40	Unknown
Transportation	County Bridge #288	Road 16	Unknown
Transportation	County Bridge #289	Road 40	Unknown
Transportation	County Bridge #29	0.05 mi S of Avenue 368	Unknown
Transportation	County Bridge #290	Road 196	Unknown
Transportation	County Bridge #291	0.35 mi E of Road 188	Unknown
Transportation	County Bridge #292	0.1 mi S of Avenue 336	Unknown
Transportation	County Bridge #293	0.8 mi W of SR 245	Unknown
Transportation	County Bridge #294	0.25 mi E of Rd 184	Unknown

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

Category	Name	Address	Value
Transportation	County Bridge #295	0.1 mi S of Avenue 40	Unknown
Transportation	County Bridge #296	0.05 mi E of Road 184	Unknown
Transportation	County Bridge #297	0.1 mi E of Road 184	Unknown
Transportation	County Bridge #298	0.5 mi E of Road 192	Unknown
Transportation	County Bridge #299	0.8 mi W of Road 208	Unknown
Transportation	County Bridge #3	1.0 mi N of Avenue 160	Unknown
Transportation	County Bridge #30	Avenue 368	Unknown
Transportation	County Bridge #300	0.1 mi S of Avenue 96	Unknown
Transportation	County Bridge #301	At Road 208	Unknown
Transportation	County Bridge #302	At Road 208	Unknown
Transportation	County Bridge #303	0.5 mi E of Road 208	Unknown
Transportation	County Bridge #304	0.5 mi E of Road 208	Unknown
Transportation	County Bridge #305	0.2 mi E of Rd 64	Unknown
Transportation	County Bridge #306	0.3 mi W of Rd 56	Unknown
Transportation	County Bridge #307	0.4 mi S of Avenue 256	Unknown
Transportation	County Bridge #308	0.2 mi W of Rd 56	Unknown
Transportation	County Bridge #309	0.5 mi W of Rd 168	Unknown
Transportation	County Bridge #31	At SR99 Over Up Rr	Unknown
Transportation	County Bridge #310	0.6 mi W of Rd 168	Unknown
Transportation	County Bridge #311	0.3 mi E of Rd 124	Unknown
Transportation	County Bridge #312	0.5 mi E of Rd 100	Unknown
Transportation	County Bridge #313	0.7 mi E of Rd 100	Unknown
Transportation	County Bridge #314	0.6 mi E of SR 63	Unknown
Transportation	County Bridge #315	0.4 mi S of Avenue 271	Unknown
Transportation	County Bridge #316	0.2 mi N of Avenue 272	Unknown
Transportation	County Bridge #317	0.5 mi S of Avenue 272	Unknown

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

Category	Name	Address	Value
Transportation	County Bridge #318	0.1 mi S of Avenue 264	Unknown
Transportation	County Bridge #319	0.5 mi E of Rd 164	Unknown
Transportation	County Bridge #32	At SR99 Over Up Rr	Unknown
Transportation	County Bridge #320	1.4 mi S of Avenue 280	Unknown
Transportation	County Bridge #321	0.5 mi S of Avenue 280	Unknown
Transportation	County Bridge #322	0.8 mi S of Avenue 280	Unknown
Transportation	County Bridge #323	0.1 mi S of Avenue 288	Unknown
Transportation	County Bridge #324	0.3 mi N of Avenue 288	Unknown
Transportation	County Bridge #325	@ Mtn 296 (Yokohl Drive)	Unknown
Transportation	County Bridge #326	0.1 mi N of SR 198	Unknown
Transportation	County Bridge #327	0.5 mi W of Rd 164	Unknown
Transportation	County Bridge #328	0.1 mi E of Rd 168	Unknown
Transportation	County Bridge #329	0.3 mi N of Avenue 312	Unknown
Transportation	County Bridge #33	State Route 99	Unknown
Transportation	County Bridge #330	0.2 mi N of A 312	Unknown
Transportation	County Bridge #331	0.1 mi S of Avenue 312	Unknown
Transportation	County Bridge #332	0.1 mi E of Rd 180	Unknown
Transportation	County Bridge #333	0.5 mi W of Rd 180	Unknown
Transportation	County Bridge #334	0.2 mi E of Rd 180	Unknown
Transportation	County Bridge #335	0.2 mi S of Avenue 304	Unknown
Transportation	County Bridge #336	0.3 mi N of SR 198	Unknown
Transportation	County Bridge #337	0.3 mi N of SR 198	Unknown
Transportation	County Bridge #338	0.8 mi N of Avenue 296	Unknown
Transportation	County Bridge #339	0.4 mi N of SR 198	Unknown
Transportation	County Bridge #34	0.45 mi N of Avenue 164	Unknown
Transportation	County Bridge #340	0.2 mi N of SR 198	Unknown

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

Category	Name	Address	Value
Transportation	County Bridge #341	0.1 mi E of M239	Unknown
Transportation	County Bridge #342	4.1 mi E of Cr M50	Unknown
Transportation	County Bridge #343	0.3 mi E of M239	Unknown
Transportation	County Bridge #344	0.3 mi N of Avenue 32	Unknown
Transportation	County Bridge #345	0.1 mi N of Avenue 246	Unknown
Transportation	County Bridge #346	0.1 mi N of SR 190	Unknown
Transportation	County Bridge #347	0.75 mi S of Avenue 328	Unknown
Transportation	County Bridge #348	0.2 mi W of Rd 108	Unknown
Transportation	County Bridge #349	0.7 mi E of Rd 144	Unknown
Transportation	County Bridge #35	At Success Rd	Unknown
Transportation	County Bridge #350	0.35 mi N of Avenue 256	Unknown
Transportation	County Bridge #351	0.5 mi N of Avenue 264	Unknown
Transportation	County Bridge #352	0.2 mi S of Avenue 272	Unknown
Transportation	County Bridge #353	0.5 mi S of Avenue 272	Unknown
Transportation	County Bridge #354	0.25 mi N of Avenue 272	Unknown
Transportation	County Bridge #355	025. mi E of Rd 136	Unknown
Transportation	County Bridge #356	0.42 mi N of Avenue 64	Unknown
Transportation	County Bridge #36	0.1 mi N of Avenue 190	Unknown
Transportation	County Bridge #37	2.05 mi S of Avenue 352	Unknown
Transportation	County Bridge #38	1.95 mi S of Avenue 352	Unknown
Transportation	County Bridge #39	1.15 mi S of Avenue 352	Unknown
Transportation	County Bridge #4	1.1 mi N of Avenue 160	Unknown
Transportation	County Bridge #40	At Road 48	Unknown
Transportation	County Bridge #41	Avenue 384 @ Rd 108	Unknown
Transportation	County Bridge #42	0.7 mi N of Avenue 200	Unknown
Transportation	County Bridge #43	600 N Mendocino Avenue OC	Unknown

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

Category	Name	Address	Value
Transportation	County Bridge #44	0.3 mi W of Rd 180	Unknown
Transportation	County Bridge #45	0.5 mi W of Rd 180	Unknown
Transportation	County Bridge #46	@ Avenue 416	Unknown
Transportation	County Bridge #47	0.6 mi W of Road 96	Unknown
Transportation	County Bridge #48	0.9 mi W of Rd 108	Unknown
Transportation	County Bridge #49	0.5 mi S of Avenue 184	Unknown
Transportation	County Bridge #5	2.2 mi N Avenue 160	Unknown
Transportation	County Bridge #50	0.4 mi N of Avenue 168	Unknown
Transportation	County Bridge #51	0.9 mi N of Avenue 104	Unknown
Transportation	County Bridge #52	2.0 mi S of SR 201	Unknown
Transportation	County Bridge #53	3.25 mi N of SR 198	Unknown
Transportation	County Bridge #54	0.3 mi S of SR 190	Unknown
Transportation	County Bridge #55	0.1 mi E of FAP 190	Unknown
Transportation	County Bridge #56	0.19 mi NE of SM 239	Unknown
Transportation	County Bridge #57	0.3 mi N of SM 296	Unknown
Transportation	County Bridge #58	0.7 mi N of M 137	Unknown
Transportation	County Bridge #59	0.3 mi S of M120	Unknown
Transportation	County Bridge #6	0.8 mi N Avenue 184	Unknown
Transportation	County Bridge #60	0.5 mi E of R 272	Unknown
Transportation	County Bridge #61	4.19 mi E Rd 272	Unknown
Transportation	County Bridge #62	1.8 mi S of Avenue 56	Unknown
Transportation	County Bridge #63	0.4 mi E of SR 63	Unknown
Transportation	County Bridge #64	2 mi E of Road 144	Unknown
Transportation	County Bridge #65	0.05 mi E of Road 208	Unknown
Transportation	County Bridge #66	0.5 mi S of Avenue 168	Unknown
Transportation	County Bridge #67	0.1 mi N of A104	Unknown

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

Category	Name	Address	Value
Transportation	County Bridge #68	0.1 mi S of A72	Unknown
Transportation	County Bridge #69	1.2 mi S/O Avenue 96	Unknown
Transportation	County Bridge #7	S of Avenue 196	Unknown
Transportation	County Bridge #70	0.2 mi E of Rd 176	Unknown
Transportation	County Bridge #71	0.35 mi N of A108	Unknown
Transportation	County Bridge #72	0.16 mi N of Avenue 220	Unknown
Transportation	County Bridge #73	0.7 mi W of Rd 180	Unknown
Transportation	County Bridge #74	0.5 mi N of Avenue 304	Unknown
Transportation	County Bridge #75	Just S of M296	Unknown
Transportation	County Bridge #76	0.1 mi W of SR 145	Unknown
Transportation	County Bridge #77	0.1 mi S of SR 190	Unknown
Transportation	County Bridge #78	6 mi S of Avenue 56	Unknown
Transportation	County Bridge #79	0.1 mi W of SR 245	Unknown
Transportation	County Bridge #8	0.2 mi E of Rd 164	Unknown
Transportation	County Bridge #80	0.2 mi S of M348	Unknown
Transportation	County Bridge #81	0.4 mi S Avenue 248	Unknown
Transportation	County Bridge #82	1.6 mi E of M465	Unknown
Transportation	County Bridge #83	2.7 mi NE of SR 245	Unknown
Transportation	County Bridge #84	0.1 mi N of Avenue 62	Unknown
Transportation	County Bridge #85	0.4 mi N of Avenue 68	Unknown
Transportation	County Bridge #86	0.1 mi S of Old Stage Rd	Unknown
Transportation	County Bridge #87	0.25 mi W of Road 216	Unknown
Transportation	County Bridge #88	0.4 mi S of Avenue 170	Unknown
Transportation	County Bridge #89	0.1 mi N/O Avenue 184	Unknown
Transportation	County Bridge #9	0.7 mi N of Avenue 308	Unknown
Transportation	County Bridge #90	1.8 mi S/O Avenue 184	Unknown

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

Category	Name	Address	Value
Transportation	County Bridge #91	0.1 mi W of Road 22	Unknown
Transportation	County Bridge #92	0.1 mi E of Rd 64	Unknown
Transportation	County Bridge #93	8 mi SE Fountain Springs	Unknown
Transportation	County Bridge #94	0.4 mi N of Avenue 152	Unknown
Transportation	County Bridge #95	0.05 mi S of Avenue 96	Unknown
Transportation	County Bridge #96	1.0 mi S of Avenue 80	Unknown
Transportation	County Bridge #97	0.1 mi W of Rd 74	Unknown
Transportation	County Bridge #98	0.7 mi N/O Avenue 168	Unknown
Transportation	County Bridge #99	0.1 mi N/O Avenue 184	Unknown
Transportation	Eckert Field Airport	23500 Avenue 204	Unknown
Transportation	Sequoia Field Airport	County Road 112 & Avenue 360	Unknown
Transportation	Sequoia Ranch Airport	Latitude/Longitude	Unknown

\* These facilities were added to the list after the vulnerability analysis was complete; these facilities are not included in the vulnerability analysis results shown in Tables G-4 and G-7.

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

Hazard	Population	Residential buildings	Total Residential Building Value
Avalanche (Medium and High Zones)	46	26	\$3,181,075
Earthquake - Moderate Groundshaking	119,933	37,469	\$3,195,415,373
Earthquake - Light Groundshaking	25,700	8,051	\$797,295,327
Flood - 100 Year Floodplain	17,841	5,377	\$430,390,392
Flood - 500 Year Floodplain	33,975	9,925	\$848,682,633
Flood - Dam Failure, Isabella Dam	5	2	\$74,355
Flood - Dam Failure, Pine Flat Dam	2,449	900	\$117,162,446
Flood - Dam Failure, Sand Creek Dam	14,819	3,655	\$254,220,548
Flood - Dam Failure, Success Dam	22,165	6,611	\$505,402,537
Flood - Dam Failure, Terminus Dam	27,968	9,184	\$834,677,161
Fog <sup>+</sup>	134,816	40,433	\$3,381,757,408
Post-Fire Debris Flow	91	48	\$4,761,910
Severe Winter Storm - Freezing*	26,942	8,317	\$731,106,773
Severe Winter Storm - Snowfall**	1,347	637	\$64,731,831
Severe Winter Storm - Wind Gust***	881	386	\$37,155,265
Volcano - Ash Fall	335	154	\$13,845,124
Wildfire - Very High	2,229	1,060	\$127,988,338
Wildfire - High	5,625	2,676	\$325,973,144
Wildfire - Moderate	5,976	2,512	\$294,973,440

\* Freezing - temperatures at freezing or below for more than 30 days per year  
 \*\* Snowfall - greater than 24 inches of snow per year  
 \*\*\* Wind Gust - peak wind gusts greater than 50 mph for more than 30 days per year  
 + Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.



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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Community	Alpaugh Park	Tule Road and Park Avenue	Unknown
Earthquake - Moderate Groundshaking	Community	Balch Park	48200 Bear Creek Drive	Unknown
Earthquake - Moderate Groundshaking	Community	Bartlett Park	28801Worth Drive	Unknown
Earthquake - Moderate Groundshaking	Community	Cutler Park	15520 Ivanhoe Drive	Unknown
Earthquake - Moderate Groundshaking	Community	Elk Bayou Regional Park	19701 Hosfield Drive	Unknown
Earthquake - Moderate Groundshaking	Community	Kings River Nature Preserve	2 miles E of Highway 99 On Road 28	Unknown
Earthquake - Moderate Groundshaking	Community	Lake Success	10 miles SE of Porterville On Highway 190	Unknown
Earthquake - Moderate Groundshaking	Community	Mooney Grove Park/Tulare County Museum	27000 S. Mooney Grove Boulevard	Unknown
Earthquake - Moderate Groundshaking	Community	Pixley Park	850 N. Park Drive	Unknown
Earthquake - Moderate Groundshaking	Community	Tulare County Library - Alpaugh Branch	3816 Avenue 54	Unknown
Earthquake - Moderate Groundshaking	Community	Tulare County Library - Dinuba Branch	150 South I Street	Unknown
Earthquake - Moderate Groundshaking	Community	Tulare County Library - Earlimart Branch	780 East Washington Street	Unknown
Earthquake - Moderate Groundshaking	Community	Tulare County Library - Exeter Branch	230 East Chestnut	Unknown
Earthquake - Moderate Groundshaking	Community	Tulare County Library - Ivanhoe Branch	15964 Heather	Unknown
Earthquake - Moderate Groundshaking	Community	Tulare County Library - Lindsay Branch	157 North Mirage Street	Unknown

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

Hazard	Category	Name	Address	Value
Earthquake - Moderate Groundshaking	Community	Tulare County Library - Pixley Branch	300 North School	Unknown
Earthquake - Moderate Groundshaking	Community	Tulare County Library - Springville Branch	35800 Highway 190	Unknown
Earthquake - Moderate Groundshaking	Community	Tulare County Library - Strathmore Branch	19646 Road 230	Unknown
Earthquake - Moderate Groundshaking	Community	Tulare County Library - Terra Bella Branch	23825 Avenue 92	Unknown
Earthquake - Moderate Groundshaking	Community	Tulare County Library - Tipton Branch	221 North Evans Road	Unknown
Earthquake - Moderate Groundshaking	Community	Tulare County Library - Visalia Branch	200 West Oak Avenue	Unknown
Earthquake - Moderate Groundshaking	Community	West Main Street Park	2 Blocks W of County Courthouse On Main St.	Unknown
Earthquake - Moderate Groundshaking	Community	Woodville Park	16482 Avenue 168	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Alpaugh Fire Station	3939 Avenue 54	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Camp Nelson Fire Station	1500 Nelson Drive	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Christian Faith Fellowship	506 N. Court St.	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Community Of Christ Church	2127 S. Giddings	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Dinuba Fire Station	40404 RD 80	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Doyle Colony Fire Station	1057 E. Date St.	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Ducor Fire Station	23607 Avenue 56	Unknown

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

Hazard	Category	Name	Address	Value
Earthquake - Moderate Groundshaking	Emergency Response	Earlimart Fire Station	808 E. Washington Av	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Exeter Fire Station	137 No. "F" St.	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Farmersville Fire Station	Avenue 280/Road 164	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Fire Administration Building	907 West Visalia Rd.	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Gateway Church Of Visalia	1100 S Sowell	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Goshen Fire Station	30901 RD 67	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Ivanhoe Fire Station	32868 Hawthorn Rd	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Kennedy Meadows Fire Station	Box 3A-10 Kennedy Meadows Road	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Kings River Fire Station	3811 Avenue 400	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Lindsay Fire Station	19603 Avenue 228	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Lindsay First Assembly of God	360 E. Hermosa St.	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Milo Forest Fire Station	38251 Yokohl Vly Rd	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Pine Mountain Fire Station	Rt. 4 Box 665	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Pixley Fire Station	200 No. Park Rd.	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Posey Fire Station	Rt. 1 Box 239	Unknown

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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Emergency Response	Richgrove Fire Station	20890 Grove Drive	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Springville Fire Station	35659 HWY 190	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Springville Veterans Memorial Building	35978 Highway 190	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Strathmore Fire Protection District	22908 Avenue 196	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Terra Bella Fire Station	23658 Avenue 95	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Tipton Fire Station	241 SO Graham Rd	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Tulare County Consolidated Ambulance Dispatch (TCCAD)	125 N. N St.	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Tulare County Sheriff - Personnel & Training	36004 Road 112	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Tulare County Sheriff - Pixley Patrol Substation	161 N. Pine St	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Tulare County Sheriff - Porterville Patrol Substation	379 North 3rd Street	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Tulare County Sheriff's Department	36000 Road 112	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Tulare County Sheriff's Department - Headquarters	2404 W. Burrel Avenue	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Tulare Fire Station	2082 Foster Drive	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Tulare Police Department	260 S. M ST	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Tulare Veterans Memorial Building	1771 E. Tulare Avenue	Unknown

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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Emergency Response	Tulare Youth Center	848 North H Street	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Valley Christian Church	432 E. Pleasant Avenue	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Waukena Fire Station	2802 Avenue 192	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	West Olive Fire Station	22315 Avenue 152	Unknown
Earthquake - Moderate Groundshaking	Government	Government Plaza/Tulare County Elections	5951 S. Mooney Boulevard	Unknown
Earthquake - Moderate Groundshaking	Government	Tulare County Administrative Office	2800 West Burrel Avenue	Unknown
Earthquake - Moderate Groundshaking	Government	Tulare County Civic Center/Tulare County Superior Courts	221 S. Mooney Blvd	Unknown
Earthquake - Moderate Groundshaking	Government	Tulare County Fire Dispatch/Radio Shop	11871 Avenue 272	Unknown
Earthquake - Moderate Groundshaking	Government	Tulare County Human Resources & Development	2900 West Burrel Avenue	Unknown
Earthquake - Moderate Groundshaking	Government	Tulare County Municipal Court	87 E. Morton Avenue	Unknown
Earthquake - Moderate Groundshaking	Government	Tulare County Municipal Court	425 E. Kern Avenue	Unknown
Earthquake - Moderate Groundshaking	Government	Tulare County Municipal Court	640 S. Alta Avenue	Unknown
Earthquake - Moderate Groundshaking	Incarceration	Tulare County Sheriff's Office - Bob Wiley Detention Facility	36712 Road 112	Unknown
Earthquake - Moderate Groundshaking	Incarceration	Tulare County Sheriff's Office - Juvenile Detention Facility	11200 Avenue 368	Unknown
Earthquake - Moderate Groundshaking	Incarceration	Tulare County Sheriff's Office - Men's Correctional Facility	36008 Road 112	Unknown

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

Hazard	Category	Name	Address	Value
Earthquake - Moderate Groundshaking	Incarceration	Tulare County Sheriff's Office - Pre-Trial Facility	36650 Road 112	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #10	0.1 mi N of Avenue 224	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #100	0.4 mi S of SR 137	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #101	Avenue 280	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #102	2.0 mi E of SR 43	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #103	0.9 mi E of SR 43	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #104	0.3 mi W of SR 28	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #105	0.3 mi W of RD 20	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #106	0.2 mi W of RD 236	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #107	3.5 mi NW/O SR 190	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #108	0.2 mi E of RD 164	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #109	0.3 mi W RD 132	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #11	0.1 mi S of SR 198	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #110	0.6 mi N of Avenue 280	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #111	0.6 mi W of RD 68	Unknown

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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Transportation	County Bridge #112	0.7 mi E of SR 63	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #114	0.9 mi N of Avenue 328	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #115	1.0 mi N of Avenue 328	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #116	0.6 mi S of Avenue 360	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #117	.5 mi SE of M193A	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #118	3.41 mi E of Balch Park	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #119	3 mi N of Jack Ranch Rd	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #12	1.2 mi N of Avenue 168	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #120	0.1 mi Balch Park Rd	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #122	0.35 mi N SR 201	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #125	0.2 mi N of Avenue 264	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #126	3.5 mi N of SR 190	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #128	6.7 mi E of Balch Park Rd	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #129	0.15 mi S of Avenue 224	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #13	Intersection with Avenue 272	Unknown

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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Transportation	County Bridge #134	0.1 mi SE SR 190	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #138	11.1 mi SE of Road M347	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #139	6.68 mi E of SR 198	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #142	4.1 mi SE Co Rd M347	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #143	2.23 mi SE of M120	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #144	5.11 mi SE/O M120	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #145	5.86 mi SE of M120	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #146	13.9 mi SE of M120	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #147	0.3 mi N of M56	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #148	16.4 mi E M109	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #149	11.94 mi SE of M50	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #15	1.25 mi W of Rd 224	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #150	4.81 mi SE of M50	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #152	0.1 mi E of Rd 168	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #153	0.2 mi E of Rd 156	Unknown



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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Transportation	County Bridge #156	0.5 mi N of Avenue 132	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #157	At Road 52	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #158	0.25 mi E of Rd 64	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #16	.1 mi S/O Avenue 32	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #17	0.13 mi W of Rd 38	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #176	0.25 mi E of Road 200	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #178	0.2 mi E of Road 206	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #179	0.3 mi E of Road 204	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #180	0.8 mi E of Road 204	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #181	0.6 mi E of Road 216	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #182	0.1 mi E of Road 224	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #183	0.25 mi E of Road 228	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #184	0.1 mi E of Rd 228	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #185	0.35 mi E of Road 228	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #186	0.4 mi E of Rd 228	Unknown

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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Transportation	County Bridge #187	0.25 mi E of Road 228	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #188	0.25 mi E of Road 228	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #189	0.25 mi E of Road 228	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #19	0.1 mi S of Avenue 308	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #190	0.25 mi E of Road 228	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #191	0.25 mi W of Road 232	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #192	0.25 mi E of Road 228	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #193	0.25 mi W of Road 232	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #194	0.2 mi S of Avenue 200	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #195	At Road 234	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #196	0.1 mi E of Road 232	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #197	0.1 mi W of Road 232	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #198	At Drive 232/Newcomb St	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #199	0.25 mi W of Road 232	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #20	0.25 mi E of Rd 156	Unknown

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

Hazard	Category	Name	Address	Value
Earthquake - Moderate Groundshaking	Transportation	County Bridge #200	0.25 mi W of Road 232	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #201	0.3 mi W of Road 232	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #202	0.25 mi E of Road 224	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #203	0.75 mi W of Road 224	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #204	At Avenue 216 (Paige Avenue)	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #205	1.0 mi N of Avenue 72	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #206	0.6 mi N of Avenue 160	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #207	1.1 mi N of Avenue 160	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #208	0.25 mi N of Avenue 176	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #209	0.5 mi S of Avenue 40	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #21	0.1 mi N of SR 198	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #210	0.3 mi N of Avenue 168	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #211	0.25 mi N of A 208	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #212	1.6 mi S of SR 137	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #213	0.68 mi N of Avenue 168	Unknown

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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Transportation	County Bridge #214	0.1 mi S of A186	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #215	0.25 mi N of A180	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #216	0.65 mi S of Avenue 192	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #217	0.5 mi S of Avenue 192	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #218	0.5 mi S of Avenue 40	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #219	1.0 mi N of Avenue 168	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #22	1.9 mi N of Avenue 328	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #220	0.63 mi S of SR 137	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #221	2.75 mi S of Avenue 56	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #222	0.1 mi N of Avenue 32	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #223	0.1 mi E of Rt 168	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #224	0.67 mi N of Avenue 168	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #225	0.8 mi N of Avenue 168	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #226	1.4 mi N of Avenue 168	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #227	0.1 mi S of Avenue 188	Unknown

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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Transportation	County Bridge #228	0.23 mi N of Avenue 152	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #229	0.13 mi S of Avenue 176	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #23	0.45 mi W of Road 192	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #230	0.3 mi S Henderson Avenue	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #231	0.47 mi S of Avenue 176	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #232	0.05 mi S of Avenue 224	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #233	@ Avenue 236	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #234	0.13 mi N of Avenue 232	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #235	0.25 mi S of Avenue 220	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #236	0.5 mi E of SR 43	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #237	1.1 mi E of SR 43	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #238	At Rd 24	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #239	0.12 mi W of Rd 202	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #24	0.75 mi W of Rd 180	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #240	0.2 mi E of Rd 152	Unknown

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

Hazard	Category	Name	Address	Value
Earthquake - Moderate Groundshaking	Transportation	County Bridge #241	0.25 mi W of Rd 168	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #242	At Rd 52	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #243	0.18 mi E of Rd 132	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #244	0.18 mi E of Rd 140	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #245	0.25 mi E of Rd 244	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #246	0.38 mi E of Rd 143	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #247	0.3 mi E of Rd 236	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #248	0.25 mi W of Rd 224	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #249	3.7 mi N of M296	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #25	0.7 mi S of Avenue 360	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #250	0.6 mi S of A116	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #251	0.1 mi S of A 104	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #252	0.9 mi S of Avenue 88	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #253	0.6 mi S of Avenue 78	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #254	.25 mi N of SR245	Unknown

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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Transportation	County Bridge #255	0.3 mi S of Avenue 40	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #256	At Road 176	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #257	0.5 mi W of Road 184	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #258	0.05 mi W of Road 184	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #259	0.02 mi W of Road 184	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #26	0.8 mi S of Avenue 360	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #261	0.1 mi N of SR 198	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #268	0.05 mi N of Avenue 368	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #269	1.0 mi W of Rd 108	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #278	0.2 mi E of Road 108	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #279	0.4 mi E of Road 108	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #28	0.5 mi S of Avenue 200	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #280	0.1 mi E of Avenue 400	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #281	Road 124	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #285	0.05 mi E of Rd 48	Unknown

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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Transportation	County Bridge #286	0.4 mi E of Rd 64	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #287	0.25 mi E of Road 40	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #288	Road 16	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #289	Road 40	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #29	0.05 mi S of Avenue 368	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #294	0.25 mi E of Rd 184	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #295	0.1 mi S of Avenue 40	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #296	0.05 mi E of Road 184	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #297	0.1 mi E of Road 184	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #298	0.5 mi E of Road 192	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #299	0.8 mi W of Road 208	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #3	1.0 mi N of Avenue 160	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #30	Avenue 368	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #300	0.1 mi S of Avenue 96	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #301	At Road 208	Unknown



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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Transportation	County Bridge #302	At Road 208	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #303	0.5 mi E of Road 208	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #304	0.5 mi E of Road 208	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #305	0.2 mi E of Rd 64	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #306	0.3 mi W of Rd 56	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #307	0.4 mi S of Avenue 256	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #308	0.2 mi W of Rd 56	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #309	0.5 mi W of Rd 168	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #31	At SR99 Over Up Rr	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #310	0.6 mi W of Rd 168	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #311	0.3 mi E of Rd 124	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #312	0.5 mi E of Rd 100	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #313	0.7 mi E of Rd 100	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #314	0.6 mi E of SR 63	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #315	0.4 mi S of Avenue 271	Unknown

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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Transportation	County Bridge #316	0.2 mi N of Avenue 272	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #317	0.5 mi S of Avenue 272	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #318	0.1 mi S of Avenue 264	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #319	0.5 mi E of Rd 164	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #32	At SR99 Over Up Rr	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #320	1.4 mi S of Avenue 280	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #321	0.5 mi S of Avenue 280	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #322	0.8 mi S of Avenue 280	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #323	0.1 mi S of Avenue 288	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #324	0.3 mi N of Avenue 288	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #325	@ Mtn 296 (Yokohl Drive)	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #326	0.1 mi N of SR 198	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #327	0.5 mi W of Rd 164	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #328	0.1 mi E of Rd 168	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #33	State Route 99	Unknown

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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Transportation	County Bridge #333	0.5 mi W of Rd 180	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #334	0.2 mi E of Rd 180	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #335	0.2 mi S of Avenue 304	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #336	0.3 mi N of Sh 198	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #337	0.3 mi N of SR 198	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #338	0.8 mi N of Avenue 296	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #339	0.4 mi N of SR 198	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #34	0.45 mi N of Avenue 164	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #340	0.2 mi N of SR 198	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #341	0.1 mi E of M239	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #342	4.1 mi E of Cr M50	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #343	0.3 mi E of M239	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #344	0.3 mi N of Avenue 32	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #345	0.1 mi N of Avenue 246	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #346	0.1 mi N of SR 190	Unknown

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

Hazard	Category	Name	Address	Value
Earthquake - Moderate Groundshaking	Transportation	County Bridge #347	0.75 mi S of Avenue 328	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #348	0.2 mi W of Rd 108	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #35	At Success Rd	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #350	0.35 mi N of Avenue 256	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #351	0.5 mi N of Avenue 264	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #352	0.2 mi S of Avenue 272	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #353	0.5 mi S of Avenue 272	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #354	0.25 mi N of Avenue 272	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #356	0.42 mi N of Avenue 64	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #36	0.1 mi N of Avenue 190	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #37	2.05 mi S of Avenue 352	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #38	1.95 mi S of Avenue 352	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #39	1.15 mi S of Avenue 352	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #4	1.1 mi N of Avenue 160	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #40	At Road 48	Unknown

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

Hazard	Category	Name	Address	Value
Earthquake - Moderate Groundshaking	Transportation	County Bridge #41	Avenue 384 @ Rd 108	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #42	0.7 mi N of Avenue 200	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #43	600 N Mendocino Avenue Oc	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #44	0.3 mi W of Rd 180	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #45	0.5 mi W of Rd 180	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #46	@ Avenue 416	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #47	0.6 mi W of Road 96	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #48	0.9 mi W of Rd 108	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #49	0.5 mi S of Avenue 184	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #5	2.2 mi N Avenue 160	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #50	0.4 mi N of Avenue 168	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #51	0.9 mi N of Avenue 104	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #54	0.3 mi S of SR 190	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #55	0.1 mi E of FAP 190	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #56	0.19 mi NE of SM 239	Unknown

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

Hazard	Category	Name	Address	Value
Earthquake - Moderate Groundshaking	Transportation	County Bridge #57	0.3 mi N of SM 296	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #58	0.7 mi N of M 137	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #59	0.3 mi S of M120	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #6	0.8 mi N Avenue 184	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #60	0.5 mi E of R 272	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #61	4.19 mi E Rd 272	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #62	1.8 mi S of Avenue 56	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #65	0.05 mi E of Road 208	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #66	0.5 mi S of Avenue 168	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #67	0.1 mi N of A104	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #68	0.1 mi S of A72	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #69	1.2 mi S/O Avenue 96	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #7	S of Avenue 196	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #70	0.2 mi E of Rd 176	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #71	0.35 mi N of A108	Unknown

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

Hazard	Category	Name	Address	Value
Earthquake - Moderate Groundshaking	Transportation	County Bridge #72	0.16 mi N of Avenue 220	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #73	0.7 mi W of Rd 180	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #75	Just S of M296	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #77	0.1 mi S of SR 190	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #78	6 mi S of Avenue 56	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #8	0.2 mi E of Rd 164	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #80	0.2 mi S of M348	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #81	0.4 mi S Avenue 248	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #84	0.1 mi N of Avenue 62	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #85	0.4 mi N of Avenue 68	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #86	0.1 mi S of Old Stage Rd	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #87	0.25 mi W of Road 216	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #88	0.4 mi S of Avenue 170	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #89	0.1 mi N/O Avenue 184	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #9	0.7 mi N of Avenue 308	Unknown

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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Transportation	County Bridge #90	1.8 mi S/O Avenue 184	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #91	0.1 mi W of Road 22	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #92	0.1 mi E of Rd 64	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #93	8 mi SE Fountain Springs	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #94	0.4 mi N of Avenue 152	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #95	0.05 mi S of Avenue 96	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #96	1.0 mi S of Avenue 80	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #97	0.1 mi W of Rd 74	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #98	0.7 mi N/O Avenue 168	Unknown
Earthquake - Moderate Groundshaking	Transportation	County Bridge #99	0.1 mi N/O Avenue 184	Unknown
Earthquake - Moderate Groundshaking	Transportation	Eckert Field Airport	23500 Avenue 204	Unknown
Earthquake - Moderate Groundshaking	Transportation	Sequoia Field Airport	County Road 112 & Avenue 360	Unknown
Earthquake - Moderate Groundshaking	Transportation	Sequoia Ranch Airport	Latitude/Longitude	Unknown
Earthquake - Light Groundshaking	Community	Lake Kaweah	25 miles E of Visalia On Highway 198	Unknown
Earthquake - Light Groundshaking	Community	Ledbetter Park	12795 Avenue 408	Unknown



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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Light Groundshaking	Community	Tulare County Library - Cutler/Orosi Branch	12646 Avenue 416	Unknown
Earthquake - Light Groundshaking	Community	Tulare County Library - Three Rivers Branch	42052 Eggers Drive	Unknown
Earthquake - Light Groundshaking	Community	Tulare County Library - Woodlake Branch	400 West Whitney	Unknown
Earthquake - Light Groundshaking	Emergency Response	Cutler-Orosi Fire Station	40779 RD 128	Unknown
Earthquake - Light Groundshaking	Emergency Response	Lemon Cove Fire Station	32490 Sierra Drive	Unknown
Earthquake - Light Groundshaking	Emergency Response	Woodlake Christian Center	799 N. Valencia BoulevardBoulevard	Unknown
Earthquake - Light Groundshaking	Government	Tulare County Sheriff Substation - Cutler/Orosi	40765 Rd 128	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #1	1.75 mi N of SR 198	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #113	3.25 mi N of SR 198	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #121	0.3 mi S of Avenue 432	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #123	0.4 mi N of Avenue 368	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #124	@ Avenue 408	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #127	0.5 mi S of SR 198	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #130	.25 mi E of SR 63	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #131	.15 mi S of Fresno County Line	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #132	.25 mi N of SR 245	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #133	0.19 mi S of A456	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #135	0.5 mi From Rd SD 243	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #136	.67 mi NE of R180	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #137	.18 mi W of R196	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #14	4.0 mi N of SR 198	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #140	1.34 mi SE of Rd M347	Unknown

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

Hazard	Category	Name	Address	Value
Earthquake - Light Groundshaking	Transportation	County Bridge #141	1.42 mi SE of M347	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #151	0.2 mi W SR 245	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #160	At Avenue 416	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #161	0.1 mi W of Road 124	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #162	0.2 mi W of Rd 124	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #163	0.1 mi E of Road 140	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #164	At Road 144	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #165	0.4 mi E of Road 144	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #166	0.5 mi N of Avenue 420	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #167	0.2 mi W of Road 176	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #168	0.3 mi N of A390	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #169	0.2 mi N of Avenue 388	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #170	0.4 mi N of Avenue 384	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #171	0.6 mi W of SR 201	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #172	0.1 mi W of Road 200	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #173	0.2 mi N of Avenue 332	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #174	0.3 mi W of SR 245	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #175	0.1 mi W of SR 245	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #177	0.1 mi E of Road 204	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #18	2.3 mi N of SR 198	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #2	0.06 mi N of SR 198	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #260	0.16 mi N of M357	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #262	8.66 mi N of SR 216	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #263	0.7 mi N of A344	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #264	0.4 mi N of A 352	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #265	0.25 mi N of Avenue 356	Unknown

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

Hazard	Category	Name	Address	Value
Earthquake - Light Groundshaking	Transportation	County Bridge #266	0.9 mi N of Avenue 352	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #267	1.25 mi N of Avenue 364	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #27	0.2 mi S of Avenue 336	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #270	0.2 mi E of SR 63	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #271	0.25 mi E of SR 63	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #272	0.4 mi E of R 109	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #273	0.4 mi N of Avenue 424	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #274	0.25 mi E of SR 63	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #275	0.5 mi E of SR 63	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #276	0.9 mi E of SR 63	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #277	Avenue 420	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #282	0.05 mi N of Avenue 408	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #283	0.1 mi E of SR 63	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #284	0.1 mi N of Avenue 414	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #290	Road 196	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #291	0.35 mi E of Road 188	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #292	0.1 mi S of Avenue 336	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #293	0.8 mi W of SR 245	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #329	0.3 mi N of Avenue 312	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #330	0.2 mi N of A 312	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #331	0.1 mi S of Avenue 312	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #332	0.1 mi E of Rd 180	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #349	0.7 mi E of Rd 144	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #355	0.25 mi E of Rd 136	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #52	2.0 mi S of SR 201	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #53	3.25 mi N of SR 198	Unknown

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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Light Groundshaking	Transportation	County Bridge #63	0.4 mi E of SR 63	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #64	2 mi E of Road 144	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #74	0.5 mi N of Avenue 304	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #76	0.1 mi W of SR 145	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #79	0.1 mi W of SR 245	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #82	1.6 mi E of M465	Unknown
Earthquake - Light Groundshaking	Transportation	County Bridge #83	2.7 mi NE of SR 245	Unknown
Flood - 100 Year Floodplain	Community	Cutler Park	15520 Ivanhoe Drive	Unknown
Flood - 100 Year Floodplain	Community	Kings River Nature Preserve	2 miles E of Highway 99 On Road 28	Unknown
Flood - 100 Year Floodplain	Community	Lake Kaweah	25 miles E of Visalia On Highway 198	Unknown
Flood - 100 Year Floodplain	Community	Lake Success	10 miles SE of Porterville On Highway 190	Unknown
Flood - 100 Year Floodplain	Community	Pixley Park	850 N. Park Drive	Unknown
Flood - 100 Year Floodplain	Community	Tulare County Library - Dinuba Branch	150 South I Street	Unknown
Flood - 100 Year Floodplain	Community	Tulare County Library - Strathmore Branch	19646 Road 230	Unknown
Flood - 100 Year Floodplain	Community	Tulare County Library - Visalia Branch	200 West Oak Avenue	Unknown
Flood - 100 Year Floodplain	Emergency Response	Farmersville Fire Station	Avenue 280/Road 164	Unknown
Flood - 100 Year Floodplain	Emergency Response	Lemon Cove Fire Station	32490 Sierra Drive	Unknown
Flood - 100 Year Floodplain	Emergency Response	Pixley Fire Station	200 No. Park Rd.	Unknown
Flood - 100 Year Floodplain	Emergency Response	Strathmore Fire Protection District	22908 Avenue 196	Unknown
Flood - 100 Year Floodplain	Emergency Response	Tulare County Sheriff - Pixley Patrol Substation	161 N. Pine St	Unknown
Flood - 100 Year Floodplain	Emergency Response	Waukena Fire Station	2802 Avenue 192	Unknown

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

Hazard	Category	Name	Address	Value
Flood - 100 Year Floodplain	Emergency Response	Woodlake Christian Center	799 N. Valencia Boulevard	Unknown
Flood - 100 Year Floodplain	Government	Tulare County Human Resources & Development	2900 West Burrel Avenue	Unknown
Flood - 100 Year Floodplain	Government	Tulare County Municipal Court	640 S. Alta Avenue	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #103	0.9 mi E of SR 43	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #107	3.5 mi NW/O SR 190	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #110	0.6 mi N of Avenue 280	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #111	0.6 mi W of RD 68	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #113	3.25 mi N of SR 198	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #115	1.0 mi N of Avenue 328	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #12	1.2 mi N of Avenue 168	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #120	0.1 mi Balch Park Rd	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #123	0.4 mi N of Avenue 368	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #126	3.5 mi N of SR 190	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #130	.25 mi E of SR 63	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #133	0.19 mi S of A456	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #134	0.1 mi SE SR 190	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #137	.18 mi W of R196	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #14	4.0 mi N of SR 198	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #141	1.42 mi SE of M347	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #143	2.23 mi SE of M120	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #145	5.86 mi SE of M120	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #15	1.25 mi W of Rd 224	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #151	0.2 mi W SR 245	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #156	0.5 mi N of Avenue 132	Unknown

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

Hazard	Category	Name	Address	Value
Flood - 100 Year Floodplain	Transportation	County Bridge #16	.1 mi S/O Avenue 32	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #17	0.13 mi W of Rd 38	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #174	0.3 mi W of SR 245	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #175	0.1 mi W of SR 245	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #18	2.3 mi N of SR 198	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #185	0.35 mi E of Road 228	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #186	0.4 mi E of Rd 228	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #196	0.1 mi E of Road 232	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #206	0.6 mi N of Avenue 160	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #207	1.1 mi N of Avenue 160	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #208	0.25 mi N of Avenue 176	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #211	0.25 mi N of A 208	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #213	0.68 mi N of Avenue 168	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #214	0.1 mi S of A186	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #216	0.65 mi S of Avenue 192	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #219	1.0 mi N of Avenue 168	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #22	1.9 mi N of Avenue 328	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #232	0.05 mi S of Avenue 224	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #233	@ Avenue 236	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #234	0.13 mi N of Avenue 232	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #235	0.25 mi S of Avenue 220	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #240	0.2 mi E of Rd 152	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #245	0.25 mi E of Rd 244	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #247	0.3 mi E of Rd 236	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #250	0.6 mi S of A116	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #251	0.1 mi S of A 104	Unknown

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

Hazard	Category	Name	Address	Value
Flood - 100 Year Floodplain	Transportation	County Bridge #252	0.9 mi S of Avenue 88	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #253	0.6 mi S of Avenue 78	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #255	0.3 mi S of Avenue 40	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #262	8.66 mi N of SR 216	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #264	0.4 mi N of A 352	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #265	0.25 mi N of Avenue 356	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #266	0.9 mi N of Avenue 352	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #270	0.2 mi E of SR 63	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #273	0.4 mi N of Avenue 424	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #28	0.5 mi S of Avenue 200	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #281	Road 124	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #286	0.4 mi E of Rd 64	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #289	Road 40	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #29	0.05 mi S of Avenue 368	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #292	0.1 mi S of Avenue 336	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #293	0.8 mi W of SR 245	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #298	0.5 mi E of Road 192	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #299	0.8 mi W of Road 208	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #3	1.0 mi N of Avenue 160	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #30	Avenue 368	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #305	0.2 mi E of Rd 64	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #306	0.3 mi W of Rd 56	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #307	0.4 mi S of Avenue 256	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #308	0.2 mi W of Rd 56	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #32	At SR99 Over Up Rr	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #325	@ Mtn 296 (Yokohl Drive)	Unknown

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

Hazard	Category	Name	Address	Value
Flood - 100 Year Floodplain	Transportation	County Bridge #330	0.2 mi N of A 312	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #336	0.3 mi N of Sh 198	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #337	0.3 mi N of SR 198	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #338	0.8 mi N of Avenue 296	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #34	0.45 mi N of Avenue 164	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #340	0.2 mi N of SR 198	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #346	0.1 mi N of SR 190	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #347	0.75 mi S of Avenue 328	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #355	025. mi E of Rd 136	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #356	0.42 mi N of Avenue 64	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #37	2.05 mi S of Avenue 352	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #38	1.95 mi S of Avenue 352	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #4	1.1 mi N of Avenue 160	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #47	0.6 mi W of Road 96	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #48	0.9 mi W of Rd 108	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #5	2.2 mi N Avenue 160	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #50	0.4 mi N of Avenue 168	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #51	0.9 mi N of Avenue 104	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #53	3.25 mi N of SR 198	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #54	0.3 mi S of SR 190	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #55	0.1 mi E of FAP 190	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #59	0.3 mi S of M120	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #6	0.8 mi N Avenue 184	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #60	0.5 mi E of R 272	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #61	4.19 mi E Rd 272	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #62	1.8 mi S of Avenue 56	Unknown



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

Hazard	Category	Name	Address	Value
Flood - 100 Year Floodplain	Transportation	County Bridge #65	0.05 mi E of Road 208	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #66	0.5 mi S of Avenue 168	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #67	0.1 mi N of A104	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #68	0.1 mi S of A72	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #69	1.2 mi S/O Avenue 96	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #7	S of Avenue 196	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #70	0.2 mi E of Rd 176	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #71	0.35 mi N of A108	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #72	0.16 mi N of Avenue 220	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #74	0.5 mi N of Avenue 304	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #75	Just S of M296	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #76	0.1 mi W of SR 145	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #77	0.1 mi S of SR 190	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #78	6 mi S of Avenue 56	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #79	0.1 mi W of SR 245	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #86	0.1 mi S of Old Stage Rd	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #89	0.1 mi N/O Avenue 184	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #9	0.7 mi N of Avenue 308	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #90	1.8 mi S/O Avenue 184	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #95	0.05 mi S of Avenue 96	Unknown
Flood - 100 Year Floodplain	Transportation	County Bridge #99	0.1 mi N/O Avenue 184	Unknown
Flood - 500 Year Floodplain	Community	Elk Bayou Regional Park	19701 Hosfield Drive	Unknown
Flood - 500 Year Floodplain	Community	Ledbetter Park	12795 Avenue 408	Unknown
Flood - 500 Year Floodplain	Community	Tulare County Library - Cutler/Orosi Branch	12646 Avenue 416	Unknown

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

Hazard	Category	Name	Address	Value
Flood - 500 Year Floodplain	Community	Tulare County Library - Exeter Branch	230 East Chestnut	Unknown
Flood - 500 Year Floodplain	Community	West Main Street Park	2 Blocks W of County Courthouse On Main St.	Unknown
Flood - 500 Year Floodplain	Emergency Response	Christian Faith Fellowship	506 N. Court St.	Unknown
Flood - 500 Year Floodplain	Emergency Response	Community Of Christ Church	2127 S. Giddings	Unknown
Flood - 500 Year Floodplain	Emergency Response	Cutler-Orosi Fire Station	40779 RD 128	Unknown
Flood - 500 Year Floodplain	Emergency Response	Exeter Fire Station	137 No. "F" St.	Unknown
Flood - 500 Year Floodplain	Emergency Response	Fire Administration Building	907 West Visalia Rd.	Unknown
Flood - 500 Year Floodplain	Emergency Response	Gateway Church Of Visalia	1100 S Sowell	Unknown
Flood - 500 Year Floodplain	Emergency Response	Goshen Fire Station	30901 RD 67	Unknown
Flood - 500 Year Floodplain	Emergency Response	Tulare County Sheriff - Personnel & Training	36004 Road 112	Unknown
Flood - 500 Year Floodplain	Emergency Response	Tulare County Sheriff's Department	36000 Road 112	Unknown
Flood - 500 Year Floodplain	Emergency Response	Tulare County Sheriff's Department - Headquarters	2404 W. Burrel Avenue	Unknown
Flood - 500 Year Floodplain	Emergency Response	West Olive Fire Station	22315 Avenue 152	Unknown
Flood - 500 Year Floodplain	Government	Tulare County Administrative Office	2800 West Burrel Avenue	Unknown
Flood - 500 Year Floodplain	Government	Tulare County Civic Center/Tulare County Superior Courts	221 S. Mooney Blvd	Unknown
Flood - 500 Year Floodplain	Government	Tulare County Fire Dispatch/Radio Shop	11871 Avenue 272	Unknown
Flood - 500 Year Floodplain	Government	Tulare County Sheriff Substation - Cutler/Orosi	40765 Rd 128	Unknown

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

Hazard	Category	Name	Address	Value
Flood - 500 Year Floodplain	Incarceration	Tulare County Sheriff's Office - Bob Wiley Detention Facility	36712 Road 112	Unknown
Flood - 500 Year Floodplain	Incarceration	Tulare County Sheriff's Office - Juvenile Detention Facility	11200 Avenue 368	Unknown
Flood - 500 Year Floodplain	Incarceration	Tulare County Sheriff's Office - Men's Correctional Facility	36008 Road 112	Unknown
Flood - 500 Year Floodplain	Incarceration	Tulare County Sheriff's Office - Pre-Trial Facility	36650 Road 112	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #10	0.1 mi N of Avenue 224	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #100	0.4 mi S of SR 137	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #101	Avenue 280	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #108	0.2 mi E of RD 164	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #109	0.3 mi W RD 132	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #111	0.1 mi S of SR 198	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #112	0.7 mi E of SR 63	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #114	0.9 mi N of Avenue 328	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #116	0.6 mi S of Avenue 360	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #124	@ Avenue 408	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #129	0.15 mi S of Avenue 224	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #13	Intersection with Avenue 272	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #136	.67 mi NE of R180	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #153	0.2 mi E of Rd 156	
Flood - 500 Year Floodplain	Transportation	County Bridge #172	0.1 mi W of Road 200	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #19	0.1 mi S of Avenue 308	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #2	0.06 mi N of SR 198	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #209	0.5 mi S of Avenue 40	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #21	0.1 mi N of SR 198	Unknown

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

Hazard	Category	Name	Address	Value
Flood - 500 Year Floodplain	Transportation	County Bridge #212	1.6 mi S of SR 137	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #215	0.25 mi N of A180	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #218	0.5 mi S of Avenue 40	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #220	0.63 mi S of SR 137	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #222	0.1 mi N of Avenue 32	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #223	0.1 mi E of Rt 168	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #24	0.75 mi W of Rd 180	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #243	0.18 mi E of Rd 132	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #244	0.18 mi E of Rd 140	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #246	0.38 mi E of Rd 143	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #248	0.25 mi W of Rd 224	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #25	0.7 mi S of Avenue 360	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #26	0.8 mi S of Avenue 360	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #260	0.16 mi N of M357	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #261	0.1 mi N of SR 198	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #268	0.05 mi N of Avenue 368	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #269	1.0 mi W of Rd 108	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #271	0.25 mi E of SR 63	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #272	0.4 mi E of R 109	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #274	0.25 mi E of SR 63	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #277	Avenue 420	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #278	0.2 mi E of Road 108	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #279	0.4 mi E of Road 108	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #280	0.1 mi E of Avenue 400	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #283	0.1 mi E of SR 63	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #284	0.1 mi N of Avenue 414	Unknown

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

Hazard	Category	Name	Address	Value
Flood - 500 Year Floodplain	Transportation	County Bridge #294	0.25 mi E of Rd 184	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #309	0.5 mi W of Rd 168	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #310	0.6 mi W of Rd 168	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #313	0.7 mi E of Rd 100	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #316	0.2 mi N of Avenue 272	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #317	0.5 mi S of Avenue 272	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #318	0.1 mi S of Avenue 264	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #319	0.5 mi E of Rd 164	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #320	1.4 mi S of Avenue 280	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #322	0.8 mi S of Avenue 280	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #324	0.3 mi N of Avenue 288	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #326	0.1 mi N of SR 198	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #327	0.5 mi W of Rd 164	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #329	0.3 mi N of Avenue 312	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #331	0.1 mi S of Avenue 312	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #332	0.1 mi E of Rd 180	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #333	0.5 mi W of Rd 180	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #334	0.2 mi E of Rd 180	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #335	0.2 mi S of Avenue 304	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #339	0.4 mi N of SR 198	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #344	0.3 mi N of Avenue 32	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #345	0.1 mi N of Avenue 246	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #348	0.2 mi W of Rd 108	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #349	0.7 mi E of Rd 144	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #351	0.5 mi N of Avenue 264	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #352	0.2 mi S of Avenue 272	Unknown

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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - 500 Year Floodplain	Transportation	County Bridge #353	0.5 mi S of Avenue 272	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #354	0.25 mi N of Avenue 272	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #41	Avenue 384 @ Rd 108	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #42	0.7 mi N of Avenue 200	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #44	0.3 mi W of Rd 180	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #45	0.5 mi W of Rd 180	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #63	0.4 mi E of SR 63	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #73	0.7 mi W of Rd 180	Unknown
Flood - 500 Year Floodplain	Transportation	County Bridge #8	0.2 mi E of Rd 164	Unknown
Flood - 500 Year Floodplain	Transportation	Sequoia Field Airport	County Road 112 & Avenue 360	Unknown
Flood - Dam Failure, Pine Flat Dam	Community	Kings River Nature Preserve	2 miles E of Highway 99 On Road 28	Unknown
Flood - Dam Failure, Pine Flat Dam	Emergency Response	Kings River Fire Station	3811 Avenue 400	Unknown
Flood - Dam Failure, Pine Flat Dam	Transportation	County Bridge #17	0.13 mi W of Rd 38	Unknown
Flood - Dam Failure, Pine Flat Dam	Transportation	County Bridge #288	Road 16	Unknown
Flood - Dam Failure, Pine Flat Dam	Transportation	County Bridge #43	600 N Mendocino Avenue Oc	Unknown
Flood - Dam Failure, Sand Creek Dam	Community	Ledbetter Park	12795 Avenue 408	Unknown
Flood - Dam Failure, Sand Creek Dam	Community	Tulare County Library - Cutler/Orosi Branch	12646 Avenue 416	Unknown
Flood - Dam Failure, Sand Creek Dam	Emergency Response	Cutler-Orosi Fire Station	40779 RD 128	Unknown
Flood - Dam Failure, Sand Creek Dam	Government	Tulare County Sheriff Substation - Cutler/Orosi	40765 Rd 128	Unknown

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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Sand Creek Dam	Transportation	County Bridge #121	0.3 mi S of Avenue 432	Unknown
Flood - Dam Failure, Sand Creek Dam	Transportation	County Bridge #130	.25 mi E of SR 63	Unknown
Flood - Dam Failure, Sand Creek Dam	Transportation	County Bridge #133	.25 mi N of SR 245	Unknown
Flood - Dam Failure, Sand Creek Dam	Transportation	County Bridge #160	At Avenue 416	Unknown
Flood - Dam Failure, Sand Creek Dam	Transportation	County Bridge #270	0.2 mi E of SR 63	Unknown
Flood - Dam Failure, Sand Creek Dam	Transportation	County Bridge #271	0.25 mi E of SR 63	Unknown
Flood - Dam Failure, Sand Creek Dam	Transportation	County Bridge #273	0.4 mi N of Avenue 424	Unknown
Flood - Dam Failure, Sand Creek Dam	Transportation	County Bridge #274	0.25 mi E of SR 63	Unknown
Flood - Dam Failure, Sand Creek Dam	Transportation	County Bridge #275	0.5 mi E of SR 63	Unknown
Flood - Dam Failure, Sand Creek Dam	Transportation	County Bridge #276	0.9 mi E of SR 63	Unknown
Flood - Dam Failure, Sand Creek Dam	Transportation	County Bridge #277	Avenue 420	Unknown
Flood - Dam Failure, Sand Creek Dam	Transportation	County Bridge #281	Road 124	Unknown
Flood - Dam Failure, Sand Creek Dam	Transportation	County Bridge #282	0.05 mi N of Avenue 408	Unknown
Flood - Dam Failure, Sand Creek Dam	Transportation	County Bridge #283	0.1 mi E of SR 63	Unknown
Flood - Dam Failure, Sand Creek Dam	Transportation	County Bridge #284	0.1 mi N of Avenue 414	Unknown

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

Hazard	Category	Name	Address	Value
Flood - Dam Failure, Sand Creek Dam	Transportation	County Bridge #355	025. mi E of Rd 136	Unknown
Flood - Dam Failure, Sand Creek Dam	Transportation	County Bridge #63	0.4 mi E of SR 63	Unknown
Flood - Dam Failure, Success Dam	Community	Bartlett Park	28801Worth Drive	Unknown
Flood - Dam Failure, Success Dam	Community	Woodville Park	16482 Avenue 168	Unknown
Flood - Dam Failure, Success Dam	Emergency Response	Doyle Colony Fire Station	1057 E. Date St.	Unknown
Flood - Dam Failure, Success Dam	Emergency Response	West Olive Fire Station	22315 Avenue 152	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #12	1.2 mi N of Avenue 168	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #15	1.25 mi W of Rd 224	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #201	0.3 mi W of Road 232	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #202	0.25 mi E of Road 224	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #203	0.75 mi W of Road 224	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #216	0.65 mi S of Avenue 192	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #217	0.5 mi S of Avenue 192	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #219	1.0 mi N of Avenue 168	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #224	0.67 mi N of Avenue 168	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #225	0.8 mi N of Avenue 168	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #226	1.4 mi N of Avenue 168	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #227	0.1 mi S of Avenue 188	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #228	0.23 mi N of Avenue 152	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #229	0.13 mi S of Avenue 176	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #230	0.3 mi S Henderson Avenue	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #231	0.47 mi S of Avenue 176	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #239	0.12 mi W of Rd 202	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #240	0.2 mi E of Rd 152	Unknown



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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Success Dam	Transportation	County Bridge #241	0.25 mi W of Rd 168	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #303	0.5 mi E of Road 208	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #304	0.5 mi E of Road 208	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #346	0.1 mi N of SR 190	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #35	At Success Rd	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #49	0.5 mi S of Avenue 184	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #50	0.4 mi N of Avenue 168	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #87	0.25 mi W of Road 216	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #88	0.4 mi S of Avenue 170	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #94	0.4 mi N of Avenue 152	Unknown
Flood - Dam Failure, Success Dam	Transportation	County Bridge #98	0.7 mi N/O Avenue 168	Unknown
Flood - Dam Failure, Terminus Dam	Community	Cutler Park	15520 Ivanhoe Dr	Unknown
Flood - Dam Failure, Terminus Dam	Community	Elk Bayou Regional Park	19701 Hosfield Drive	Unknown
Flood - Dam Failure, Terminus Dam	Community	Tulare County Library - Ivanhoe Branch	15964 Heather	Unknown
Flood - Dam Failure, Terminus Dam	Community	Tulare County Library - Visalia Branch	200 West Oak Avenue	Unknown
Flood - Dam Failure, Terminus Dam	Community	West Main Street Park	2 Blocks W of County Courthouse On Main St.	Unknown
Flood - Dam Failure, Terminus Dam	Emergency Response	Christian Faith Fellowship	506 N. Court St.	Unknown
Flood - Dam Failure, Terminus Dam	Emergency Response	Community Of Christ Church	2127 S. Giddings	Unknown
Flood - Dam Failure, Terminus Dam	Emergency Response	Gateway Church Of Visalia	1100 S Sowell	Unknown

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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Terminus Dam	Emergency Response	Goshen Fire Station	30901 RD 67	Unknown
Flood - Dam Failure, Terminus Dam	Emergency Response	Ivanhoe Fire Station	32868 Hawthorn Rd	Unknown
Flood - Dam Failure, Terminus Dam	Emergency Response	Tulare County Sheriff's Department - Headquarters	2404 W. Burrel Avenue	Unknown
Flood - Dam Failure, Terminus Dam	Emergency Response	Tulare Fire Station	2082 Foster Drive	Unknown
Flood - Dam Failure, Terminus Dam	Emergency Response	Tulare Veterans Memorial Building	1771 E. Tulare Avenue	Unknown
Flood - Dam Failure, Terminus Dam	Emergency Response	Waukena Fire Station	2802 Avenue 192	Unknown
Flood - Dam Failure, Terminus Dam	Government	Tulare County Administrative Office	2800 West Burrel Avenue	Unknown
Flood - Dam Failure, Terminus Dam	Government	Tulare County Civic Center/Tulare County Superior Courts	221 S. Mooney Blvd	Unknown
Flood - Dam Failure, Terminus Dam	Government	Tulare County Human Resources & Development	2900 West Burrel Avenue	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #1	1.75 mi N of SR 198	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #10	0.1 mi N of Avenue 224	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #100	0.4 mi S of SR 137	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #101	Avenue 280	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #102	2.0 mi E of SR 43	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #103	0.9 mi E of SR 43	Unknown

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

Hazard	Category	Name	Address	Value
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #104	0.3 mi W of SR 28	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #105	0.3 mi W of RD 20	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #108	0.2 mi E of RD 164	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #11	0.1 mi S of SR 198	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #110	0.6 mi N of Avenue 280	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #111	0.6 mi W of RD 68	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #112	0.7 mi E of SR 63	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #113	3.25 mi N of SR 198	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #114	0.9 mi N of Avenue 328	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #115	1.0 mi N of Avenue 328	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #129	0.15 mi S of Avenue 224	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #136	.67 mi NE of R180	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #137	.18 mi W of R196	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #14	4.0 mi N of SR 198	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #156	0.5 mi N of Avenue 132	Unknown

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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #172	0.1 mi W of Road 200	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #173	0.2 mi N of Avenue 332	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #174	0.3 mi W of SR 245	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #18	2.3 mi N of SR 198	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #19	0.1 mi S of Avenue 308	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #204	At Avenue 216 (Paige Avenue)	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #206	0.6 mi N of Avenue 160	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #21	0.1 mi N of SR 198	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #212	1.6 mi S of SR 137	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #215	0.25 mi N of A180	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #22	1.9 mi N of Avenue 328	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #220	0.63 mi S of SR 137	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #238	At Rd 24	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #24	0.75 mi W of Rd 180	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #242	At Rd 52	Unknown

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

Hazard	Category	Name	Address	Value
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #243	0.18 mi E of Rd 132	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #244	0.18 mi E of Rd 140	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #246	0.38 mi E of Rd 143	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #25	0.7 mi S of Avenue 360	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #26	0.8 mi S of Avenue 360	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #261	0.1 mi N of SR 198	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #27	0.2 mi S of Avenue 336	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #28	0.5 mi S of Avenue 200	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #290	Road 196	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #291	0.35 mi E of Road 188	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #292	0.1 mi S of Avenue 336	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #293	0.8 mi W of SR 245	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #294	0.25 mi E of Rd 184	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #306	0.3 mi W of Rd 56	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #307	0.4 mi S of Avenue 256	Unknown

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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #308	0.2 mi W of Rd 56	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #309	0.5 mi W of Rd 168	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #31	At SR99 Over Up Rr	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #310	0.6 mi W of Rd 168	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #313	0.7 mi E of Rd 100	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #316	0.2 mi N of Avenue 272	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #318	0.1 mi S of Avenue 264	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #319	0.5 mi E of Rd 164	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #32	At SR99 Over Up Rr	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #320	1.4 mi S of Avenue 280	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #322	0.8 mi S of Avenue 280	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #326	0.1 mi N of SR 198	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #327	0.5 mi W of Rd 164	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #329	0.3 mi N of Avenue 312	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #330	0.2 mi N of A 312	Unknown

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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #331	0.1 mi S of Avenue 312	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #332	0.1 mi E of Rd 180	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #333	0.5 mi W of Rd 180	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #334	0.2 mi E of Rd 180	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #335	0.2 mi S of Avenue 304	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #336	0.3 mi N of Sh 198	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #337	0.3 mi N of SR 198	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #338	0.8 mi N of Avenue 296	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #339	0.4 mi N of SR 198	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #340	0.2 mi N of SR 198	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #345	0.1 mi N of Avenue 246	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #347	0.75 mi S of Avenue 328	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #352	0.2 mi S of Avenue 272	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #354	0.25 mi N of Avenue 272	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #42	0.7 mi N of Avenue 200	Unknown

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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #44	0.3 mi W of Rd 180	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #45	0.5 mi W of Rd 180	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #47	0.6 mi W of Road 96	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #48	0.9 mi W of Rd 108	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #6	0.8 mi N Avenue 184	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #66	0.5 mi S of Avenue 168	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #7	S of Avenue 196	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #73	0.7 mi W of Rd 180	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #74	0.5 mi N of Avenue 304	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #8	0.2 mi E of Rd 164	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #89	0.1 mi N/O Avenue 184	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #9	0.7 mi N of Avenue 308	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	County Bridge #99	0.1 mi N/O Avenue 184	Unknown
Fog <sup>+</sup>	Community	Alpaugh Park	Tule Road and Park Avenue	Unknown
Fog <sup>+</sup>	Community	Cutler Park	15520 Ivanhoe Dr	Unknown
Fog <sup>+</sup>	Community	Elk Bayou Regional Park	19701 Hosfield Dr	Unknown



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

Hazard	Category	Name	Address	Value
Fog <sup>+</sup>	Community	Kings River Nature Preserve	2 miles E of Highway 99 On Road 28	Unknown
Fog <sup>+</sup>	Community	Ledbetter Park	12795 Avenue 408	Unknown
Fog <sup>+</sup>	Community	Mooney Grove Park/Tulare County Museum	27000 S. Mooney Grove Boulevard	Unknown
Fog <sup>+</sup>	Community	Pixley Park	850 N. Park Dr	Unknown
Fog <sup>+</sup>	Community	Tulare County Library - Alpaugh Branch	3816 Avenue 54	Unknown
Fog <sup>+</sup>	Community	Tulare County Library - Cutler/Orosi Branch	12646 Avenue 416	Unknown
Fog <sup>+</sup>	Community	Tulare County Library - Dinuba Branch	150 South I Street	Unknown
Fog <sup>+</sup>	Community	Tulare County Library - Earlimart Branch	780 East Washington Street	Unknown
Fog <sup>+</sup>	Community	Tulare County Library - Exeter Branch	230 East Chestnut	Unknown
Fog <sup>+</sup>	Community	Tulare County Library - Ivanhoe Branch	15964 Heather	Unknown
Fog <sup>+</sup>	Community	Tulare County Library - Lindsay Branch	157 North Mirage Street	Unknown
Fog <sup>+</sup>	Community	Tulare County Library - Pixley Branch	300 North School	Unknown
Fog <sup>+</sup>	Community	Tulare County Library - Strathmore Branch	19646 Road 230	Unknown
Fog <sup>+</sup>	Community	Tulare County Library - Terra Bella Branch	23825 Avenue 92	Unknown
Fog <sup>+</sup>	Community	Tulare County Library - Tipton Branch	221 North Evans Road	Unknown
Fog <sup>+</sup>	Community	Tulare County Library - Visalia Branch	200 West Oak Avenue	Unknown

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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Fog <sup>+</sup>	Community	Tulare County Library - Woodlake Branch	400 West Whitney	Unknown
Fog <sup>+</sup>	Community	West Main Street Park	2 Blocks W of County Courthouse On Main St.	Unknown
Fog <sup>+</sup>	Community	Woodville Park	16482 Avenue 168	Unknown
Fog <sup>+</sup>	Emergency Response	Alpaugh Fire Station	3939 Avenue 54	Unknown
Fog <sup>+</sup>	Emergency Response	Christian Faith Fellowship	506 N. Court St.	Unknown
Fog <sup>+</sup>	Emergency Response	Community Of Christ Church	2127 S. Giddings	Unknown
Fog <sup>+</sup>	Emergency Response	Cutler-Orosi Fire Station	40779 RD 128	Unknown
Fog <sup>+</sup>	Emergency Response	Dinuba Fire Station	40404 RD 80	Unknown
Fog <sup>+</sup>	Emergency Response	Doyle Colony Fire Station	1057 E. Date St.	Unknown
Fog <sup>+</sup>	Emergency Response	Ducor Fire Station	23607 Avenue 56	Unknown
Fog <sup>+</sup>	Emergency Response	Earlimart Fire Station	808 E. Washington Av	Unknown
Fog <sup>+</sup>	Emergency Response	Exeter Fire Station	137 No. "F" St.	Unknown
Fog <sup>+</sup>	Emergency Response	Farmersville Fire Station	Avenue 280/Road 164	Unknown
Fog <sup>+</sup>	Emergency Response	Fire Administration Building	907 West Visalia Rd.	Unknown
Fog <sup>+</sup>	Emergency Response	Gateway Church Of Visalia	1100 S Sowell	Unknown
Fog <sup>+</sup>	Emergency Response	Goshen Fire Station	30901 RD 67	Unknown
Fog <sup>+</sup>	Emergency Response	Ivanhoe Fire Station	32868 Hawthorn Rd	Unknown
Fog <sup>+</sup>	Emergency Response	Kings River Fire Station	3811 Avenue 400	Unknown
Fog <sup>+</sup>	Emergency Response	Lindsay Fire Station	19603 Avenue 228	Unknown
Fog <sup>+</sup>	Emergency Response	Lindsay First Assembly of God	360 E. Hermosa St.	Unknown
Fog <sup>+</sup>	Emergency Response	Pixley Fire Station	200 No. Park Rd.	Unknown
Fog <sup>+</sup>	Emergency Response	Richgrove Fire Station	20890 Grove Drive	Unknown
Fog <sup>+</sup>	Emergency Response	Strathmore Fire Protection District	22908 Avenue 196	Unknown
Fog <sup>+</sup>	Emergency Response	Terra Bella Fire Station	23658 Avenue 95	Unknown

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

Hazard	Category	Name	Address	Value
Fog <sup>+</sup>	Emergency Response	Tipton Fire Station	241 SO Graham Rd	Unknown
Fog <sup>+</sup>	Emergency Response	Tulare County Consolidated Ambulance Dispatch (TCCAD)	125 N. N St.	Unknown
Fog <sup>+</sup>	Emergency Response	Tulare County Sheriff - Personnel & Training	36004 Road 112	Unknown
Fog <sup>+</sup>	Emergency Response	Tulare County Sheriff - Pixley Patrol Substation	161 N. Pine St	Unknown
Fog <sup>+</sup>	Emergency Response	Tulare County Sheriff - Porterville Patrol Substation	379 North 3rd Street	Unknown
Fog <sup>+</sup>	Emergency Response	Tulare County Sheriff's Department	36000 Road 112	Unknown
Fog <sup>+</sup>	Emergency Response	Tulare County Sheriff's Department - Headquarters	2404 W. Burrel Avenue	Unknown
Fog <sup>+</sup>	Emergency Response	Tulare Fire Station	2082 Foster Drive	Unknown
Fog <sup>+</sup>	Emergency Response	Tulare Police Department	260 S. M ST	Unknown
Fog <sup>+</sup>	Emergency Response	Tulare Veterans Memorial Building	1771 E. Tulare Avenue	Unknown
Fog <sup>+</sup>	Emergency Response	Tulare Youth Center	848 North H Street	Unknown
Fog <sup>+</sup>	Emergency Response	Valley Christian Church	432 E. Pleasant Avenue	Unknown
Fog <sup>+</sup>	Emergency Response	Waukena Fire Station	2802 Avenue 192	Unknown
Fog <sup>+</sup>	Emergency Response	West Olive Fire Station	22315 Avenue 152	Unknown
Fog <sup>+</sup>	Emergency Response	Woodlake Christian Center	799 N. Valencia Boulevard	Unknown
Fog <sup>+</sup>	Government	Government Plaza/Tulare County Elections	5951 S. Mooney Boulevard	Unknown
Fog <sup>+</sup>	Government	Tulare County Administrative Office	2800 West Burrel Avenue	Unknown
Fog <sup>+</sup>	Government	Tulare County Civic Center/Tulare County Superior Courts	221 S. Mooney Blvd	Unknown

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

Hazard	Category	Name	Address	Value
Fog <sup>+</sup>	Government	Tulare County Fire Dispatch/Radio Shop	11871 Avenue 272	Unknown
Fog <sup>+</sup>	Government	Tulare County Human Resources & Development	2900 West Burrel Avenue	Unknown
Fog <sup>+</sup>	Government	Tulare County Municipal Court	87 E. Morton Avenue	Unknown
Fog <sup>+</sup>	Government	Tulare County Municipal Court	425 E. Kern Avenue	Unknown
Fog <sup>+</sup>	Government	Tulare County Municipal Court	640 S. Alta Avenue	Unknown
Fog <sup>+</sup>	Government	Tulare County Sheriff Substation - Cutler/Orosi	40765 Rd 128	Unknown
Fog <sup>+</sup>	Incarceration	Tulare County Sheriff's Office - Bob Wiley Detention Facility	36712 Road 112	Unknown
Fog <sup>+</sup>	Incarceration	Tulare County Sheriff's Office - Juvenile Detention Facility	11200 Avenue 368	Unknown
Fog <sup>+</sup>	Incarceration	Tulare County Sheriff's Office - Men's Correctional Facility	36008 Road 112	Unknown
Fog <sup>+</sup>	Incarceration	Tulare County Sheriff's Office - Pre-Trial Facility	36650 Road 112	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #1	1.75 mi N of SR 198	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #10	0.1 mi N of Avenue 224	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #100	0.4 mi S of SR 137	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #101	Avenue 280	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #102	2.0 mi E of SR 43	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #103	0.9 mi E of SR 43	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #104	0.3 mi W of SR 28	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #105	0.3 mi W of RD 20	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #106	0.2 mi W of RD 236	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #108	0.2 mi E of RD 164	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #109	0.3 mi W RD 132	Unknown

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

Hazard	Category	Name	Address	Value
Fog <sup>+</sup>	Transportation	County Bridge #11	0.1 mi S of SR 198	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #110	0.6 mi N of Avenue 280	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #111	0.6 mi W of RD 68	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #112	0.7 mi E of SR 63	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #113	3.25 mi N of SR 198	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #114	0.9 mi N of Avenue 328	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #115	1.0 mi N of Avenue 328	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #116	0.6 mi S of Avenue 360	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #12	1.2 mi N of Avenue 168	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #121	0.3 mi S of Avenue 432	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #122	0.35 mi N SR 201	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #123	0.4 mi N of Avenue 368	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #124	@ Avenue 408	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #125	0.2 mi N of Avenue 264	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #127	0.5 mi S of SR 198	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #129	0.15 mi S of Avenue 224	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #13	Intersection with Avenue 272	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #130	.25 mi E of SR 63	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #133	0.19 mi S of A456	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #136	.67 mi NE of R180	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #137	.18 mi W of R196	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #14	4.0 mi N of SR 198	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #15	1.25 mi W of Rd 224	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #151	0.2 mi W SR 245	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #152	0.1 mi E of Rd 168	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #153	0.2 mi E of Rd 156	Unknown

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

Hazard	Category	Name	Address	Value
Fog <sup>+</sup>	Transportation	County Bridge #156	0.5 mi N of Avenue 132	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #157	At Road 52	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #158	0.25 mi E of Rd 64	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #16	.1 mi S/O Avenue 32	
Fog <sup>+</sup>	Transportation	County Bridge #160	At Avenue 416	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #161	0.1 mi W of Road 124	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #162	0.2 mi W of Rd 124	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #163	0.1 mi E of Road 140	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #164	At Road 144	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #165	0.4 mi E of Road 144	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #166	0.5 mi N of Avenue 420	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #167	0.2 mi W of Road 176	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #168	0.3 mi N of A390	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #169	0.2 mi N of Avenue 388	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #17	0.13 mi W of Rd 38	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #170	0.4 mi N of Avenue 384	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #171	0.6 mi W of SR 201	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #172	0.1 mi W of Road 200	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #173	0.2 mi N of Avenue 332	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #174	0.3 mi W of SR 245	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #176	0.25 mi E of Road 200	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #177	0.1 mi E of Road 204	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #178	0.2 mi E of Road 206	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #179	0.3 mi E of Road 204	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #18	2.3 mi N of SR 198	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #180	0.8 mi E of Road 204	Unknown

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

Hazard	Category	Name	Address	Value
Fog <sup>+</sup>	Transportation	County Bridge #181	0.6 mi E of Road 216	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #182	0.1 mi E of Road 224	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #183	0.25 mi E of Road 228	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #184	0.1 mi E of Rd 228	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #185	0.35 mi E of Road 228	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #186	0.4 mi E of Rd 228	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #187	0.25 mi E of Road 228	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #188	0.25 mi E of Road 228	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #189	0.25 mi E of Road 228	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #19	0.1 mi S of Avenue 308	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #190	0.25 mi E of Road 228	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #191	0.25 mi W of Road 232	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #192	0.25 mi E of Road 228	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #193	0.25 mi W of Road 232	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #194	0.2 mi S of Avenue 200	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #195	At Road 234	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #196	0.1 mi E of Road 232	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #197	0.1 mi W of Road 232	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #198	At Drive 232/Newcomb St	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #199	0.25 mi W of Road 232	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #20	0.25 mi E of Rd 156	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #200	0.25 mi W of Road 232	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #201	0.3 mi W of Road 232	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #202	0.25 mi E of Road 224	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #203	0.75 mi W of Road 224	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #204	At Avenue 216 (Paige Avenue)	Unknown

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

Hazard	Category	Name	Address	Value
Fog <sup>+</sup>	Transportation	County Bridge #205	1.0 mi N of Avenue 72	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #206	0.6 mi N of Avenue 160	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #207	1.1 mi N of Avenue 160	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #208	0.25 mi N of Avenue 176	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #209	0.5 mi S of Avenue 40	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #21	0.1 mi N of SR 198	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #210	0.3 mi N of Avenue 168	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #211	0.25 mi N of A 208	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #212	1.6 mi S of SR 137	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #213	0.68 mi N of Avenue 168	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #214	0.1 mi S of A186	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #215	0.25 mi N of A180	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #216	0.65 mi S of Avenue 192	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #217	0.5 mi S of Avenue 192	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #218	0.5 mi S of Avenue 40	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #219	1.0 mi N of Avenue 168	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #22	1.9 mi N of Avenue 328	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #220	0.63 mi S of SR 137	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #221	2.75 mi S of Avenue 56	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #222	0.1 mi N of Avenue 32	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #223	0.1 mi E of Rt 168	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #224	0.67 mi N of Avenue 168	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #225	0.8 mi N of Avenue 168	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #226	1.4 mi N of Avenue 168	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #227	0.1 mi S of Avenue 188	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #228	0.23 mi N of Avenue 152	Unknown



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

Hazard	Category	Name	Address	Value
Fog <sup>+</sup>	Transportation	County Bridge #229	0.13 mi S of Avenue 176	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #23	0.45 mi W of Road 192	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #230	0.3 mi S Henderson Avenue	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #231	0.47 mi S of Avenue 176	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #232	0.05 mi S of Avenue 224	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #233	@ Avenue 236	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #234	0.13 mi N of Avenue 232	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #235	0.25 mi S of Avenue 220	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #236	0.5 mi E of SR 43	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #237	1.1 mi E of SR 43	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #238	At Rd 24	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #239	0.12 mi W of Rd 202	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #24	0.75 mi W of Rd 180	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #240	0.2 mi E of Rd 152	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #241	0.25 mi W of Rd 168	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #242	At Rd 52	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #243	0.18 mi E of Rd 132	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #244	0.18 mi E of Rd 140	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #245	0.25 mi E of Rd 244	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #246	0.38 mi E of Rd 143	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #247	0.3 mi E of Rd 236	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #248	0.25 mi W of Rd 224	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #25	0.7 mi S of Avenue 360	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #250	0.6 mi S of A116	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #251	0.1 mi S of A 104	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #252	0.9 mi S of Avenue 88	Unknown

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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Fog <sup>+</sup>	Transportation	County Bridge #253	0.6 mi S of Avenue 78	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #254	.25 mi N of SR245	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #255	0.3 mi S of Avenue 40	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #256	At Road 176	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #257	0.5 mi W of Road 184	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #258	0.05 mi W of Road 184	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #259	0.02 mi W of Road 184	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #26	0.8 mi S of Avenue 360	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #261	0.1 mi N of SR 198	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #263	0.7 mi N of A344	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #264	0.4 mi N of A 352	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #265	0.25 mi N of Avenue 356	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #266	0.9 mi N of Avenue 352	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #267	1.25 mi N of Avenue 364	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #268	0.05 mi N of Avenue 368	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #269	1.0 mi W of Rd 108	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #27	0.2 mi S of Avenue 336	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #270	0.2 mi E of SR 63	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #271	0.25 mi E of SR 63	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #272	0.4 mi E of R 109	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #273	0.4 mi N of Avenue 424	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #274	0.25 mi E of SR 63	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #275	0.5 mi E of SR 63	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #276	0.9 mi E of SR 63	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #277	Avenue 420	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #278	0.2 mi E of Road 108	Unknown

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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Fog <sup>+</sup>	Transportation	County Bridge #279	0.4 mi E of Road 108	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #28	0.5 mi S of Avenue 200	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #280	0.1 mi E of Avenue 400	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #281	Road 124	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #282	0.05 mi N of Avenue 408	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #283	0.1 mi E of SR 63	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #284	0.1 mi N of Avenue 414	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #285	0.05 mi E of Rd 48	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #286	0.4 mi E of Rd 64	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #287	0.25 mi E of Road 40	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #288	Road 16	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #289	Road 40	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #29	0.05 mi S of Avenue 368	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #290	Road 196	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #291	0.35 mi E of Road 188	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #292	0.1 mi S of Avenue 336	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #293	0.8 mi W of SR 245	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #294	0.25 mi E of Rd 184	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #295	0.1 mi S of Avenue 40	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #296	0.05 mi E of Road 184	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #297	0.1 mi E of Road 184	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #298	0.5 mi E of Road 192	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #299	0.8 mi W of Road 208	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #3	1.0 mi N of Avenue 160	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #30	Avenue 368	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #300	0.1 mi S of Avenue 96	Unknown

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

Hazard	Category	Name	Address	Value
Fog <sup>+</sup>	Transportation	County Bridge #301	At Road 208	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #302	At Road 208	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #303	0.5 mi E of Road 208	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #304	0.5 mi E of Road 208	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #305	0.2 mi E of Rd 64	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #306	0.3 mi W of Rd 56	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #307	0.4 mi S of Avenue 256	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #308	0.2 mi W of Rd 56	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #309	0.5 mi W of Rd 168	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #31	At SR99 Over Up Rr	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #310	0.6 mi W of Rd 168	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #311	0.3 mi E of Rd 124	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #312	0.5 mi E of Rd 100	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #313	0.7 mi E of Rd 100	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #314	0.6 mi E of SR 63	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #315	0.4 mi S of Avenue 271	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #316	0.2 mi N of Avenue 272	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #317	0.5 mi S of Avenue 272	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #318	0.1 mi S of Avenue 264	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #319	0.5 mi E of Rd 164	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #32	At SR99 Over Up Rr	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #320	1.4 mi S of Avenue 280	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #321	0.5 mi S of Avenue 280	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #322	0.8 mi S of Avenue 280	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #323	0.1 mi S of Avenue 288	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #324	0.3 mi N of Avenue 288	Unknown

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

Hazard	Category	Name	Address	Value
Fog <sup>+</sup>	Transportation	County Bridge #325	@ Mtn 296 (Yokohl Drive)	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #326	0.1 mi N of SR 198	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #327	0.5 mi W of Rd 164	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #328	0.1 mi E of Rd 168	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #329	0.3 mi N of Avenue 312	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #33	State Route 99	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #330	0.2 mi N of A 312	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #331	0.1 mi S of Avenue 312	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #332	0.1 mi E of Rd 180	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #333	0.5 mi W of Rd 180	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #334	0.2 mi E of Rd 180	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #335	0.2 mi S of Avenue 304	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #336	0.3 mi N of Sh 198	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #337	0.3 mi N of SR 198	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #338	0.8 mi N of Avenue 296	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #339	0.4 mi N of SR 198	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #34	0.45 mi N of Avenue 164	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #340	0.2 mi N of SR 198	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #344	0.3 mi N of Avenue 32	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #345	0.1 mi N of Avenue 246	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #347	0.75 mi S of Avenue 328	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #348	0.2 mi W of Rd 108	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #349	0.7 mi E of Rd 144	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #35	At Success Rd	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #350	0.35 mi N of Avenue 256	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #351	0.5 mi N of Avenue 264	Unknown

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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Fog <sup>+</sup>	Transportation	County Bridge #352	0.2 mi S of Avenue 272	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #353	0.5 mi S of Avenue 272	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #354	0.25 mi N of Avenue 272	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #355	0.25 mi E of Rd 136	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #356	0.42 mi N of Avenue 64	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #36	0.1 mi N of Avenue 190	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #37	2.05 mi S of Avenue 352	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #38	1.95 mi S of Avenue 352	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #39	1.15 mi S of Avenue 352	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #4	1.1 mi N of Avenue 160	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #40	At Road 48	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #41	Avenue 384 @ Rd 108	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #42	0.7 mi N of Avenue 200	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #43	600 N Mendocino Avenue Oc	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #44	0.3 mi W of Rd 180	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #45	0.5 mi W of Rd 180	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #46	@ Avenue 416	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #47	0.6 mi W of Road 96	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #48	0.9 mi W of Rd 108	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #49	0.5 mi S of Avenue 184	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #5	2.2 mi N Avenue 160	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #50	0.4 mi N of Avenue 168	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #51	0.9 mi N of Avenue 104	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #52	2.0 mi S of SR 201	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #59	0.3 mi S of M120	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #6	0.8 mi N Avenue 184	Unknown

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

Hazard	Category	Name	Address	Value
Fog <sup>+</sup>	Transportation	County Bridge #60	0.5 mi E of R 272	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #62	1.8 mi S of Avenue 56	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #63	0.4 mi E of SR 63	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #64	2 mi E of Road 144	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #65	0.05 mi E of Road 208	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #66	0.5 mi S of Avenue 168	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #67	0.1 mi N of A104	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #68	0.1 mi S of A72	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #69	1.2 mi S/O Avenue 96	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #7	S of Avenue 196	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #70	0.2 mi E of Rd 176	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #71	0.35 mi N of A108	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #72	0.16 mi N of Avenue 220	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #73	0.7 mi W of Rd 180	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #74	0.5 mi N of Avenue 304	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #75	Just S of M296	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #8	0.2 mi E of Rd 164	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #81	0.4 mi S Avenue 248	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #84	0.1 mi N of Avenue 62	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #85	0.4 mi N of Avenue 68	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #87	0.25 mi W of Road 216	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #88	0.4 mi S of Avenue 170	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #89	0.1 mi N/O Avenue 184	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #9	0.7 mi N of Avenue 308	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #90	1.8 mi S/O Avenue 184	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #91	0.1 mi W of Road 22	Unknown

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

Hazard	Category	Name	Address	Value
Fog <sup>+</sup>	Transportation	County Bridge #92	0.1 mi E of Rd 64	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #94	0.4 mi N of Avenue 152	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #95	0.05 mi S of Avenue 96	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #96	1.0 mi S of Avenue 80	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #97	0.1 mi W of Rd 74	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #98	0.7 mi N/O Avenue 168	Unknown
Fog <sup>+</sup>	Transportation	County Bridge #99	0.1 mi N/O Avenue 184	Unknown
Fog <sup>+</sup>	Transportation	Eckert Field Airport	23500 Avenue 204	Unknown
Fog <sup>+</sup>	Transportation	Sequoia Field Airport	County Road 112 & Avenue 360	Unknown
Post-Fire Debris Flow	Transportation	County Bridge #143	2.23 mi SE of M120	Unknown
Post-Fire Debris Flow	Transportation	County Bridge #145	5.86 mi SE of M120	Unknown
Post-Fire Debris Flow	Transportation	County Bridge #175	0.1 mi W of SR 245	Unknown
Post-Fire Debris Flow	Transportation	County Bridge #346	0.1 mi N of SR 190	Unknown
Post-Fire Debris Flow	Transportation	County Bridge #60	0.5 mi E of R 272	Unknown
Post-Fire Debris Flow	Transportation	County Bridge #62	1.8 mi S of Avenue 56	Unknown
Post-Fire Debris Flow	Transportation	County Bridge #76	0.1 mi W of SR 145	Unknown
Post-Fire Debris Flow	Transportation	County Bridge #79	0.1 mi W of SR 245	Unknown
Severe Winter Storm - Freezing*	Community	Alpaugh Park	Tule Road and Park Avenue	Unknown
Severe Winter Storm - Freezing*	Community	Balch Park	48200 Bear Creek Dr	Unknown
Severe Winter Storm - Freezing*	Community	Ledbetter Park	12795 Avenue 408	Unknown
Severe Winter Storm - Freezing*	Community	Tulare County Library - Alpaugh Branch	3816 Avenue 54	Unknown
Severe Winter Storm - Freezing*	Community	Tulare County Library - Cutler/Orosi Branch	12646 Avenue 416	Unknown
Severe Winter Storm - Freezing*	Community	Tulare County Library - Dinuba Branch	150 South I Street	Unknown



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

Hazard	Category	Name	Address	Value
Severe Winter Storm - Freezing*	Community	Tulare County Library - Springville Branch	35800 Highway 190	Unknown
Severe Winter Storm - Freezing*	Emergency Response	Alpaugh Fire Station	3939 Avenue 54	Unknown
Severe Winter Storm - Freezing*	Emergency Response	Camp Nelson Fire Station	1500 Nelson Drive	Unknown
Severe Winter Storm - Freezing*	Emergency Response	Cutler-Orosi Fire Station	40779 RD 128	Unknown
Severe Winter Storm - Freezing*	Emergency Response	Kennedy Meadows Fire Station	Box 3A-10 Kennedy Meadows Road	Unknown
Severe Winter Storm - Freezing*	Emergency Response	Milo Forest Fire Station	38251 Yokohl Vly Rd	Unknown
Severe Winter Storm - Freezing*	Emergency Response	Pine Mountain Fire Station	Rt. 4 Box 665	Unknown
Severe Winter Storm - Freezing*	Emergency Response	Posey Fire Station	Rt. 1 Box 239	Unknown
Severe Winter Storm - Freezing*	Emergency Response	Springville Fire Station	35659 Hwy 190	Unknown
Severe Winter Storm - Freezing*	Emergency Response	Springville Veterans Memorial Building	35978 Highway 190	Unknown
Severe Winter Storm - Freezing*	Emergency Response	Waukena Fire Station	2802 Ave 192	Unknown
Severe Winter Storm - Freezing*	Government	Tulare County Municipal Court	640 S. Alta Avenue	Unknown
Severe Winter Storm - Freezing*	Government	Tulare County Sheriff Substation - Cutler/Orosi	40765 Rd 128	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #102	2.0 mi E of SR 43	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #103	0.9 mi E of SR 43	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #104	0.3 mi W of SR 28	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #105	0.3 mi W of RD 20	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #117	.5 mi SE of M193A	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #118	3.41 mi E of Balch Park	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #119	3 mi N of Jack Ranch Rd	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #120	0.1 mi Balch Park Rd	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #121	0.3 mi S of Avenue 432	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #122	0.35 mi N SR 201	Unknown

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

Hazard	Category	Name	Address	Value
Severe Winter Storm - Freezing*	Transportation	County Bridge #124	@ Avenue 408	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #126	3.5 mi N of SR 190	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #128	6.7 mi E of Balch Park Rd	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #130	.25 mi E of SR 63	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #133	0.19 mi S of A456	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #134	0.1 mi SE SR 190	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #138	11.1 mi SE of Road M347	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #139	6.68 mi E of SR 198	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #146	13.9 mi SE of M120	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #147	0.3 mi N of M56	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #148	16.4 mi E M109	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #149	11.94 mi SE of M50	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #150	4.81 mi SE of M50	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #156	0.5 mi N of Avenue 132	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #158	0.25 mi E of Rd 64	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #160	At Avenue 416	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #161	0.1 mi W of Road 124	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #162	0.2 mi W of Rd 124	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #163	0.1 mi E of Road 140	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #164	At Road 144	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #165	0.4 mi E of Road 144	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #166	0.5 mi N of Avenue 420	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #167	0.2 mi W of Road 176	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #168	0.3 mi N of A390	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #17	0.13 mi W of Rd 38	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #205	1.0 mi N of Avenue 72	Unknown

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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freezing*	Transportation	County Bridge #236	0.5 mi E of SR 43	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #237	1.1 mi E of SR 43	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #238	At Rd 24	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #249	3.7 mi N of M296	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #270	0.2 mi E of SR 63	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #271	0.25 mi E of SR 63	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #272	0.4 mi E of R 109	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #273	0.4 mi N of Avenue 424	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #274	0.25 mi E of SR 63	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #275	0.5 mi E of SR 63	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #276	0.9 mi E of SR 63	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #277	Avenue 420	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #281	Road 124	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #282	0.05 mi N of Avenue 408	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #283	0.1 mi E of SR 63	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #284	0.1 mi N of Avenue 414	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #286	0.4 mi E of Rd 64	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #341	0.1 mi E of M239	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #342	4.1 mi E of Cr M50	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #343	0.3 mi E of M239	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #349	0.7 mi E of Rd 144	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #355	0.25 mi E of Rd 136	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #46	@ Avenue 416	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #55	0.1 mi E of FAP 190	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #56	0.19 mi NE of SM 239	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #57	0.3 mi N of SM 296	Unknown

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

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freezing*	Transportation	County Bridge #63	0.4 mi E of SR 63	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #64	2 mi E of Road 144	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #77	0.1 mi S of SR 190	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #80	0.2 mi S of M348	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #82	1.6 mi E of M465	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #83	2.7 mi NE of SR 245	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #84	0.1 mi N of Avenue 62	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #85	0.4 mi N of Avenue 68	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #86	0.1 mi S of Old Stage Rd	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #91	0.1 mi W of Road 22	Unknown
Severe Winter Storm - Freezing*	Transportation	County Bridge #92	0.1 mi E of Rd 64	Unknown
Severe Winter Storm - Freezing*	Transportation	Sequoia Ranch Airport	Latitude/Longitude	Unknown
Severe Winter Storm - Snowfall**	Community	Balch Park	48200 Bear Creek Dr	Unknown
Severe Winter Storm - Snowfall**	Emergency Response	Camp Nelson Fire Station	1500 Nelson Drive	Unknown
Severe Winter Storm - Snowfall**	Emergency Response	Kennedy Meadows Fire Station	Box 3A-10 Kennedy Meadows Road	Unknown
Severe Winter Storm - Snowfall**	Emergency Response	Pine Mountain Fire Station	Rt. 4 Box 665	Unknown
Severe Winter Storm - Snowfall**	Emergency Response	Posey Fire Station	Rt. 1 Box 239	Unknown
Severe Winter Storm - Snowfall**	Transportation	County Bridge #117	.5 mi SE of M193A	Unknown
Severe Winter Storm - Snowfall**	Transportation	County Bridge #118	3.41 mi E of Balch Park	Unknown
Severe Winter Storm - Snowfall**	Transportation	County Bridge #119	3 mi N of Jack Ranch Rd	Unknown
Severe Winter Storm - Snowfall**	Transportation	County Bridge #128	6.7 mi E of Balch Park Rd	Unknown
Severe Winter Storm - Snowfall**	Transportation	County Bridge #138	11.1 mi SE of Road M347	Unknown
Severe Winter Storm - Snowfall**	Transportation	County Bridge #149	11.94 mi SE of M50	Unknown
Severe Winter Storm - Snowfall**	Transportation	County Bridge #150	4.81 mi SE of M50	Unknown
Severe Winter Storm - Snowfall**	Transportation	County Bridge #249	3.7 mi N of M296	Unknown

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

Hazard	Category	Name	Address	Value
Severe Winter Storm - Snowfall**	Transportation	County Bridge #342	4.1 mi E of Cr M50	Unknown
Severe Winter Storm - Snowfall**	Transportation	County Bridge #57	0.3 mi N of SM 296	Unknown
Severe Winter Storm - Snowfall**	Transportation	County Bridge #83	2.7 mi NE of SR 245	Unknown
Severe Winter Storm - Wind Gust***	Community	Balch Park	48200 Bear Creek Dr	Unknown
Severe Winter Storm - Wind Gust***	Emergency Response	Camp Nelson Fire Station	1500 Nelson Drive	Unknown
Severe Winter Storm - Wind Gust***	Transportation	County Bridge #117	.5 mi SE of M193A	Unknown
Severe Winter Storm - Wind Gust***	Transportation	County Bridge #128	6.7 mi E of Balch Park Rd	Unknown
Severe Winter Storm - Wind Gust***	Transportation	County Bridge #135	0.5 mi From Rd SD 243	Unknown
Severe Winter Storm - Wind Gust***	Transportation	County Bridge #249	3.7 mi N of M296	Unknown
Severe Winter Storm - Wind Gust***	Transportation	County Bridge #57	0.3 mi N of SM 296	Unknown
Severe Winter Storm - Wind Gust***	Transportation	County Bridge #82	1.6 mi E of M465	Unknown
Severe Winter Storm - Wind Gust***	Transportation	County Bridge #83	2.7 mi NE of SR 245	Unknown
Volcano - Ash Fall	Transportation	County Bridge #131	.15 mi S of Fresno County Line	Unknown
Volcano - Ash Fall	Transportation	County Bridge #135	0.5 mi From Rd SD 243	Unknown
Volcano - Ash Fall	Transportation	County Bridge #82	1.6 mi E of M465	Unknown
Volcano - Ash Fall	Transportation	County Bridge #83	2.7 mi NE of SR 245	Unknown
Wildfire - Very High	Community	Balch Park	48200 Bear Creek Dr	Unknown
Wildfire - Very High	Emergency Response	Camp Nelson Fire Station	1500 Nelson Drive	Unknown
Wildfire - Very High	Emergency Response	Posey Fire Station	Rt. 1 Box 239	Unknown

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

Hazard	Category	Name	Address	Value
Wildfire - Very High	Transportation	County Bridge #117	.5 mi SE of M193A	Unknown
Wildfire - Very High	Transportation	County Bridge #119	3 mi N of Jack Ranch Rd	Unknown
Wildfire - Very High	Transportation	County Bridge #128	6.7 mi E of Balch Park Rd	Unknown
Wildfire - Very High	Transportation	County Bridge #138	11.1 mi SE of Road M347	Unknown
Wildfire - Very High	Transportation	County Bridge #139	6.68 mi E of SR 198	Unknown
Wildfire - Very High	Transportation	County Bridge #149	11.94 mi SE of M50	Unknown
Wildfire - Very High	Transportation	County Bridge #150	4.81 mi SE of M50	Unknown
Wildfire - Very High	Transportation	County Bridge #2	0.06 mi N of SR 198	Unknown
Wildfire - Very High	Transportation	County Bridge #260	0.16 mi N of M357	Unknown
Wildfire - Very High	Transportation	County Bridge #342	4.1 mi E of Cr M50	Unknown
Wildfire - High	Community	Tulare County Library - Springville Branch	35800 Highway 190	Unknown
Wildfire - High	Community	Tulare County Library - Three Rivers Branch	42052 Eggers Dr	Unknown
Wildfire - High	Emergency Response	Kennedy Meadows Fire Station	Box 3A-10 Kennedy Meadows Road	Unknown
Wildfire - High	Emergency Response	Milo Forest Fire Station	38251 Yokohl Vly Rd	Unknown
Wildfire - High	Emergency Response	Pine Mountain Fire Station	Rt. 4 Box 665	Unknown
Wildfire - High	Emergency Response	Springville Fire Station	35659 HWY 190	Unknown
Wildfire - High	Emergency Response	Springville Veterans Memorial Building	35978 Highway 190	Unknown
Wildfire - High	Transportation	County Bridge #118	3.41 mi E of Balch Park	Unknown
Wildfire - High	Transportation	County Bridge #120	0.1 mi Balch Park Rd	Unknown
Wildfire - High	Transportation	County Bridge #126	3.5 mi N of SR 190	Unknown
Wildfire - High	Transportation	County Bridge #131	.15 mi S of Fresno County Line	Unknown
Wildfire - High	Transportation	County Bridge #132	.25 mi N of SR 245	Unknown
Wildfire - High	Transportation	County Bridge #134	0.1 mi SE SR 190	Unknown

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

Hazard	Category	Name	Address	Value
Wildfire - High	Transportation	County Bridge #135	0.5 mi From Rd SD 243	Unknown
Wildfire - High	Transportation	County Bridge #140	1.34 mi SE of Rd M347	Unknown
Wildfire - High	Transportation	County Bridge #141	1.42 mi SE of M347	Unknown
Wildfire - High	Transportation	County Bridge #142	4.1 mi SE Co Rd M347	Unknown
Wildfire - High	Transportation	County Bridge #146	13.9 mi SE of M120	Unknown
Wildfire - High	Transportation	County Bridge #147	0.3 mi N of M56	Unknown
Wildfire - High	Transportation	County Bridge #148	16.4 mi E M109	Unknown
Wildfire - High	Transportation	County Bridge #151	0.2 mi W SR 245	Unknown
Wildfire - High	Transportation	County Bridge #175	0.1 mi W of SR 245	Unknown
Wildfire - High	Transportation	County Bridge #341	0.1 mi E of M239	Unknown
Wildfire - High	Transportation	County Bridge #343	0.3 mi E of M239	Unknown
Wildfire - High	Transportation	County Bridge #355	025. mi E of Rd 136	Unknown
Wildfire - High	Transportation	County Bridge #53	3.25 mi N of SR 198	Unknown
Wildfire - High	Transportation	County Bridge #55	0.1 mi E of FAP 190	Unknown
Wildfire - High	Transportation	County Bridge #56	0.19 mi NE of SM 239	Unknown
Wildfire - High	Transportation	County Bridge #57	0.3 mi N of SM 296	Unknown
Wildfire - High	Transportation	County Bridge #76	0.1 mi W of SR 145	Unknown
Wildfire - High	Transportation	County Bridge #77	0.1 mi S of SR 190	Unknown
Wildfire - High	Transportation	County Bridge #79	0.1 mi W of SR 245	Unknown
Wildfire - High	Transportation	County Bridge #80	0.2 mi S of M348	Unknown
Wildfire - High	Transportation	County Bridge #82	1.6 mi E of M465	Unknown
Wildfire - High	Transportation	County Bridge #86	0.1 mi S of Old Stage Rd	Unknown
Wildfire - High	Transportation	Sequoia Ranch Airport	Latitude/Longitude	Unknown
Wildfire - Moderate	Community	Bartlett Park	28801Worth Drive	Unknown
Wildfire - Moderate	Community	Kings River Nature Preserve	2 miles E of Highway 99 On Road 28	Unknown

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

Hazard	Category	Name	Address	Value
Wildfire - Moderate	Community	Lake Kaweah	25 miles E of Visalia On Highway 198	Unknown
Wildfire - Moderate	Transportation	County Bridge #1	1.75 mi N of SR 198	Unknown
Wildfire - Moderate	Transportation	County Bridge #107	3.5 mi NW/O SR 190	Unknown
Wildfire - Moderate	Transportation	County Bridge #137	.18 mi W of R196	Unknown
Wildfire - Moderate	Transportation	County Bridge #143	2.23 mi SE of M120	Unknown
Wildfire - Moderate	Transportation	County Bridge #144	5.11 mi SE/O M120	Unknown
Wildfire - Moderate	Transportation	County Bridge #145	5.86 mi SE of M120	Unknown
Wildfire - Moderate	Transportation	County Bridge #18	2.3 mi N of SR 198	Unknown
Wildfire - Moderate	Transportation	County Bridge #249	3.7 mi N of M296	Unknown
Wildfire - Moderate	Transportation	County Bridge #25	0.7 mi S of Avenue 360	Unknown
Wildfire - Moderate	Transportation	County Bridge #250	0.6 mi S of A116	Unknown
Wildfire - Moderate	Transportation	County Bridge #26	0.8 mi S of Avenue 360	Unknown
Wildfire - Moderate	Transportation	County Bridge #262	8.66 mi N of SR 216	Unknown
Wildfire - Moderate	Transportation	County Bridge #293	0.8 mi W of SR 245	Unknown
Wildfire - Moderate	Transportation	County Bridge #3	1.0 mi N of Avenue 160	Unknown
Wildfire - Moderate	Transportation	County Bridge #32	At SR99 Over Up Rr	Unknown
Wildfire - Moderate	Transportation	County Bridge #325	@ Mtn 296 (Yokohl Drive)	Unknown
Wildfire - Moderate	Transportation	County Bridge #333	0.5 mi W of Rd 180	Unknown
Wildfire - Moderate	Transportation	County Bridge #335	0.2 mi S of Avenue 304	Unknown
Wildfire - Moderate	Transportation	County Bridge #336	0.3 mi N of Sh 198	Unknown
Wildfire - Moderate	Transportation	County Bridge #337	0.3 mi N of SR 198	Unknown
Wildfire - Moderate	Transportation	County Bridge #37	2.05 mi S of Avenue 352	Unknown
Wildfire - Moderate	Transportation	County Bridge #38	1.95 mi S of Avenue 352	Unknown
Wildfire - Moderate	Transportation	County Bridge #44	0.3 mi W of Rd 180	Unknown
Wildfire - Moderate	Transportation	County Bridge #45	0.5 mi W of Rd 180	Unknown



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

Hazard	Category	Name	Address	Value
Wildfire - Moderate	Transportation	County Bridge #51	0.9 mi N of Avenue 104	Unknown
Wildfire - Moderate	Transportation	County Bridge #54	0.3 mi S of SR 190	Unknown
Wildfire - Moderate	Transportation	County Bridge #58	0.7 mi N of M 137	Unknown
Wildfire - Moderate	Transportation	County Bridge #59	0.3 mi S of M120	Unknown
Wildfire - Moderate	Transportation	County Bridge #60	0.5 mi E of R 272	Unknown
Wildfire - Moderate	Transportation	County Bridge #61	4.19 mi E Rd 272	Unknown
Wildfire - Moderate	Transportation	County Bridge #62	1.8 mi S of Avenue 56	Unknown
Wildfire - Moderate	Transportation	County Bridge #67	0.1 mi N of A104	Unknown
Wildfire - Moderate	Transportation	County Bridge #71	0.35 mi N of A108	Unknown
Wildfire - Moderate	Transportation	County Bridge #75	Just S of M296	Unknown
Wildfire - Moderate	Transportation	County Bridge #78	6 mi S of Avenue 56	Unknown
Wildfire - Moderate	Transportation	County Bridge #83	2.7 mi NE of SR 245	Unknown
Wildfire - Moderate	Transportation	County Bridge #93	8 mi SE Fountain Springs	Unknown

\* Freezing - temperatures at freezing or below for more than 30 days per year

\*\* Snowfall - greater than 24 inches of snow per year

\*\*\* Wind Gust - peak wind gusts greater than 50 mph for more than 30 days per year

† Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table G-5. Tulare County, RL Properties**

<b>Occupancy Type</b>	<b>Flood Zone</b>	<b>Losses Hazard</b>
Single Family	AH	2
Single Family	A	2
Single Family	AH	2
Single Family	AH	2
Single Family	A	2
Single Family	A15	3
Non Resident	C	2
Single Family	AH	2

**Table G-6. Tulare 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>
Avalanche (Medium and High Zones)	46	0.0%	26	0%
Earthquake - Moderate Groundshaking	119,933	82.4%	37,469	82%
Earthquake - Light Groundshaking	25,700	17.6%	8,051	18%
Flood - 100 Year Floodplain	17,841	12.3%	5,377	12%
Flood - 500 Year Floodplain	33,975	23.3%	9,925	22%
Flood - Dam Failure, Isabella Dam	5	0.0%	2	0%
Flood - Dam Failure, Pine Flat Dam	2,449	1.7%	900	2%
Flood - Dam Failure, Sand Creek Dam	14,819	10.2%	3,655	8%
Flood - Dam Failure, Success Dam	22,165	15.2%	6,611	15%
Flood - Dam Failure, Terminus Dam	27,968	19.2%	9,184	20%
Fog <sup>+</sup>	134,816	92.6%	40,433	89%
Post-Fire Debris Flow	91	0.1%	48	0%
Severe Winter Storm - Freezing <sup>*</sup>	26,942	18.5%	8,317	18%
Severe Winter Storm - Snowfall <sup>**</sup>	1,347	0.9%	637	1%
Severe Winter Storm - Wind Gust <sup>***</sup>	881	0.6%	386	1%
Volcano - Ash Fall	335	0.2%	154	0%
Wildfire - Very High	2,229	1.5%	1,060	2%
Wildfire - High	5,625	3.9%	2,676	6%
Wildfire - Moderate	5,976	4.1%	2,512	6%

<sup>\*</sup> Freezing - temperatures at freezing or below for more than 30 days per year

<sup>\*\*</sup> Snowfall - greater than 24 inches of snow per year

<sup>\*\*\*</sup> Wind Gust - peak wind gusts greater than 50 mph for more than 30 days per year

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table G-7. Tulare County, Summary of Impacts for Critical Facilities and Infrastructure**

Hazard	No. of Critical Facilities and Infrastructure	% of Critical Facilities and Infrastructure
Earthquake - Moderate Groundshaking	358	81%
Earthquake - Light Groundshaking	83	19%
Flood - 100 Year Floodplain	137	31%
Flood - 500 Year Floodplain	105	24%
Flood - Dam Failure, Pine Flat Dam	5	1%
Flood - Dam Failure, Sand Creek Dam	21	5%
Flood - Dam Failure, Success Dam	33	7%
Flood - Dam Failure, Terminus Dam	111	25%
Fog <sup>+</sup>	377	85%
Post-Fire Debris Flow	8	2%
Severe Winter Storm - Freezing <sup>*</sup>	93	21%
Severe Winter Storm - Snowfall <sup>**</sup>	16	4%
Severe Winter Storm - Wind Gust <sup>***</sup>	9	2%
Volcano - Ash Fall	4	1%
Wildfire - Very High	13	3%
Wildfire - High	36	8%
Wildfire - Moderate	40	10%

<sup>\*</sup> Freezing - temperatures at freezing or below for more than 30 days per year

<sup>\*\*</sup> Snowfall - greater than 24 inches of snow per year

<sup>\*\*\*</sup> Wind Gust - peak wind gusts greater than 50 mph for more than 30 days per year

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table G-8. Tulare County, Human and Technical Resources for Hazard Mitigation**

Staff/Personnel Resources	Department or Agency	Principal Activities Related to Hazard Mitigation
Planner(s), engineer(s) and technical staff with knowledge of land development, land management practices, and human-caused and natural hazards.	Tulare County Resource Management Agency	<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.	Tulare County Resource Management Agency	Oversees the effective, efficient, fair, and safe enforcement of the California Building Code
Engineers, construction project managers, and supporting technical staff.	Tulare County Resource Management Agency	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.	Tulare County Resource Management Agency	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	Tulare County Resource Management Agency	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 plan participant or tribal area.

**Table G-8. Tulare County, Human and Technical Resources for Hazard Mitigation**

Staff/Personnel Resources	Department or Agency	Principal Activities Related to Hazard Mitigation
Emergency Manager	Tulare County Office of Emergency Services (Health & Human Services Agency)	Maintains and updates the Emergency Operations Plan for the plan participant. 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 Department, Tulare County Auditor/s Office	Provides a full range of municipal financial services, administers several licensing measures, and functions as the plan participant’s Procurement Services Manager.

**Table G-9. Tulare County, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Local</b>	General Fund	Tulare County Auditor/Controller/Tax-Collector	Program operations and specific projects.	Variable.
	General Obligation (GO) Bonds	Tulare County Auditor/Controller/Tax-Collector	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	Tulare County Auditor/Controller/Tax-Collector	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 plan participant’s general governmental purposes.	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).

**Table G-9. Tulare County, 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.
	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 G-9. Tulare County, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<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.
	State Homeland Security Grant Program (SHSGP)	FEMA/DHS	Supports the implementation of State Homeland Security Strategies to address the identified planning, organization, equipment, training, and exercise needs to prevent, protect against, respond to, and recover from acts of terrorism and other catastrophic events.	Funding awarded to the State Administrative Agency (Cal EMA for California), based upon minimum amounts as legislatively mandated, DHS risk methodology and effectiveness.

**Table -10. Tulare County, Legal and Regulatory Resources for Hazard Mitigation**

Regulatory Tool	Name	Description (Effect on Hazard Mitigation)	Hazards Addressed	Mitigation, Preparedness, Response, or Recovery	Affects Development in Hazard Areas?
<b>Plans</b>	General Plan 2030: Part I, Goals and Policies Report - Health and Safety Chapter	Describes hazard areas and regulates current and future development based on known hazard areas.	<ul style="list-style-type: none"> <li>▪ Earthquake</li> <li>▪ Hazardous Materials</li> <li>▪ Flooding</li> <li>▪ Fire</li> <li>▪ Landslide</li> </ul>	Mitigation & Preparedness	Yes
	Emergency Operations Plan (2004)	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.	<ul style="list-style-type: none"> <li>▪ Earthquake</li> <li>▪ Extreme Weather Emergencies</li> <li>▪ Flooding</li> <li>▪ Landslide</li> <li>▪ Wildland Fire</li> <li>▪ Dam Failure</li> <li>▪ Hazardous Materials</li> <li>▪ Transportation Emergencies</li> <li>▪ Civil Disturbance</li> <li>▪ Terrorism</li> </ul>	Response	No
	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.	<ul style="list-style-type: none"> <li>▪ Stormwater</li> </ul>	Mitigation & Preparedness	Yes

**Table -10. Tulare County, Legal and Regulatory Resources for Hazard Mitigation**

Regulatory Tool	Name	Description (Effect on Hazard Mitigation)	Hazards Addressed	Mitigation, Preparedness, Response, or Recovery	Affects Development in Hazard Areas?
<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.	<ul style="list-style-type: none"> <li>▪ Earthquake</li> <li>▪ Fire</li> <li>▪ Flooding</li> </ul>	Mitigation, Preparedness, and Response	Yes

**Table G-11. Tulare County, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

Status (Current, Ongoing, or Completed)	Project / Program Name	Description	Year(s)
Current/Ongoing	GIS based pre-application review process for development in hazard areas	A GIS-based pre-application review for new construction and major remodels of residential and/or non-residential structures in hazard areas, such high and/or very high wildfire areas, liquefaction and/or severe shaking (ground acceleration) impact areas, volcano impact areas, and mudslide/landslide prone areas.	Some elements have been implemented (2011)
Current/Ongoing	Tulare County Plan coordination and integration	Integrate the Tulare County HMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	Now being considered in General Plan 2030 Update (2011)
Current/Ongoing	Public Outreach - Flood Insurance	Develop a public outreach program that informs property owners located in the dam or levee inundation areas about voluntary flood insurance.	Part of CRS outreach efforts (2011)
Current	Levee Database	Create a database that accounts for all levees in Tulare County and their condition.	DWR started inventory in 2009
Current/Ongoing	RL Property Mitigation	Acquire, relocate, or elevate residential structures, in particular those that have been identified as RL properties that are located within the 100-year floodplain.	Part of CRS, and CAV programs
Current/Ongoing	Continued Coordination with FEMA Region IX	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.	In progress, CAVs occur every 3 years
Current/Ongoing	Fog Warning	Work with weather forecasting and public safety agencies to provide warning and protective information to residents, travelers, and visitors about severe valley fog conditions.	Continuing annual process

**Table G-11. Tulare 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>
Current	Energy Emergency – Summer heat induced electrical capacity shortfall	Capability to provide health relief to at risk groups and continue economic production through development of local Grid generating capacity from Solar Farms.	In progress (2011)

**Table G-12. Tulare County, 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 of residential and/or non-residential structures in hazard areas, such high and/or very high wildfire areas.	Property Protection	All	New and Existing – Residential and non-residential buildings in hazard areas.
2	Integrate the Tulare County 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	Not applicable.
3	Seismically retrofit or replace public works and/or emergency response facilities that are necessary during and/or immediately after a disaster or emergency.	Property Protection, Structural Project	Earthquake	Existing – Public works and/or emergency response facilities that are structurally deficient or located within a high ground shaking area.
4	Seismically retrofit or replace 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 and/or immediate after a disaster or emergency.	Property Protection, Structural Project	Earthquake	Existing – Ramps and bridges identified by Caltrans as structurally deficient or located within an extreme ground shaking area.
5	Develop a public outreach program that informs property owners located in the dam or levee inundation areas about voluntary flood insurance.	Public Outreach	Flood (Dam and Levee Failure)	Existing – Residential buildings located within dam or levee inundation areas.
6	Create a database that accounts for all levees in Tulare County and their condition.	All	Flood (Levee Failure)	Not applicable.
7	Acquire, relocate, or elevate residential structures, in particular those that have been identified as Repetitive Loss (RL) properties that are located within the 100-year floodplain.	Property Protection	Flood (Riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
8	Acquire, relocate, elevate, and/or floodproof critical facilities that are located within the 100-year floodplain.	Property Protection	Flood (Riverine)	Existing - Critical facilities located within the 100-year floodplain.

**Table G-12. Tulare County, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
9	Reinforce County and local ramps, bridges, and roads from flooding through protection activities, including elevating the road and installing culverts beneath the road or building a higher bridge across the area that experiences regular flooding.	Property Protection, Structural Project	Flood (Riverine)	Existing – County and local ramps, bridges, and roads identified in the 100-year floodplain.
10	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide Digital Flood Insurance Rate Map (DFIRM), Community Assessment Visits, and/or the Department of Water Resources (DWR).	All	Flood (Riverine)	New/Existing -Properties within the 100-year or 500-year floodplain.
11	Increase participation in the National Flood Insurance Program (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	Flood (Riverine)	New/Existing –County and incorporated communities that have RL properties.
12	Continue to work with weather forecasting and public safety agencies to provide warning and protective information to residents, travelers, and visitors about severe valley fog conditions*.	Prevention	Fog	Not applicable.
13	Implement post-fire debris flow hill-slope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-Fire Debris Flow	Existing – Public works facilities.
14	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	Existing – Critical facilities located in areas that experience severe wind.
15	Develop a free annual tree chipping and tree pick-up day that encourages residents living in wind hazard areas to manage trees and shrubs at risk to falling on nearby structures.	Property Protection	Severe Winter Storm	Existing – Residential buildings that experience severe wind.

**Table G-12. Tulare County, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
16	Bolt down the roofs of critical facilities in wind gust hazard areas in order to prevent wind damage.	Property Protection	Severe Winter Storm	Existing – Critical facilities located in areas that experience wind gusts.
17	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 high and very high wildfire zones.	Prevention, Property Protection, Natural Resource Protection	Wildfire	Existing – Critical facilities and residential buildings located within high and very high wildfire zones.
18	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 from around their homes.	Property Protection	Wildfire	Existing – Residential buildings in high or very high wildfire zones.
19	Develop a community wildfire mitigation plan that identifies and prioritizes areas for hazard fuel reduction treatments, and recommend the types of methods of treatments.	Prevention, Property Protection	Wildfires	New/ Existing – Residential and non-residential buildings located within high or very high wildfire areas in the Local Responsibility Areas
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 –Residential and non-residential buildings located within high or very high wildfire areas.



**Table G-12. Tulare County, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
21	Update the Hazardous Material Handler, Hazardous Waste Generator, Risk Management Plan, and Underground Storage Tank themes in the CUPA GIS database. This database would be available to inform current and proposed land use and permitting decisions regarding potential threats to these facilities from earthquakes, floods, wildfires or other natural hazards, and facilitate the determination of appropriate measures to prevent and mitigate releases of hazardous materials and wastes caused by each scenario.	Prevention, Property Protection	All	New and Existing – Non-residential buildings in hazard areas.
22	Develop a Debris Management Plan.	Prevention, Property Protection, Natural Resource Protection	Earthquake, Flood, Severe Winter Storm, Wildfire	New and Existing – Residential and non-residential buildings in hazard areas.
23	Provide cool suits/clothing for County employees required to work in extreme heat locations.*	Prevention	Extreme Heat	Not applicable.
24	Initiate fire fuel modification zone/areas.	Prevention, Property Protection, Natural Resource Protection	Wildfire	New/ Existing –Residential and non-residential buildings located within high or very high wildfire areas.

\* Mitigation action does not meet the 2011 HMA Guidance requirements for FEMA mitigation funding

**Table G-13. Tulare County, Mitigation Action Plan**

No.	Selected (Y/N)	Description	Prioritization Criteria	Facility to be Mitigated (if known)	Department or Agency	Timeframe to be Implemented
2	Y	Integrate the Tulare County HMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	A, B, C, D, E	Not applicable to specific facilities. Tulare County Emergency Operations Plan will be revised to include hazard analysis information to assist emergency management personnel in making informed decisions before, during and after disasters occur.	Tulare County Office of Emergency Services (OES) and Resource Management Agency (RMA) - Planning	1 year - ongoing (Now being considered in General Plan 2030 Update)
3	Y	Seismically retrofit or replace public works and/or emergency response facilities that are necessary during and/or immediately after a disaster or emergency.	A, C, D, E	EOC ops facilities, municipal and county buildings	County RMA CAO, Capital projects, TCFCD, RMA-Building	3 years
4	Y	Seismically retrofit or replace 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 and/or immediate after a disaster or emergency.	C, D, E	Roads and bridges	County RMA - Tulare County Flood Control District (TCFCD) and Roads	3 years - ongoing (Portion of total each year as grant funding match can be allocated. Champion required.)
8	Y	Acquire, relocate, elevate, and/or floodproof critical facilities that are located within the 100-year floodplain.	A, B, C, D	County Buildings in 100 year flood plain Private structures	County RMA - TCFCD	3 years (Implemented as part of CAV response)
9	Y	Reinforce County and local ramps, bridges, and roads from flooding through protection activities, including elevating the road and installing culverts beneath the road or building a higher bridge across the area that experiences regular flooding.	A, B, C, D	County Bridges	County RMA - Roads (Johnny Wong)	3 years (Portion of total each year as grant funding match can be allocated.)

**Table G-13. Tulare County, Mitigation Action Plan**

No.	Selected (Y/N)	Description	Prioritization Criteria	Facility to be Mitigated (if known)	Department or Agency	Timeframe to be Implemented
11	Y	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.	A, B, C, D	Flood impact areas	County RMA	2 years
14	Y	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.	A, B, C, D	Orchards, ornamental landscaping, roadside weed growth within close proximity to County buildings, residences and businesses	County RMA and Tulare County Fire Department (TCFD)	3 years
15	Y	Develop a free annual tree chipping and tree pick-up day that encourages residents living in wind hazard areas to manage trees and shrubs at risk at risk to falling on nearby structures.	B, C, D, E	County Buildings, residences, businesses and the transportation system	County RMA and TCFD	1-3 years (Program would have to be phased in to consistently cover the entire County)
17	Y	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 high and very high wildfire zones.	B, C, D	County Buildings, residences and businesses	County RMA TCFD	1 year
18	Y	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 from around their homes.	B, C, D	County Buildings, residences and businesses	HHSA / County Fire TCRA	1 year

**Table G-13. Tulare County, Mitigation Action Plan**

No.	Selected (Y/N)	Description	Prioritization Criteria	Facility to be Mitigated (if known)	Department or Agency	Timeframe to be Implemented
19	Y	Develop a community wildfire mitigation plan that identifies and prioritizes areas for hazard fuel reduction treatments, and recommend the types of methods of treatments.	B, C, D	County Buildings, residences and businesses	County Fire TCFD	1 year
20	Y	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.	A, B, C, D	All structures	TCFD and RMA - planning & building	1 year (Partial implementation in place)
21	Y	Update the Hazardous Material Handler, Hazardous Waste Generator, Risk Management Plan, and Underground Storage Tank themes in the CUPA GIS database. This database would be available to inform current and proposed land use and permitting decisions regarding potential threats to these facilities from earthquakes, floods, wildfires or other natural hazards, and facilitate the determination of appropriate measures to prevent and mitigate releases of hazardous materials and wastes caused by each scenario.	A, B, C, D, E	Water treatment or storage, wastewater system operations or treatment, flood control operational control systems, local government facilities and structures, commercial business and agricultural facilities and materials,	Tulare County Sheriff, TCFD, RMA, Public Health/ Environmental Division, Irrigation Districts, Community Facilities Districts	1 year - ongoing

**Prioritization Criteria**

- |  |   |
|--|---|
| <p>A. A local jurisdiction department or agency champion currently exists or can be identified</p> <p>B. The action can be implemented during the 5-year lifespan of the HMP</p> | <p>C. The action may reduce expected future damages and losses (cost-benefit)</p> <p>D. The action mitigates a high-risk hazard</p> <p>E. The action mitigates multiple hazards</p> |
|--|---|

**Appendix H**  
**City of Dinuba**

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**Table H-1. City of Dinuba, Total Population and Residential Buildings**

<b>Population</b>	<b>Residential Buildings</b>	<b>Total Residential Building Value(2000)</b>
21,535	5,793	\$ 465,266,000

(Average structural value of residences in Census blocks for the year 2000: \$98,613)

Source: U.S. Census Bureau, 2000, California Department of Finance, 2010

**Table H-2. City of Dinuba, Total Critical Facilities and Infrastructure**

Category	Name	Address	Value
Community	Alice Park	Alice Avenue and W North Way	Unknown
Community	Dinuba Library	150 S. I Street	Unknown
Community	Dinuba Parks and Recreation Center	1390 E. Elizabeth Way	\$185,054
Community	Dinuba Senior Citizen's Ctr	437 Eaton Avenue	Unknown
Community	Dinuba Veteran's Mem. Bldg	249 S. Alta Avenue	Unknown
Community	Dinuba Vocational Center	199 N. L Street	\$5,015,544
Community	Felix Delgado Park	Vassar Avenue and S Green Avenue	Unknown
Community	Gregory Park	S. College Avenue and E Academy Way	Unknown
Community	Jimmy Low /Community Dog Park	3018 Ridge Creek Drive	Unknown
Community	K/C Park	W Kern Street and S Q Street	Unknown
Community	Nebraska Park	E Nebraska Avenue and Marks Dr	Unknown
Community	Ridge Creek Golf Course	3018 W. El Monte Way	\$4,135,447
Community	Roosevelt Park	S. California Street between E. Elizabeth Way and E. Park Way	Unknown
Community	Rose Ann Vuich Park	E. El Monte Way and El Monte Park Streets	Unknown
Emergency Response	Dinuba Fire Administrative Office and Fire Department Water Tower	496 E. Tulare Street	\$182,028
Emergency Response	Dinuba Police Department	680 S. Alta Avenue	\$6,066,590
Government	Dinuba City Hall	405 E. El Monte Way	\$900,000
Government	Dinuba Old Public Works Yd	110 College Avenue	\$33,780
Government	Dinuba Public Works	1088 E. Kamm Avenue	\$1,759,522
Public Works/Utility	Centennial Water Tower	N/E corner Rd 72/Sierra	\$2,564,541
Public Works/Utility	CNG Fueling Station	1088 Kamm Avenue	\$918,072
Public Works/Utility	Dinuba Waste Water Treatment Facility	6675 Avenue 408	\$4,395,563
Public Works/Utility	Nebraska Water Tower	Nebraska / Crawford	\$2,611,605



**Table H-2. City of Dinuba, Total Critical Facilities and Infrastructure**

Category	Name	Address	Value
Public Works/Utility	Pump Station 1218 Golden	1218 Golden Way	\$43,217
Public Works/Utility	Pump Station 245 W Nway	245 W Northway	\$43,217
Public Works/Utility	Pump Station 680 S. Alta	S Alta / 680 S Alta Avenue	\$43,217
Public Works/Utility	Pump Station 889 N Alta	889 N Alta Avenue	\$43,217
Public Works/Utility	Pump Station Alta Avenue	S Alta / W Kern Street	\$43,217
Public Works/Utility	Pump Station Alta/Davis Dr	N Alta / E Davis Dr	\$43,217
Public Works/Utility	Pump Station Arno Street	Arno Street Lindara Tract	\$43,217
Public Works/Utility	Pump Station Crawford/Davis	N Crawford/Davis Dr	\$43,217
Public Works/Utility	Pump Station E Crawford	E Crawford/S Mt. View	\$43,217
Public Works/Utility	Pump Station Kamm Avenue	N Kamm / S Alta	\$43,217
Public Works/Utility	Pump Station Kamm/Alta	E Kamm / S Alta Avenue	\$43,217
Public Works/Utility	Pump Station Lillie/North Way	Lillie/North Way/Peach	\$43,217
Public Works/Utility	Pump Station Marshall/Wright	Marshall / Wright Avenue	\$43,217
Public Works/Utility	Pump Station Merced/N M St	Merced / N M Streets	\$43,217
Public Works/Utility	Pump Station N Ridge/Newton	Northridge/Newton Dr	\$43,217
Public Works/Utility	Pump Station Olive/Randle	E Olive / Randle Avenue	\$43,217
Public Works/Utility	Pump Station Roberts Place	Roberts Place	\$43,217
Public Works/Utility	Pump Station S Alta Avenue	S Alta / E Kern Street	\$43,217
Public Works/Utility	Pump Station S Alta Avenue	S Alta / N M Street	\$43,217
Public Works/Utility	Pump Station W El Monte	W El Monte / Rd 72	\$43,217
Public Works/Utility	Pump Station/Water Well Sierra/Rd 72	W Sierra Way/Rd 72	\$848,941
Public Works/Utility	Sewer Lift Station 651 Saginaw	651 Saginaw Avenue	\$168,020
Public Works/Utility	Sewer Lift Station Crawford	N Crawford/Gerald Avenue	\$168,020
Public Works/Utility	Sewer Lift Station Davis Dr	Davis Dr E of Newton	\$168,020

**Table H-2. City of Dinuba, Total Critical Facilities and Infrastructure**

Category	Name	Address	Value
Public Works/Utility	Sewer Lift Station E El Monte	1725 E. El Monte Way	\$168,020
Public Works/Utility	Sewer Lift Station Edwards Pl	Edwards Pl / N Millard	\$168,020
Public Works/Utility	Sewer Lift Station Kamm Avenue	Kamm / Alta Avenue	\$168,020
Public Works/Utility	Sewer Lift Station Laurel Avenue	Laurel / Crawford Avenue	\$168,020
Public Works/Utility	Sewer Lift Station Randle Avenue	Randle Avenue / E El Monte	\$168,020
Public Works/Utility	Sewer Lift Station S O Street	Kamm / S O Street	\$168,020
Public Works/Utility	Sewer Lift Station Sequoia/Alt	Sequoia Dr N Alta	\$168,020
Public Works/Utility	Water Well 500 W Sierra Way	500 W Sierra Way	\$805,724
Public Works/Utility	Water Well 820 Euclid Avenue	820 Euclid Avenue	\$805,724
Public Works/Utility	Water Well College/S L Street	College / S. L Street	\$805,724
Public Works/Utility	Water Well Kamm/Greene St	Kamm Avenue/Greene St	\$805,724
Public Works/Utility	Water Well Milsap/Magnolia	Milsap N of Magnolia	\$805,724
Public Works/Utility	Water Well Pamela/Lillie	Pamela W Lillie Avenue	\$805,724
Public Works/Utility	Water Well W El Monte/Rd 72	W El Monte /N Road 72	\$805,724

**Table H-3. City of Dinuba, Vulnerable Population and Residential Buildings**

Hazard	Population	Residential buildings	Total Residential Building Value
Earthquake - Moderate Groundshaking	21,535	5,793	\$465,266,000
Flood - 100 Year Floodplain	7,931	2,406	\$204,871,251
Flood - 500 Year Floodplain	10,394	2,656	\$203,940,002
Fog <sup>+</sup>	21,535	5,793	\$465,266,000
Severe Winter Storm - Freezing <sup>*</sup>	20,191	5,519	\$444,715,194

<sup>\*</sup> Freezing - temperatures at freezing or below for more than 30 days per year

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table H-4. City of Dinuba, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Community	Alice Park	Alice Avenue and W North Way	Unknown
Earthquake - Moderate Groundshaking	Community	Dinuba Library	150 S. I Street	Unknown
Earthquake - Moderate Groundshaking	Community	Dinuba Parks and Recreation Center	1390 E. Elizabeth Way	\$185,054.00
Earthquake - Moderate Groundshaking	Community	Dinuba Senior Citizen's Ctr	437 Eaton Avenue	Unknown
Earthquake - Moderate Groundshaking	Community	Dinuba Veteran's Mem. Bldg.	249 S. Alta Avenue	Unknown
Earthquake - Moderate Groundshaking	Community	Dinuba Vocational Center	199 N. L Street	\$5,015,544.00
Earthquake - Moderate Groundshaking	Community	Felix Delgado Park	Vassar Avenue and S Green Avenue	Unknown
Earthquake - Moderate Groundshaking	Community	Gregory Park	S. College Avenue and E Academy Way	Unknown
Earthquake - Moderate Groundshaking	Community	Jimmy Low /Community Dog Park	3018 Ridge Creek Drive	Unknown
Earthquake - Moderate Groundshaking	Community	K/C Park	W Kern Street and S Q Street	Unknown
Earthquake - Moderate Groundshaking	Community	Nebraska Park	E Nebraska Avenue and Marks Drive	Unknown
Earthquake - Moderate Groundshaking	Community	Ridge Creek Golf Course	3018 W. El Monte Way	\$4,135,447.00
Earthquake - Moderate Groundshaking	Community	Roosevelt Park	S. California Street between E. Elizabeth Way and E. Park Way	Unknown
Earthquake - Moderate Groundshaking	Community	Rose Ann Vuich Park	E. El Monte Way and El Monte Park Streets	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Dinuba Fire Administrative Office and Fire Department Water Tower	496 E. Tulare Street	\$182,028.00

**Table H-4. City of Dinuba, Vulnerable Critical Facilities and Infrastructure**

Hazard	Category	Name	Address	Value
Earthquake - Moderate Groundshaking	Emergency Response	Dinuba Police Department	680 S. Alta Avenue	\$6,066,590.00
Earthquake - Moderate Groundshaking	Government	Dinuba City Hall	405 E. El Monte Way	\$900,000.00
Earthquake - Moderate Groundshaking	Government	Dinuba Old Public Works Yd.	110 College Avenue	\$33,780.00
Earthquake - Moderate Groundshaking	Government	Dinuba Public Works	1088 E. Kamm Avenue	\$1,759,522.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Centennial Water Tower	N/E corner Rd 72/Sierra	\$2,564,541.00
Earthquake - Moderate Groundshaking	Public Works/Utility	CNG Fueling Station	1088 Kamm Avenue	\$918,072.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Dinuba Waste Water Treatment Facility	6675 Avenue 408	\$4,395,563.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Nebraska Water Tower	Nebraska / Crawford	\$2,611,605.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Pump Station 1218 Golden	1218 Golden Way	\$43,217.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Pump Station 245 W Nway	245 W Northway	\$43,217.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Pump Station 680 S. Alta	S Alta / 680 S Alta Avenue	\$43,217.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Pump Station 889 N Alta	889 N Alta Avenue	\$43,217.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Pump Station Alta Avenue	S Alta / W Kern Street	\$43,217.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Pump Station Alta/Davis Drive	N Alta / E Davis Drive	\$43,217.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Pump Station Arno Street	Arno Street Lindara Tract	\$43,217.00

**Table H-4. City of Dinuba, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Public Works/Utility	Pump Station Crawford/Davis	N Crawford/Davis Drive	\$43,217.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Pump Station E Crawford	E Crawford/S Mt. View	\$43,217.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Pump Station Kamm Avenue	N Kamm / S Alta	\$43,217.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Pump Station Kamm/Alta	E Kamm / S Alta Avenue	\$43,217.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Pump Station Lillie/North Way	Lillie/North Way/Peach	\$43,217.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Pump Station Marshall/Wright	Marshall / Wright Avenue	\$43,217.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Pump Station Merced/N M St	Merced / N M Streets	\$43,217.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Pump Station N Ridge/Newton	Northridge/Newton Drive	\$43,217.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Pump Station Olive/Randle	E Olive / Randle Avenue	\$43,217.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Pump Station Roberts Place	Roberts Place	\$43,217.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Pump Station S Alta Avenue	S Alta / N M Street	\$43,217.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Pump Station S Alta Avenue	S Alta / E Kern Street	\$43,217.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Pump Station W El Monte	W El Monte / Rd 72	\$43,217.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Pump Station/Water Well Sierra/Rd 72	W Sierra Way/Rd 72	\$848,941.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Sewer Lift Station 651 Saginaw	651 Saginaw Avenue	\$168,020.00

**Table H-4. City of Dinuba, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Public Works/Utility	Sewer Lift Station Crawford	N Crawford/Gerald Avenue	\$168,020.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Sewer Lift Station Davis Drive	Davis Drive E of Newton	\$168,020.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Sewer Lift Station E El Monte	1725 E. El Monte Way	\$168,020.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Sewer Lift Station Edwards Pl	Edwards Pl / N Millard	\$168,020.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Sewer Lift Station Kamm Avenue	Kamm / Alta Avenue	\$168,020.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Sewer Lift Station Laurel Avenue	Laurel / Crawford Avenue	\$168,020.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Sewer Lift Station Randle Avenue	Randle Avenue / E El Monte	\$168,020.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Sewer Lift Station S O Street	Kamm / S O Street	\$168,020.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Sewer Lift Station Sequoia/Alt	Sequoia Drive N Alta	\$168,020.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Water Well 500 W Sierra Way	500 W Sierra Way	\$805,724.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Water Well 820 Euclid Avenue	820 Euclid Avenue	\$805,724.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Water Well College/S L Street	College / S. L Street	\$805,724.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Water Well Kamm/Greene St	Kamm Avenue/Greene St	\$805,724.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Water Well Milsap/Magnolia	Milsap N of Magnolia	\$805,724.00
Earthquake - Moderate Groundshaking	Public Works/Utility	Water Well Pamela/Lillie	Pamela W Lillie Avenue	\$805,724.00

**Table H-4. City of Dinuba, Vulnerable Critical Facilities and Infrastructure**

Hazard	Category	Name	Address	Value
Earthquake - Moderate Groundshaking	Public Works/Utility	Water Well W El Monte/Rd 72	W El Monte /N Road 72	\$805,724.00
Flood - 100 Year Floodplain	Community	Alice Park	Alice Avenue and W North Way	Unknown
Flood - 100 Year Floodplain	Community	Dinuba Library	150 S. I Street	Unknown
Flood - 100 Year Floodplain	Community	Dinuba Parks and Recreation Center	1390 E. Elizabeth Way	\$185,054.00
Flood - 100 Year Floodplain	Community	Dinuba Senior Citizen's Ctr	437 Eaton Avenue	Unknown
Flood - 100 Year Floodplain	Community	Dinuba Veteran's Mem. Bldg.	249 S. Alta Avenue	Unknown
Flood - 100 Year Floodplain	Community	Dinuba Vocational Center	199 N. L Street	\$5,015,544.00
Flood - 100 Year Floodplain	Community	Felix Delgado Park	Vassar Avenue and S Green Avenue	Unknown
Flood - 100 Year Floodplain	Community	Gregory Park	S. College Avenue and E Academy Way	Unknown
Flood - 100 Year Floodplain	Community	Jimmy Low /Community Dog Park	3018 Ridge Creek Drive	Unknown
Flood - 100 Year Floodplain	Community	K/C Park	W Kern Street and S Q Street	Unknown
Flood - 100 Year Floodplain	Community	Nebraska Park	E Nebraska Avenue and Marks Drive	Unknown
Flood - 100 Year Floodplain	Community	Roosevelt Park	S. California Street between E. Elizabeth Way and E. Park Way	Unknown
Flood - 100 Year Floodplain	Community	Rose Ann Vuich Park	E. El Monte Way and El Monte Park Streets	Unknown
Flood - 100 Year Floodplain	Emergency Response	Dinuba Fire Administrative Office and Fire Department Water Tower	496 E. Tulare Street	\$182,028.00
Flood - 100 Year Floodplain	Emergency Response	Dinuba Police Department	680 S. Alta Avenue	\$6,066,590.00
Flood - 100 Year Floodplain	Government	Dinuba City Hall	405 E. El Monte Way	\$900,000.00
Flood - 100 Year Floodplain	Government	Dinuba Old Public Works Yd.	110 College Avenue	\$33,780.00
Flood - 100 Year Floodplain	Public Works/Utility	Nebraska Water Tower	Nebraska / Crawford	\$2,611,605.00



**Table H-4. City of Dinuba, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - 100 Year Floodplain	Public Works/Utility	Pump Station 1218 Golden	1218 Golden Way	\$43,217.00
Flood - 100 Year Floodplain	Public Works/Utility	Pump Station 245 W Nway	245 W Northway	\$43,217.00
Flood - 100 Year Floodplain	Public Works/Utility	Pump Station 680 S. Alta	S Alta / 680 S Alta Avenue	\$43,217.00
Flood - 100 Year Floodplain	Public Works/Utility	Pump Station 889 N Alta	889 N Alta Avenue	\$43,217.00
Flood - 100 Year Floodplain	Public Works/Utility	Pump Station Alta Avenue	S Alta / W Kern Street	\$43,217.00
Flood - 100 Year Floodplain	Public Works/Utility	Pump Station Alta/Davis Drive	N Alta / E Davis Drive	\$43,217.00
Flood - 100 Year Floodplain	Public Works/Utility	Pump Station Arno Street	Arno Street Lindara Tract	\$43,217.00
Flood - 100 Year Floodplain	Public Works/Utility	Pump Station Crawford/Davis	N Crawford/Davis Drive	\$43,217.00
Flood - 100 Year Floodplain	Public Works/Utility	Pump Station E Crawford	E Crawford/S Mt. View	\$43,217.00
Flood - 100 Year Floodplain	Public Works/Utility	Pump Station Kamm Avenue	N Kamm / S Alta	\$43,217.00
Flood - 100 Year Floodplain	Public Works/Utility	Pump Station Kamm/Alta	E Kamm / S Alta Avenue	\$43,217.00
Flood - 100 Year Floodplain	Public Works/Utility	Pump Station Lillie/North Way	Lillie/North Way/Peach	\$43,217.00
Flood - 100 Year Floodplain	Public Works/Utility	Pump Station Merced/N M St	Merced / N M Streets	\$43,217.00
Flood - 100 Year Floodplain	Public Works/Utility	Pump Station N Ridge/Newton	Northridge/Newton Drive	\$43,217.00
Flood - 100 Year Floodplain	Public Works/Utility	Pump Station Roberts Place	Roberts Place	\$43,217.00
Flood - 100 Year Floodplain	Public Works/Utility	Pump Station S Alta Avenue	S Alta / N M Street	\$43,217.00
Flood - 100 Year Floodplain	Public Works/Utility	Pump Station S Alta Avenue	S Alta / E Kern Street	\$43,217.00
Flood - 100 Year Floodplain	Public Works/Utility	Pump Station W El Monte	W El Monte / Rd 72	\$43,217.00
Flood - 100 Year Floodplain	Public Works/Utility	Pump Station/Water Well Sierra/Rd 72	W Sierra Way/Rd 72	\$848,941.00
Flood - 100 Year Floodplain	Public Works/Utility	Sewer Lift Station 651 Saginaw	651 Saginaw Avenue	\$168,020.00
Flood - 100 Year Floodplain	Public Works/Utility	Sewer Lift Station Crawford	N Crawford/Gerald Avenue	\$168,020.00
Flood - 100 Year Floodplain	Public Works/Utility	Sewer Lift Station Davis Drive	Davis Drive E of Newton	\$168,020.00
Flood - 100 Year Floodplain	Public Works/Utility	Sewer Lift Station E El Monte	1725 E. El Monte Way	\$168,020.00

**Table H-4. City of Dinuba, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - 100 Year Floodplain	Public Works/Utility	Sewer Lift Station Edwards Pl	Edwards Pl / N Millard	\$168,020.00
Flood - 100 Year Floodplain	Public Works/Utility	Sewer Lift Station Randle Avenue	Randle Avenue / E El Monte	\$168,020.00
Flood - 100 Year Floodplain	Public Works/Utility	Sewer Lift Station Sequoia/Alt	Sequoia Drive N Alta	\$168,020.00
Flood - 100 Year Floodplain	Public Works/Utility	Water Well 820 Euclid Avenue	820 Euclid Avenue	\$805,724.00
Flood - 100 Year Floodplain	Public Works/Utility	Water Well College/S L Street	College / S. L Street	\$805,724.00
Flood - 100 Year Floodplain	Public Works/Utility	Water Well Kamm/Greene St	Kamm Avenue/Greene St	\$805,724.00
Flood - 100 Year Floodplain	Public Works/Utility	Water Well Milsap/Magnolia	Milsap N of Magnolia	\$805,724.00
Flood - 100 Year Floodplain	Public Works/Utility	Water Well W El Monte/Rd 72	W El Monte /N Road 72	\$805,724.00
Fog <sup>+</sup>	Community	Alice Park	Alice Avenue and W North Way	Unknown
Fog <sup>+</sup>	Community	Dinuba Library	150 S. I Street	Unknown
Fog <sup>+</sup>	Community	Dinuba Parks and Recreation Center	1390 E. Elizabeth Way	\$185,054.00
Fog <sup>+</sup>	Community	Dinuba Senior Citizen's Ctr	437 Eaton Avenue	Unknown
Fog <sup>+</sup>	Community	Dinuba Veteran's Mem. Bldg.	249 S. Alta Avenue	Unknown
Fog <sup>+</sup>	Community	Dinuba Vocational Center	199 N. L Street	\$5,015,544.00
Fog <sup>+</sup>	Community	Felix Delgado Park	Vassar Avenue and S Green Avenue	Unknown
Fog <sup>+</sup>	Community	Gregory Park	S. College Avenue and E Academy Way	Unknown
Fog <sup>+</sup>	Community	Jimmy Low /Community Dog Park	3018 Ridge Creek Drive	Unknown
Fog <sup>+</sup>	Community	K/C Park	W Kern Street and S Q Street	Unknown
Fog <sup>+</sup>	Community	Nebraska Park	E Nebraska Avenue and Marks Drive	Unknown
Fog <sup>+</sup>	Community	Ridge Creek Golf Course	3018 W. El Monte Way	\$4,135,447.00
Fog <sup>+</sup>	Community	Roosevelt Park	S. California Street between E. Elizabeth Way and E. Park Way	Unknown

**Table H-4. City of Dinuba, Vulnerable Critical Facilities and Infrastructure**

Hazard	Category	Name	Address	Value
Fog <sup>+</sup>	Community	Rose Ann Vuich Park	E. El Monte Way and El Monte Park Streets	Unknown
Fog <sup>+</sup>	Emergency Response	Dinuba Fire Administrative Office and Fire Department Water Tower	496 E. Tulare Street	\$182,028.00
Fog <sup>+</sup>	Emergency Response	Dinuba Police Department	680 S. Alta Avenue	\$6,066,590.00
Fog <sup>+</sup>	Government	Dinuba City Hall	405 E. El Monte Way	\$900,000.00
Fog <sup>+</sup>	Government	Dinuba Old Public Works Yd.	110 College Avenue	\$33,780.00
Fog <sup>+</sup>	Government	Dinuba Public Works	1088 E. Kamm Avenue	\$1,759,522.00
Fog <sup>+</sup>	Public Works/Utility	Centennial Water Tower	N/E corner Rd 72/Sierra	\$2,564,541.00
Fog <sup>+</sup>	Public Works/Utility	CNG Fueling Station	1088 Kamm Avenue	\$918,072.00
Fog <sup>+</sup>	Public Works/Utility	Dinuba Waste Water Treatment Facility	6675 Avenue 408	\$4,395,563.00
Fog <sup>+</sup>	Public Works/Utility	Nebraska Water Tower	Nebraska / Crawford	\$2,611,605.00
Fog <sup>+</sup>	Public Works/Utility	Pump Station 1218 Golden	1218 Golden Way	\$43,217.00
Fog <sup>+</sup>	Public Works/Utility	Pump Station 245 W Nway	245 W Northway	\$43,217.00
Fog <sup>+</sup>	Public Works/Utility	Pump Station 680 S. Alta	S Alta / 680 S Alta Avenue	\$43,217.00
Fog <sup>+</sup>	Public Works/Utility	Pump Station 889 N Alta	889 N Alta Avenue	\$43,217.00
Fog <sup>+</sup>	Public Works/Utility	Pump Station Alta Avenue	S Alta / W Kern Street	\$43,217.00
Fog <sup>+</sup>	Public Works/Utility	Pump Station Alta/Davis Drive	N Alta / E Davis Drive	\$43,217.00
Fog <sup>+</sup>	Public Works/Utility	Pump Station Arno Street	Arno Street Lindara Tract	\$43,217.00
Fog <sup>+</sup>	Public Works/Utility	Pump Station Crawford/Davis	N Crawford/Davis Drive	\$43,217.00
Fog <sup>+</sup>	Public Works/Utility	Pump Station E Crawford	E Crawford/S Mt. View	\$43,217.00
Fog <sup>+</sup>	Public Works/Utility	Pump Station Kamm Avenue	N Kamm / S Alta	\$43,217.00
Fog <sup>+</sup>	Public Works/Utility	Pump Station Kamm/Alta	E Kamm / S Alta Avenue	\$43,217.00
Fog <sup>+</sup>	Public Works/Utility	Pump Station Lillie/North Way	Lillie/North Way/Peach	\$43,217.00

**Table H-4. City of Dinuba, Vulnerable Critical Facilities and Infrastructure**

Hazard	Category	Name	Address	Value
Fog <sup>+</sup>	Public Works/Utility	Pump Station Marshall/Wright	Marshall / Wright Avenue	\$43,217.00
Fog <sup>+</sup>	Public Works/Utility	Pump Station Merced/N M St	Merced / N M Streets	\$43,217.00
Fog <sup>+</sup>	Public Works/Utility	Pump Station/Newton	Northridge/Newton Drive	\$43,217.00
Fog <sup>+</sup>	Public Works/Utility	Pump Station Olive/Randle	E Olive / Randle Avenue	\$43,217.00
Fog <sup>+</sup>	Public Works/Utility	Pump Station Roberts Place	Roberts Place	\$43,217.00
Fog <sup>+</sup>	Public Works/Utility	Pump Station S Alta Avenue	S Alta / N M Street	\$43,217.00
Fog <sup>+</sup>	Public Works/Utility	Pump Station S Alta Avenue	S Alta / E Kern Street	\$43,217.00
Fog <sup>+</sup>	Public Works/Utility	Pump Station W El Monte	W El Monte / Rd 72	\$43,217.00
Fog <sup>+</sup>	Public Works/Utility	Pump Station/Water Well Sierra/Rd 72	W Sierra Way/Rd 72	\$848,941.00
Fog <sup>+</sup>	Public Works/Utility	Sewer Lift Station 651 Saginaw	651 Saginaw Avenue	\$168,020.00
Fog <sup>+</sup>	Public Works/Utility	Sewer Lift Station Crawford	N Crawford/Gerald Avenue	\$168,020.00
Fog <sup>+</sup>	Public Works/Utility	Sewer Lift Station Davis Drive	Davis Drive E of Newton	\$168,020.00
Fog <sup>+</sup>	Public Works/Utility	Sewer Lift Station E El Monte	1725 E. El Monte Way	\$168,020.00
Fog <sup>+</sup>	Public Works/Utility	Sewer Lift Station Edwards Pl	Edwards Pl / N Millard	\$168,020.00
Fog <sup>+</sup>	Public Works/Utility	Sewer Lift Station Kamm Avenue	Kamm / Alta Avenue	\$168,020.00
Fog <sup>+</sup>	Public Works/Utility	Sewer Lift Station Laurel Avenue	Laurel / Crawford Avenue	\$168,020.00
Fog <sup>+</sup>	Public Works/Utility	Sewer Lift Station Randle Avenue	Randle Avenue / E El Monte	\$168,020.00
Fog <sup>+</sup>	Public Works/Utility	Sewer Lift Station S O Street	Kamm / S O Street	\$168,020.00
Fog <sup>+</sup>	Public Works/Utility	Sewer Lift Station Sequoia/Alt	Sequoia Drive N Alta	\$168,020.00
Fog <sup>+</sup>	Public Works/Utility	Water Well 500 W Sierra Way	500 W Sierra Way	\$805,724.00
Fog <sup>+</sup>	Public Works/Utility	Water Well 820 Euclid Avenue	820 Euclid Avenue	\$805,724.00
Fog <sup>+</sup>	Public Works/Utility	Water Well College/S L Street	College / S. L Street	\$805,724.00
Fog <sup>+</sup>	Public Works/Utility	Water Well Kamm/Greene St	Kamm Avenue/Greene St	\$805,724.00

**Table H-4. City of Dinuba, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Fog <sup>+</sup>	Public Works/Utility	Water Well Milsap/Magnolia	Milsap N of Magnolia	\$805,724.00
Fog <sup>+</sup>	Public Works/Utility	Water Well Pamela/Lillie	Pamela W Lillie Avenue	\$805,724.00
Fog <sup>+</sup>	Public Works/Utility	Water Well W El Monte/Rd 72	W El Monte /N Road 72	\$805,724.00
Severe Winter Storm - Freezing*	Community	Alice Park	Alice Avenue and W North Way	Unknown
Severe Winter Storm - Freezing*	Community	Dinuba Library	150 S. I Street	Unknown
Severe Winter Storm - Freezing*	Community	Dinuba Parks and Recreation Center	1390 E. Elizabeth Way	\$185,054.00
Severe Winter Storm - Freezing*	Community	Dinuba Senior Citizen's Ctr	437 Eaton Avenue	Unknown
Severe Winter Storm - Freezing*	Community	Dinuba Veteran's Mem. Bldg.	249 S. Alta Avenue	Unknown
Severe Winter Storm - Freezing*	Community	Dinuba Vocational Center	199 N. L Street	\$5,015,544.00
Severe Winter Storm - Freezing*	Community	Felix Delgado Park	Vassar Avenue and S Green Avenue	Unknown
Severe Winter Storm - Freezing*	Community	Gregory Park	S. College Avenue and E Academy Way	Unknown
Severe Winter Storm - Freezing*	Community	Jimmy Low /Community Dog Park	3018 Ridge Creek Drive	Unknown
Severe Winter Storm - Freezing*	Community	K/C Park	W Kern Street and S Q Street	Unknown
Severe Winter Storm - Freezing*	Community	Nebraska Park	E Nebraska Avenue and Marks Drive	Unknown
Severe Winter Storm - Freezing*	Community	Ridge Creek Golf Course	3018 W. El Monte Way	\$4,135,447.00
Severe Winter Storm - Freezing*	Community	Roosevelt Park	S. California Street between E. Elizabeth Way and E. Park Way	Unknown
Severe Winter Storm - Freezing*	Community	Rose Ann Vuich Park	E. El Monte Way and El Monte Park Streets	Unknown
Severe Winter Storm - Freezing*	Emergency Response	Dinuba Fire Administrative Office and Fire Department Water Tower	496 E. Tulare Street	\$182,028.00
Severe Winter Storm - Freezing*	Emergency Response	Dinuba Police Department	680 S. Alta Avenue	\$6,066,590.00
Severe Winter Storm - Freezing*	Government	Dinuba City Hall	405 E. El Monte Way	\$900,000.00

**Table H-4. City of Dinuba, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freezing*	Government	Dinuba Old Public Works Yd.	110 College Avenue	\$33,780.00
Severe Winter Storm - Freezing*	Government	Dinuba Public Works	1088 E. Kamm Avenue	\$1,759,522.00
Severe Winter Storm - Freezing*	Public Works/Utility	Centennial Water Tower	N/E corner Rd 72/Sierra	\$2,564,541.00
Severe Winter Storm - Freezing*	Public Works/Utility	CNG Fueling Station	1088 Kamm Avenue	\$918,072.00
Severe Winter Storm - Freezing*	Public Works/Utility	Nebraska Water Tower	Nebraska / Crawford	\$2,611,605.00
Severe Winter Storm - Freezing*	Public Works/Utility	Pump Station 1218 Golden	1218 Golden Way	\$43,217.00
Severe Winter Storm - Freezing*	Public Works/Utility	Pump Station 245 W Nway	245 W Northway	\$43,217.00
Severe Winter Storm - Freezing*	Public Works/Utility	Pump Station 680 S. Alta	S Alta / 680 S Alta Avenue	\$43,217.00
Severe Winter Storm - Freezing*	Public Works/Utility	Pump Station 889 N Alta	889 N Alta Avenue	\$43,217.00
Severe Winter Storm - Freezing*	Public Works/Utility	Pump Station Alta Avenue	S Alta / W Kern Street	\$43,217.00
Severe Winter Storm - Freezing*	Public Works/Utility	Pump Station Alta/Davis Drive	N Alta / E Davis Drive	\$43,217.00
Severe Winter Storm - Freezing*	Public Works/Utility	Pump Station Arno Street	Arno Street Lindara Tract	\$43,217.00
Severe Winter Storm - Freezing*	Public Works/Utility	Pump Station Crawford/Davis	N Crawford/Davis Drive	\$43,217.00
Severe Winter Storm - Freezing*	Public Works/Utility	Pump Station E Crawford	E Crawford/S Mt. View	\$43,217.00
Severe Winter Storm - Freezing*	Public Works/Utility	Pump Station Kamm Avenue	N Kamm / S Alta	\$43,217.00
Severe Winter Storm - Freezing*	Public Works/Utility	Pump Station Kamm/Alta	E Kamm / S Alta Avenue	\$43,217.00
Severe Winter Storm - Freezing*	Public Works/Utility	Pump Station Lillie/North Way	Lillie/North Way/Peach	\$43,217.00
Severe Winter Storm - Freezing*	Public Works/Utility	Pump Station Merced/N M St	Merced / N M Streets	\$43,217.00
Severe Winter Storm - Freezing*	Public Works/Utility	Pump Station/Newton	Northridge/Newton Drive	\$43,217.00
Severe Winter Storm - Freezing*	Public Works/Utility	Pump Station Olive/Randle	E Olive / Randle Avenue	\$43,217.00
Severe Winter Storm - Freezing*	Public Works/Utility	Pump Station Roberts Place	Roberts Place	\$43,217.00
Severe Winter Storm - Freezing*	Public Works/Utility	Pump Station S Alta Avenue	S Alta / N M Street	\$43,217.00
Severe Winter Storm - Freezing*	Public Works/Utility	Pump Station S Alta Avenue	S Alta / E Kern Street	\$43,217.00
Severe Winter Storm - Freezing*	Public Works/Utility	Pump Station W El Monte	W El Monte / Rd 72	\$43,217.00

**Table H-4. City of Dinuba, Vulnerable Critical Facilities and Infrastructure**

Hazard	Category	Name	Address	Value
Severe Winter Storm - Freezing*	Public Works/Utility	Pump Station/Water Well Sierra/Rd 72	W Sierra Way/Rd 72	\$848,941.00
Severe Winter Storm - Freezing*	Public Works/Utility	Sewer Lift Station 651 Saginaw	651 Saginaw Avenue	\$168,020.00
Severe Winter Storm - Freezing*	Public Works/Utility	Sewer Lift Station Crawford	N Crawford/Gerald Avenue	\$168,020.00
Severe Winter Storm - Freezing*	Public Works/Utility	Sewer Lift Station Davis Drive	Davis Drive E of Newton	\$168,020.00
Severe Winter Storm - Freezing*	Public Works/Utility	Sewer Lift Station E El Monte	1725 E. El Monte Way	\$168,020.00
Severe Winter Storm - Freezing*	Public Works/Utility	Sewer Lift Station Edwards Pl	Edwards Pl / N Millard	\$168,020.00
Severe Winter Storm - Freezing*	Public Works/Utility	Sewer Lift Station Randle Avenue	Randle Avenue / E El Monte	\$168,020.00
Severe Winter Storm - Freezing*	Public Works/Utility	Sewer Lift Station Sequoia/Alt	Sequoia Drive N Alta	\$168,020.00
Severe Winter Storm - Freezing*	Public Works/Utility	Water Well 500 W Sierra Way	500 W Sierra Way	\$805,724.00
Severe Winter Storm - Freezing*	Public Works/Utility	Water Well 820 Euclid Avenue	820 Euclid Avenue	\$805,724.00
Severe Winter Storm - Freezing*	Public Works/Utility	Water Well College/S L Street	College / S. L Street	\$805,724.00
Severe Winter Storm - Freezing*	Public Works/Utility	Water Well Kamm/Greene St	Kamm Avenue/Greene St	\$805,724.00
Severe Winter Storm - Freezing*	Public Works/Utility	Water Well Milsap/Magnolia	Milsap N of Magnolia	\$805,724.00
Severe Winter Storm - Freezing*	Public Works/Utility	Water Well Pamela/Lillie	Pamela W Lillie Avenue	\$805,724.00
Severe Winter Storm - Freezing*	Public Works/Utility	Water Well W El Monte/Rd 72	W El Monte /N Road 72	\$805,724.00

\* Freezing - temperatures at freezing or below for more than 30 days per year

† Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table H-5. City of Dinuba, Summary of Impacts for Population and Residential Buildings**

Hazard	Population	% of Population	No. of Residential Buildings	% of Residential Buildings
Earthquake - Moderate Groundshaking	21,535	100%	5,793	100%
Flood - 100 Year Floodplain	7,931	37%	2,406	42%
Flood - 500 Year Floodplain	10,394	48%	2,656	46%
Fog <sup>+</sup>	21,535	100%	5,793	100%
Severe Winter Storm - Freezing <sup>*</sup>	20,191	94%	5,519	95%

<sup>\*</sup> Freezing - temperatures at freezing or below for more than 30 days per year

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.



**Table H-6. City of Dinuba, Summary of Impacts for Critical Facilities and Infrastructure**

Hazard	No. of Critical Facilities and Infrastructure	% of Critical Facilities and Infrastructure
Earthquake - Moderate Groundshaking	61	100%
Flood - 100 Year Floodplain	36	59%
Flood - 500 Year Floodplain	13	21%
Fog <sup>+</sup>	61	100%
Severe Winter Storm - Freezing <sup>*</sup>	56	92%

<sup>\*</sup> Freezing - temperatures at freezing or below for more than 30 days per year

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table H-7. City of Dinuba, Human and Technical Resources for Hazard Mitigation**

Staff/Personnel Resources	Department or Agency	Principal Activities Related to Hazard Mitigation
Planner(s), engineer(s) and technical staff with knowledge of land development, land management practices, and human-caused and natural hazards.	City of Dinuba Engineering Services Dept.	<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.	City of Dinuba Development Services Dept.	Oversees the effective, efficient, fair, and safe enforcement of the California Building Code
Engineers, construction project managers, and supporting technical staff.	City of Dinuba Development Services Dept	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.	City of Dinuba Public Works Dept	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	City of Dinuba Fire Department	Maintains and updates the Emergency Operations Plan for the plan participant. 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 H-7. City of Dinuba, 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>
Procurement Services Manager	City Of Dinuba Financial Services Department	Provides a full range of municipal financial services, administers several licensing measures, and functions as the plan participant's Procurement Services Manager.

**Table H-8. City of Dinuba, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Local</b>	General Fund	Financial Services Department	Program operations and specific projects.	Variable.
	General Obligation (GO) Bonds	Financial Services 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	Financial Services 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	Financial Services Department	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 H-8. City of Dinuba, 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 H-8. City of Dinuba, 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 H-9. City of Dinuba, Legal and Regulatory Resources for Hazard Mitigation**

Regulatory Tool	Name	Description (Effect on Hazard Mitigation)	Hazards Addressed	Mitigation, Preparedness, Response, or Recovery	Affects Development in Hazard Areas?
<b>Plans</b>	General Plan: Safety Element (2007)	Describes hazard areas and regulates current and future development based on known hazard areas.	<ul style="list-style-type: none"> <li>▪ Earthquake</li> <li>▪ Fire</li> <li>▪ Flooding</li> <li>▪ Dam Failure</li> <li>▪ Civil Disturbance</li> </ul>	Mitigation & Preparedness	Yes
	Emergency Operations Plan (2003)	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.	<ul style="list-style-type: none"> <li>▪ Earthquake</li> <li>▪ Flooding</li> <li>▪ Dam Failure</li> <li>▪ Extreme Weather</li> <li>▪ Hazardous Materials</li> <li>▪ Transportation Emergencies</li> <li>▪ Civil Disturbance</li> <li>▪ Terrorism</li> <li>▪ WMD</li> </ul>	Response	No
<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.	<ul style="list-style-type: none"> <li>▪ Earthquake</li> <li>▪ Fire</li> <li>▪ Flooding</li> </ul>	Mitigation, Preparedness, and Response	Yes

**Table H-10. City of Dinuba, 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>
None	Not Applicable	Not Applicable	Not Applicable



**Table H-11. City of Dinuba, 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 of residential and/or non-residential structures in hazard areas, such high and/or very high wildfire areas.	Property Protection	All	New and Existing – Residential and non-residential buildings in hazard areas.
2	Integrate the Tulare County 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	Not applicable.
3	Seismically retrofit or replace public works and/or emergency response facilities that are necessary during and/or immediately after a disaster or emergency.	Property Protection, Structural Project	Earthquake	Existing – Public works and/or emergency response facilities that are structurally deficient or located within a high ground shaking area.
4	Seismically retrofit or replace 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 and/or immediate after a disaster or emergency.	Property Protection, Structural Project	Earthquake	Existing – Ramps and bridges identified by Caltrans as structurally deficient or located within an extreme ground shaking area.
5	Develop a public outreach program that informs property owners located in the dam or levee inundation areas about voluntary flood insurance.	Public Outreach	Flood (Dam and Levee Failure)	Existing – Residential buildings located within dam or levee inundation areas.
6	Create a database that accounts for all levees in Tulare County and their condition.	All	Flood (Levee Failure)	Not applicable.
7	Acquire, relocate, or elevate residential structures, in particular those that have been identified as Repetitive Loss (RL) properties that are located within the 100-year floodplain.	Property Protection	Flood (Riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
8	Acquire, relocate, elevate, and/or floodproof critical facilities that are located within the 100-year floodplain.	Property Protection	Flood (Riverine)	Existing - Critical facilities located within the 100-year floodplain.

**Table H-11. City of Dinuba, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
9	Reinforce County and local ramps, bridges, and roads from flooding through protection activities, including elevating the road and installing culverts beneath the road or building a higher bridge across the area that experiences regular flooding.	Property Protection, Structural Project	Flood (Riverine)	Existing – County and local ramps, bridges, and roads identified in the 100-year floodplain.
10	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide Digital Flood Insurance Rate Map (DFIRM), Community Assessment Visits, and/or the Department of Water Resources (DWR).	All	Flood (Riverine)	New/Existing -Properties within the 100-year or 500-year floodplain.
11	Increase participation in the National Flood Insurance Program (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	Flood (Riverine)	New/Existing –County and incorporated communities that have RL properties.
12	Continue to work with weather forecasting and public safety agencies to provide warning and protective information to residents, travelers, and visitors about severe valley fog conditions*.	Prevention	Fog	Not applicable.
13	Implement post-fire debris flow hill-slope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-Fire Debris Flow	Existing – Public works facilities.
14	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	Existing – Critical facilities located in areas that experience severe wind.
15	Develop a free annual tree chipping and tree pick-up day that encourages residents living in wind hazard areas to manage trees and shrubs at risk to falling on nearby structures.	Property Protection	Severe Winter Storm	Existing – Residential buildings that experience severe wind.

**Table H-11. City of Dinuba, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
16	Bolt down the roofs of critical facilities in wind gust hazard areas in order to prevent wind damage.	Property Protection	Severe Winter Storm	Existing – Critical facilities located in areas that experience wind gusts.
17	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 high and very high wildfire zones.	Prevention, Property Protection, Natural Resource Protection	Wildfire	Existing – Critical facilities and residential buildings located within high and very high wildfire zones.
18	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 from around their homes.	Property Protection	Wildfire	Existing – Residential buildings in high or very high wildfire zones.
19	Develop a community wildfire mitigation plan that identifies and prioritizes areas for hazard fuel reduction treatments, and recommend the types of methods of treatments.	Prevention, Property Protection	Wildfires	New/ Existing – Residential and non-residential buildings located within high or very high wildfire areas in the Local Responsibility Areas
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 – Residential and non-residential buildings located within high or very high wildfire areas.

\* Mitigation action does not meet the 2011 HMA Guidance requirements for FEMA mitigation funding

**Table H-12. City of Dinuba, Mitigation Action Plan**

No.	Selected (Y/N)	Description	Prioritization Criteria	Facility to be Mitigated (if known)	Department or Agency	Timeframe to be Implemented
2	Y	Integrate the Tulare County HMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	A, B, C, D, E	Not Applicable	City of Dinuba Development Services Dept.	1 year - ongoing
3	Y	Seismically retrofit or replace public works and/or emergency response facilities that are necessary during and/or immediately after a disaster or emergency.	A, B, C	Unknown	City of Dinuba Development Services Dept.	3 years
8	Y	Acquire, relocate, elevate, and/or floodproof critical facilities that are located within the 100-year floodplain.	A, B, C, D	Unknown	City of Dinuba Development Services Dept.	3 years

**Prioritization Criteria**

- |  |   |
|--|---|
| <p>A. A local jurisdiction department or agency champion currently exists or can be identified</p> <p>B. The action can be implemented during the 5-year lifespan of the HMP</p> | <p>C. The action may reduce expected future damages and losses (cost-benefit)</p> <p>D. The action mitigates a high-risk hazard</p> <p>E. The action mitigates multiple hazards</p> |
|--|---|

**Appendix I**  
**City of Exeter**

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**Table I-1. City of Exeter, Total Population and Residential Buildings**

<b>Population</b>	<b>Residential Buildings</b>	<b>Total Residential Building Value(2000)</b>
10,796	3,628	\$300,839,100

(Average structural value of residences in Census blocks for the year 2000: \$99,072)  
Source: U.S. Census Bureau, 2000, California Department of Finance, 2010

**Table I-2. City of Exeter, Total Critical Facilities and Infrastructure**

Category	Name	Address	Value
Community	Brickhouse Park	Palm & Filbert	Unknown
Community	City Park	Chestnut & E Street	Unknown
Community	Dobson Field	Rocky Hill Drive and 2nd Street	Unknown
Community	Joyner Park	Pine & C Street	Unknown
Community	Planter Park	Maple & B Street	Unknown
Community	Public Golf Course	510 W. Visalia Road	Unknown
Community	Rose Garden Park	Palm & A Street	Unknown
Community	Schelling Park	Pine & Filbert	Unknown
Community	Scroth Park	Vine & Belmont	Unknown
Community	Unger Park	Belmont & Glaze	Unknown
Community	Water Tower Park	Pine & B Street	Unknown
Emergency Response	Exeter Police Department	100 N. C Street	Unknown
Government	Exeter City Hall	137 North F Street	Unknown
Government	Recreation and Public Works / Utility	350 W. Firebaugh Avenue	Unknown
Public Works/Utility	Wastewater Treatment Plant	1906 W. Myer	Unknown
Public Works/Utility	A & W Lift Station	Kaweah Avenue and Sequoia Drive	Unknown
Public Works/Utility	Filbert Lift Station	Filbert Road and King Street	Unknown
Public Works/Utility	Industrial Lift Station	Firebaugh Road and Industrial Drive	Unknown
Public Works/Utility	Kaweah Trailer Park Lift Station	Kaweah Avenue south of Firebaugh Avenue	Unknown
Public Works/Utility	Lenox Lift Station	Lenox Avenue and Bryant Court	Unknown
Public Works/Utility	Quince Lift Station	Alley between Willow Street, Vine Street, Orange Avenue, and Quince Avenue	Unknown
Public Works/Utility	Rancho Lift Station	On Albert Avenue north of Visalia Road	Unknown
Public Works/Utility	Rocky Hill Lift Station	Sequoia Drive between D Street and B Street	Unknown
Public Works/Utility	Visalia Road Lift Station	Visalia Road and Belmont Road	Unknown



**Table I-2. City of Exeter, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Transportation	Exeter Airport	Belmont Road	Unknown

**Table I-3. City of Exeter, Vulnerable Population and Residential Buildings**

Hazard	Population	Residential buildings	Total Residential Building Value
Earthquake - Moderate Groundshaking	10,796	3,628	\$300,839,101
Flood - 500 Year Floodplain	10,739	3,611	\$299,267,725
Flood - Dam Failure, Terminus Dam	10	2	\$198,800
Fog <sup>+</sup>	10,796	3,628	\$300,839,100

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table I-4. City of Exeter, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Community	Brickhouse Park	Palm & Filbert	Unknown
Earthquake - Moderate Groundshaking	Community	City Park	Chestnut & E Street	Unknown
Earthquake - Moderate Groundshaking	Community	Dobson Field	Rocky Hill Drive and 2nd Street	Unknown
Earthquake - Moderate Groundshaking	Community	Joyner Park	Pine & C Street	Unknown
Earthquake - Moderate Groundshaking	Community	Planter Park	Maple & B Street	Unknown
Earthquake - Moderate Groundshaking	Community	Public Golf Course	510 W. Visalia Road	Unknown
Earthquake - Moderate Groundshaking	Community	Rose Garden Park	Palm & A Street	Unknown
Earthquake - Moderate Groundshaking	Community	Schelling Park	Pine & Filbert	Unknown
Earthquake - Moderate Groundshaking	Community	Scroth Park	Vine & Belmont	Unknown
Earthquake - Moderate Groundshaking	Community	Unger Park	Belmont & Glaze	Unknown
Earthquake - Moderate Groundshaking	Community	Water Tower Park	Pine & B Street	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Exeter Police Department	100 N. C Street	Unknown
Earthquake - Moderate Groundshaking	Government	Exeter City Hall	137 North F Street	Unknown
Earthquake - Moderate Groundshaking	Government	Recreation and Public Works / Utility	350 W. Firebaugh Avenue	Unknown
Earthquake - Moderate Groundshaking	Public Works / Utility	Wastewater Treatment Plant	1906 W. Myer	Unknown

**Table I-4. City of Exeter, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Public Works/Utility	A & W Lift Station	Kaweah Avenue and Sequoia Drive	Unknown
Earthquake - Moderate Groundshaking	Public Works/Utility	Filbert Lift Station	Filbert Road and King Street	Unknown
Earthquake - Moderate Groundshaking	Public Works/Utility	Industrial Lift Station	Firebaugh Road and Industrial Drive	Unknown
Earthquake - Moderate Groundshaking	Public Works/Utility	Kaweah Trailer Park Lift Station	Kaweah Avenue south of Firebaugh Avenue	Unknown
Earthquake - Moderate Groundshaking	Public Works/Utility	Lenox Lift Station	Lenox Avenue and Bryant Court	Unknown
Earthquake - Moderate Groundshaking	Public Works/Utility	Quince Lift Station	Alley between Willow Street, Vine Street, Orange Avenue, and Quince Avenue	Unknown
Earthquake - Moderate Groundshaking	Public Works/Utility	Rancho Lift Station	On Albert Avenue north of Visalia Road	Unknown
Earthquake - Moderate Groundshaking	Public Works/Utility	Rocky Hill Lift Station	Sequoia Drive between D Street and B Street	Unknown
Earthquake - Moderate Groundshaking	Public Works/Utility	Visalia Road Lift Station	Visalia Road and Belmont Road	Unknown
Earthquake - Moderate Groundshaking	Transportation	Exeter Airport	Belmont Road	Unknown
Flood - 500 Year Floodplain	Community	Brickhouse Park	Palm & Filbert	Unknown
Flood - 500 Year Floodplain	Community	City Park	Chestnut & E Street	Unknown
Flood - 500 Year Floodplain	Community	Dobson Field	Rocky Hill Drive and 2nd Street	Unknown
Flood - 500 Year Floodplain	Community	Joyner Park	Pine & C Street	Unknown
Flood - 500 Year Floodplain	Community	Planter Park	Maple & B Street	Unknown
Flood - 500 Year Floodplain	Community	Public Golf Course	510 W. Visalia Road	Unknown
Flood - 500 Year Floodplain	Community	Rose Garden Park	Palm & A Street	Unknown
Flood - 500 Year Floodplain	Community	Schelling Park	Pine & Filbert	Unknown

**Table I-4. City of Exeter, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - 500 Year Floodplain	Community	Scroth Park	Vine & Belmont	Unknown
Flood - 500 Year Floodplain	Community	Unger Park	Belmont & Glaze	Unknown
Flood - 500 Year Floodplain	Community	Water Tower Park	Pine & B Street	Unknown
Flood - 500 Year Floodplain	Emergency Response	Exeter Police Department	100 N. C Street	Unknown
Flood - 500 Year Floodplain	Government	Exeter City Hall	137 North F Street	Unknown
Flood - 500 Year Floodplain	Government	Recreation and Public Works / Utility	350 W. Firebaugh Avenue	Unknown
Flood - 500 Year Floodplain	Public Works / Utility	Wastewater Treatment Plant	1906 W. Myer	Unknown
Flood - 500 Year Floodplain	Public Works/Utility	A & W Lift Station	Kaweah Avenue and Sequoia Drive	Unknown
Flood - 500 Year Floodplain	Public Works/Utility	Filbert Lift Station	Filbert Road and King Street	Unknown
Flood - 500 Year Floodplain	Public Works/Utility	Industrial Lift Station	Firebaugh Road and Industrial Drive	Unknown
Flood - 500 Year Floodplain	Public Works/Utility	Kaweah Trailer Park Lift Station	Kaweah Avenue south of Firebaugh Avenue	Unknown
Flood - 500 Year Floodplain	Public Works/Utility	Lenox Lift Station	Lenox Avenue and Bryant Court	Unknown
Flood - 500 Year Floodplain	Public Works/Utility	Quince Lift Station	Alley between Willow Street, Vine Street, Orange Avenue, and Quince Avenue	Unknown
Flood - 500 Year Floodplain	Public Works/Utility	Rancho Lift Station	On Albert Avenue north of Visalia Road	Unknown
Flood - 500 Year Floodplain	Public Works/Utility	Rocky Hill Lift Station	Sequoia Drive between D Street and B Street	Unknown
Flood - 500 Year Floodplain	Public Works/Utility	Visalia Road Lift Station	Visalia Road and Belmont Road	Unknown
Flood - 500 Year Floodplain	Transportation	Exeter Airport	Belmont Road	Unknown
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Rancho Lift Station	On Albert Avenue north of Visalia Road	Unknown

**Table I-4. City of Exeter, Vulnerable Critical Facilities and Infrastructure**

Hazard	Category	Name	Address	Value
Flood - Dam Failure, Terminus Dam	Transportation	Exeter Airport	Belmont Road	Unknown
Fog <sup>+</sup>	Community	Brickhouse Park	Palm & Filbert	Unknown
Fog <sup>+</sup>	Community	City Park	Chestnut & E Street	Unknown
Fog <sup>+</sup>	Community	Dobson Field	Rocky Hill Drive and 2nd Street	Unknown
Fog <sup>+</sup>	Community	Joyner Park	Pine & C Street	Unknown
Fog <sup>+</sup>	Community	Planter Park	Maple & B Street	Unknown
Fog <sup>+</sup>	Community	Public Golf Course	510 W. Visalia Road	Unknown
Fog <sup>+</sup>	Community	Rose Garden Park	Palm & A Street	Unknown
Fog <sup>+</sup>	Community	Schelling Park	Pine & Filbert	Unknown
Fog <sup>+</sup>	Community	Scroth Park	Vine & Belmont	Unknown
Fog <sup>+</sup>	Community	Unger Park	Belmont & Glaze	Unknown
Fog <sup>+</sup>	Community	Water Tower Park	Pine & B Street	Unknown
Fog <sup>+</sup>	Emergency Response	Exeter Police Department	100 N. C Street	Unknown
Fog <sup>+</sup>	Government	Exeter City Hall	137 North F Street	Unknown
Fog <sup>+</sup>	Government	Recreation and Public Works / Utility	350 W. Firebaugh Avenue	Unknown
Fog <sup>+</sup>	Public Works / Utility	Wastewater Treatment Plant	1906 W. Myer	Unknown
Fog <sup>+</sup>	Public Works/Utility	A & W Lift Station	Kaweah Avenue and Sequoia Drive	Unknown
Fog <sup>+</sup>	Public Works/Utility	Filbert Lift Station	Filbert Road and King Street	Unknown
Fog <sup>+</sup>	Public Works/Utility	Industrial Lift Station	Firebaugh Road and Industrial Drive	Unknown
Fog <sup>+</sup>	Public Works/Utility	Kaweah Trailer Park Lift Station	Kaweah Avenue south of Firebaugh Avenue	Unknown
Fog <sup>+</sup>	Public Works/Utility	Lenox Lift Station	Lenox Avenue and Bryant Court	Unknown

**Table I-4. City of Exeter, Vulnerable Critical Facilities and Infrastructure**

Hazard	Category	Name	Address	Value
Fog <sup>+</sup>	Public Works/Utility	Quince Lift Station	Alley between Willow Street, Vine Street, Orange Avenue, and Quince Avenue	Unknown
Fog <sup>+</sup>	Public Works/Utility	Rancho Lift Station	On Albert Avenue north of Visalia Road	Unknown
Fog <sup>+</sup>	Public Works/Utility	Rocky Hill Lift Station	Sequoia Drive between D Street and B Street	Unknown
Fog <sup>+</sup>	Public Works/Utility	Visalia Road Lift Station	Visalia Road and Belmont Road	Unknown
Fog <sup>+</sup>	Transportation	Exeter Airport	Belmont Road	Unknown

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table I-5. City of Exeter, RL Properties**

<b>Occupancy Type</b>	<b>Flood Zone</b>	<b>Losses</b>
Single Family	C	2
Single Family	A14	2



**Table I-6. City of Exeter, 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 - Moderate Groundshaking	10,796	100%	3,628	100%
Flood - 500 Year Floodplain	10,739	99%	3,611	100%
Flood - Dam Failure, Terminus Dam	10	0.1%	2	0.1%
Fog <sup>+</sup>	10,796	100%	3,628	100%

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table I-7. City of Exeter, 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 - Moderate Groundshaking	25	100%
Flood - 500 Year Floodplain	25	100%
Flood - Dam Failure, Terminus Dam	2	8%
Fog <sup>+</sup>	25	100%

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table I-8. City of Exeter, Human and Technical Resources for Hazard Mitigation**

Staff/Personnel Resources	Department or Agency	Principal Activities Related to Hazard Mitigation
Planner(s), engineer(s) and technical staff with knowledge of land development, land management practices, and human-caused and natural hazards.	City Planner (Contracted – Collins & Schoettler) City Engineer (Contracted – Quad Knopf)	Develops and maintains the General Plan, including the Safety Element. Develops area plans based on the General Plan, to provide more specific guidance for the development of more specific areas. Reviews private development projects and proposed capital improvements projects and other physical projects involving property for consistency and conformity with the General Plan. Anticipates and acts on the need for new plans, policies, and Code changes. Applies the approved plans, policies, code provisions, and other regulations to proposed land uses.
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.	County of Tulare – Building Dept.	Oversees the effective, efficient, fair, and safe enforcement of the California Building Code
Engineers, construction project managers, and supporting technical staff.	City Engineer (Contracted – Quad Knopf)	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.	City of Exeter Public Works Dept.	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	City Engineer (Contracted – Quad Knopf)	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 plan participant or tribal area.

**Table I-8. City of Exeter, Human and Technical Resources for Hazard Mitigation**

Staff/Personnel Resources	Department or Agency	Principal Activities Related to Hazard Mitigation
Emergency Manager	City of Exeter – Police Department	Maintains and updates the Emergency Operations Plan for the plan participant. 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	City of Exeter – Finance Director	Provides a full range of municipal financial services, administers several licensing measures, and functions as the plan participant’s Procurement Services Manager.

**Table I-9. City of Exeter, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Local</b>	General Fund	City of Exeter – Finance Director	Program operations and specific projects.	Variable.
	General Obligation (GO) Bonds	City of Exeter – Finance Director	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	City of Exeter – Finance Director	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 plan participant’s general governmental purposes.	Variable.
	Public-Private Partnerships	City of Exeter – City Administrator	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 I-9. City of Exeter, 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.
	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 I-9. City of Exeter, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<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 I-10. City of Exeter, Legal and Regulatory Resources for Hazard Mitigation**

Regulatory Tool	Name	Description (Effect on Hazard Mitigation)	Hazards Addressed	Mitigation, Preparedness, Response, or Recovery	Affects Development in Hazard Areas?
<b>Plans</b>	General Plan: Safety Element (1975)	Describes hazard areas and regulates current and future development based on known hazard areas.	Adopted 1975 Tulare County Safety Element <ul style="list-style-type: none"> <li>▪ Earthquake</li> <li>▪ Fire</li> <li>▪ Dam Failure</li> <li>▪ Hazardous Materials</li> <li>▪ Nuclear Hazard</li> <li>▪ Flooding</li> </ul>	Mitigation & Preparedness	Yes
	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.	<ul style="list-style-type: none"> <li>▪ Stormwater</li> </ul>	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.	<ul style="list-style-type: none"> <li>▪ Earthquake</li> <li>▪ Fire</li> <li>▪ Flooding</li> </ul>	Mitigation, Preparedness, and Response	Yes



**Table I-11. City of Exeter, 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>
Detention Basin at Park Place corner of Belmont and Glaze.	Park Place Detention Basin	5 Acres Detention Basin to catch all storm water running from South of town. Once storm water is collected, it is pump into Irrigation ditch owned by Consolidated Peoples Ditch.	Completed 2003

**Table I-12. City of Exeter, 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 of residential and/or non-residential structures in hazard areas, such high and/or very high wildfire areas.	Property Protection	All	New and Existing – Residential and non-residential buildings in hazard areas.
2	Integrate the Tulare County 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	Not applicable.
3	Seismically retrofit or replace public works and/or emergency response facilities that are necessary during and/or immediately after a disaster or emergency.	Property Protection, Structural Project	Earthquake	Existing – Public works and/or emergency response facilities that are structurally deficient or located within a high ground shaking area.
4	Seismically retrofit or replace 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 and/or immediate after a disaster or emergency.	Property Protection, Structural Project	Earthquake	Existing – Ramps and bridges identified by Caltrans as structurally deficient or located within an extreme ground shaking area.
5	Develop a public outreach program that informs property owners located in the dam or levee inundation areas about voluntary flood insurance.	Public Outreach	Flood (Dam and Levee Failure)	Existing – Residential buildings located within dam or levee inundation areas.
6	Create a database that accounts for all levees in Tulare County and their condition.	All	Flood (Levee Failure)	Not applicable.
7	Acquire, relocate, or elevate residential structures, in particular those that have been identified as Repetitive Loss (RL) properties that are located within the 500-year floodplain.	Property Protection	Flood (Riverine)	Existing – Residential structures, including RL properties, located within the 500-year floodplain.
8	Acquire, relocate, elevate, and/or floodproof critical facilities that are located within the 500-year floodplain.	Property Protection	Flood (Riverine)	Existing - Critical facilities located within the 500-year floodplain.

**Table I-12. City of Exeter, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
9	Reinforce County and local ramps, bridges, and roads from flooding through protection activities, including elevating the road and installing culverts beneath the road or building a higher bridge across the area that experiences regular flooding.	Property Protection, Structural Project	Flood (Riverine)	Existing – County and local ramps, bridges, and roads identified in the 100-year floodplain.
10	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide Digital Flood Insurance Rate Map (DFIRM), Community Assessment Visits, and/or the Department of Water Resources (DWR).	All	Flood (Riverine)	New/Existing -Properties within the 100-year or 500-year floodplain.
11	Increase participation in the National Flood Insurance Program (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	Flood (Riverine)	New/Existing –County and incorporated communities that have RL properties.
12	Continue to work with weather forecasting and public safety agencies to provide warning and protective information to residents, travelers, and visitors about severe valley fog conditions*.	Prevention	Fog	Not applicable.
13	Implement post-fire debris flow hill-slope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-Fire Debris Flow	Existing – Public works facilities.
14	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	Existing – Critical facilities located in areas that experience severe wind.
15	Develop a free annual tree chipping and tree pick-up day that encourages residents living in wind hazard areas to manage trees and shrubs at risk to falling on nearby structures.	Property Protection	Severe Winter Storm	Existing – Residential buildings that experience severe wind.

**Table I-12. City of Exeter, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
16	Bolt down the roofs of critical facilities in wind gust hazard areas in order to prevent wind damage.	Property Protection	Severe Winter Storm	Existing – Critical facilities located in areas that experience wind gusts.
17	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 high and very high wildfire zones.	Prevention, Property Protection, Natural Resource Protection	Wildfire	Existing – Critical facilities and residential buildings located within high and very high wildfire zones.
18	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 from around their homes.	Property Protection	Wildfire	Existing – Residential buildings in high or very high wildfire zones.
19	Develop a community wildfire mitigation plan that identifies and prioritizes areas for hazard fuel reduction treatments, and recommend the types of methods of treatments.	Prevention, Property Protection	Wildfires	New/ Existing – Residential and non-residential buildings located within high or very high wildfire areas in the Local Responsibility Areas
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 – Residential and non-residential buildings located within high or very high wildfire areas.

\* Mitigation action does not meet the 2011 HMA Guidance requirements for FEMA mitigation funding

**Table I-13. City of Exeter, Mitigation Action Plan**

No.	Selected (Y/N)	Description	Prioritization Criteria	Facility to be Mitigated (if known)	Department or Agency	Timeframe to be Implemented
2	Y	Integrate the Tulare County HMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	A, B, C, D, E	Not Applicable	City of Exeter Planning and Building Department	1 year - ongoing
3	Y	Seismically retrofit or replace public works and/or emergency response facilities that are necessary during and/or immediately after a disaster or emergency.	A, B, C, D	Unknown	City of Exeter Public Works Department	3 years
7	Y	Acquire, relocate, or elevate residential structures, in particular those that have been identified as RL properties that are located within the 500-year floodplain.	A, B, C, D	2 RL properties are located in the City of Exeter	City of Exeter Public Works Department	3 years
8	Y	Acquire, relocate, elevate, and/or floodproof critical facilities that are located within the 500-year floodplain.	A, B, C, D	Unknown	City of Exeter Public Works Department	3 years

**Prioritization Criteria**

- |  |   |
|--|---|
| <p>A. A local jurisdiction department or agency champion currently exists or can be identified</p> <p>B. The action can be implemented during the 5-year lifespan of the HMP</p> | <p>C. The action may reduce expected future damages and losses (cost-benefit)</p> <p>D. The action mitigates a high-risk hazard</p> <p>E. The action mitigates multiple hazards</p> |
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**Appendix J**  
**City of Farmersville**

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**Table J-1. City of Farmersville, Total Population and Residential Buildings**

<b>Population</b>	<b>Residential Buildings</b>	<b>Total Residential Building Value (2000)</b>
10,971	2,769	\$171,616,200

(Average structural value of residences in Census blocks for the year 2000: \$81,092)

Source: U.S. Census Bureau, 2000, California Department of Finance, 2010

**Table J-2. City of Farmersville, Total Critical Facilities and Infrastructure**

Category	Name	Address	Value
Community	Old City Hall	145 E. Front	\$150,000
Community	Old Police Department	147 E. Front	\$150,000
Community	Child Care Facility	455 N. Linnel	\$1,000,000
Community	Farmersville Community Center	623 N. Avery	\$3,000,000
Community	Old Fire Station	829 N. Magnolia	\$100,000
Community	Loan Oak Park	Co Rd 164 and E. Citrus Drive	Unknown
Community	Ash Street Park	E. Ash Street and N. Avery Avenue	\$66,000
Community	Veterans Park	Farmersville Boulevard and Citrus	\$650,000
Community	Church/Museum	Front and Farmersville Boulevard	\$500,000
Community	Jennings Park	N. Linnell Avenue and W. Ash Street	\$13,000
Community	Riverbank Park	Oakland and Farmersville Boulevard	\$10,000
Community	Roys Park	S. Farmersville Blvd and 0.3 mi south of E. Oakland Street	\$83,500
Community	Liberty Park	W. Teddy Street	\$203,687
Government	City Hall	909 W. Visalia Road	Unknown
Emergency Response	Future PD/Fire Parcel	Front west of Farmersville Boulevard	\$450,000
Public Works/Utilities	Corporate Yard	873 S. Farmersville Blvd	\$300,000
Public Works/Utilities	City Well	Corporation Yard	\$1,300,000
Public Works/Utilities	Sewer Plant	dirt extension of Virginia South of Qualls	\$15,000,000
Public Works/Utilities	City Well	E. Ash and Hester	\$1,300,000
Public Works/Utilities	City Well	Front and Camelia	\$1,300,000
Public Works/Utilities	City Well	Matthew and Walnut	\$1,300,000
Public Works/Utilities	City Well	N. Farmersville Blvd at Veterans Park	\$1,300,000
Public Works/Utilities	City Well	N. Farmersville Boulevard south of Noble	\$1,300,000
Public Works/Utilities	Sewer Lift Station	Oakview and Ash	\$375,000

**Table J-2. City of Farmersville, Total Critical Facilities and Infrastructure**

Category	Name	Address	Value
Public Works/Utilities	Sewer Lift Station	Petunia and Ventura	\$375,000
Public Works/Utilities	Sewer Lift Station	Sandy and Yew	\$375,000
Public Works/Utilities	City Well	W. Ash and Matthew	\$1,300,000
Transportation	City Bridge #3	0.15 mi south of Avenue 280	Unknown
Transportation	City Bridge #1	0.2 mi E. Of Rd 164	Unknown
Transportation	City Bridge #2	Between Larry Street and Costnr Street	Unknown
Transportation	City Bridge #4	N. Dwight Street and Oak View Avenue	Unknown

**Table J-3. City of Farmersville, Vulnerable Population and Residential Buildings**

Hazard	Population	Residential buildings	Total Residential Building Value
Earthquake - Moderate Groundshaking	10,971	2,769	\$171,616,201
Flood - 100 Year Floodplain	4,628	1,132	\$67,398,588
Flood - 500 Year Floodplain	6,169	1,593	\$101,400,266
Flood - Dam Failure, Terminus Dam	2,244	540	\$32,585,140
Fog <sup>+</sup>	10,971	2,769	\$171,616,200

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table J-4. City of Farmersville, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Community	Ash Street Park	E. Ash Street and N. Avery Avenue	\$66,000
Earthquake - Moderate Groundshaking	Community	Child Care Facility	455 N. Linnel	\$1,000,000
Earthquake - Moderate Groundshaking	Community	Church/Museum	Front and Farmersville Boulevard	\$500,000
Earthquake - Moderate Groundshaking	Community	Farmersville Community Center	623 N. Avery	\$3,000,000
Earthquake - Moderate Groundshaking	Community	Jennings Park	N. Linnell Avenue and W. Ash Street	Unknown
Earthquake - Moderate Groundshaking	Community	Liberty Park	W. Teddy Street	\$203,687
Earthquake - Moderate Groundshaking	Community	Loan Oak Park	Co Rd 164 and E. Citrus Drive	Unknown
Earthquake - Moderate Groundshaking	Community	Old City Hall	145 E. Front	\$150,000
Earthquake - Moderate Groundshaking	Community	Old Fire Station	829 N. Magnolia	\$100,000
Earthquake - Moderate Groundshaking	Community	Old Police Department	147 E. Front	\$150,000
Earthquake - Moderate Groundshaking	Community	Riverbank Park	Oakland and Farmersville Boulevard	\$10,000
Earthquake - Moderate Groundshaking	Community	Roys Park	S. Farmersville Boulevard and 0.3 Mi south of E. Oakland Street	\$83,500
Earthquake - Moderate Groundshaking	Community	Veterans Park	Farmersville Boulevard and Citrus	\$650,000
Earthquake - Moderate Groundshaking	Government	City Hall	909 W. Visalia Road	Unknown
Earthquake - Moderate Groundshaking	Public Works / Utility	City Well	873 S. Farmersville Boulevard	\$1,300,000.00

**Table J-4. City of Farmersville, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Public Works / Utility	City Well	Matthew and Walnut	\$1,300,000.00
Earthquake - Moderate Groundshaking	Public Works / Utility	City Well	E. Ash and Hester	\$1,300,000.00
Earthquake - Moderate Groundshaking	Public Works / Utility	City Well	W. Ash and Matthew	\$1,300,000.00
Earthquake - Moderate Groundshaking	Public Works / Utility	City Well	Front and Camelia	\$1,300,000.00
Earthquake - Moderate Groundshaking	Public Works / Utility	City Well	N. Farmersville Boulevard at Veterans Park	\$1,300,000.00
Earthquake - Moderate Groundshaking	Public Works / Utility	City Well	N. Farmersville Boulevard south of Noble	\$1,300,000.00
Earthquake - Moderate Groundshaking	Public Works / Utility	Corporate Yard	873 S. Farmersville Boulevard	\$300,000
Earthquake - Moderate Groundshaking	Public Works / Utility	Sewer Lift Station	Oakview and Ash	\$375,000.00
Earthquake - Moderate Groundshaking	Public Works / Utility	Sewer Lift Station	Sandy and Yew	\$375,000.00
Earthquake - Moderate Groundshaking	Public Works / Utility	Sewer Lift Station	Petunia and Ventura	\$375,000.00
Earthquake - Moderate Groundshaking	Public Works / Utility	Sewer Plant	dirt extension of Virginia South of Qualls	\$15,000,000.00
Earthquake - Moderate Groundshaking	Transportation	City Bridge #1	0.2 Mi E. Of Rd 164	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #2	Between Larry Street and Costnr Street	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #3	0.15 Mi south of Avenue 280	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #4	N. Dwight Street and Oak View Avenue	Unknown

**Table J-4. City of Farmersville, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - 100 Year Floodplain	Community	Child Care Facility	455 N. Linnel	\$1,000,000
Flood - 100 Year Floodplain	Community	Church/Museum	Front and Farmersville Boulevard	\$500,000
Flood - 100 Year Floodplain	Community	Jennings Park	N. Linnell Avenue and W. Ash Street	Unknown
Flood - 100 Year Floodplain	Community	Veterans Park	Farmersville Boulevard and Citrus	\$650,000
Flood - 100 Year Floodplain	Public Works / Utility	City Well	W. Ash and Matthew	\$1,300,000.00
Flood - 100 Year Floodplain	Public Works / Utility	City Well	N. Farmersville Boulevard south of Noble	\$1,300,000.00
Flood - 100 Year Floodplain	Public Works / Utility	Sewer Lift Station	Petunia and Ventura	\$375,000.00
Flood - 500 Year Floodplain	Community	Ash Street Park	E. Ash Street and N. Avery Avenue	\$66,000
Flood - 500 Year Floodplain	Community	Farmersville Community Center	623 N. Avery	\$3,000,000
Flood - 500 Year Floodplain	Community	Liberty Park	W. Teddy Street	\$203,687
Flood - 500 Year Floodplain	Community	Loan Oak Park	Co Rd 164 and E. Citrus Drive	Unknown
Flood - 500 Year Floodplain	Community	Old City Hall	145 E. Front	\$150,000
Flood - 500 Year Floodplain	Community	Old Fire Station	829 N. Magnolia	\$100,000
Flood - 500 Year Floodplain	Community	Old Police Department	147 E. Front	\$150,000
Flood - 500 Year Floodplain	Community	Riverbank Park	Oakland and Farmersville Boulevard	\$10,000
Flood - 500 Year Floodplain	Community	Roys Park	S. Farmersville Boulevard and 0.3 Mi south of E. Oakland Street	\$83,500
Flood - 500 Year Floodplain	Public Works / Utility	City Well	873 S. Farmersville Boulevard	\$1,300,000.00
Flood - 500 Year Floodplain	Public Works / Utility	City Well	Matthew and Walnut	\$1,300,000.00
Flood - 500 Year Floodplain	Public Works / Utility	City Well	E. Ash and Hester	\$1,300,000.00
Flood - 500 Year Floodplain	Public Works / Utility	City Well	Front and Camelia	\$1,300,000.00
Flood - 500 Year Floodplain	Public Works / Utility	City Well	N. Farmersville Boulevard at Veterans Park	\$1,300,000.00

**Table J-4. City of Farmersville, Vulnerable Critical Facilities and Infrastructure**

Hazard	Category	Name	Address	Value
Flood - 500 Year Floodplain	Public Works / Utility	Corporate Yard	873 S. Farmersville Boulevard	\$300,000
Flood - 500 Year Floodplain	Public Works / Utility	Sewer Lift Station	Oakview and Ash	\$375,000.00
Flood - 500 Year Floodplain	Public Works / Utility	Sewer Lift Station	Sandy and Yew	\$375,000.00
Flood - 500 Year Floodplain	Public Works / Utility	Sewer Plant	dirt extension of Virginia South of Qualls	\$15,000,000.00
Flood - 500 Year Floodplain	Transportation	City Bridge #1	0.2 Mi E. Of Rd 164	Unknown
Flood - 500 Year Floodplain	Transportation	City Bridge #2	Between Larry Street and Costnr Street	Unknown
Flood - Dam Failure, Terminus Dam	Public Works / Utility	City Well	E. Ash and Hester	\$1,300,000.00
Flood - Dam Failure, Terminus Dam	Public Works / Utility	City Well	N. Farmersville Boulevard at Veterans Park	\$1,300,000.00
Flood - Dam Failure, Terminus Dam	Public Works / Utility	City Well	N. Farmersville Boulevard south of Noble	\$1,300,000.00
Flood - Dam Failure, Terminus Dam	Public Works / Utility	Sewer Lift Station	Oakview and Ash	\$375,000.00
Flood - Dam Failure, Terminus Dam	Public Works / Utility	Sewer Plant	dirt extension of Virginia South of Qualls	\$15,000,000.00
Flood - Dam Failure, Terminus Dam	Transportation	City Bridge #1	0.2 Mi E. Of Rd 164	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	City Bridge #2	Between Larry Street and Costnr Street	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	City Bridge #4	N. Dwight Street and Oak View Avenue	Unknown
Fog <sup>+</sup>	Community	Ash Street Park	E. Ash Street and N. Avery Avenue	\$66,000
Fog <sup>+</sup>	Community	Child Care Facility	455 N. Linnel	\$1,000,000
Fog <sup>+</sup>	Community	Church/Museum	Front and Farmersville Boulevard	\$500,000
Fog <sup>+</sup>	Community	Farmersville Community Center	623 N. Avery	\$3,000,000



**Table J-4. City of Farmersville, Vulnerable Critical Facilities and Infrastructure**

Hazard	Category	Name	Address	Value
Fog <sup>+</sup>	Community	Jennings Park	N. Linnell Avenue and W. Ash Street	Unknown
Fog <sup>+</sup>	Community	Liberty Park	W. Teddy Street	\$203,687
Fog <sup>+</sup>	Community	Loan Oak Park	Co Rd 164 and E. Citrus Drive	Unknown
Fog <sup>+</sup>	Community	Old City Hall	145 E. Front	\$150,000
Fog <sup>+</sup>	Community	Old Fire Station	829 N. Magnolia	\$100,000
Fog <sup>+</sup>	Community	Old Police Department	147 E. Front	\$150,000
Fog <sup>+</sup>	Community	Riverbank Park	Oakland and Farmersville Boulevard	\$10,000
Fog <sup>+</sup>	Community	Roys Park	S. Farmersville Boulevard and 0.3 Mi south of E. Oakland Street	\$83,500
Fog <sup>+</sup>	Community	Veterans Park	Farmersville Boulevard and Citrus	\$650,000
Fog <sup>+</sup>	Government	City Hall	909 W. Visalia Road	Unknown
Fog <sup>+</sup>	Public Works / Utility	City Well	873 S. Farmersville Boulevard	\$1,300,000.00
Fog <sup>+</sup>	Public Works / Utility	City Well	Matthew and Walnut	\$1,300,000.00
Fog <sup>+</sup>	Public Works / Utility	City Well	E. Ash and Hester	\$1,300,000.00
Fog <sup>+</sup>	Public Works / Utility	City Well	W. Ash and Matthew	\$1,300,000.00
Fog <sup>+</sup>	Public Works / Utility	City Well	Front and Camelia	\$1,300,000.00
Fog <sup>+</sup>	Public Works / Utility	City Well	N. Farmersville Boulevard at Veterans Park	\$1,300,000.00
Fog <sup>+</sup>	Public Works / Utility	City Well	N. Farmersville Boulevard south of Noble	\$1,300,000.00
Fog <sup>+</sup>	Public Works / Utility	Corporate Yard	873 S. Farmersville Boulevard	\$300,000
Fog <sup>+</sup>	Public Works / Utility	Sewer Lift Station	Oakview and Ash	\$375,000.00
Fog <sup>+</sup>	Public Works / Utility	Sewer Lift Station	Sandy and Yew	\$375,000.00
Fog <sup>+</sup>	Public Works / Utility	Sewer Lift Station	Petunia and Ventura	\$375,000.00

**Table J-4. City of Farmersville, Vulnerable Critical Facilities and Infrastructure**

Hazard	Category	Name	Address	Value
Fog <sup>+</sup>	Public Works / Utility	Sewer Plant	Dirt extension of Virginia South of Qualls	\$15,000,000.00
Fog <sup>+</sup>	Transportation	City Bridge #1	0.2 Mi E. Of Rd 164	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #2	Between Larry Street and Costnr Street	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #3	0.15 Mi south of Avenue 280	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #4	N. Dwight Street and Oak View Avenue	Unknown

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table J-5. City of Farmersville, 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 - Moderate Groundshaking	10,971	100%	2,769	100%
Flood - 100 Year Floodplain	4,628	42%	1,132	41%
Flood - 500 Year Floodplain	6,169	56%	1,593	58%
Flood - Dam Failure, Terminus Dam	2,244	20%	540	20%
Fog <sup>+</sup>	10,971	100%	2,769	100%

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table J-6. City of Farmersville, Summary of Impacts for Critical Facilities and Infrastructure**

Hazard	No. of Critical Facilities and Infrastructure	% of Critical Facilities and Infrastructure
Earthquake - Moderate Groundshaking	30	100%
Flood - 100 Year Floodplain	7	23%
Flood - 500 Year Floodplain	20	67%
Flood - Dam Failure, Terminus Dam	8	27%
Fog <sup>+</sup>	30	100%

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table J-7. City of Farmersville, Human and Technical Resources for Hazard Mitigation**

Staff/Personnel Resources	Department or Agency	Principal Activities Related to Hazard Mitigation
Planner(s), engineer(s) and technical staff with knowledge of land development, land management practices, and human-caused and natural hazards.	Contracted City Planner : Karl Schoettler 1002 W. Main St. Visalia, CA 93291 (559) 734-8737 Contracted City Engineer: Quad Knopf 5110 W. Cypress Avenue Visalia, CA 93278 (559) 733-0440	Develops and maintains the General Plan, including the Safety Element. Develops area plans based on the General Plan, to provide more specific guidance for the development of more specific areas. Reviews private development projects and proposed capital improvements projects and other physical projects involving property for consistency and conformity with the General Plan. Anticipates and acts on the need for new plans, policies, and Code changes. Applies the approved plans, policies, code provisions, and other regulations to proposed land uses.
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.	The City of Farmersville contracts service for building inspections and plan checks through our City Engineer Quad Knopf and the Tulare County Building Department. In addition the City has its own Code Enforcement department for code compliance issues.	Oversees the effective, efficient, fair, and safe enforcement of the California Building Code
Engineers, construction project managers, and supporting technical staff.	Engineering is contracted through Quad Knopf Project management is contracted through CM Construction P.O. Box 6237 Visalia, CA 93290-6237 (559) 735-9556	Provides direct or contract civil, structural, and mechanical engineering services, including contract, project, and construction management.

**Table J-7. City of Farmersville, Human and Technical Resources for Hazard Mitigation**

Staff/Personnel Resources	Department or Agency	Principal Activities Related to Hazard Mitigation
Engineer(s), project manager(s), technical staff, equipment operators, and maintenance and construction staff.	The City of Farmersville provides water, sewer, storm drain services, and street maintenance to its residents and contracts solid waste services and street sweeping.	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	Jose Lopez, Code Enforcement 909 W. Visalia Rd. Farmersville, CA 93223	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 plan participant or tribal area.
Emergency Manager	Rene Miller, City Manager 909 W. Visalia Rd. Farmersville, CA 93223 (559) 747-0458	Maintains and updates the Emergency Operations Plan for the plan participant. 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	Patty Miller, Finance Director 909 W. Visalia Rd. Farmersville, CA 93223 (559) 747-0458	Provides a full range of municipal financial services, administers several licensing measures, and functions as the plan participant's Procurement Services Manager.

**Table J-8. City of Farmersville, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Local</b>	General Fund	Rene Miller, City Manager 909 W. Visalia Rd. Farmersville, CA 93223	Program operations and specific projects.	Variable.
	General Obligation (GO) Bonds	N/A	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	N/A	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 plan participant's general governmental purposes.	Variable.
	Public-Private Partnerships	N/A	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 Farmersville, 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 Farmersville, 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 Farmersville, Legal and Regulatory Resources for Hazard Mitigation**

Regulatory Tool	Name	Description (Effect on Hazard Mitigation)	Hazards Addressed	Mitigation, Preparedness, Response, or Recovery	Affects Development in Hazard Areas?
<b>Plans</b>	General Plan: Safety Element 2002 General plan update in progress	Describes hazard areas and regulates current and future development based on known hazard areas.	<ul style="list-style-type: none"> <li>▪ Earthquake</li> <li>▪ Fire</li> <li>▪ Dam Failure</li> <li>▪ Hazardous Materials</li> <li>▪ Nuclear Hazard</li> <li>▪ Flooding</li> </ul>	Mitigation & Preparedness	Yes
	Emergency Operations Plan 2001	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.	<ul style="list-style-type: none"> <li>▪ Earthquake</li> <li>▪ Flooding</li> <li>▪ Wildland Fire</li> <li>▪ Extreme Weather/ Storms</li> <li>▪ Dam failure</li> <li>▪ Hazardous Materials</li> <li>▪ Major Vehicle Accident</li> <li>▪ Train Accident</li> <li>▪ Airplane Crash</li> <li>▪ Civil Disturbance</li> <li>▪ Terrorism.</li> </ul>	Response	No
	Storm Water Quality Management Program (SWQMP) - Storm Water Management Plan (2007)	Describes measures that the local jurisdiction will take to minimize storm water pollution. The SWQMP is required by the National Pollutant Discharge Elimination System Phase II regulations, which became effective in March 2003.	<ul style="list-style-type: none"> <li>▪ Storm water</li> </ul>	Mitigation & Preparedness	Yes

**Table J-9. City of Farmersville, Legal and Regulatory Resources for Hazard Mitigation**

Regulatory Tool	Name	Description (Effect on Hazard Mitigation)	Hazards Addressed	Mitigation, Preparedness, Response, or Recovery	Affects Development in Hazard Areas?
<b>Policies</b>	Code of Ordinances Maintained by the City Clerk Patty Miller, City Clerk 909 W. Visalia Rd. Farmersville, CA 93223	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.	<ul style="list-style-type: none"> <li>▪ Earthquake</li> <li>▪ Fire</li> <li>▪ Flooding</li> </ul>	Mitigation, Preparedness, and Response	Yes

**Table J-10. City of Farmersville, 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>
None	Not Applicable	Not Applicable	Not Applicable

**Table J-11. City of Farmersville, 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 of residential and/or non-residential structures in hazard areas, such high and/or very high wildfire areas.	Property Protection	All	New and Existing – Residential and non-residential buildings in hazard areas.
2	Integrate the Tulare County 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	Not applicable.
3	Seismically retrofit or replace public works and/or emergency response facilities that are necessary during and/or immediately after a disaster or emergency.	Property Protection, Structural Project	Earthquake	Existing – Public works and/or emergency response facilities that are structurally deficient or located within a high ground shaking area.
4	Seismically retrofit or replace 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 and/or immediate after a disaster or emergency.	Property Protection, Structural Project	Earthquake	Existing – Ramps and bridges identified by Caltrans as structurally deficient or located within an extreme ground shaking area.
5	Develop a public outreach program that informs property owners located in the dam or levee inundation areas about voluntary flood insurance.	Public Outreach	Flood (Dam and Levee Failure)	Existing – Residential buildings located within dam or levee inundation areas.
6	Create a database that accounts for all levees in Tulare County and their condition.	All	Flood (Levee Failure)	Not applicable.
7	Acquire, relocate, or elevate residential structures, in particular those that have been identified as Repetitive Loss (RL) properties that are located within the 100-year floodplain.	Property Protection	Flood (Riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
8	Acquire, relocate, elevate, and/or floodproof critical facilities that are located within the 100-year floodplain.	Property Protection	Flood (Riverine)	Existing - Critical facilities located within the 100-year floodplain.

**Table J-11. City of Farmersville, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
9	Reinforce County and local ramps, bridges, and roads from flooding through protection activities, including elevating the road and installing culverts beneath the road or building a higher bridge across the area that experiences regular flooding.	Property Protection, Structural Project	Flood (Riverine)	Existing – County and local ramps, bridges, and roads identified in the 100-year floodplain.
10	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide Digital Flood Insurance Rate Map (DFIRM), Community Assessment Visits, and/or the Department of Water Resources (DWR).	All	Flood (Riverine)	New/Existing -Properties within the 100-year or 500-year floodplain.
11	Increase participation in the National Flood Insurance Program (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	Flood (Riverine)	New/Existing –County and incorporated communities that have RL properties.
12	Continue to work with weather forecasting and public safety agencies to provide warning and protective information to residents, travelers, and visitors about severe valley fog conditions*.	Prevention	Fog	Not applicable.
13	Implement post-fire debris flow hill-slope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-Fire Debris Flow	Existing – Public works facilities.
14	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	Existing – Critical facilities located in areas that experience severe wind.
15	Develop a free annual tree chipping and tree pick-up day that encourages residents living in wind hazard areas to manage trees and shrubs at risk to falling on nearby structures.	Property Protection	Severe Winter Storm	Existing – Residential buildings that experience severe wind.

**Table J-11. City of Farmersville, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
16	Bolt down the roofs of critical facilities in wind gust hazard areas in order to prevent wind damage.	Property Protection	Severe Winter Storm	Existing – Critical facilities located in areas that experience wind gusts.
17	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 high and very high wildfire zones.	Prevention, Property Protection, Natural Resource Protection	Wildfire	Existing – Critical facilities and residential buildings located within high and very high wildfire zones.
18	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 from around their homes.	Property Protection	Wildfire	Existing – Residential buildings in high or very high wildfire zones.
19	Develop a community wildfire mitigation plan that identifies and prioritizes areas for hazard fuel reduction treatments, and recommend the types of methods of treatments.	Prevention, Property Protection	Wildfires	New/ Existing – Residential and non-residential buildings located within high or very high wildfire areas in the Local Responsibility Areas
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 – Residential and non-residential buildings located within high or very high wildfire areas.

\* Mitigation action does not meet the 2011 HMA Guidance requirements for FEMA mitigation funding

**Table J-12. City of Farmersville, Mitigation Action Plan**

No.	Selected (Y/N)	Description	Prioritization Criteria	Facility to be Mitigated (if known)	Department or Agency	Timeframe to be Implemented
2	Y	Integrate the Tulare County HMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	A, B, C, D, E	Not Applicable	Contracted City Planner is Karl Schoettler	1 year - ongoing
8	Y	Acquire, relocate, elevate, and/or floodproof critical facilities that are located within the 100-year floodplain.	A, B, C, D, E	Unknown	Jose Lopez, Code Enforcement	3 years
10	Y	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.	A, B, C, D, E	Unknown	Jose Lopez, Code Enforcement	1- 3 years

**Prioritization Criteria**

- |  |   |
|--|---|
| <p>A. A local jurisdiction department or agency champion currently exists or can be identified</p> <p>B. The action can be implemented during the 5-year lifespan of the HMP</p> | <p>C. The action may reduce expected future damages and losses (cost-benefit)</p> <p>D. The action mitigates a high-risk hazard</p> <p>E. The action mitigates multiple hazards</p> |
|--|---|



**Appendix K**  
**City of Lindsay**

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**Table K-1. City of Lindsay, Total Population and Residential Buildings**

<b>Population</b>	<b>Residential Buildings</b>	<b>Total Residential Building Value(2000)</b>
11,814	3,196	\$227,046,000

(Average structural value of residences in Census blocks for the year 2000: \$86,234)

Source: U.S. Census Bureau, 2000, California Department of Finance, 2010

**Table K-2. City of Lindsay, Total Critical Facilities and Infrastructure**

Category	Name	Address	Value
Community	Ashland Apartments	N. Ashland Avenue and W. Honolulu Street	\$75,000
Community	Cardinal Courts	Sweetbrier Avenue and W. Samoa Street	\$15,000
Community	City Park	Parkside Avenue and E. Alameda Street	\$25,000
Community	Harvard Park	N. Harvard Avenue	Unknown
Community	Kaku Park	N. Olive Avenue and W. Samoa Street	\$20,000
Community	Lindsay Historical Museum	Gale Hill Avenue	\$75,000
Community	Lindsay Library	157 N. Mirage Avenue	\$250,000
Community	Lindsay Municipal Golf Course	801 N. Elmwood Avenue	\$500,000
Community	Lindsay Wellness Center/Aquatic Center	740 N. Sequoia Avenue	\$10,000
Community	Lindsay/Porterville Animal Shelter	23611 Rd. 196	\$150,000
Community	Mason House Museum and Gallery	147 N. Gale Hill Avenue	\$75,000
Community	McDermont Field House & Sports Facility	365 N. Sweetbrier Avenue	\$18,000,000
Community	Olive Bowl Baseball stadium	S. Olive Avenue and W. Apia Street	\$20,000
Community	Rehab House	on Dawn St.	\$90,000
Community	Senior/Community Center	911 N. Parkside Avenue	\$150,000
Community	Sweet Brier Plaza	195 N Sweetbriar Avenue	\$2,000,000
Emergency Response	Lindsay Department of Public Safety	185 N. Gale Hill Avenue	\$200,000
Government	Cardinal Zone	142 N. Sweetbrier Avenue	\$100,000
Government	City Services Department	150 N. Mirage Avenue	\$150,000
Government	F.M. Moore Building	Honolulu Street	\$20,000
Government	Lindsay Chamber of Commerce/Sierra Vista Plaza	133 W. Honolulu Street	\$150,000
Government	Lindsay City Hall	251 E. Honolulu Street	\$250,000
Government	Lindsay/Strathmore Memorial Building	775 N. Elmwood Avenue	\$150,000
Government	McGregor Building	130 N. Sweetbrier Avenue	\$75,000

**Table K-2. City of Lindsay, Total Critical Facilities and Infrastructure**

Category	Name	Address	Value
Government	Mt. Whitney Building	181 E. Honolulu Street	\$500,000
Government	Old Jail	S. Sweetbrier Avenue and W. Honolulu Street	\$5,000
Government	Parking lot	E. Elmwood Avenue and E. Honolulu Street	\$15,000
Government	Strathmore Coordinating Council	Honolulu Street	\$40,000
Public Works/Utility	CCPI Discharge Line-3 booster pumps	23620 Road 180	\$1,500,000
Public Works/Utility	Friant Kern Canal	E. Honolulu Street	\$250,000
Public Works/Utility	Harvard Ponding Basin	N. Harvard Avenue and E. Tulare Rd	\$50,000
Public Works/Utility	Hickory Lift Station	Hickory/Tulare Road	\$100,000
Public Works/Utility	Lindsay Corporation Yard	476 N. Mount Vernon Avenue	\$200,000
Public Works/Utility	Lindsay Sewer Treatment Facility	23611 Rd. 196	\$30,000,000
Public Works/Utility	Mariposa Ponding Basin	10 acres mariposa/Hwy 65	\$150,000
Public Works/Utility	Sequoia Lift Station	Sequoia/Hickory	\$500,000
Public Works/Utility	Sequoia Ponding Basin	Sequoia Avenue and E. Alameda Street	\$50,000
Public Works/Utility	Well # 11	W. Mariposa Street	\$1,000,000
Public Works/Utility	Well # 14	Avenue 242	\$1,000,000
Public Works/Utility	Well # 15	Rd 188	\$2,000,000
Transportation	Lindsay School District Transportation Yard	250 N. Harvard Avenue	\$1,000,000

**Table K-3. City of Lindsay, Vulnerable Population and Residential Buildings**

<b>Hazard</b>	<b>Population</b>	<b>Residential buildings</b>	<b>Total Residential Building Value</b>
Earthquake - Moderate Groundshaking	11,814	3,196	\$227,046,000
Flood - 100 Year Floodplain	3,334	849	\$61,203,057
Flood - 500 Year Floodplain	1,308	354	\$25,193,430
Fog <sup>+</sup>	11,814	3,196	\$227,046,000

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table K-4. City of Lindsay, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Community	Ashland Apartments	N. Ashland Avenue and W. Honolulu Street	\$75,000
Earthquake - Moderate Groundshaking	Community	Cardinal Courts	Sweetbrier Avenue and W. Samoa Street	\$15,000
Earthquake - Moderate Groundshaking	Community	City Park	Parkside Avenue and E. Alameda Street	\$25,000
Earthquake - Moderate Groundshaking	Community	Harvard Park	N. Harvard Avenue	Unknown
Earthquake - Moderate Groundshaking	Community	Kaku Park	N. Olive Avenue and W. Samoa Street	\$20,000
Earthquake - Moderate Groundshaking	Community	Lindsay Historical Museum	Gale Hill Avenue	\$75,000
Earthquake - Moderate Groundshaking	Community	Lindsay Library	157 N. Mirage Avenue	\$250,000
Earthquake - Moderate Groundshaking	Community	Lindsay Municipal Golf Course	801 N. Elmwood Avenue	\$500,000
Earthquake - Moderate Groundshaking	Community	Lindsay Wellness Center/Aquatic Center	740 N. Sequoia Avenue	\$10,000
Earthquake - Moderate Groundshaking	Community	Lindsay/Porterville Animal Shelter	23611 Rd. 196	\$150,000
Earthquake - Moderate Groundshaking	Community	Mason House Museum and Gallery	147 N. Gale Hill Avenue	\$75,000
Earthquake - Moderate Groundshaking	Community	McDermont Field House & Sports Facility	365 N. Sweetbrier Avenue	\$18,000,000
Earthquake - Moderate Groundshaking	Community	Olive Bowl Baseball stadium	S. Olive Avenue and W. Apia Street	\$20,000
Earthquake - Moderate Groundshaking	Community	Rehab House	on Dawn St.	\$90,000
Earthquake - Moderate Groundshaking	Community	Senior/Community Center	911 N. Parkside Avenue	\$150,000

**Table K-4. City of Lindsay, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Community	Sweet Brier Plaza	195 N Sweetbriar Avenue	\$2,000,000
Earthquake - Moderate Groundshaking	Emergency Response	Lindsay Department of Public Safety	185 N. Gale Hill Avenue	\$200,000
Earthquake - Moderate Groundshaking	Government	Cardinal Zone	142 N. Sweetbrier Avenue	\$100,000
Earthquake - Moderate Groundshaking	Government	City Services Department	150 N. Mirage Avenue	\$150,000
Earthquake - Moderate Groundshaking	Government	F.M. Moore Building	Honolulu Street	\$20,000
Earthquake - Moderate Groundshaking	Government	Lindsay Chamber of Commerce/Sierra Vista Plaza	133 W. Honolulu Street	\$150,000
Earthquake - Moderate Groundshaking	Government	Lindsay City Hall	251 E. Honolulu Street	\$250,000
Earthquake - Moderate Groundshaking	Government	Lindsay/Strathmore Memorial Building	775 N. Elmwood Avenue	\$150,000
Earthquake - Moderate Groundshaking	Government	McGregor building	130 N. Sweetbrier Avenue	\$75,000
Earthquake - Moderate Groundshaking	Government	Mt. Whitney Building	181 E. Honolulu Street	\$500,000
Earthquake - Moderate Groundshaking	Government	Old Jail	S. Sweetbrier Avenue and W. Honolulu Street	\$5,000
Earthquake - Moderate Groundshaking	Government	Parking lot	E. Elmwood Avenue and E. Honolulu Street	\$15,000
Earthquake - Moderate Groundshaking	Government	Strathmore Coordinating Council	Honolulu Street	\$40,000
Earthquake - Moderate Groundshaking	Public Works/Utility	CCPI Discharge Line-3 booster pumps	23620 Road 180	\$1,500,000
Earthquake - Moderate Groundshaking	Public Works/Utility	Friant Kern Canal	E. Honolulu Street	\$250,000



**Table K-4. City of Lindsay, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Public Works/Utility	Harvard Ponding Basin	N. Harvard Avenue and E. Tulare Rd	\$50,000
Earthquake - Moderate Groundshaking	Public Works/Utility	Hickory Lift Station	Hickory/Tulare Road	\$100,000
Earthquake - Moderate Groundshaking	Public Works/Utility	Lindsay Corporation Yard	476 N. Mount Vernon Avenue	\$200,000
Earthquake - Moderate Groundshaking	Public Works/Utility	Lindsay Sewer Treatment Facility	23611 Rd. 196	\$30,000,000
Earthquake - Moderate Groundshaking	Public Works/Utility	Mariposa Ponding Basin	10 acres mariposa/Hwy 65	\$150,000
Earthquake - Moderate Groundshaking	Public Works/Utility	Sequoia Lift Station	Sequoia/Hickory	\$500,000
Earthquake - Moderate Groundshaking	Public Works/Utility	Sequoia Ponding Basin	Sequoia Avenue and E. Alameda Street	\$50,000
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 11	W. Mariposa Street	\$1,000,000
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 14	Avenue 242	\$1,000,000
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 15	Rd 188	\$2,000,000
Earthquake - Moderate Groundshaking	Transportation	Lindsay School District Transportation Yard	250 N. Harvard Avenue	\$1,000,000
Flood - 100 Year Floodplain	Community	Harvard Park	N. Harvard Avenue	Unknown
Flood - 100 Year Floodplain	Community	Rehab House	on Dawn St.	\$90,000
Flood - 100 Year Floodplain	Public Works/Utility	Harvard Ponding Basin	N. Harvard Avenue and E. Tulare Rd	\$50,000
Flood - 100 Year Floodplain	Transportation	Lindsay School District Transportation Yard	250 N. Harvard Avenue	\$1,000,000

**Table K-4. City of Lindsay, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - 500 Year Floodplain	Community	City Park	Parkside Avenue and E. Alameda Street	\$25,000
Flood - 500 Year Floodplain	Community	Lindsay Historical Museum	Gale Hill Avenue	\$75,000
Flood - 500 Year Floodplain	Community	Lindsay Municipal Golf Course	801 N. Elmwood Avenue	\$500,000
Flood - 500 Year Floodplain	Community	Lindsay Wellness Center/Aquatic Center	740 N. Sequoia Avenue	\$10,000
Flood - 500 Year Floodplain	Community	Senior/Community Center	911 N. Parkside Avenue	\$150,000
Flood - 500 Year Floodplain	Government	F.M. Moore Building	Honolulu Street	\$20,000
Flood - 500 Year Floodplain	Government	Lindsay/Strathmore Memorial Building	775 N. Elmwood Avenue	\$150,000
Flood - 500 Year Floodplain	Government	Strathmore Coordinating Council	Honolulu Street	\$40,000
Flood - 500 Year Floodplain	Public Works/Utility	CCPI Discharge Line-3 booster pumps	23620 Road 180	\$1,500,000
Flood - 500 Year Floodplain	Public Works/Utility	Friant Kern Canal	E. Honolulu Street	\$250,000
Flood - 500 Year Floodplain	Public Works/Utility	Sequoia Ponding Basin	Sequoia Avenue and E. Alameda Street	\$50,000
Flood - Dam Failure, Terminus Dam	Public Works/Utility	CCPI Discharge Line-3 booster pumps	23620 Road 180	\$1,500,000
Fog <sup>+</sup>	Community	Ashland Apartments	N. Ashland Avenue and W. Honolulu Street	\$75,000
Fog <sup>+</sup>	Community	Cardinal Courts	Sweetbrier Avenue and W. Samoa Street	\$15,000
Fog <sup>+</sup>	Community	City Park	Parkside Avenue and E. Alameda Street	\$25,000
Fog <sup>+</sup>	Community	Harvard Park	N. Harvard Avenue	Unknown
Fog <sup>+</sup>	Community	Kaku Park	N. Olive Avenue and W. Samoa Street	\$20,000
Fog <sup>+</sup>	Community	Lindsay Historical Museum	Gale Hill Avenue	\$75,000

**Table K-4. City of Lindsay, Vulnerable Critical Facilities and Infrastructure**

Hazard	Category	Name	Address	Value
Fog <sup>+</sup>	Community	Lindsay Library	157 N. Mirage Avenue	\$250,000
Fog <sup>+</sup>	Community	Lindsay Municipal Golf Course	801 N. Elmwood Avenue	\$500,000
Fog <sup>+</sup>	Community	Lindsay Wellness Center/Aquatic Center	740 N. Sequoia Avenue	\$10,000
Fog <sup>+</sup>	Community	Lindsay/Porterville Animal Shelter	23611 Rd. 196	\$150,000
Fog <sup>+</sup>	Community	Mason House Museum and Gallery	147 N. Gale Hill Avenue	\$75,000
Fog <sup>+</sup>	Community	McDermont Field House & Sports Facility	365 N. Sweetbrier Avenue	\$18,000,000
Fog <sup>+</sup>	Community	Olive Bowl Baseball stadium	S. Olive Avenue and W. Apia Street	\$20,000
Fog <sup>+</sup>	Community	Rehab House	on Dawn St.	\$90,000
Fog <sup>+</sup>	Community	Senior/Community Center	911 N. Parkside Avenue	\$150,000
Fog <sup>+</sup>	Community	Sweet Brier Plaza	195 N Sweetbriar Avenue	\$2,000,000
Fog <sup>+</sup>	Emergency Response	Lindsay Department of Public Safety	185 N. Gale Hill Avenue	\$200,000
Fog <sup>+</sup>	Government	Cardinal Zone	142 N. Sweetbrier Avenue	\$100,000
Fog <sup>+</sup>	Government	City Services Department	150 N. Mirage Avenue	\$150,000
Fog <sup>+</sup>	Government	F.M. Moore Building	Honolulu Street	\$20,000
Fog <sup>+</sup>	Government	Lindsay Chamber of Commerce/Sierra Vista Plaza	133 W. Honolulu Street	\$150,000
Fog <sup>+</sup>	Government	Lindsay City Hall	251 E. Honolulu Street	\$250,000
Fog <sup>+</sup>	Government	Lindsay/Strathmore Memorial Building	775 N. Elmwood Avenue	\$150,000
Fog <sup>+</sup>	Government	McGregor building	130 N. Sweetbrier Avenue	\$75,000
Fog <sup>+</sup>	Government	Mt. Whitney Building	181 E. Honolulu Street	\$500,000

**Table K-4. City of Lindsay, Vulnerable Critical Facilities and Infrastructure**

Hazard	Category	Name	Address	Value
Fog <sup>+</sup>	Government	Old Jail	S. Sweetbrier Avenue and W. Honolulu Street	\$5,000
Fog <sup>+</sup>	Government	Parking lot	E. Elmwood Avenue and E. Honolulu Street	\$15,000
Fog <sup>+</sup>	Government	Strathmore Coordinating Council	Honolulu Street	\$40,000
Fog <sup>+</sup>	Public Works/Utility	CCPI Discharge Line-3 booster pumps	23620 Road 180	\$1,500,000
Fog <sup>+</sup>	Public Works/Utility	Friant Kern Canal	E. Honolulu Street	\$250,000
Fog <sup>+</sup>	Public Works/Utility	Harvard Ponding Basin	N. Harvard Avenue and E. Tulare Rd	\$50,000
Fog <sup>+</sup>	Public Works/Utility	Hickory Lift Station	Hickory/Tulare Road	\$100,000
Fog <sup>+</sup>	Public Works/Utility	Lindsay Corporation Yard	476 N. Mount Vernon Avenue	\$200,000
Fog <sup>+</sup>	Public Works/Utility	Lindsay Sewer Treatment Facility	23611 Rd. 196	\$30,000,000
Fog <sup>+</sup>	Public Works/Utility	Mariposa Ponding Basin	10 acres mariposa/Hwy 65	\$150,000
Fog <sup>+</sup>	Public Works/Utility	Sequoia Lift Station	Sequoia/Hickory	\$500,000
Fog <sup>+</sup>	Public Works/Utility	Sequoia Ponding Basin	Sequoia Avenue and E. Alameda Street	\$50,000
Fog <sup>+</sup>	Public Works/Utility	Well # 11	W. Mariposa Street	\$1,000,000
Fog <sup>+</sup>	Public Works/Utility	Well # 14	Avenue 242	\$1,000,000
Fog <sup>+</sup>	Public Works/Utility	Well # 15	Rd 188	\$2,000,000
Fog <sup>+</sup>	Transportation	Lindsay School District Transportation Yard	250 N. Harvard Avenue	\$1,000,000

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table K-5. City of Lindsay, Summary of Impacts for Population and Residential Buildings**

Hazard	Population	% of Population	No. of Residential Buildings	% of Residential Buildings
Earthquake - Moderate Groundshaking	11,814	100%	3,196	100%
Flood - 100 Year Floodplain	3,334	28%	849	27%
Flood - 500 Year Floodplain	1,308	11%	354	11%
Fog <sup>+</sup>	11,814	100%	3,196	100%

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table K-6. City of Lindsay, Summary of Impacts for Critical Facilities and Infrastructure**

Hazard	No. of Critical Facilities and Infrastructure	% of Critical Facilities and Infrastructure
Earthquake - Moderate Groundshaking	41	100%
Flood - 100 Year Floodplain	4	10%
Flood - 500 Year Floodplain	11	27%
Flood - Dam Failure, Terminus Dam	1	2%
Fog <sup>+</sup>	41	100%

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table K-7. City of Lindsay, Human and Technical Resources for Hazard Mitigation**

Staff/Personnel Resources	Department or Agency	Principal Activities Related to Hazard Mitigation
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.	City Services	Oversees the effective, efficient, fair, and safe enforcement of the California Building Code
Engineers, construction project managers, and supporting technical staff.	City Services	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.	City Services	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	City Services	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 plan participant or tribal area.

**Table K-7. City of Lindsay, 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>
Emergency Manager	Public Safety	Maintains and updates the Emergency Operations Plan for the plan participant. 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 plan participant's Procurement Services Manager.



**Table K-8. City of Lindsay, 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 plan participant's general governmental purposes.	Variable.
	Public-Private Partnerships	Community Development	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 K-8. City of Lindsay, 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.
	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 K-8. City of Lindsay, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
Federal (cont)	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-9. City of Lindsay, Legal and Regulatory Resources for Hazard Mitigation**

Regulatory Tool	Name	Description (Effect on Hazard Mitigation)	Hazards Addressed	Mitigation, Preparedness, Response, or Recovery	Affects Development in Hazard Areas?
<b>Plans</b>	General Plan: Safety Element (1989)	Describes hazard areas and regulates current and future development based on known hazard areas.	<ul style="list-style-type: none"> <li>▪ Seismic Safety</li> <li>▪ Structural</li> <li>▪ Fire Prevention</li> </ul>	Mitigation & Preparedness	Yes
	Stormwater Quality Management Program (SWQMP) (1976)	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.	<ul style="list-style-type: none"> <li>▪ Stormwater</li> </ul>	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.	<ul style="list-style-type: none"> <li>▪ Water Quality</li> <li>▪ Public Health</li> <li>▪ Public Safety</li> <li>▪ Building Construction</li> <li>▪ Unreinforced Masonry Structures</li> <li>▪ Pests</li> <li>▪ Flooding</li> <li>▪ Environmental Quality</li> </ul>	Mitigation, Preparedness, and Response	Yes

**Table K-10. City of Lindsay, 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>
None	Not Applicable	Not Applicable	Not Applicable

**Table K-11. City of Lindsay, 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 of residential and/or non-residential structures in hazard areas, such high and/or very high wildfire areas.	Property Protection	All	New and Existing – Residential and non-residential buildings in hazard areas.
2	Integrate the Tulare County 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	Not applicable.
3	Seismically retrofit or replace public works and/or emergency response facilities that are necessary during and/or immediately after a disaster or emergency.	Property Protection, Structural Project	Earthquake	Existing – Public works and/or emergency response facilities that are structurally deficient or located within a high ground shaking area.
4	Seismically retrofit or replace 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 and/or immediate after a disaster or emergency.	Property Protection, Structural Project	Earthquake	Existing – Ramps and bridges identified by Caltrans as structurally deficient or located within an extreme ground shaking area.
5	Develop a public outreach program that informs property owners located in the dam or levee inundation areas about voluntary flood insurance.	Public Outreach	Flood (Dam and Levee Failure)	Existing – Residential buildings located within dam or levee inundation areas.
6	Create a database that accounts for all levees in Tulare County and their condition.	All	Flood (Levee Failure)	Not applicable.
7	Acquire, relocate, or elevate residential structures, in particular those that have been identified as Repetitive Loss (RL) properties that are located within the 100-year floodplain.	Property Protection	Flood (Riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
8	Acquire, relocate, elevate, and/or floodproof critical facilities that are located within the 100-year floodplain.	Property Protection	Flood (Riverine)	Existing - Critical facilities located within the 100-year floodplain.

**Table K-11. City of Lindsay, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
9	Reinforce County and local ramps, bridges, and roads from flooding through protection activities, including elevating the road and installing culverts beneath the road or building a higher bridge across the area that experiences regular flooding.	Property Protection, Structural Project	Flood (Riverine)	Existing – County and local ramps, bridges, and roads identified in the 100-year floodplain.
10	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide Digital Flood Insurance Rate Map (DFIRM), Community Assessment Visits, and/or the Department of Water Resources (DWR).	All	Flood (Riverine)	New/Existing -Properties within the 100-year or 500-year floodplain.
11	Increase participation in the National Flood Insurance Program (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	Flood (Riverine)	New/Existing –County and incorporated communities that have RL properties.
12	Continue to work with weather forecasting and public safety agencies to provide warning and protective information to residents, travelers, and visitors about severe valley fog conditions*.	Prevention	Fog	Not applicable.
13	Implement post-fire debris flow hill-slope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-Fire Debris Flow	Existing – Public works facilities.
14	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	Existing – Critical facilities located in areas that experience severe wind.
15	Develop a free annual tree chipping and tree pick-up day that encourages residents living in wind hazard areas to manage trees and shrubs at risk to falling on nearby structures.	Property Protection	Severe Winter Storm	Existing – Residential buildings that experience severe wind.

**Table K-11. City of Lindsay, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
16	Bolt down the roofs of critical facilities in wind gust hazard areas in order to prevent wind damage.	Property Protection	Severe Winter Storm	Existing – Critical facilities located in areas that experience wind gusts.
17	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 high and very high wildfire zones.	Prevention, Property Protection, Natural Resource Protection	Wildfire	Existing – Critical facilities and residential buildings located within high and very high wildfire zones.
18	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 from around their homes.	Property Protection	Wildfire	Existing – Residential buildings in high or very high wildfire zones.
19	Develop a community wildfire mitigation plan that identifies and prioritizes areas for hazard fuel reduction treatments, and recommend the types of methods of treatments.	Prevention, Property Protection	Wildfires	New/ Existing – Residential and non-residential buildings located within high or very high wildfire areas in the Local Responsibility Areas
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 – Residential and non-residential buildings located within high or very high wildfire areas.

\* Mitigation action does not meet the 2011 HMA Guidance requirements for FEMA mitigation funding



**Table K-12. City of Lindsay, Mitigation Action Plan**

No.	Selected (Y/N)	Description	Prioritization Criteria	Facility to be Mitigated (if known)	Department or Agency	Timeframe to be Implemented
3	Y	Seismically retrofit or replace public works and/or emergency response facilities that are necessary during and/or immediately after a disaster or emergency.	A,D,E	Public Safety Building	Police/Fire	3 years
15	Y	Develop a free annual tree chipping and tree pick-up day that encourages residents living in wind hazard areas to manage trees and shrubs at risk at risk to falling on nearby structures.	A,C,E	Not Applicable	Public Works	3 Years
16	Y	Bolt down the roofs of critical facilities in wind gust hazard areas in order to prevent wind damage.	A,C,E	Unknown	Public Works	3Years

**Prioritization Criteria**

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>A. A local jurisdiction department or agency champion currently exists or can be identified</li> <li>B. The action can be implemented during the 5-year lifespan of the HMP</li> </ul> | <ul style="list-style-type: none"> <li>C. The action may reduce expected future damages and losses (cost-benefit)</li> <li>D. The action mitigates a high-risk hazard</li> <li>E. The action mitigates multiple hazards</li> </ul> |
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**Appendix L**  
**City of Porterville**

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**Table L-1. City of Porterville, Total Population and Residential Buildings**

<b>Population</b>	<b>Residential Buildings</b>	<b>Total Residential Building Value(2000)</b>
53,010	16,532	\$1,233,955,600

(Average structural value of residences in Census blocks for the year 2000: \$90,745)

Source: U.S. Census Bureau, 2000, California Department of Finance, 2010

**Table L-2. City of Porterville, Total Critical Facilities and Infrastructure**

Category	Name	Address	Value
Community	Centennial Plaza Park	Main & Thurman	Unknown
Community	City Pool	97 North Park Drive	Unknown
Community	Lions Mini Park	Between E & F Streets on West Orange	Unknown
Community	Municipal Golf Course	702 E. Isham Avenue	Unknown
Community	Murry Park	500 E. Putnam	Unknown
Community	North Park	765 N. Main	Unknown
Community	OHV Park	2701 W. Scranton Avenue	Unknown
Community	Tule River Parkway	Indiana and Parkway Drive	Unknown
Community	Veterans Park/Skate Park	1501 W. Henderson Avenue	Unknown
Community	Zalud House Historical Site	393 N. Hockett St.	Unknown
Community	Zalud Park	700 N. El Granito	Unknown
Emergency Response	City Police Department	350 North D Street	Unknown
Emergency Response	Porterville Fire Station #1	40 W. Cleveland	Unknown
Emergency Response	Porterville Fire Station #2	500 N. Newcomb	Unknown
Government	City Corp Yard	555 N. Prospect Street	Unknown
Government	City Hall	291 N. Main Street	Unknown
Government	City Library	41 W. Thurman Avenue	Unknown
Government	Heritage Center - Youth Center	256 E. Orange Avenue	Unknown
Government	Government Plaza South - Porterville District Office	1055 W. Henderson Avenue	Unknown
Health	Sierra View District Hospital	465 W. Putnam Avenue	Unknown
Public Works/Utility	City of Porterville	Porterville Waste Water Treatment Facility	Unknown
Transportation	City Bridge #1	0.1 mi N of E Olive St	Unknown
Transportation	City Bridge #10	0.5 mi N SR 190	Unknown
Transportation	City Bridge #11	0.4 mi N SR 190	Unknown

**Table L-2. City of Porterville, Total Critical Facilities and Infrastructure**

Category	Name	Address	Value
Transportation	City Bridge #12	0.4 mi N SR190 @ Corona Drive	Unknown
Transportation	City Bridge #13	3 mi N SR190 @ Success Drive	Unknown
Transportation	City Bridge #14	Latitude and Longitude	Unknown
Transportation	City Bridge #15	0.2 mi E SR 65	Unknown
Transportation	City Bridge #16	0.3 mi N of SR 190	Unknown
Transportation	City Bridge #2	0.4 mi N of SR 190	Unknown
Transportation	City Bridge #3	0.6 mi N of SR 190	Unknown
Transportation	City Bridge #4	0.4 mi N of SR 190	Unknown
Transportation	City Bridge #5	0.1 mi S of Morton Avenue	Unknown
Transportation	City Bridge #6	0.1 mi N of Ave160	Unknown
Transportation	City Bridge #7	At Morton Avenue	Unknown
Transportation	City Bridge #8	Latitude and Longitude	Unknown
Transportation	City Bridge #9	Latitude and Longitude	Unknown
Transportation	Porterville Municipal Airport	1893 S. Newcomb Street	Unknown
Transportation	Transit Center	61 W. Oak	Unknown

**Table L-3. City of Porterville, Vulnerable Population and Residential Buildings**

Hazard	Population	Residential buildings	Total Residential Building Value
Earthquake - Moderate Groundshaking	53,010	16,532	\$1,233,955,600
Flood - 100 Year Floodplain	3,653	1,071	\$67,004,408
Flood - 500 Year Floodplain	9,593	3,031	\$239,398,716
Flood - Dam Failure, Success Dam	44,866	14,308	\$1,081,489,407
Fog <sup>+</sup>	53,010	16,532	\$1,233,955,600
Wildfire - High	33	12	\$1,134,520
Wildfire - Moderate	238	75	\$6,093,903

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.



**Table L-4. City of Porterville, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Community	Centennial Plaza Park	Main & Thurman	Unknown
Earthquake - Moderate Groundshaking	Community	City Pool	97 North Park Drive	Unknown
Earthquake - Moderate Groundshaking	Community	Lions Mini Park	Between E & F Streets on West Orange	Unknown
Earthquake - Moderate Groundshaking	Community	Municipal Golf Course	702 E. Isham Avenue	Unknown
Earthquake - Moderate Groundshaking	Community	Murry Park	500 E. Putnam	Unknown
Earthquake - Moderate Groundshaking	Community	North Park	765 N. Main	Unknown
Earthquake - Moderate Groundshaking	Community	OHV Park	2701 W. Scranton Avenue	Unknown
Earthquake - Moderate Groundshaking	Community	Tule River Parkway	Indiana and Parkway Drive	Unknown
Earthquake - Moderate Groundshaking	Community	Veterans Park/Skate Park	1501 W. Henderson Avenue	Unknown
Earthquake - Moderate Groundshaking	Community	Zalud House Historical Site	393 N. Hockett St.	Unknown
Earthquake - Moderate Groundshaking	Community	Zalud Park	700 N. El Granito	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	City Police Department	350 North D Street	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Porterville Fire Station #1	40 W. Cleveland	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Porterville Fire Station #2	500 N. Newcomb	Unknown
Earthquake - Moderate Groundshaking	Government	City Corp Yard	555 N. Prospect Street	Unknown

**Table L-4. City of Porterville, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Government	City Hall	291 N. Main Street	Unknown
Earthquake - Moderate Groundshaking	Government	City Library	41 W. Thurman Avenue	Unknown
Earthquake - Moderate Groundshaking	Government	Government Plaza South - Porterville District Office	1055 W. Henderson Avenue	Unknown
Earthquake - Moderate Groundshaking	Government	Heritage Center - Youth Center	256 E. Orange Avenue	Unknown
Earthquake - Moderate Groundshaking	Health	Sierra View District Hospital	465 W. Putnam Avenue	Unknown
Earthquake - Moderate Groundshaking	Public Works/Utility	Porterville Waste Water Treatment Facility	555 North Prospect	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #1	0.1 mi N of E Olive St	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #10	0.5 mi N SR 190	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #11	0.4 mi N of SR 190	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #12	0.4 mi N SR190 @ Corona Drive	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #13	.3 mi N SR190 @ Success Drive	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #14	Latitude and Longitude	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #15	0.2 mi E SR 65	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #16	0.3 mi N of SR 190	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #2	0.4 mi N of SR 190	Unknown

**Table L-4. City of Porterville, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Transportation	City Bridge #3	0.6 mi N of SR 190	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #4	0.4 mi N of SR 190	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #5	0.1 mi S of Morton Avenue	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #6	0.1 mi N of Avenue 160	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #7	At Morton Avenue	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #8	Latitude and Longitude	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #9	Latitude and Longitude	Unknown
Earthquake - Moderate Groundshaking	Transportation	Porterville Municipal Airport	1893 S. Newcomb Street	Unknown
Earthquake - Moderate Groundshaking	Transportation	Transit Center	61 W. Oak	Unknown
Flood - 100 Year Floodplain	Community	City Pool	97 North Park Drive	Unknown
Flood - 100 Year Floodplain	Community	Zalud Park	700 N. El Granito	Unknown
Flood - 100 Year Floodplain	Transportation	City Bridge #2	0.4 mi N of SR 190	Unknown
Flood - 100 Year Floodplain	Transportation	City Bridge #4	0.4 mi N of SR 190	Unknown
Flood - 500 Year Floodplain	Community	Tule River Parkway	Indiana and Parkway Drive	Unknown
Flood - 500 Year Floodplain	Transportation	City Bridge #16	0.3 mi N of SR 190	Unknown
Flood - 500 Year Floodplain	Transportation	City Bridge #3	0.6 mi N of SR 190	Unknown
Flood - Dam Failure, Success Dam	Community	Centennial Plaza Park	Main & Thurman	Unknown
Flood - Dam Failure, Success Dam	Community	Lions Mini Park	Between E & F Streets on West Orange	Unknown

**Table L-4. City of Porterville, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Success Dam	Community	Municipal Golf Course	702 E. Isham Avenue	Unknown
Flood - Dam Failure, Success Dam	Community	OHV Park	2701 W. Scranton Avenue	Unknown
Flood - Dam Failure, Success Dam	Community	Tule River Parkway	Indiana and Parkway Drive	Unknown
Flood - Dam Failure, Success Dam	Community	Veterans Park/Skate Park	1501 W. Henderson Avenue	Unknown
Flood - Dam Failure, Success Dam	Community	Zalud House Historical Site	393 N. Hockett St.	Unknown
Flood - Dam Failure, Success Dam	Community	Zalud Park	700 N. El Granito	Unknown
Flood - Dam Failure, Success Dam	Emergency Response	City Police Department	350 North D Street	Unknown
Flood - Dam Failure, Success Dam	Emergency Response	Porterville Fire Station #1	40 W. Cleveland	Unknown
Flood - Dam Failure, Success Dam	Emergency Response	Porterville Fire Station #2	500 N. Newcomb	Unknown
Flood - Dam Failure, Success Dam	Government	City Corp Yard	555 N. Prospect Street	Unknown
Flood - Dam Failure, Success Dam	Government	City Hall	291 N. Main Street	Unknown
Flood - Dam Failure, Success Dam	Government	City Library	41 W. Thurman Avenue	Unknown
Flood - Dam Failure, Success Dam	Government	Government Plaza South - Porterville District Office	1055 W. Henderson Avenue	Unknown
Flood - Dam Failure, Success Dam	Government	Heritage Center - Youth Center	256 E. Orange Avenue	Unknown
Flood - Dam Failure, Success Dam	Health	Sierra View District Hospital	465 W. Putnam Avenue	Unknown
Flood - Dam Failure, Success Dam	Public Works/Utility	Porterville Waste Water Treatment Facility	555 North Prospect	Unknown
Flood - Dam Failure, Success Dam	Transportation	City Bridge #1	0.1 mi N of E Olive St	Unknown
Flood - Dam Failure, Success Dam	Transportation	City Bridge #10	0.5 mi N SR 190	Unknown
Flood - Dam Failure, Success Dam	Transportation	City Bridge #11	0.4 mi N of SR 190	Unknown
Flood - Dam Failure, Success Dam	Transportation	City Bridge #12	0.4 mi N SR190 @ Corona Drive	Unknown
Flood - Dam Failure, Success Dam	Transportation	City Bridge #13	.3 mi N SR190 @ Success Drive	Unknown
Flood - Dam Failure, Success Dam	Transportation	City Bridge #14	Latitude and Longitude	Unknown
Flood - Dam Failure, Success Dam	Transportation	City Bridge #15	0.2 mi E SR 65	Unknown

**Table L-4. City of Porterville, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Success Dam	Transportation	City Bridge #16	0.3 mi N of SR 190	Unknown
Flood - Dam Failure, Success Dam	Transportation	City Bridge #2	0.4 mi N of SR 190	Unknown
Flood - Dam Failure, Success Dam	Transportation	City Bridge #3	0.6 mi N of SR 190	Unknown
Flood - Dam Failure, Success Dam	Transportation	City Bridge #4	0.4 mi N of SR 190	Unknown
Flood - Dam Failure, Success Dam	Transportation	City Bridge #5	0.1 mi S of Morton Avenue	Unknown
Flood - Dam Failure, Success Dam	Transportation	City Bridge #6	0.1 mi N OF Avenue 160	Unknown
Flood - Dam Failure, Success Dam	Transportation	City Bridge #7	At Morton Avenue	Unknown
Flood - Dam Failure, Success Dam	Transportation	City Bridge #8	Latitude and Longitude	Unknown
Flood - Dam Failure, Success Dam	Transportation	City Bridge #9	Latitude and Longitude	Unknown
Flood - Dam Failure, Success Dam	Transportation	Porterville Municipal Airport	1893 S. Newcomb Street	Unknown
Flood - Dam Failure, Success Dam	Transportation	Transit Center	61 W. Oak	Unknown
Fog <sup>+</sup>	Community	Centennial Plaza Park	Main & Thurman	Unknown
Fog <sup>+</sup>	Community	City Pool	97 North Park Drive	Unknown
Fog <sup>+</sup>	Community	Lions Mini Park	Between E & F Streets on West Orange	Unknown
Fog <sup>+</sup>	Community	Municipal Golf Course	702 E. Isham Avenue	Unknown
Fog <sup>+</sup>	Community	Murry Park	500 E. Putnam	Unknown
Fog <sup>+</sup>	Community	North Park	765 N. Main	Unknown
Fog <sup>+</sup>	Community	OHV Park	2701 W. Scranton Avenue	Unknown
Fog <sup>+</sup>	Community	Tule River Parkway	Indiana and Parkway Drive	Unknown
Fog <sup>+</sup>	Community	Veterans Park/Skate Park	1501 W. Henderson Avenue	Unknown
Fog <sup>+</sup>	Community	Zalud House Historical Site	393 N. Hockett St.	Unknown
Fog <sup>+</sup>	Community	Zalud Park	700 N. El Granito	Unknown
Fog <sup>+</sup>	Emergency Response	City Police Department	350 North D Street	Unknown
Fog <sup>+</sup>	Emergency Response	Porterville Fire Station #1	40 W. Cleveland	Unknown

**Table L-4. City of Porterville, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Fog <sup>+</sup>	Emergency Response	Porterville Fire Station #2	500 N. Newcomb	Unknown
Fog <sup>+</sup>	Government	City Corp Yard	555 N. Prospect Street	Unknown
Fog <sup>+</sup>	Government	City Hall	291 N. Main Street	Unknown
Fog <sup>+</sup>	Government	City Library	41 W. Thurman Avenue	Unknown
Fog <sup>+</sup>	Government	Government Plaza South - Porterville District Office	1055 W. Henderson Avenue	Unknown
Fog <sup>+</sup>	Government	Heritage Center - Youth Center	256 E. Orange Avenue	Unknown
Fog <sup>+</sup>	Health	Sierra View District Hospital	465 W. Putnam Avenue	Unknown
Fog <sup>+</sup>	Public Works/Utility	Porterville Waste Water Treatment Facility	555 North Prospect	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #1	0.1 mi N of E Olive St	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #10	0.5 mi N SR 190	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #11	0.5 mi N SR 190	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #12	0.4 mi N SR190 @ Corona Drive	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #13	.3 mi N SR190 @ Success Drive	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #14	Latitude and Longitude	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #15	0.2 mi E SR 65	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #16	0.3 mi N of SR 190	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #2	0.4 mi N of SR 190	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #3	0.6 mi N of SR 190	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #4	0.4 mi N of SR 190	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #5	0.1 mi S of Morton Avenue	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #6	0.1 mi N of Avenue 160	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #7	At Morton Avenue	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #8	Latitude and Longitude	Unknown

**Table L-4. City of Porterville, Vulnerable Critical Facilities and Infrastructure**

Hazard	Category	Name	Address	Value
Fog <sup>+</sup>	Transportation	City Bridge #9	Latitude and Longitude	Unknown
Fog <sup>+</sup>	Transportation	Porterville Municipal Airport	1893 S. Newcomb Street	Unknown
Fog <sup>+</sup>	Transportation	Transit Center	61 W. Oak	Unknown

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table L-5. City of Porterville, Summary of Impacts for Population and Residential Buildings**

Hazard	Population	% of Population	No. of Residential Buildings	% of Residential Buildings
Earthquake - Moderate Groundshaking	53,010	100%	16,532	100%
Flood - 100 Year Floodplain	3,653	7%	1,071	6%
Flood - 500 Year Floodplain	9,593	18%	3,031	18%
Flood - Dam Failure, Success Dam	44,866	85%	14,308	87%
Fog <sup>+</sup>	53,010	100%	16,532	100%
Wildfire - High	33	0.1%	12	0.1%
Wildfire - Moderate	238	0.4%	75	0.5%

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.



**Table L-6. City of Porterville, Summary of Impacts for Critical Facilities and Infrastructure**

Hazard	No. of Critical Facilities and Infrastructure	% of Critical Facilities and Infrastructure
Earthquake - Moderate Groundshaking	39	100%
Flood - 100 Year Floodplain	4	10%
Flood - 500 Year Floodplain	3	8%
Flood - Dam Failure, Success Dam	36	92%
Fog <sup>+</sup>	39	100%

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table L-7. City of Porterville, Human and Technical Resources for Hazard Mitigation**

Staff/Personnel Resources	Department or Agency	Principal Activities Related to Hazard Mitigation
Planner(s), engineer(s) and technical staff with knowledge of land development, land management practices, and human-caused and natural hazards.	Community Development Department	<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 Department	Oversees the effective, efficient, fair, and safe enforcement of the California Building Code
Engineers, construction project managers, and supporting technical staff.	Public Works Department	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.
Floodplain Administrator	Public Works 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 plan participant or tribal area.

**Table L-7. City of Porterville, Human and Technical Resources for Hazard Mitigation**

Staff/Personnel Resources	Department or Agency	Principal Activities Related to Hazard Mitigation
Emergency Manager	Fire Department (1 <sup>st</sup> ), Police Department (2 <sup>nd</sup> )	Maintains and updates the Emergency Operations Plan for the plan participant. 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 Director	Provides a full range of municipal financial services, administers several licensing measures, and functions as the plan participant's Procurement Services Manager.

**Table L-8. City of Porterville, 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 plan participant'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.
	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 L-8. City of Porterville, 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.
	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 L-8. City of Porterville, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<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 L-9. City of Porterville, Legal and Regulatory Resources for Hazard Mitigation**

Regulatory Tool	Name	Description (Effect on Hazard Mitigation)	Hazards Addressed	Mitigation, Preparedness, Response, or Recovery	Affects Development in Hazard Areas?
<b>Plans</b>	General Plan: Safety Element (2008)	Describes hazard areas and regulates current and future development based on known hazard areas.	<ul style="list-style-type: none"> <li>▪ Seismic &amp; Geologic Hazards</li> <li>▪ Flooding</li> <li>▪ Fire</li> <li>▪ Hazardous Materials</li> </ul>	Mitigation & Preparedness	Yes
	Emergency Operations Plan (2004)	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.	<ul style="list-style-type: none"> <li>▪ Seismic Hazards</li> <li>▪ Extreme Weather Conditions</li> <li>▪ Landslides</li> <li>▪ Dam Failure and Other Flooding</li> <li>▪ Wildland Fires</li> <li>▪ Hazardous Materials Incidents</li> <li>▪ Transportation Emergencies</li> <li>▪ Civil Disturbance and Terrorist Attacks</li> </ul>	Response	No

**Table L-9. City of Porterville, Legal and Regulatory Resources for Hazard Mitigation**

Regulatory Tool	Name	Description (Effect on Hazard Mitigation)	Hazards Addressed	Mitigation, Preparedness, Response, or Recovery	Affects Development in Hazard Areas?
<b>Plans (cont)</b>	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.	<ul style="list-style-type: none"> <li>▪ Stormwater</li> </ul>	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.	<ul style="list-style-type: none"> <li>▪ Fire</li> <li>▪ Seismic</li> <li>▪ Flooding</li> </ul>	Mitigation, Preparedness, and Response	Yes



**Table L-10. City of Porterville, 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>
None	Not Applicable	Not Applicable	Not Applicable

**Table L-11. City of Porterville, 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 of residential and/or non-residential structures in hazard areas, such high and/or very high wildfire areas.	Property Protection	All	New and Existing – Residential and non-residential buildings in hazard areas.
2	Integrate the Tulare County 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	Not applicable.
3	Seismically retrofit or replace public works and/or emergency response facilities that are necessary during and/or immediately after a disaster or emergency.	Property Protection, Structural Project	Earthquake	Existing – Public works and/or emergency response facilities that are structurally deficient or located within a high ground shaking area.
4	Seismically retrofit or replace 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 and/or immediate after a disaster or emergency.	Property Protection, Structural Project	Earthquake	Existing – Ramps and bridges identified by Caltrans as structurally deficient or located within an extreme ground shaking area.
5	Develop a public outreach program that informs property owners located in the dam or levee inundation areas about voluntary flood insurance.	Public Outreach	Flood (Dam and Levee Failure)	Existing – Residential buildings located within dam or levee inundation areas.
6	Create a database that accounts for all levees in Tulare County and their condition.	All	Flood (Levee Failure)	Not applicable.
7	Acquire, relocate, or elevate residential structures, in particular those that have been identified as Repetitive Loss (RL) properties that are located within the 100-year floodplain.	Property Protection	Flood (Riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
8	Acquire, relocate, elevate, and/or floodproof critical facilities that are located within the 100-year floodplain.	Property Protection	Flood (Riverine)	Existing - Critical facilities located within the 100-year floodplain.

**Table L-11. City of Porterville, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
9	Reinforce County and local ramps, bridges, and roads from flooding through protection activities, including elevating the road and installing culverts beneath the road or building a higher bridge across the area that experiences regular flooding.	Property Protection, Structural Project	Flood (Riverine)	Existing – County and local ramps, bridges, and roads identified in the 100-year floodplain.
10	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide Digital Flood Insurance Rate Map (DFIRM), Community Assessment Visits, and/or the Department of Water Resources (DWR).	All	Flood (Riverine)	New/Existing -Properties within the 100-year or 500-year floodplain.
11	Increase participation in the National Flood Insurance Program (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	Flood (Riverine)	New/Existing –County and incorporated communities that have RL properties.
12	Continue to work with weather forecasting and public safety agencies to provide warning and protective information to residents, travelers, and visitors about severe valley fog conditions*.	Prevention	Fog	Not applicable.
13	Implement post-fire debris flow hill-slope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-Fire Debris Flow	Existing – Public works facilities.
14	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	Existing – Critical facilities located in areas that experience severe wind.
15	Develop a free annual tree chipping and tree pick-up day that encourages residents living in wind hazard areas to manage trees and shrubs at risk to falling on nearby structures.	Property Protection	Severe Winter Storm	Existing – Residential buildings that experience severe wind.

**Table L-11. City of Porterville, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
16	Bolt down the roofs of critical facilities in wind gust hazard areas in order to prevent wind damage.	Property Protection	Severe Winter Storm	Existing – Critical facilities located in areas that experience wind gusts.
17	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 high and very high wildfire zones.	Prevention, Property Protection, Natural Resource Protection	Wildfire	Existing – Critical facilities and residential buildings located within high and very high wildfire zones.
18	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 from around their homes.	Property Protection	Wildfire	Existing – Residential buildings in high or very high wildfire zones.
19	Develop a community wildfire mitigation plan that identifies and prioritizes areas for hazard fuel reduction treatments, and recommend the types of methods of treatments.	Prevention, Property Protection	Wildfires	New/ Existing – Residential and non-residential buildings located within high or very high wildfire areas in the Local Responsibility Areas
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 – Residential and non-residential buildings located within high or very high wildfire areas.

\* Mitigation action does not meet the 2011 HMA Guidance requirements for FEMA mitigation funding

**Table L-12. City of Porterville, Mitigation Action Plan**

No.	Selected (Y/N)	Description	Prioritization Criteria	Facility to be Mitigated (if known)	Department or Agency	Timeframe to be Implemented
10	Y	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.	A, B, C, D	Unknown	Public Works	30 Months
11	Y	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.	A, B, C, D, E	Unknown	Public Works	30 Months

**Prioritization Criteria**

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>A. A local jurisdiction department or agency champion currently exists or can be identified</li> <li>B. The action can be implemented during the 5-year lifespan of the HMP</li> </ul> | <ul style="list-style-type: none"> <li>C. The action may reduce expected future damages and losses (cost-benefit)</li> <li>D. The action mitigates a high-risk hazard</li> <li>E. The action mitigates multiple hazards</li> </ul> |
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**Appendix M**  
**City of Tulare**

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**Table M-1. City of Tulare, Total Population and Residential Buildings**

<b>Population</b>	<b>Residential Buildings</b>	<b>Total Residential Building Value(2000)</b>
59,394	18,804	\$1,359,470,400

(Average structural value of residences in Census blocks for the year 2000: \$96,841)

Source: U.S. Census Bureau, 2000, California Department of Finance, 2010

**Table M-2. City of Tulare, Total Critical Facilities and Infrastructure**

Category	Name	Address	Value
Community	Activity Center Building/Community Center Building	830 Blackstone	\$2,772,118
Community	Alice Topham Park	85 W. Tulare Avenue	Unknown
Community	Bender Park	1855 W. Pleasant Avenue	Unknown
Community	Blain Park	2300 North M Street	Unknown
Community	Centennial Park	900 North H Street	Unknown
Community	Cesar Chavez Memorial Park	900 E. Bardsley Avenue	Unknown
Community	Cypress Park	1610 E. Cypress	Unknown
Community	Del Lago Park	1700 N. Laspina	Unknown
Community	Live Oak Park	600 N. Laspina	Unknown
Community	Parkwood Meadows Park	Oakwood and E Street	Unknown
Community	Prosperity Sports Park Clubhouse/Restrooms	846 W. Prosperity	\$817,303
Community	Recreation Center-Tulare Youth Community	948 North H St.	\$4,136,152
Community	Senior Center Building	201 North F St.	\$1,712,123
Community	Soccer Complex Concession & Restroom	5700 S. Laspina	\$147,272
Community	Tyler Park	140 North E Street	Unknown
Community	Woman's Clubhouse	88 West Tulare	\$865,259
Community	Zumwalt Park	400 E. Tulare Avenue	Unknown
Emergency Response	Fire Station #61	800 S. Blackstone St.	\$1,284,296
Emergency Response	Fire Station #62	138 North E St.	\$404,189
Emergency Response	Fire Station #63	2900 North M St.	\$1,126,744
Emergency Response	Hillman Healthcare Center	1062 S. K St.	Unknown
Emergency Response	Police Station and HVAC	260 South M St.	\$2,998,105
Emergency Response	Tulare Station #3	Cartmill/M St	Unknown
Government	City Hall	411 Kern Avenue	\$7,436,999

**Table M-2. City of Tulare, Total Critical Facilities and Infrastructure**

Category	Name	Address	Value
Government	Public Works	3981 South K Street	Unknown
Government	Tulare Public Library, Café, City Council Chamber	475 North M St.	\$14,117,273
Health	Tulare Regional Medical Center	869 N. Cherry St.	Unknown
Public Works/Utilities	Lift Station	Alpine & Spruce	\$102,982
Public Works/Utilities	Lift Station	Beaumont & Lamar	\$106,023
Public Works/Utilities	Lift Station	Cross & West	\$100,999
Public Works/Utilities	Lift Station	F St. & Pleasant	\$106,023
Public Works/Utilities	Lift Station	Inyo & West	\$99,933
Public Works/Utilities	Lift Station	J St. & Mitchell	\$90,778
Public Works/Utilities	Lift Station	K St. & Goodin	\$110,895
Public Works/Utilities	Lift Station	Kraft & South USA	\$113,013
Public Works/Utilities	Lift Station	M St. & Prosperity	\$111,513
Public Works/Utilities	Lift Station	M St. & Washington	\$98,877
Public Works/Utilities	Lift Station	Merrit & Cherry	\$109,026
Public Works/Utilities	Lift Station	Mooney & Foster	\$109,948
Public Works/Utilities	Lift Station	Mt. Melvin & Academy	\$106,023
Public Works/Utilities	Lift Station	Retherford Drive & Hillman	\$109,088
Public Works/Utilities	Lift Station	Sierra	\$109,060
Public Works/Utilities	Lift Station	West & Pleasant	\$105,868
Public Works/Utilities	Lift Station	West & Sonora	\$100,959
Public Works/Utilities	Waste Lift Station-Del Lago Station Dry Well and Wet Well	Pasel Del Lago	\$289,366
Public Works/Utilities	Wastewater Treatment Plant, Pump Stations, Water Well, Headwork, and Splitter Box	1875 South West St.	\$62,881,871

**Table M-2. City of Tulare, Total Critical Facilities and Infrastructure**

Category	Name	Address	Value
Public Works/Utilities	Well	1301 East Paige	\$47,828
Public Works/Utilities	Well	2100 W Paige Avenue	\$62,120
Public Works/Utilities	Well # 1	C Street & San Joaquin	\$183,848
Public Works/Utilities	Well # 11	Sonora & U Street	\$228,119
Public Works/Utilities	Well # 12	Pleasant & I Street	\$221,495
Public Works/Utilities	Well # 13	Laspina & Kern	\$144,969
Public Works/Utilities	Well # 14	Olson west of So. "K" St	\$132,340
Public Works/Utilities	Well # 15	Cross west of Mooney	\$162,636
Public Works/Utilities	Well # 17	Continental & O Street	\$255,836
Public Works/Utilities	Well # 2	T Street & Sonora	\$119,223
Public Works/Utilities	Well # 20	Gem, north of Gail	\$69,533
Public Works/Utilities	Well # 22	Cherry St south of Prosperity	\$257,654
Public Works/Utilities	Well # 23	963 Cardoza	\$82,043
Public Works/Utilities	Well # 24	Laspina & Levin	\$108,434
Public Works/Utilities	Well # 25	Hwy 99 & Frontage(Kraft Plant)	\$209,485
Public Works/Utilities	Well # 26	Pleasant & Denair	\$366,530
Public Works/Utilities	Well # 27	Blain Park	\$239,632
Public Works/Utilities	Well # 31	Syrah west of Riesling	\$241,348
Public Works/Utilities	Well # 33	Gemini & Sonora	\$342,309
Public Works/Utilities	Well # 34	Cross & Delwood	\$144,237
Public Works/Utilities	Well # 35	Bardsley & Mooney	\$313,078
Public Works/Utilities	Well # 36	2690 Korbel Court	\$424,561
Public Works/Utilities	Well # 37	2315 Ship Rock	\$227,695
Public Works/Utilities	Well # 38	510 N Laspina/Santa Fe Trail	\$227,695

**Table M-2. City of Tulare, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Public Works/Utilities	Well # 39	1800 blk N Laspina/Corvina	\$241,100
Public Works/Utilities	Well # 40	2200 blk S "E" St/Lemwood	\$326,654
Public Works/Utilities	Well # 41	W.P.C.F. 2000 blk W Paige	\$311,226
Public Works/Utilities	Well # 42	6096 Leonard Noell / airport	\$305,867
Public Works/Utilities	Well # 43 and # 44	COS College Farm/Campus	Unknown
Public Works/Utilities	Well # 6	I Street & Inyo	\$170,359
Public Works/Utilities	Well # 8	O Street & Kern	\$130,059
Transportation	City Bridge #1	At Paige Avenue	Unknown
Transportation	City Bridge #2	At Paige Avenue	Unknown
Transportation	City Bridge #3	0.25 mi N of Paige Avenue	Unknown
Transportation	City Bridge #4	At Mooney Blvd	Unknown
Transportation	City Bridge #5	North of D109A	Unknown
Transportation	Transit Center Building	360 North K St.	\$241,730
Transportation	Tulare Municipal Airport	Rankin Avenue	Unknown

**Table M-3. City of Tulare, Vulnerable Population and Residential Buildings**

<b>Hazard</b>	<b>Population</b>	<b>Residential buildings</b>	<b>Total Residential Building Value</b>
Earthquake - Moderate Groundshaking	59,394	18,804	\$1,359,470,399
Flood - 100 Year Floodplain	83	31	\$1,527,227
Flood - 500 Year Floodplain	662	259	\$15,127,074
Flood - Dam Failure, Terminus Dam	17,034	5,464	\$383,913,746
Fog <sup>+</sup>	59,394	18,804	\$1,359,470,400
Wildfire - Moderate	44	28	\$2,936,544

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table M-4. City of Tulare, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Community	Activity Center Building/ Community Center Building	830 Blackstone	\$2,772,118
Earthquake - Moderate Groundshaking	Community	Alice Topham Park	85 W. Tulare Avenue	Unknown
Earthquake - Moderate Groundshaking	Community	Bender Park	1855 W. Pleasant Avenue	Unknown
Earthquake - Moderate Groundshaking	Community	Blain Park	2300 North M Street	Unknown
Earthquake - Moderate Groundshaking	Community	Centennial Park	900 North H Street	Unknown
Earthquake - Moderate Groundshaking	Community	Cesar Chavez Memorial Park	900 E. Bardsley Avenue	Unknown
Earthquake - Moderate Groundshaking	Community	Cypress Park	1610 E. Cypress	Unknown
Earthquake - Moderate Groundshaking	Community	Del Lago Park	1700 N. Laspina	Unknown
Earthquake - Moderate Groundshaking	Community	Live Oak Park	600 N. Laspina	Unknown
Earthquake - Moderate Groundshaking	Community	Parkwood Meadows Park	Oakwood and E Street	Unknown
Earthquake - Moderate Groundshaking	Community	Prosperity Sports Park Clubhouse/Restrooms	846 W. Prosperity	\$817,303
Earthquake - Moderate Groundshaking	Community	Recreation Center-Tulare Youth Community	948 North H St.	\$4,136,152
Earthquake - Moderate Groundshaking	Community	Senior Center Building	201 North F St.	\$1,712,123
Earthquake - Moderate Groundshaking	Community	Soccer Complex Concession & Restroom	5700 S. Laspina	\$147,272
Earthquake - Moderate Groundshaking	Community	Tyler Park	140 North E Street	Unknown

**Table M-4. City of Tulare, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Community	Woman's Clubhouse	88 West Tulare	\$865,259
Earthquake - Moderate Groundshaking	Community	Zumwalt Park	400 E. Tulare Avenue	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Fire Station #61	800 S. Blackstone St.	\$1,284,296
Earthquake - Moderate Groundshaking	Emergency Response	Fire Station #62	138 North E St.	\$404,189
Earthquake - Moderate Groundshaking	Emergency Response	Fire Station #63	2900 North M St.	\$1,126,744
Earthquake - Moderate Groundshaking	Emergency Response	Hillman Healthcare Center	1062 S. K St.	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Police Station and HVAC	260 South M St.	\$2,998,105
Earthquake - Moderate Groundshaking	Emergency Response	Tulare Station #3	Cartmill/M St	Unknown
Earthquake - Moderate Groundshaking	Government	City Hall	411 Kern Avenue	\$7,436,999
Earthquake - Moderate Groundshaking	Government	Public Works	3981 South K Street	Unknown
Earthquake - Moderate Groundshaking	Government	Tulare Public Library, Cafe, City Council Chamber	475 North M St.	\$14,117,273
Earthquake - Moderate Groundshaking	Health	Tulare Regional Medical Center	869 N. Cherry St	Unknown
Earthquake - Moderate Groundshaking	Public Works	Well # 40	South E St and Lemonwood Avenue	\$326,654
Earthquake - Moderate Groundshaking	Public Works	Well # 41	W.P.C.F. 2000 W Paige Avenue	\$311,226
Earthquake - Moderate Groundshaking	Public Works	Well # 42	6096 Leonard Noel Drive	\$305,867



**Table M-4. City of Tulare, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Public Works	Well # 43 and # 44	2245 South Linwood Street (COS Farm)	Unknown
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	K St. & Goodin	\$106,023
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Mooney & Foster	\$100,999
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	West & Sonora	\$100,999
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Alpine & Spruce	\$106,023
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Inyo & West	\$106,023
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Retherford Drive & Hillman	\$99,933
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	J St. & Mitchell	\$99,933
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Kraft & South USA	\$90,778
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Mt. Melvin & Academy	\$90,778
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Sierra	\$110,895
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Cross & West	\$110,895
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Beaumont & Lamar	\$110,895
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	West & Pleasant	\$110,895
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	F St. & Pleasant	\$113,013

**Table M-4. City of Tulare, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Merrit & Cherry	\$113,013
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	M St. & Prosperity	\$111,513
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	M St. & Washington	\$111,513
Earthquake - Moderate Groundshaking	Public Works/Utility	Waste Lift Station-Del Lago Station Dry Well and Wet Well	Pasel Del Lago	\$289,366
Earthquake - Moderate Groundshaking	Public Works/Utility	Wastewater Treatment Plant, Pump Stations, Water Well, Headwork, and Splitter Box	1875 South West St.	\$62,881,871
Earthquake - Moderate Groundshaking	Public Works/Utility	Well	1301 East Paige	\$47,828
Earthquake - Moderate Groundshaking	Public Works/Utility	Well	2100 W Paige Avenue	\$47,828
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 1	C Street	\$183,848
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 11	Sonora & U Street	\$228,119
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 12	Pleasant & I Street	\$221,495
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 13	Laspina & Kern	\$144,969
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 14	Olson & Sprr	\$132,340
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 15	Cross	\$162,636
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 17	Continental & O Street	\$255,836

**Table M-4. City of Tulare, Vulnerable Critical Facilities and Infrastructure**

Hazard	Category	Name	Address	Value
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 2	T Street & Sonora	\$119,223
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 20	Gem, N/O Gail	\$69,533
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 22	Cherry Street	\$257,654
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 23	963 Cardoza	\$82,043
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 24	Laspina & Levin	\$108,434
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 25	Hwy 99 & Frontage	\$209,485
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 26	Pleasant & Denair	\$366,530
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 27	Blain Park	\$239,632
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 31	North Hillman	\$241,348
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 33	Gemini & Sonora	\$42,309
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 34	Cross & Delwood	\$144,237
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 35	Bardsley & Mooney	\$313,078
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 36	2690 Korbel Court	\$424,561
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 37	E. Side Mooney/Tulare Avenue.	\$227,695
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 38	NE Corner Laspina/Santa Fe Trails	\$227,695

**Table M-4. City of Tulare, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 39	Mooney & Palm Ranch	\$241,100
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 6	I Street & Inyo	\$170,359
Earthquake - Moderate Groundshaking	Public Works/Utility	Well # 8	O Street & Kern	\$130,059
Earthquake - Moderate Groundshaking	Transportation	City Bridge #1	At Paige Avenue	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #2	At Paige Avenue	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #3	0.25 mi N Of Paige Avenue	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #4	At Mooney Blvd	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #5	North of D109A	Unknown
Earthquake - Moderate Groundshaking	Transportation	Transit Center Building	360 North K St.	\$241,730
Earthquake - Moderate Groundshaking	Transportation	Tulare Municipal Airport	Rankin Avenue	Unknown
Flood - 100 Year Floodplain	Transportation	City Bridge #5	North of D109A	Unknown
Flood - 100 Year Floodplain	Transportation	Tulare Municipal Airport	Rankin Avenue	Unknown
Flood - 500 Year Floodplain	Community	Soccer Complex Concession & Restroom	5700 S. Laspina	\$147,272
Flood - 500 Year Floodplain	Government	Public Works	3981 South K Street	Unknown
Flood - 500 Year Floodplain	Public Works	Well # 43 and # 44	2245 South Linwood Street (COS Farm)	Unknown
Flood - 500 Year Floodplain	Public Works/Utility	Lift Station	K St. & Goodin	\$98,877
Flood - 500 Year Floodplain	Public Works/Utility	Well	1301 East Paige	\$62,120

**Table M-4. City of Tulare, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Success Dam	Public Works	Well # 42	6096 Leonard Noel Drive	\$305,867
Flood - Dam Failure, Terminus Dam	Community	Activity Center Building/ Community Center Building	830 Blackstone	\$2,772,118
Flood - Dam Failure, Terminus Dam	Community	Cesar Chavez Memorial Park	900 E. Bardsley Avenue	Unknown
Flood - Dam Failure, Terminus Dam	Community	Cypress Park	1610 E. Cypress	Unknown
Flood - Dam Failure, Terminus Dam	Community	Del Lago Park	1700 N. Laspina	Unknown
Flood - Dam Failure, Terminus Dam	Community	Live Oak Park	600 N. Laspina	Unknown
Flood - Dam Failure, Terminus Dam	Community	Soccer Complex Concession & Restroom	5700 S. Laspina	\$147,272
Flood - Dam Failure, Terminus Dam	Emergency Response	Fire Station #61	800 S. Blackstone St.	\$1,284,296
Flood - Dam Failure, Terminus Dam	Government	Public Works	3981 South K Street	Unknown
Flood - Dam Failure, Terminus Dam	Public Works	Well # 41	W.P.C.F. 2000 W Paige Avenue	\$311,226
Flood - Dam Failure, Terminus Dam	Public Works	Well # 43 and # 44	2245 South Linwood Street (COS Farm)	Unknown
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	K St. & Goodin	\$102,982
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Mooney & Foster	\$102,982
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Alpine & Spruce	\$102,982
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Sierra	\$106,023

**Table M-4. City of Tulare, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Well	1301 East Paige	\$47,828
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Well	2100 W Paige Avenue	\$47,828
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Well # 11	Sonora & U Street	\$228,119
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Well # 13	Laspina & Kern	\$144,969
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Well # 17	Continental & O Street	\$255,836
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Well # 2	T Street & Sonora	\$119,223
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Well # 23	963 Cardoza	\$82,043
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Well # 24	Laspina & Levin	\$108,434
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Well # 25	Hwy 99 & Frontage	\$209,485
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Well # 35	Bardsley & Mooney	\$313,078
Flood - Dam Failure, Terminus Dam	Transportation	City Bridge #1	At Paige Avenue	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	City Bridge #2	At Paige Avenue	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	City Bridge #3	0.25 Mi N Of Paige Avenue	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	City Bridge #4	At Mooney Blvd	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	City Bridge #5	North of D109A	Unknown

**Table M-4. City of Tulare, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Terminus Dam	Transportation	Tulare Municipal Airport	Rankin Avenue	Unknown
Fog <sup>+</sup>	Community	Activity Center Building/ Community Center Building	830 Blackstone	\$2,772,118
Fog <sup>+</sup>	Community	Alice Topham Park	85 W. Tulare Avenue	Unknown
Fog <sup>+</sup>	Community	Bender Park	1855 W. Pleasant Avenue	Unknown
Fog <sup>+</sup>	Community	Blain Park	2300 North M Street	Unknown
Fog <sup>+</sup>	Community	Centennial Park	900 North H Street	Unknown
Fog <sup>+</sup>	Community	Cesar Chavez Memorial Park	900 E. Bardsley Avenue	Unknown
Fog <sup>+</sup>	Community	Cypress Park	1610 E. Cypress	Unknown
Fog <sup>+</sup>	Community	Del Lago Park	1700 N. Laspina	Unknown
Fog <sup>+</sup>	Community	Live Oak Park	600 N. Laspina	Unknown
Fog <sup>+</sup>	Community	Parkwood Meadows Park	Oakwood and E Street	Unknown
Fog <sup>+</sup>	Community	Prosperity Sports Park Clubhouse/Restrooms	846 W. Prosperity	\$817,303
Fog <sup>+</sup>	Community	Recreation Center-Tulare Youth Community	948 North H St.	\$4,136,152
Fog <sup>+</sup>	Community	Senior Center Building	201 North F St.	\$1,712,123
Fog <sup>+</sup>	Community	Soccer Complex Concession & Restroom	5700 S. Laspina	\$147,272
Fog <sup>+</sup>	Community	Tyler Park	140 North E Street	Unknown
Fog <sup>+</sup>	Community	Woman's Clubhouse	88 West Tulare	\$865,259
Fog <sup>+</sup>	Community	Zumwalt Park	400 E. Tulare Avenue	Unknown
Fog <sup>+</sup>	Emergency Response	Fire Station #61	800 S. Blackstone St.	\$1,284,296
Fog <sup>+</sup>	Emergency Response	Fire Station #62	138 North E St.	\$404,189
Fog <sup>+</sup>	Emergency Response	Fire Station #63	2900 North M St.	\$1,126,744

**Table M-4. City of Tulare, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Fog <sup>+</sup>	Emergency Response	Hillman Healthcare Center	1062 S. K St.	Unknown
Fog <sup>+</sup>	Emergency Response	Police Station and HVAC	260 South M St.	\$2,998,105
Fog <sup>+</sup>	Emergency Response	Tulare Station #3	Cartmill/M St	Unknown
Fog <sup>+</sup>	Government	City Hall	411 Kern Avenue	\$7,436,999
Fog <sup>+</sup>	Government	Public Works	3981 South K Street	Unknown
Fog <sup>+</sup>	Government	Tulare Public Library, Cafe, City Council Chamber	475 North M St.	\$14,117,273
Fog <sup>+</sup>	Health	Tulare Regional Medical Center	869 N. Cherry St	Unknown
Fog <sup>+</sup>	Public Works	Well # 40	South E St and Lemonwood Avenue	\$326,654
Fog <sup>+</sup>	Public Works	Well # 41	W.P.C.F. 2000 W Paige Avenue	\$311,226
Fog <sup>+</sup>	Public Works	Well # 42	6096 Leonard Noel Drive	\$305,867
Fog <sup>+</sup>	Public Works	Well # 43 and # 44	2245 South Linwood Street (COS Farm)	Unknown
Fog <sup>+</sup>	Public Works/Utility	Lift Station	K St. & Goodin	\$98,877
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Mooney & Foster	\$109,026
Fog <sup>+</sup>	Public Works/Utility	Lift Station	West & Sonora	\$109,026
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Alpine & Spruce	\$109,948
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Inyo & West	\$109,948
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Retherford Drive & Hillman	\$109,948
Fog <sup>+</sup>	Public Works/Utility	Lift Station	J St. & Mitchell	\$106,023
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Kraft & South USA	\$106,023
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Mt. Melvin & Academy	\$109,088
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Sierra	\$109,088
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Cross & West	\$109,060



**Table M-4. City of Tulare, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Beaumont & Lamar	\$109,060
Fog <sup>+</sup>	Public Works/Utility	Lift Station	West & Pleasant	\$109,060
Fog <sup>+</sup>	Public Works/Utility	Lift Station	F St. & Pleasant	\$105,868
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Merrit & Cherry	\$105,868
Fog <sup>+</sup>	Public Works/Utility	Lift Station	M St. & Prosperity	\$100,959
Fog <sup>+</sup>	Public Works/Utility	Lift Station	M St. & Washington	\$100,959
Fog <sup>+</sup>	Public Works/Utility	Waste Lift Station-Del Lago Station Dry Well and Wet Well	Pasel Del Lago	\$289,366
Fog <sup>+</sup>	Public Works/Utility	Wastewater Treatment Plant, Pump Stations, Water Well, Headwork, and Splitter Box	1875 South West St.	\$62,881,871
Fog <sup>+</sup>	Public Works/Utility	Well	1301 East Paige	\$62,120
Fog <sup>+</sup>	Public Works/Utility	Well	2100 W Paige Avenue	\$62,120
Fog <sup>+</sup>	Public Works/Utility	Well # 1	C Street	\$183,848
Fog <sup>+</sup>	Public Works/Utility	Well # 11	Sonora & U Street	\$228,119
Fog <sup>+</sup>	Public Works/Utility	Well # 12	Pleasant & I Street	\$221,495
Fog <sup>+</sup>	Public Works/Utility	Well # 13	Laspina & Kern	\$144,969
Fog <sup>+</sup>	Public Works/Utility	Well # 14	Olson & Sprr	\$132,340
Fog <sup>+</sup>	Public Works/Utility	Well # 15	Cross	\$162,636
Fog <sup>+</sup>	Public Works/Utility	Well # 17	Continental & O Street	\$255,836
Fog <sup>+</sup>	Public Works/Utility	Well # 2	T Street & Sonora	\$119,223
Fog <sup>+</sup>	Public Works/Utility	Well # 20	Gem, N/O Gail	\$69,533
Fog <sup>+</sup>	Public Works/Utility	Well # 22	Cherry Street	\$257,654
Fog <sup>+</sup>	Public Works/Utility	Well # 23	963 Cardoza	\$82,043
Fog <sup>+</sup>	Public Works/Utility	Well # 24	Laspina & Levin	\$108,434

**Table M-4. City of Tulare, Vulnerable Critical Facilities and Infrastructure**

Hazard	Category	Name	Address	Value
Fog <sup>+</sup>	Public Works/Utility	Well # 25	Hwy 99 & Frontage	\$209,485
Fog <sup>+</sup>	Public Works/Utility	Well # 26	Pleasant & Denair	\$366,530
Fog <sup>+</sup>	Public Works/Utility	Well # 27	Blain Park	\$239,632
Fog <sup>+</sup>	Public Works/Utility	Well # 31	North Hillman	\$241,348
Fog <sup>+</sup>	Public Works/Utility	Well # 33	Gemini & Sonora	\$42,309
Fog <sup>+</sup>	Public Works/Utility	Well # 34	Cross & Delwood	\$144,237
Fog <sup>+</sup>	Public Works/Utility	Well # 35	Bardsley & Mooney	\$313,078
Fog <sup>+</sup>	Public Works/Utility	Well # 36	2690 Korbel Court	\$424,561
Fog <sup>+</sup>	Public Works/Utility	Well # 37	E. Side Mooney/Tulare Avenue.	\$227,695
Fog <sup>+</sup>	Public Works/Utility	Well # 38	NE Corner Laspina/Santa Fe Trails	\$227,695
Fog <sup>+</sup>	Public Works/Utility	Well # 39	Mooney & Palm Ranch	\$241,100
Fog <sup>+</sup>	Public Works/Utility	Well # 6	I Street & Inyo	\$170,359
Fog <sup>+</sup>	Public Works/Utility	Well # 8	O Street & Kern	\$130,059
Fog <sup>+</sup>	Transportation	City Bridge #1	At Paige Avenue	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #2	At Paige Avenue	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #3	0.25 mi N Of Paige Avenue	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #4	At Mooney Blvd	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #5	North of D109A	Unknown
Fog <sup>+</sup>	Transportation	Transit Center Building	360 North K St.	\$241,730
Fog <sup>+</sup>	Transportation	Tulare Municipal Airport	Rankin Avenue	Unknown

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table M-5. City of Tulare, 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 - Moderate Groundshaking	59,394	100%	18,804	100%
Flood - 100 Year Floodplain	83	0.1%	31	0.2%
Flood - 500 Year Floodplain	662	1%	259	1%
Flood - Dam Failure, Terminus Dam	17,034	29%	5,464	29%
Fog <sup>+</sup>	59,394	100%	18,804	100%
Wildfire - Moderate	44	0.1%	28	0.1%

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table M-6. City of Tulare, 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 - Moderate Groundshaking	84	100%
Flood - 100 Year Floodplain	2	2%
Flood - 500 Year Floodplain	5	6%
Flood - Dam Failure, Success Dam	1	1%
Flood - Dam Failure, Terminus Dam	30	36%
Fog <sup>+</sup>	84	100%

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table M-7. City of Tulare, Human and Technical Resources for Hazard Mitigation**

Staff/Personnel Resources	Department or Agency	Principal Activities Related to Hazard Mitigation
Planner(s), engineer(s) and technical staff with knowledge of land development, land management practices, and human-caused and natural hazards.	Planning Division	<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.	Tulare City Fire Department Building Inspection and Planning Division	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.
Floodplain Administrator	Engineering Division	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 or tribal area.

**Table M-7. City of Tulare, 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>
Emergency Manager	Tulare City 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 Division	Provides a full range of municipal financial services, administers several licensing measures, and functions as the local jurisdiction's Procurement Services Manager.

**Table M-8. City of Tulare, 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	Economic & Redevelopment	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 M-8. City of Tulare, Financial Resources for Hazard Mitigation**

<b>Type</b>	<b>Subtype</b>	<b>Administrator</b>	<b>Purpose</b>	<b>Amount</b>
<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 M-8. City of Tulare, 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 M-9. City of Tulare, 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 1993 (in the process of adopting a 2030 plan)	Describes hazard areas and regulates current and future development based on known hazard areas.	<ul style="list-style-type: none"> <li>▪ Seismic</li> <li>▪ Geological</li> <li>▪ Flooding</li> <li>▪ Wildfire</li> <li>▪ Air Pollution</li> <li>▪ Airport Hazard</li> <li>▪ Hazardous Materials</li> </ul>	Mitigation & Preparedness	Yes
	Emergency Operations 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.	<ul style="list-style-type: none"> <li>▪ Earthquake</li> <li>▪ Extreme Weather</li> <li>▪ Flooding</li> <li>▪ Hazardous Materials</li> <li>▪ Transportation Emergencies</li> <li>▪ Civil Disturbance</li> <li>▪ Terrorism</li> <li>▪ Likelihood of occurrence matrix</li> </ul>	Response	No
	Stormwater Quality Management Program (SWQMP) - Storm Water Management Plan (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.	<ul style="list-style-type: none"> <li>▪ Stormwater</li> </ul>	Mitigation & Preparedness	Yes

**Table M-9. City of Tulare, Legal and Regulatory Resources for Hazard Mitigation**

Regulatory Tool	Name	Description (Effect on Hazard Mitigation)	Hazards Addressed	Mitigation, Preparedness, Response, or Recovery	Affects Development in Hazard Areas?
<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.	<ul style="list-style-type: none"> <li>▪ Fire</li> <li>▪ Earthquake</li> <li>▪ Hazardous Materials</li> <li>▪ Flooding</li> </ul>	Mitigation, Preparedness, and Response	Yes

**Table M-10. City of Tulare, 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>
None	Not Applicable	Not Applicable	Not Applicable

**Table M-11. City of Tulare, 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 of residential and/or non-residential structures in hazard areas, such high and/or very high wildfire areas.	Property Protection	All	New and Existing – Residential and non-residential buildings in hazard areas.
2	Integrate the Tulare County 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	Not applicable.
3	Seismically retrofit or replace public works and/or emergency response facilities that are necessary during and/or immediately after a disaster or emergency.	Property Protection, Structural Project	Earthquake	Existing – Public works and/or emergency response facilities that are structurally deficient or located within a high ground shaking area.
4	Seismically retrofit or replace 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 and/or immediate after a disaster or emergency.	Property Protection, Structural Project	Earthquake	Existing – Ramps and bridges identified by Caltrans as structurally deficient or located within an extreme ground shaking area.
5	Develop a public outreach program that informs property owners located in the dam or levee inundation areas about voluntary flood insurance.	Public Outreach	Flood (Dam and Levee Failure)	Existing – Residential buildings located within dam or levee inundation areas.
6	Create a database that accounts for all levees in Tulare County and their condition.	All	Flood (Levee Failure)	Not applicable.
7	Acquire, relocate, or elevate residential structures, in particular those that have been identified as Repetitive Loss (RL) properties that are located within the 100-year floodplain.	Property Protection	Flood (Riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
8	Acquire, relocate, elevate, and/or floodproof critical facilities that are located within the 100-year floodplain.	Property Protection	Flood (Riverine)	Existing - Critical facilities located within the 100-year floodplain.

**Table M-11. City of Tulare, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
9	Reinforce County and local ramps, bridges, and roads from flooding through protection activities, including elevating the road and installing culverts beneath the road or building a higher bridge across the area that experiences regular flooding.	Property Protection, Structural Project	Flood (Riverine)	Existing – County and local ramps, bridges, and roads identified in the 100-year floodplain.
10	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide Digital Flood Insurance Rate Map (DFIRM), Community Assessment Visits, and/or the Department of Water Resources (DWR).	All	Flood (Riverine)	New/Existing -Properties within the 100-year or 500-year floodplain.
11	Increase participation in the National Flood Insurance Program (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	Flood (Riverine)	New/Existing –County and incorporated communities that have RL properties.
12	Continue to work with weather forecasting and public safety agencies to provide warning and protective information to residents, travelers, and visitors about severe valley fog conditions*.	Prevention	Fog	Not applicable.
13	Implement post-fire debris flow hill-slope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-Fire Debris Flow	Existing – Public works facilities.
14	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	Existing – Critical facilities located in areas that experience severe wind.
15	Develop a free annual tree chipping and tree pick-up day that encourages residents living in wind hazard areas to manage trees and shrubs at risk to falling on nearby structures.	Property Protection	Severe Winter Storm	Existing – Residential buildings that experience severe wind.

**Table M-11. City of Tulare, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
16	Bolt down the roofs of critical facilities in wind gust hazard areas in order to prevent wind damage.	Property Protection	Severe Winter Storm	Existing – Critical facilities located in areas that experience wind gusts.
17	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 high and very high wildfire zones.	Prevention, Property Protection, Natural Resource Protection	Wildfire	Existing – Critical facilities and residential buildings located within high and very high wildfire zones.
18	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 from around their homes.	Property Protection	Wildfire	Existing – Residential buildings in high or very high wildfire zones.
19	Develop a community wildfire mitigation plan that identifies and prioritizes areas for hazard fuel reduction treatments, and recommend the types of methods of treatments.	Prevention, Property Protection	Wildfires	New/ Existing – Residential and non-residential buildings located within high or very high wildfire areas in the Local Responsibility Areas
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 – Residential and non-residential buildings located within high or very high wildfire areas.

\* Mitigation action does not meet the 2011 HMA Guidance requirements for FEMA mitigation funding

**Table M-12. City of Tulare, Mitigation Action Plan**

No.	Selected (Y/N)	Description	Prioritization Criteria	Facility to be Mitigated (if known)	Department or Agency	Timeframe to be Implemented
2	Y	Integrate the Tulare County HMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	A, B, D, E	Updating EOC	Planning Division	2-5 years
3	Y	Seismically retrofit or replace public works and/or emergency response facilities that are necessary during and/or immediately after a disaster or emergency.	A, B, D	Fire Station 62 & 61	Tulare City Fire Department and Building Inspection and Planning Division	1-2 years

**Prioritization Criteria**

- A. A local jurisdiction department or agency champion currently exists or can be identified
- B. The action can be implemented during the 5-year lifespan of the HMP
- C. The action may reduce expected future damages and losses (cost-benefit)
- D. The action mitigates a high-risk hazard
- E. The action mitigates multiple hazards



**Appendix N**  
**City of Visalia**

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**Table N-1. City of Visalia, Total Population and Residential Buildings**

<b>Population</b>	<b>Residential Buildings</b>	<b>Total Residential Building Value(2000)</b>
126,139	43,828	\$3,723,426,200

(Average structural value of residences in Census blocks for the year 2000: \$121,016)

Source: U.S. Census Bureau, 2000, California Department of Finance, 2010

**Table N-2. City of Visalia, Total Critical Facilities and Infrastructure**

Category	Name	Address	Value
Community	Anthony Community Center/Provident Skate Park	345 N. Jacob	\$2,194,681
Community	Blain Park	South Court and Parkview	\$371,913
Community	Cherry Meadow Park	Pinkham and Cherry Street	\$554,112
Community	Combs Park	La Vida and Crenshaw	Unknown
Community	Constitution Park	West Tulare and Crenshaw Ct.	Unknown
Community	Creative Center	606 N. Bridge Street	\$21,176
Community	Crestwood Park	S.W. County Center Drive and Whitendale Avenue	\$5,657
Community	Fairview Community Center	2645 N. Conyer Street	\$240,000
Community	Fairview Park	Wren Drive and N. Highland St	\$584,290
Community	Houk Park	S. Woodland & Dartmouth	\$48,694
Community	Ice House Theater	410 E. Race Avenue.	\$189,322
Community	Jefferson Park	S. Watson Street and W. Myrtle Avenue	\$87,554
Community	Lincoln Oval Park/Oval Building	N. Court and N.W. 2nd	\$272,042
Community	Lion's Park	6500 W. Ferguson Avenue	Unknown
Community	Main Street Theater (Enchanted Playhouse)	301 E. Main Street	Unknown
Community	Manuel Hernandez Community Center	247 W. Ferguson Avenue	\$610,636
Community	Mayors Park	N. Hall Avenue and W. Main Street	\$24,365
Community	Memorial Park	N. Hall Avenue and W. Main Street	\$17,430
Community	Mill Creek Garden	N. Lovers Lane and Millcreek Parkway	Unknown
Community	Pinkham Park	S. Pinkham Street and E. Tulare Avenue.	\$47,040
Community	Plaza Park	700 S. Plaza Parkway	\$1,422,445
Community	Police Gun Range	7398 Avenue 328	\$91,160
Community	Rawhide Ballpark	300 N. Giddings St.	\$14,143,362

**Table N-2. City of Visalia, Total Critical Facilities and Infrastructure**

Category	Name	Address	Value
Community	Rec Center (PAL) & Former Caltrans Maintenance Yard	701 E. Race Avenue	Unknown
Community	Recreation Park	N. Jacob and W. Center	\$41,486
Community	River Bend Park	N. Court Street & W. Wren Avenue	\$436,520
Community	Riverway Sports Park	3611 North Dinuba Blvd	\$15,589,715
Community	Rotary Park	S. Divisidero & Harvard	\$5,657
Community	Ruiz Park	639 E. Buena Vista Avenue	\$16,045
Community	Senior Center	310 N. Locust Street	\$390,919
Community	Seven Oaks Park	E. Tulare Avenue and S. Edison Street	\$529,669
Community	Shannon I Park	N. Mendonca Street and W. Tyler Avenue	\$98,874
Community	Soroptimist Park	Linwood and W. Prospect Avenue	Unknown
Community	Stonebrook Park	W. Hemlock Avenue and Martin Street	\$154,985
Community	Summers Park	Summers Park N. and N. Court Street	\$46,108
Community	Sunset Park	W. Monte Verde Avenue and Lisendra Drive	\$36,754
Community	Valley Oak Golf Course	1800 S. Plaza Drive	Unknown
Community	West Main Park	Mill Creek Drive and W. Main Street	Unknown
Community	Whitendale Park & Community Center	630 W. Beech Avenue	\$233,058
Community	Willow Glen Park	N Akes St. and Hurley Avenue	\$48,060
Community	Wittman Village Park & Community Center	317 Pearl St.	\$75,204
Community	Woodland Park	1701 N. Woodland	\$399,156
Emergency Response	Fire Annex/Fire Station 51	309 S. Johnson	\$191,697
Emergency Response	Fire Station 52	2224 W. Monte Vista	\$786,993
Emergency Response	Fire Station 53	9500 Airport Drive (Hangars Way)	\$734,016
Emergency Response	Fire Station 54	440 W. Ferguson St.	\$793,091
Emergency Response	Fire Station 55/Fire Training Facility	6291 W. Ferguson St.	\$7,033,266

**Table N-2. City of Visalia, Total Critical Facilities and Infrastructure**

Category	Name	Address	Value
Emergency Response	Police - HQ /Fire Station #1	303 & 315 S. Johnson	\$937,145
Emergency Response	Police District One	204 NW 3rd Avenue	\$4,407,799
Emergency Response	Police District Two	4100 S. County Center Drive	\$5,179,230
Emergency Response	Repeater Site	115 W. Murray	Unknown
Emergency Response	Repeater Site	1717 N. McAuliff	Unknown
Emergency Response	Repeater Site	9000 W. Airport	Unknown
Emergency Response	Repeater Site	Giddings north of Mineral King	Unknown
Emergency Response	Shannon 2 Park	W. Jerome Avenue and N. Carson Street	\$98,874
Government	City Hall East (EOC Backup)	315 E. Acequia	\$364,102
Government	City Hall North/City Administration	425 E. Oak Avenue	\$1,692,904
Government	City Hall West/Fire Administration	707 W. Acequia Avenue.	\$626,618
Government	Convention Center	303 E. Acequia	\$22,547,179
Government	SPCA	29016 Highway 99	Unknown
Health	Kaweah Delta District Hospital	400 W. Mineral King Avenue	Unknown
Public Works/Utility	Lift Station	3037 E. Noble	\$42,285
Public Works/Utility	Lift Station	Ben Maddox and St. John's	\$42,285
Public Works/Utility	Lift Station	Ben Maddox and Walnut	\$42,285
Public Works/Utility	Lift Station	Bradley and St. John's	\$42,285
Public Works/Utility	Lift Station	Buena Vista and St. John's	\$42,285
Public Works/Utility	Lift Station	Burke and Murray	\$42,285
Public Works/Utility	Lift Station	Caldwell and Jacob	\$42,285
Public Works/Utility	Lift Station	Chinowith and 198	\$42,285
Public Works/Utility	Lift Station	Chinowith and Caldwell	\$42,285
Public Works/Utility	Lift Station	Chinowith and Walnut	\$42,285

**Table N-2. City of Visalia, Total Critical Facilities and Infrastructure**

Category	Name	Address	Value
Public Works/Utility	Lift Station	Cotta and Tulare	\$42,285
Public Works/Utility	Lift Station	Court	\$62,285
Public Works/Utility	Lift Station	Crenshaw and COS Farm	\$42,285
Public Works/Utility	Lift Station	Damaree and 198	\$42,285
Public Works/Utility	Lift Station	Demaree and Victor	\$42,285
Public Works/Utility	Lift Station	Fairview Park and 63	\$42,285
Public Works/Utility	Lift Station	Ferguson and 63	\$42,285
Public Works/Utility	Lift Station	John Combs Park	\$42,285
Public Works/Utility	Lift Station	Julieann and Feemster	\$42,285
Public Works/Utility	Lift Station	Library	\$42,285
Public Works/Utility	Lift Station	Lindwood and Evans Ditch	\$42,285
Public Works/Utility	Lift Station	Mill Creek Park	\$42,285
Public Works/Utility	Lift Station	Mooney Boulevard and Modoc	\$42,285
Public Works/Utility	Lift Station	Mooney Boulevard and Packwood	\$42,285
Public Works/Utility	Lift Station	Pinkham and Tulare	\$42,285
Public Works/Utility	Lift Station	Sowell and Feemster	\$42,285
Public Works/Utility	Lift Station	SR-198 and Road 76	\$42,285
Public Works/Utility	Lift Station	St. John's and Norman	\$42,285
Public Works/Utility	Lift Station	Tulare and Roeben	\$42,285
Public Works/Utility	Lift Station	Walnut and County Center	\$42,285
Public Works/Utility	Lift Station	Walnut and Savannah	\$42,285
Public Works/Utility	Sewer Lift Station	Airport Plaza	\$42,285
Public Works/Utility	Sewer Lift Station	Border Links and Ranch Road	\$42,285
Public Works/Utility	Sewer Lift Station	Demaree and Pryor	\$42,285

**Table N-2. City of Visalia, Total Critical Facilities and Infrastructure**

Category	Name	Address	Value
Public Works/Utility	Sewer Lift Station	Effie and Camp	\$42,285
Public Works/Utility	Sewer Lift Station	Evergreen and Linda Vista	\$42,285
Public Works/Utility	Sewer Lift Station	Golf Course	\$42,285
Public Works/Utility	Sewer Lift Station	Mary and County Center	\$42,285
Public Works/Utility	Sewer Lift Station	Mill Creek and Main	\$42,285
Public Works/Utility	Sewer Lift Station	Mooney Boulevard and 272	\$42,285
Public Works/Utility	Sewer Lift Station	Mooney Boulevard and Sunnyside	\$42,285
Public Works/Utility	Sewer Lift Station	Shirk and 198	\$42,285
Public Works/Utility	Sewer Lift Station	St. John's and Modoc	\$42,285
Public Works/Utility	Solid Waste - Admin, Wrehse, Shop, and Cain Building	309 N. Cain St.	\$141,579
Transportation	City Bridge #1	0.8 mi N of SR 216	Unknown
Transportation	City Bridge #10	RD 136 @ Walnut Avenue (288)	Unknown
Transportation	City Bridge #11	0.1 mi N of SR 198	Unknown
Transportation	City Bridge #12	0.15 mi N of K Rd	Unknown
Transportation	City Bridge #13	Green Oaks Avenue	Unknown
Transportation	City Bridge #14	0.1 mi NE SR 198	Unknown
Transportation	City Bridge #15	0.15 mi N of SR 198	Unknown
Transportation	City Bridge #16	0.08 mi N of SR 198	Unknown
Transportation	City Bridge #2	0.45 mi N of Avenue 288	Unknown
Transportation	City Bridge #3	0.3 mi N of Avenue 288	Unknown
Transportation	City Bridge #4	0.12 mi N of Avenue 280	Unknown
Transportation	City Bridge #5	1.1 mi W of Rd 140	Unknown
Transportation	City Bridge #6	0.4 mi SE of Avenue 304	Unknown
Transportation	City Bridge #7	0.25 mi N of SR 198	Unknown



**Table N-2. City of Visalia, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Transportation	City Bridge #8	0.5 mi N of SR 216	Unknown
Transportation	City Bridge #9	0.5 mi E of 63	Unknown
Transportation	Transit Maintenance Facility	525 N Cain	\$10,176,794
Transportation	Visalia Municipal Airport	9501 W. Airport Drive	\$5,941,613

**Table N-3. City of Visalia, Vulnerable Population and Residential Buildings**

<b>Hazard</b>	<b>Population</b>	<b>Residential buildings</b>	<b>Total Residential Building Value</b>
Earthquake - Moderate Groundshaking	126,139	43,828	\$3,723,426,203
Flood - 100 Year Floodplain	37,417	12,003	\$1,029,482,454
Flood - 500 Year Floodplain	87,819	31,568	\$2,671,956,396
Flood - Dam Failure, Terminus Dam	125,469	43,563	\$3,698,574,573
Fog <sup>+</sup>	126,139	43,828	\$3,723,426,200

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Community	Anthony Community Center/Provident Skate Park	345 N. Jacob	\$2,194,681
Earthquake - Moderate Groundshaking	Community	Blain Park	South Court and Parkview	\$371,913
Earthquake - Moderate Groundshaking	Community	Cherry Meadow Park	Pinkham and Cherry Street	\$554,112
Earthquake - Moderate Groundshaking	Community	Combs Park	La Vida and Crenshaw	Unknown
Earthquake - Moderate Groundshaking	Community	Constitution Park	West Tulare and Crenshaw Ct.	Unknown
Earthquake - Moderate Groundshaking	Community	Creative Center	606 N. Bridge Street	\$21,176
Earthquake - Moderate Groundshaking	Community	Crestwood Park	S.W. County Center Drive and Whitendale Avenue	\$5,657
Earthquake - Moderate Groundshaking	Community	Fairview Community Center	2645 N. Conyer Street	\$240,000
Earthquake - Moderate Groundshaking	Community	Fairview Park	Wren Drive and N. Highland St	\$584,290
Earthquake - Moderate Groundshaking	Community	Houk Park	S. Woodland & Dartmouth	\$48,694
Earthquake - Moderate Groundshaking	Community	Ice House Theater	410 E. Race Avenue.	\$189,322
Earthquake - Moderate Groundshaking	Community	Jefferson Park	S. Watson Street and W. Myrtle Avenue	\$87,554
Earthquake - Moderate Groundshaking	Community	Lincoln Oval Park/Oval Building	N. Court and N.W. 2nd	\$272,042
Earthquake - Moderate Groundshaking	Community	Lion's Park	6500 W. Ferguson Avenue	Unknown
Earthquake - Moderate Groundshaking	Community	Main Street Theater (Enchanted Playhouse)	301 E. Main Street	Unknown

**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Community	Manuel Hernandez Community Center	247 W. Ferguson Avenue	\$610,636
Earthquake - Moderate Groundshaking	Community	Mayors Park	N. Hall Avenue and W. Main Street	\$24,365
Earthquake - Moderate Groundshaking	Community	Memorial Park	N. Hall Avenue and W. Main Street	\$17,430
Earthquake - Moderate Groundshaking	Community	Mill Creek Garden	N. Lovers Lane and Millcreek Parkway	Unknown
Earthquake - Moderate Groundshaking	Community	Pinkham Park	S. Pinkham Street and E. Tulare Avenue.	\$47,040
Earthquake - Moderate Groundshaking	Community	Plaza Park	700 S. Plaza Parkway	\$1,422,445
Earthquake - Moderate Groundshaking	Community	Police Gun Range	7398 Avenue 328	\$91,160
Earthquake - Moderate Groundshaking	Community	Rawhide Ballpark	300 N. Giddings St.	\$14,143,362
Earthquake - Moderate Groundshaking	Community	Rec Center (PAL) & Former Caltrans Maintenance Yard	701 E. Race Avenue	Unknown
Earthquake - Moderate Groundshaking	Community	Recreation Park	N. Jacob and W. Center	\$41,486
Earthquake - Moderate Groundshaking	Community	River Bend Park	N. Court Street & W. Wren Avenue	\$436,520
Earthquake - Moderate Groundshaking	Community	Riverway Sports Park	3611 North Dinuba Blvd	\$15,589,715
Earthquake - Moderate Groundshaking	Community	Rotary Park	S. Divisidero & Harvard	\$5,657
Earthquake - Moderate Groundshaking	Community	Ruiz Park	639 E. Buena Vista Avenue	\$16,045
Earthquake - Moderate Groundshaking	Community	Senior Center	310 N. Locust Street	\$390,919

**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Community	Seven Oaks Park	E. Tulare Avenue and S. Edison Street	\$529,669
Earthquake - Moderate Groundshaking	Community	Shannon 1 Park	N. Mendonca Street and W. Tyler Avenue	\$98,874
Earthquake - Moderate Groundshaking	Community	Soroptimist Park	Linwood and W. Prospect Avenue	Unknown
Earthquake - Moderate Groundshaking	Community	Stonebrook Park	W. Hemlock Avenue and Martin Street	\$154,985
Earthquake - Moderate Groundshaking	Community	Summers Park	Summers Park N. and N. Court Street	\$46,108
Earthquake - Moderate Groundshaking	Community	Sunset Park	W. Monte Verde Avenue and Lisendra Drive	\$36,754
Earthquake - Moderate Groundshaking	Community	Valley Oak Golf Course	1800 S. Plaza Drive	Unknown
Earthquake - Moderate Groundshaking	Community	West Main Park	Mill Creek Drive and W. Main Street	Unknown
Earthquake - Moderate Groundshaking	Community	Whitendale Park & Community Center	630 W. Beech Avenue	\$233,058
Earthquake - Moderate Groundshaking	Community	Willow Glen Park	N Akes St. and Hurley Avenue	\$48,060
Earthquake - Moderate Groundshaking	Community	Wittman Village Park	North Court & Pearl	Unknown
Earthquake - Moderate Groundshaking	Community	Wittman Village Park & Community Center	317 Pearl St.	\$75,204
Earthquake - Moderate Groundshaking	Community	Woodland Park	1701 N. Woodland	\$399,156
Earthquake - Moderate Groundshaking	Emergency Response	Fire Annex/Fire Station 51	309 S. Johnson	\$191,697
Earthquake - Moderate Groundshaking	Emergency Response	Fire Station 52	2224 W. Monte Vista	\$786,993

**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Emergency Response	Fire Station 53	9500 Airport Drive (Hangars Way)	\$734,016
Earthquake - Moderate Groundshaking	Emergency Response	Fire Station 54	440 W. Ferguson St.	\$793,091
Earthquake - Moderate Groundshaking	Emergency Response	Fire Station 55/Fire Training Facility	6291 W. Ferguson St.	\$7,033,266
Earthquake - Moderate Groundshaking	Emergency Response	Police - HQ /Fire Station #1	303 & 315 S. Johnson	\$937,145
Earthquake - Moderate Groundshaking	Emergency Response	Police District One	204 NW 3rd Avenue	\$4,407,799
Earthquake - Moderate Groundshaking	Emergency Response	Police District Two	4100 S. County Center Drive	\$5,179,230
Earthquake - Moderate Groundshaking	Emergency Response	Repeater Site	9000 W. Airport	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Repeater Site	Giddings north of Mineral King	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Repeater Site	115 W. Murray	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Repeater Site	1717 N. McAuliff	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Shannon 2 Park	W. Jerome Avenue and N. Carson Street	\$98,874
Earthquake - Moderate Groundshaking	Government	City Hall East (EOC Backup)	315 E. Acequia	\$364,102
Earthquake - Moderate Groundshaking	Government	City Hall North/City Administration	425 E. Oak Avenue	\$1,692,904
Earthquake - Moderate Groundshaking	Government	City Hall West/Fire Administration	707 W. Acequia Avenue.	\$626,618
Earthquake - Moderate Groundshaking	Government	Convention Center	303 E. Acequia	\$22,547,179

**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Government	SPCA	29016 Highway 99	Unknown
Earthquake - Moderate Groundshaking	Health	Kaweah Delta District Hospital	400 W. Mineral King Avenue.	Unknown
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Court	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Damaree and 198	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Chinowith and Caldwell	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Demaree and Victor	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Burke and Murray	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Library	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Caldwell and Jacob	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	John Combs Park	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Crenshaw and COS Farm	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Mooney Boulevard and Packwood	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Chinowith and 198	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Lindwood and Evans Ditch	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Fairview Park and 63	\$42,285

**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Mooney Boulevard and Modoc	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	St. John's and Norman	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Ben Maddox and Walnut	\$62,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Chinowith and Walnut	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Walnut and Savannah	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Walnut and County Center	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Julieann and Feemster	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Sowell and Feemster	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Pinkham and Tulare	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Cotta and Tulare	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Tulare and Roeben	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	3037 E. Noble	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	SR-198 and Road 76	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Mill Creek Park	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Buena Vista and St. John's	\$42,285



**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Ferguson and 63	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Ben Maddox and St. John's	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Lift Station	Bradley and St. John's	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Sewer Lift Station	Mooney Boulevard and 272	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Sewer Lift Station	Mooney Boulevard and Sunnyside	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Sewer Lift Station	Evergreen and Linda Vista	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Sewer Lift Station	Demaree and Pryor	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Sewer Lift Station	Shirk and 198	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Sewer Lift Station	Effie and Camp	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Sewer Lift Station	Mary and County Center	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Sewer Lift Station	Airport Plaza	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Sewer Lift Station	Mill Creek and Main	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Sewer Lift Station	Border Links and Ranch Road	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Sewer Lift Station	Golf Course	\$42,285
Earthquake - Moderate Groundshaking	Public Works/Utility	Sewer Lift Station	St. John's and Modoc	\$42,285

**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Public Works/Utility	Solid Waste - Admin, Warehouse, Shop, and Cain Building	309 N. Cain St.	\$141,579
Earthquake - Moderate Groundshaking	Public Works/Utility	Wastewater Treatment Plant	7579 Avenue 288	\$55,057,784
Earthquake - Moderate Groundshaking	Transportation	Airline Terminal	9502 W. Airport Drive	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #1	0.8 mi N of SR 216	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #10	RD 136 @ Walnut Avenue (288)	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #11	0.1 mi N SR 198	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #12	0.15 mi N of K RD	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #13	Green Oaks Avenue	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #14	0.1 mi NE SR 198	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #15	0.15 mi N of SR 198	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #16	0.08 mi N Of SR 198	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #2	0.45 mi N Avenue 288	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #3	0.3 mi N of Avenue 288	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #4	0.12 mi N of AVE 280	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #5	1.1 mi W of RD 140	Unknown

**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Transportation	City Bridge #6	0.4 mi SE of Avenue 304	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #7	0.25 mi N of SR 198	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #8	0.5 mi N of SR 216	Unknown
Earthquake - Moderate Groundshaking	Transportation	City Bridge #9	0.5 mi E of 63	Unknown
Earthquake - Moderate Groundshaking	Transportation	Transit Maintenance Facility	525 N Cain	\$10,176,794
Earthquake - Moderate Groundshaking	Transportation	Visalia Municipal Airport	9501 W. AIRPORT DR	\$5,941,613
Flood - 100 Year Floodplain	Community	Cherry Meadow Park	Pinkham and Cherry Street	\$554,112
Flood - 100 Year Floodplain	Community	Creative Center	606 N. Bridge Street	\$21,176
Flood - 100 Year Floodplain	Community	Ice House Theater	410 E. Race Avenue.	\$189,322
Flood - 100 Year Floodplain	Community	Lincoln Oval Park/Oval Building	N. Court and N.W. 2nd	\$272,042
Flood - 100 Year Floodplain	Community	Main Street Theater (Enchanted Playhouse)	301 E. Main Street	Unknown
Flood - 100 Year Floodplain	Community	Manuel Hernandez Community Center	247 W. Ferguson Avenue	\$610,636
Flood - 100 Year Floodplain	Community	Mayors Park	N. Hall Avenue and W. Main Street	\$24,365
Flood - 100 Year Floodplain	Community	Memorial Park	N. Hall Avenue and W. Main Street	\$17,430
Flood - 100 Year Floodplain	Community	Mill Creek Garden	N. Lovers Lane and Millcreek Parkway	Unknown
Flood - 100 Year Floodplain	Community	Pinkham Park	S. Pinkham Street and E. Tulare Avenue.	\$47,040
Flood - 100 Year Floodplain	Community	Rawhide Ballpark	300 N. Giddings St.	\$14,143,362

**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - 100 Year Floodplain	Community	Rec Center (PAL) & Former Caltrans Maintenance Yard	701 E. Race Avenue	Unknown
Flood - 100 Year Floodplain	Community	Recreation Park	N. Jacob and W. Center	\$41,486
Flood - 100 Year Floodplain	Community	River Bend Park	N. Court Street & W. Wren Avenue	\$436,520
Flood - 100 Year Floodplain	Community	Ruiz Park	639 E. Buena Vista Avenue	\$16,045
Flood - 100 Year Floodplain	Community	Senior Center	310 N. Locust Street	\$390,919
Flood - 100 Year Floodplain	Community	Shannon 1 Park	N. Mendonca Street and W. Tyler Avenue	\$98,874
Flood - 100 Year Floodplain	Community	Soroptimist Park	Linwood and W. Prospect Avenue	Unknown
Flood - 100 Year Floodplain	Community	Stonebrook Park	W. Hemlock Avenue and Martin Street	\$154,985
Flood - 100 Year Floodplain	Community	Summers Park	Summers Park N. and N. Court Street	\$46,108
Flood - 100 Year Floodplain	Community	West Main Park	Mill Creek Drive and W. Main Street	Unknown
Flood - 100 Year Floodplain	Community	Wittman Village Park	North Court & Pearl	Unknown
Flood - 100 Year Floodplain	Community	Wittman Village Park & Community Center	317 Pearl St.	\$75,204
Flood - 100 Year Floodplain	Emergency Response	Fire Station 54	440 W. Ferguson St.	\$793,091
Flood - 100 Year Floodplain	Emergency Response	Police - HQ /Fire Station #1	303 & 315 S. Johnson	\$937,145
Flood - 100 Year Floodplain	Emergency Response	Police District One	204 NW 3rd Avenue	\$4,407,799
Flood - 100 Year Floodplain	Emergency Response	Repeater Site	Giddings north of Mineral King	Unknown
Flood - 100 Year Floodplain	Emergency Response	Repeater Site	115 W. Murray	Unknown
Flood - 100 Year Floodplain	Government	City Hall North/City Administration	425 E. Oak Avenue	\$1,692,904
Flood - 100 Year Floodplain	Public Works/Utility	Lift Station	Tulare and Roeben	\$42,285

**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

Hazard	Category	Name	Address	Value
Flood - 100 Year Floodplain	Public Works/Utility	Lift Station	SR-198 and Road 76	\$42,285
Flood - 100 Year Floodplain	Public Works/Utility	Lift Station	Mill Creek Park	\$42,285
Flood - 100 Year Floodplain	Public Works/Utility	Lift Station	Buena Vista and St. John's	\$42,285
Flood - 100 Year Floodplain	Public Works/Utility	Lift Station	Ferguson and 63	\$42,285
Flood - 100 Year Floodplain	Public Works/Utility	Lift Station	Ben Maddox and St. John's	\$42,285
Flood - 100 Year Floodplain	Public Works/Utility	Lift Station	Bradley and St. John's	\$42,285
Flood - 100 Year Floodplain	Public Works/Utility	Sewer Lift Station	Mill Creek and Main	\$42,285
Flood - 100 Year Floodplain	Public Works/Utility	Sewer Lift Station	Golf Course	\$42,285
Flood - 100 Year Floodplain	Public Works/Utility	Sewer Lift Station	St. John's and Modoc	\$42,285
Flood - 100 Year Floodplain	Public Works/Utility	Solid Waste - Admin, Warehouse, Shop, and Cain Building	309 N. Cain St.	\$141,579
Flood - 100 Year Floodplain	Public Works/Utility	Wastewater Treatment Plant	7579 Avenue 288	\$55,057,784
Flood - 100 Year Floodplain	Transportation	City Bridge #1	0.8 mi N of SR 216	Unknown
Flood - 100 Year Floodplain	Transportation	City Bridge #11	0.1 mi N SR 198	Unknown
Flood - 100 Year Floodplain	Transportation	City Bridge #12	0.15 mi N of K RD	Unknown
Flood - 100 Year Floodplain	Transportation	City Bridge #14	0.1 mi NE SR 198	Unknown
Flood - 100 Year Floodplain	Transportation	City Bridge #15	0.15 mi N of SR 198	Unknown
Flood - 100 Year Floodplain	Transportation	City Bridge #16	0.08 mi N Of SR 198	Unknown
Flood - 100 Year Floodplain	Transportation	City Bridge #2	0.45 mi N Avenue 288	Unknown
Flood - 100 Year Floodplain	Transportation	City Bridge #5	1.1 mi W of RD 140	Unknown
Flood - 100 Year Floodplain	Transportation	City Bridge #6	0.4 mi SE of Avenue 304	Unknown
Flood - 100 Year Floodplain	Transportation	City Bridge #7	0.25 mi N of SR 198	Unknown
Flood - 100 Year Floodplain	Transportation	City Bridge #8	0.5 mi N of SR 216	Unknown
Flood - 100 Year Floodplain	Transportation	City Bridge #9	0.5 mi E of 63	Unknown
Flood - 100 Year Floodplain	Transportation	Transit Maintenance Facility	525 N Cain	\$10,176,794

**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - 500 Year Floodplain	Community	Anthony Community Center/Provident Skate Park	345 N. Jacob	\$2,194,681
Flood - 500 Year Floodplain	Community	Blain Park	South Court and Parkview	\$371,913
Flood - 500 Year Floodplain	Community	Combs Park	La Vida and Crenshaw	Unknown
Flood - 500 Year Floodplain	Community	Constitution Park	West Tulare and Crenshaw Ct.	Unknown
Flood - 500 Year Floodplain	Community	Crestwood Park	S.W. County Center Drive and Whitendale Avenue	\$5,657
Flood - 500 Year Floodplain	Community	Fairview Community Center	2645 N. Conyer Street	\$240,000
Flood - 500 Year Floodplain	Community	Fairview Park	Wren Drive and N. Highland St	\$584,290
Flood - 500 Year Floodplain	Community	Houk Park	S. Woodland & Dartmouth	\$48,694
Flood - 500 Year Floodplain	Community	Jefferson Park	S. Watson Street and W. Myrtle Avenue	\$87,554
Flood - 500 Year Floodplain	Community	Lion's Park	6500 W. Ferguson Avenue	Unknown
Flood - 500 Year Floodplain	Community	Police Gun Range	7398 Avenue 328	\$91,160
Flood - 500 Year Floodplain	Community	Rotary Park	S. Divisidero & Harvard	\$5,657
Flood - 500 Year Floodplain	Community	Seven Oaks Park	E. Tulare Avenue and S. Edison Street	\$529,669
Flood - 500 Year Floodplain	Community	Sunset Park	W. Monte Verde Avenue and Lisendra Drive	\$36,754
Flood - 500 Year Floodplain	Community	Valley Oak Golf Course	1800 S. Plaza Drive	Unknown
Flood - 500 Year Floodplain	Community	Whitendale Park & Community Center	630 W. Beech Avenue	\$233,058
Flood - 500 Year Floodplain	Community	Willow Glen Park	N Akes St. and Hurley Avenue	\$48,060
Flood - 500 Year Floodplain	Community	Woodland Park	1701 N. Woodland	\$399,156
Flood - 500 Year Floodplain	Emergency Response	Fire Annex/Fire Station 51	309 S. Johnson	\$191,697
Flood - 500 Year Floodplain	Emergency Response	Fire Station 52	2224 W. Monte Vista	\$786,993
Flood - 500 Year Floodplain	Emergency Response	Fire Station 53	9500 Airport Drive (Hangars Way)	\$734,016

**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - 500 Year Floodplain	Emergency Response	Fire Station 55/Fire Training Facility	6291 W. Ferguson St.	\$7,033,266
Flood - 500 Year Floodplain	Emergency Response	Police District Two	4100 S. County Center Drive	\$5,179,230
Flood - 500 Year Floodplain	Emergency Response	Repeater Site	9000 W. Airport	Unknown
Flood - 500 Year Floodplain	Emergency Response	Repeater Site	1717 N. McAuliff	Unknown
Flood - 500 Year Floodplain	Government	City Hall East (EOC Backup)	315 E. Acequia	\$364,102
Flood - 500 Year Floodplain	Government	City Hall West/Fire Administration	707 W. Acequia Avenue.	\$626,618
Flood - 500 Year Floodplain	Government	Convention Center	303 E. Acequia	\$22,547,179
Flood - 500 Year Floodplain	Government	SPCA	29016 Highway 99	Unknown
Flood - 500 Year Floodplain	Health	Kaweah Delta District Hospital	400 W. Mineral King Avenue.	Unknown
Flood - 500 Year Floodplain	Public Works/Utility	Lift Station	Court	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Lift Station	Damaree and 198	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Lift Station	Chinowith and Caldwell	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Lift Station	Demaree and Victor	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Lift Station	Burke and Murray	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Lift Station	Library	\$62,285
Flood - 500 Year Floodplain	Public Works/Utility	Lift Station	Caldwell and Jacob	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Lift Station	John Combs Park	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Lift Station	Crenshaw and COS Farm	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Lift Station	Mooney Boulevard and Packwood	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Lift Station	Chinowith and 198	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Lift Station	Lindwood and Evans Ditch	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Lift Station	Fairview Park and 63	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Lift Station	Mooney Boulevard and Modoc	\$42,285

**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

Hazard	Category	Name	Address	Value
Flood - 500 Year Floodplain	Public Works/Utility	Lift Station	St. John's and Norman	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Lift Station	Ben Maddox and Walnut	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Lift Station	Chinowith and Walnut	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Lift Station	Walnut and Savannah	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Lift Station	Walnut and County Center	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Lift Station	Julieann and Feemster	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Lift Station	Sowell and Feemster	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Lift Station	Pinkham and Tulare	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Lift Station	Cotta and Tulare	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Lift Station	3037 E. Noble	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Sewer Lift Station	Mooney Boulevard and 272	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Sewer Lift Station	Mooney Boulevard and Sunnyside	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Sewer Lift Station	Evergreen and Linda Vista	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Sewer Lift Station	Demaree and Pryor	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Sewer Lift Station	Shirk and 198	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Sewer Lift Station	Effie and Camp	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Sewer Lift Station	Mary and County Center	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Sewer Lift Station	Airport Plaza	\$42,285
Flood - 500 Year Floodplain	Public Works/Utility	Sewer Lift Station	Border Links and Ranch Road	\$42,285
Flood - 500 Year Floodplain	Transportation	Airline Terminal	9502 W. Airport Drive	Unknown
Flood - 500 Year Floodplain	Transportation	City Bridge #10	RD 136 @ Walnut Avenue (288)	Unknown
Flood - 500 Year Floodplain	Transportation	City Bridge #13	Green Oaks Avenue	Unknown
Flood - 500 Year Floodplain	Transportation	City Bridge #3	0.3 mi N of Avenue 288	Unknown
Flood - 500 Year Floodplain	Transportation	City Bridge #4	0.12 mi N of AVE 280	Unknown



**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - 500 Year Floodplain	Transportation	Visalia Municipal Airport	9501 W. AIRPORT DR	\$5,941,613
Flood - Dam Failure, Terminus Dam	Community	Anthony Community Center/Provident Skate Park	345 N. Jacob	\$2,194,681
Flood - Dam Failure, Terminus Dam	Community	Blain Park	South Court and Parkview	\$371,913
Flood - Dam Failure, Terminus Dam	Community	Cherry Meadow Park	Pinkham and Cherry Street	\$554,112
Flood - Dam Failure, Terminus Dam	Community	Combs Park	La Vida and Crenshaw	Unknown
Flood - Dam Failure, Terminus Dam	Community	Constitution Park	West Tulare and Crenshaw Ct.	Unknown
Flood - Dam Failure, Terminus Dam	Community	Creative Center	606 N. Bridge Street	\$21,176
Flood - Dam Failure, Terminus Dam	Community	Crestwood Park	S.W. County Center Drive and Whitendale Avenue	\$5,657
Flood - Dam Failure, Terminus Dam	Community	Fairview Community Center	2645 N. Conyer Street	\$240,000
Flood - Dam Failure, Terminus Dam	Community	Fairview Park	Wren Drive and N. Highland St	\$584,290
Flood - Dam Failure, Terminus Dam	Community	Houk Park	S. Woodland & Dartmouth	\$48,694
Flood - Dam Failure, Terminus Dam	Community	Ice House Theater	410 E. Race Avenue.	\$189,322
Flood - Dam Failure, Terminus Dam	Community	Jefferson Park	S. Watson Street and W. Myrtle Avenue	\$87,554
Flood - Dam Failure, Terminus Dam	Community	Lincoln Oval Park/Oval Building	N. Court and N.W. 2nd	\$272,042
Flood - Dam Failure, Terminus Dam	Community	Lion's Park	6500 W. Ferguson Avenue	Unknown

**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Terminus Dam	Community	Main Street Theater (Enchanted Playhouse)	301 E. Main Street	Unknown
Flood - Dam Failure, Terminus Dam	Community	Manuel Hernandez Community Center	247 W. Ferguson Avenue	\$610,636
Flood - Dam Failure, Terminus Dam	Community	Mayors Park	N. Hall Avenue and W. Main Street	\$24,365
Flood - Dam Failure, Terminus Dam	Community	Memorial Park	N. Hall Avenue and W. Main Street	\$17,430
Flood - Dam Failure, Terminus Dam	Community	Mill Creek Garden	N. Lovers Lane and Millcreek Parkway	Unknown
Flood - Dam Failure, Terminus Dam	Community	Pinkham Park	S. Pinkham Street and E. Tulare Avenue.	\$47,040
Flood - Dam Failure, Terminus Dam	Community	Plaza Park	700 S. Plaza Parkway	\$1,422,445
Flood - Dam Failure, Terminus Dam	Community	Police Gun Range	7398 Avenue 328	\$91,160
Flood - Dam Failure, Terminus Dam	Community	Rawhide Ballpark	300 N. Giddings St.	\$14,143,362
Flood - Dam Failure, Terminus Dam	Community	Rec Center (PAL) & Former Caltrans Maintenance Yard	701 E. Race Avenue	Unknown
Flood - Dam Failure, Terminus Dam	Community	Recreation Park	N. Jacob and W. Center	\$41,486
Flood - Dam Failure, Terminus Dam	Community	River Bend Park	N. Court Street & W. Wren Avenue	\$436,520
Flood - Dam Failure, Terminus Dam	Community	Riverway Sports Park	3611 North Dinuba Blvd	\$15,589,715
Flood - Dam Failure, Terminus Dam	Community	Rotary Park	S. Divisidero & Harvard	\$5,657
Flood - Dam Failure, Terminus Dam	Community	Ruiz Park	639 E. Buena Vista Avenue	\$16,045

**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Terminus Dam	Community	Senior Center	310 N. Locust Street	\$390,919
Flood - Dam Failure, Terminus Dam	Community	Seven Oaks Park	E. Tulare Avenue and S. Edison Street	\$529,669
Flood - Dam Failure, Terminus Dam	Community	Shannon 1 Park	N. Mendonca Street and W. Tyler Avenue	\$98,874
Flood - Dam Failure, Terminus Dam	Community	Soroptimist Park	Linwood and W. Prospect Avenue	Unknown
Flood - Dam Failure, Terminus Dam	Community	Stonebrook Park	W. Hemlock Avenue and Martin Street	\$154,985
Flood - Dam Failure, Terminus Dam	Community	Summers Park	Summers Park N. and N. Court Street	\$46,108
Flood - Dam Failure, Terminus Dam	Community	Sunset Park	W. Monte Verde Avenue and Lisendra Drive	\$36,754
Flood - Dam Failure, Terminus Dam	Community	Valley Oak Golf Course	1800 S. Plaza Drive	Unknown
Flood - Dam Failure, Terminus Dam	Community	West Main Park	Mill Creek Drive and W. Main Street	Unknown
Flood - Dam Failure, Terminus Dam	Community	Whitendale Park & Community Center	630 W. Beech Avenue	\$233,058
Flood - Dam Failure, Terminus Dam	Community	Willow Glen Park	N Akes St. and Hurley Avenue	\$48,060
Flood - Dam Failure, Terminus Dam	Community	Wittman Village Park	North Court & Pearl	Unknown
Flood - Dam Failure, Terminus Dam	Community	Wittman Village Park & Community Center	317 Pearl St.	\$75,204
Flood - Dam Failure, Terminus Dam	Community	Woodland Park	1701 N. Woodland	\$399,156
Flood - Dam Failure, Terminus Dam	Emergency Response	Fire Annex/Fire Station 51	309 S. Johnson	\$191,697

**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Terminus Dam	Emergency Response	Fire Station 52	2224 W. Monte Vista	\$786,993
Flood - Dam Failure, Terminus Dam	Emergency Response	Fire Station 53	9500 Airport Drive (Hangars Way)	\$734,016
Flood - Dam Failure, Terminus Dam	Emergency Response	Fire Station 54	440 W. Ferguson St.	\$793,091
Flood - Dam Failure, Terminus Dam	Emergency Response	Fire Station 55/Fire Training Facility	6291 W. Ferguson St.	\$7,033,266
Flood - Dam Failure, Terminus Dam	Emergency Response	Police - HQ /Fire Station #1	303 & 315 S. Johnson	\$937,145
Flood - Dam Failure, Terminus Dam	Emergency Response	Police District One	204 NW 3rd Avenue	\$4,407,799
Flood - Dam Failure, Terminus Dam	Emergency Response	Police District Two	4100 S. County Center Drive	\$5,179,230
Flood - Dam Failure, Terminus Dam	Emergency Response	Repeater Site	9000 W. Airport	Unknown
Flood - Dam Failure, Terminus Dam	Emergency Response	Repeater Site	Giddings north of Mineral King	Unknown
Flood - Dam Failure, Terminus Dam	Emergency Response	Repeater Site	115 W. Murray	Unknown
Flood - Dam Failure, Terminus Dam	Emergency Response	Repeater Site	1717 N. McAuliff	Unknown
Flood - Dam Failure, Terminus Dam	Emergency Response	Shannon 2 Park	W. Jerome Avenue and N. Carson Street	\$98,874
Flood - Dam Failure, Terminus Dam	Government	City Hall East (EOC Backup)	315 E. Acequia	\$364,102
Flood - Dam Failure, Terminus Dam	Government	City Hall North/City Administration	425 E. Oak Avenue	\$1,692,904
Flood - Dam Failure, Terminus Dam	Government	City Hall West/Fire Administration	707 W. Acequia Avenue.	\$626,618

**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Terminus Dam	Government	Convention Center	303 E. Acequia	\$22,547,179
Flood - Dam Failure, Terminus Dam	Government	SPCA	29016 Highway 99	Unknown
Flood - Dam Failure, Terminus Dam	Health	Kaweah Delta District Hospital	400 W. Mineral King Avenue.	Unknown
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Court	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Damaree and 198	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Chinowith and Caldwell	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Demaree and Victor	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Burke and Murray	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Library	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Caldwell and Jacob	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	John Combs Park	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Crenshaw and COS Farm	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Mooney Boulevard and Packwood	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Chinowith and 198	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Lindwood and Evans Ditch	\$42,285

**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Fairview Park and 63	\$62,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Mooney Boulevard and Modoc	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	St. John's and Norman	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Ben Maddox and Walnut	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Chinowith and Walnut	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Walnut and Savannah	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Walnut and County Center	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Julieann and Feemster	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Sowell and Feemster	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Pinkham and Tulare	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Cotta and Tulare	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Tulare and Roeben	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	3037 E. Noble	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	SR-198 and Road 76	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Mill Creek Park	\$42,285

**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Buena Vista and St. John's	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Ferguson and 63	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Ben Maddox and St. John's	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Lift Station	Bradley and St. John's	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Sewer Lift Station	Mooney Boulevard and Sunnyside	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Sewer Lift Station	Evergreen and Linda Vista	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Sewer Lift Station	Demaree and Pryor	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Sewer Lift Station	Shirk and 198	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Sewer Lift Station	Effie and Camp	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Sewer Lift Station	Mary and County Center	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Sewer Lift Station	Airport Plaza	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Sewer Lift Station	Mill Creek and Main	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Sewer Lift Station	Border Links and Ranch Road	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Sewer Lift Station	Golf Course	\$42,285
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Sewer Lift Station	St. John's and Modoc	\$42,285

**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Solid Waste - Admin, Warehouse, Shop, and Cain Building	309 N. Cain St.	\$141,579
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Wastewater Treatment Plant	7579 Avenue 288	\$55,057,784
Flood - Dam Failure, Terminus Dam	Transportation	Airline Terminal	9502 W. Airport Drive	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	City Bridge #1	0.8 mi N of SR 216	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	City Bridge #10	RD 136 @ Walnut Avenue (288)	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	City Bridge #11	0.1 mi N SR 198	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	City Bridge #12	0.15 mi N of K RD	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	City Bridge #13	Green Oaks Avenue	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	City Bridge #14	0.1 mi NE SR 198	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	City Bridge #15	0.15 mi N of SR 198	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	City Bridge #16	0.08 mi N Of SR 198	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	City Bridge #2	0.45 mi N Avenue 288	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	City Bridge #3	0.3 mi N of Avenue 288	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	City Bridge #4	0.12 mi N of AVE 280	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	City Bridge #5	1.1 mi W of RD 140	Unknown



**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

Hazard	Category	Name	Address	Value
Flood - Dam Failure, Terminus Dam	Transportation	City Bridge #6	0.4 mi SE of Avenue 304	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	City Bridge #7	0.25 mi N of SR 198	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	City Bridge #8	0.5 mi N of SR 216	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	City Bridge #9	0.5 mi E of 63	Unknown
Flood - Dam Failure, Terminus Dam	Transportation	Transit Maintenance Facility	525 N Cain	\$10,176,794
Flood - Dam Failure, Terminus Dam	Transportation	Visalia Municipal Airport	9501 W. AIRPORT DR	\$5,941,613
Fog <sup>+</sup>	Community	Anthony Community Center/Provident Skate Park	345 N. Jacob	\$2,194,681
Fog <sup>+</sup>	Community	Blain Park	South Court and Parkview	\$371,913
Fog <sup>+</sup>	Community	Cherry Meadow Park	Pinkham and Cherry Street	\$554,112
Fog <sup>+</sup>	Community	Combs Park	La Vida and Crenshaw	Unknown
Fog <sup>+</sup>	Community	Constitution Park	West Tulare and Crenshaw Ct.	Unknown
Fog <sup>+</sup>	Community	Creative Center	606 N. Bridge Street	\$21,176
Fog <sup>+</sup>	Community	Crestwood Park	S.W. County Center Drive and Whitendale Avenue	\$5,657
Fog <sup>+</sup>	Community	Fairview Community Center	2645 N. Conyer Street	\$240,000
Fog <sup>+</sup>	Community	Fairview Park	Wren Drive and N. Highland St	\$584,290
Fog <sup>+</sup>	Community	Houk Park	S. Woodland & Dartmouth	\$48,694
Fog <sup>+</sup>	Community	Ice House Theater	410 E. Race Avenue.	\$189,322
Fog <sup>+</sup>	Community	Jefferson Park	S. Watson Street and W. Myrtle Avenue	\$87,554
Fog <sup>+</sup>	Community	Lincoln Oval Park/Oval Building	N. Court and N.W. 2nd	\$272,042

**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Fog <sup>+</sup>	Community	Lion's Park	6500 W. Ferguson Avenue	Unknown
Fog <sup>+</sup>	Community	Main Street Theater (Enchanted Playhouse)	301 E. Main Street	Unknown
Fog <sup>+</sup>	Community	Manuel Hernandez Community Center	247 W. Ferguson Avenue	\$610,636
Fog <sup>+</sup>	Community	Mayors Park	N. Hall Avenue and W. Main Street	\$24,365
Fog <sup>+</sup>	Community	Memorial Park	N. Hall Avenue and W. Main Street	\$17,430
Fog <sup>+</sup>	Community	Mill Creek Garden	N. Lovers Lane and Millcreek Parkway	Unknown
Fog <sup>+</sup>	Community	Pinkham Park	S. Pinkham Street and E. Tulare Avenue.	\$47,040
Fog <sup>+</sup>	Community	Plaza Park	700 S. Plaza Parkway	\$1,422,445
Fog <sup>+</sup>	Community	Police Gun Range	7398 Avenue 328	\$91,160
Fog <sup>+</sup>	Community	Rawhide Ballpark	300 N. Giddings St.	\$14,143,362
Fog <sup>+</sup>	Community	Rec Center (PAL) & Former Caltrans Maintenance Yard	701 E. Race Avenue	Unknown
Fog <sup>+</sup>	Community	Recreation Park	N. Jacob and W. Center	\$41,486
Fog <sup>+</sup>	Community	River Bend Park	N. Court Street & W. Wren Avenue	\$436,520
Fog <sup>+</sup>	Community	Riverway Sports Park	3611 North Dinuba Blvd	\$15,589,715
Fog <sup>+</sup>	Community	Rotary Park	S. Divisidero & Harvard	\$5,657
Fog <sup>+</sup>	Community	Ruiz Park	639 E. Buena Vista Avenue	\$16,045
Fog <sup>+</sup>	Community	Senior Center	310 N. Locust Street	\$390,919
Fog <sup>+</sup>	Community	Seven Oaks Park	E. Tulare Avenue and S. Edison Street	\$529,669

**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

Hazard	Category	Name	Address	Value
Fog <sup>+</sup>	Community	Shannon 1 Park	N. Mendonca Street and W. Tyler Avenue	\$98,874
Fog <sup>+</sup>	Community	Soroptimist Park	Linwood and W. Prospect Avenue	Unknown
Fog <sup>+</sup>	Community	Stonebrook Park	W. Hemlock Avenue and Martin Street	\$154,985
Fog <sup>+</sup>	Community	Summers Park	Summers Park N. and N. Court Street	\$46,108
Fog <sup>+</sup>	Community	Sunset Park	W. Monte Verde Avenue and Lisendra Drive	\$36,754
Fog <sup>+</sup>	Community	Valley Oak Golf Course	1800 S. Plaza Drive	Unknown
Fog <sup>+</sup>	Community	West Main Park	Mill Creek Drive and W. Main Street	Unknown
Fog <sup>+</sup>	Community	Whitendale Park & Community Center	630 W. Beech Avenue	\$233,058
Fog <sup>+</sup>	Community	Willow Glen Park	N Akes St. and Hurley Avenue	\$48,060
Fog <sup>+</sup>	Community	Wittman Village Park	North Court & Pearl	Unknown
Fog <sup>+</sup>	Community	Wittman Village Park & Community Center	317 Pearl St.	\$75,204
Fog <sup>+</sup>	Community	Woodland Park	1701 N. Woodland	\$399,156
Fog <sup>+</sup>	Emergency Response	Fire Annex/Fire Station 51	309 S. Johnson	\$191,697
Fog <sup>+</sup>	Emergency Response	Fire Station 52	2224 W. Monte Vista	\$786,993
Fog <sup>+</sup>	Emergency Response	Fire Station 53	9500 Airport Drive (Hangars Way)	\$734,016
Fog <sup>+</sup>	Emergency Response	Fire Station 54	440 W. Ferguson St.	\$793,091
Fog <sup>+</sup>	Emergency Response	Fire Station 55/Fire Training Facility	6291 W. Ferguson St.	\$7,033,266
Fog <sup>+</sup>	Emergency Response	Police - HQ /Fire Station #1	303 & 315 S. Johnson	\$937,145
Fog <sup>+</sup>	Emergency Response	Police District One	204 NW 3rd Avenue	\$4,407,799

**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Fog <sup>+</sup>	Emergency Response	Police District Two	4100 S. County Center Drive	\$5,179,230
Fog <sup>+</sup>	Emergency Response	Repeater Site	9000 W. Airport	Unknown
Fog <sup>+</sup>	Emergency Response	Repeater Site	Giddings north of Mineral King	Unknown
Fog <sup>+</sup>	Emergency Response	Repeater Site	115 W. Murray	Unknown
Fog <sup>+</sup>	Emergency Response	Repeater Site	1717 N. McAuliff	Unknown
Fog <sup>+</sup>	Emergency Response	Shannon 2 Park	W. Jerome Avenue and N. Carson Street	\$98,874
Fog <sup>+</sup>	Government	City Hall East (EOC Backup)	315 E. Acequia	\$364,102
Fog <sup>+</sup>	Government	City Hall North/City Administration	425 E. Oak Avenue	\$1,692,904
Fog <sup>+</sup>	Government	City Hall West/Fire Administration	707 W. Acequia Avenue.	\$626,618
Fog <sup>+</sup>	Government	Convention Center	303 E. Acequia	\$22,547,179
Fog <sup>+</sup>	Government	SPCA	29016 Highway 99	Unknown
Fog <sup>+</sup>	Health	Kaweah Delta District Hospital	400 W. Mineral King Avenue.	Unknown
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Court	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Damaree and 198	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Chinowith and Caldwell	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Demaree and Victor	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Burke and Murray	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Library	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Caldwell and Jacob	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	John Combs Park	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Crenshaw and COS Farm	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Mooney Boulevard and Packwood	\$42,285

**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Chinowith and 198	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Lindwood and Evans Ditch	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Fairview Park and 63	\$62,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Mooney Boulevard and Modoc	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	St. John's and Norman	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Ben Maddox and Walnut	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Chinowith and Walnut	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Walnut and Savannah	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Walnut and County Center	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Julieann and Feemster	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Sowell and Feemster	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Pinkham and Tulare	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Cotta and Tulare	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Tulare and Roeben	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	3037 E. Noble	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	SR-198 and Road 76	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Mill Creek Park	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Buena Vista and St. John's	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Ferguson and 63	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Ben Maddox and St. John's	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Lift Station	Bradley and St. John's	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Sewer Lift Station	Mooney Boulevard and 272	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Sewer Lift Station	Mooney Boulevard and Sunnyside	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Sewer Lift Station	Evergreen and Linda Vista	\$42,285

**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

Hazard	Category	Name	Address	Value
Fog <sup>+</sup>	Public Works/Utility	Sewer Lift Station	Demaree and Pryor	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Sewer Lift Station	Shirk and 198	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Sewer Lift Station	Effie and Camp	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Sewer Lift Station	Mary and County Center	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Sewer Lift Station	Airport Plaza	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Sewer Lift Station	Mill Creek and Main	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Sewer Lift Station	Border Links and Ranch Road	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Sewer Lift Station	Golf Course	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Sewer Lift Station	St. John's and Modoc	\$42,285
Fog <sup>+</sup>	Public Works/Utility	Solid Waste - Admin, Warehouse, Shop, and Cain Building	309 N. Cain St.	\$141,579
Fog <sup>+</sup>	Public Works/Utility	Wastewater Treatment Plant	7579 Avenue 288	\$55,057,784
Fog <sup>+</sup>	Transportation	Airline Terminal	9502 W. Airport Drive	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #1	0.8 mi N of SR 216	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #10	RD 136 @ Walnut Avenue (288)	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #11	0.1 mi N SR 198	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #12	0.15 mi N of K RD	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #13	Green Oaks Avenue	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #14	0.1 mi NE SR 198	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #15	0.15 mi N of SR 198	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #16	0.08 mi N Of SR 198	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #2	0.45 mi N Avenue 288	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #3	0.3 mi N of Avenue 288	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #4	0.12 mi N of AVE 280	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #5	1.1 mi W of RD 140	Unknown

**Table N-4. City of Visalia, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Fog <sup>+</sup>	Transportation	City Bridge #6	0.4 mi SE of Avenue 304	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #7	0.25 mi N of SR 198	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #8	0.5 mi N of SR 216	Unknown
Fog <sup>+</sup>	Transportation	City Bridge #9	0.5 mi E of 63	Unknown
Fog <sup>+</sup>	Transportation	Transit Maintenance Facility	525 N Cain	\$10,176,794
Fog <sup>+</sup>	Transportation	Visalia Municipal Airport	9501 W. Airport Drive	\$5,941,613

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table N-5. City of Visalia, 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 - Moderate Groundshaking	126,139	100%	43,828	100%
Flood - 100 Year Floodplain	37,417	29.7%	12,003	27.4%
Flood - 500 Year Floodplain	87,819	70%	31,568	72%
Flood - Dam Failure, Terminus Dam	125,469	99%	43,563	99%
Fog <sup>+</sup>	126,139	100%	43,828	100%

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.



**Table N-6. City of Visalia, 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 - Moderate Groundshaking	123	100%
Flood - 100 Year Floodplain	52	42%
Flood - 500 Year Floodplain	68	55%
Flood - Dam Failure, Terminus Dam	122	99%
Fog <sup>+</sup>	123	100%

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table N-7. City of Visalia, Human and Technical Resources for Hazard Mitigation**

Staff/Personnel Resources	Department or Agency	Principal Activities Related to Hazard Mitigation
Planner(s), engineer(s) and technical staff with knowledge of land development, land management practices, and human-caused and natural hazards.	Paul Scheibel, Community Development Planning, 559-713-4369 Ricardo Noguera, Neighborhood Preservation 559-713-4190	Develops and maintains the General Plan, including the Safety Element. Develops area plans based on the General Plan, to provide more specific guidance for the development of more specific areas. Reviews private development projects and proposed capital improvements projects and other physical projects involving property for consistency and conformity with the General Plan. Anticipates and acts on the need for new plans, policies, and Code changes. Applies the approved plans, policies, code provisions, and other regulations to proposed land uses.
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.	Dennis Lehman, Building Safety, 559-713-4495	Oversees the effective, efficient, fair, and safe enforcement of the California Building Code
Engineers, construction project managers, and supporting technical staff.	Adam Ennis, Engineering Admin., 559-713-4323 Doug Damako, Engineering Services, 559-713-4268	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.	Andrew Benelli Public Works Director, 559-713-4340 Jim Ross, Waste Water Treatment Plant, 559-713-4466 Brian Vanciel, Sanitary Sewer Mains, 559-713-4403	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	Chris Young, Engineer, Community Development Management, 559-713-4392	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 plan participant or tribal area.

**Table N-7. City of Visalia, Human and Technical Resources for Hazard Mitigation**

Staff/Personnel Resources	Department or Agency	Principal Activities Related to Hazard Mitigation
Emergency Manager	Steve Salomon, City Manager Mike Olmos, Deputy City Manager	Maintains and updates the Emergency Operations Plan for the plan participant. 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	Eric Frost, Finance Director 559-713-4474 Renee Nagel, Finance Manager 559-713-4375	Provides a full range of municipal financial services, administers several licensing measures, and functions as the plan participant's Procurement Services Manager.

**Table N-8. City of Visalia, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Local</b>	General Fund	Not Applicable	Program operations and specific projects.	Variable. [FY 10/11 \$55,854,740]
	General Obligation (GO) Bonds	[VPFA Cert. of Participation Two HUD 108 loans which are paid from CDBG funds]	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. [principal outstanding balance on 7/1/10 of \$2.6m] Principal balance on 7/1/10 of \$3.6m combined
<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 N-8. City of Visalia, 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., storm water) 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 N-8. City of Visalia, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<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 N-9. City of Visalia, Legal and Regulatory Resources for Hazard Mitigation**

Regulatory Tool	Name	Description (Effect on Hazard Mitigation)	Hazards Addressed	Mitigation, Preparedness, Response, or Recovery	Affects Development in Hazard Areas?
Plans	General Plan: Safety Element (1975)	Describes hazard areas and regulates current and future development based on known hazard areas.	Adopted 1975 Tulare County Safety Element <ul style="list-style-type: none"> <li>▪ Earthquake</li> <li>▪ Fire</li> <li>▪ Dam Failure</li> <li>▪ Hazardous Materials</li> <li>▪ Nuclear Hazard</li> <li>▪ Flooding</li> </ul>	Mitigation & Preparedness	Yes
	Emergency Operations Plan (revised 2008)	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 Hazards <ul style="list-style-type: none"> <li>▪ Earthquake</li> <li>▪ Flooding</li> <li>▪ Severe Weather</li> <li>▪ Fire</li> </ul> Technical Hazards <ul style="list-style-type: none"> <li>▪ Dam Failure</li> <li>▪ Hazardous Material</li> <li>▪ Transportation Emergencies</li> <li>▪ Train Accident</li> <li>▪ Major Truck Accident</li> <li>▪ Aircraft Accident</li> </ul> Domestic Security Threats	Response	No

**Table N-9. City of Visalia, Legal and Regulatory Resources for Hazard Mitigation**

Regulatory Tool	Name	Description (Effect on Hazard Mitigation)	Hazards Addressed	Mitigation, Preparedness, Response, or Recovery	Affects Development in Hazard Areas?
<b>Plans (cont)</b>	Storm water Quality Management Program (SWQMP) (2005)	Describes measures that the local jurisdiction will take to minimize storm water pollution. The SWQMP is required by the National Pollutant Discharge Elimination System Phase II regulations, which became effective in March 2003.	<ul style="list-style-type: none"> <li>▪ Storm water</li> </ul>	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.	<ul style="list-style-type: none"> <li>▪ Earthquake</li> <li>▪ Fire</li> <li>▪ Hazardous Materials</li> <li>▪ Noise</li> <li>▪ Public Disturbances</li> </ul>	Mitigation, Preparedness, and Response	Yes



**Table N-10. City of Visalia, 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>
None	Not Applicable	Not Applicable	Not Applicable

**Table N-11. City of Visalia, 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 of residential and/or non-residential structures in hazard areas, such high and/or very high wildfire areas.	Property Protection	All	New and Existing – Residential and non-residential buildings in hazard areas.
2	Integrate the Tulare County 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	Not applicable.
3	Seismically retrofit or replace public works and/or emergency response facilities that are necessary during and/or immediately after a disaster or emergency.	Property Protection, Structural Project	Earthquake	Existing – Public works and/or emergency response facilities that are structurally deficient or located within a high ground shaking area.
4	Seismically retrofit or replace 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 and/or immediate after a disaster or emergency.	Property Protection, Structural Project	Earthquake	Existing – Ramps and bridges identified by Caltrans as structurally deficient or located within an extreme ground shaking area.
5	Develop a public outreach program that informs property owners located in the dam or levee inundation areas about voluntary flood insurance.	Public Outreach	Flood (Dam and Levee Failure)	Existing – Residential buildings located within dam or levee inundation areas.
6	Create a database that accounts for all levees in Tulare County and their condition.	All	Flood (Levee Failure)	Not applicable.
7	Acquire, relocate, or elevate residential structures, in particular those that have been identified as Repetitive Loss (RL) properties that are located within the 100-year floodplain.	Property Protection	Flood (Riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
8	Acquire, relocate, elevate, and/or floodproof critical facilities that are located within the 100-year floodplain.	Property Protection	Flood (Riverine)	Existing - Critical facilities located within the 100-year floodplain.

**Table N-11. City of Visalia, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
9	Reinforce County and local ramps, bridges, and roads from flooding through protection activities, including elevating the road and installing culverts beneath the road or building a higher bridge across the area that experiences regular flooding.	Property Protection, Structural Project	Flood (Riverine)	Existing – County and local ramps, bridges, and roads identified in the 100-year floodplain.
10	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide Digital Flood Insurance Rate Map (DFIRM), Community Assessment Visits, and/or the Department of Water Resources (DWR).	All	Flood (Riverine)	New/Existing -Properties within the 100-year or 500-year floodplain.
11	Increase participation in the National Flood Insurance Program (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	Flood (Riverine)	New/Existing –County and incorporated communities that have RL properties.
12	Continue to work with weather forecasting and public safety agencies to provide warning and protective information to residents, travelers, and visitors about severe valley fog conditions*.	Prevention	Fog	Not applicable.
13	Implement post-fire debris flow hill-slope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-Fire Debris Flow	Existing – Public works facilities.
14	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	Existing – Critical facilities located in areas that experience severe wind.
15	Develop a free annual tree chipping and tree pick-up day that encourages residents living in wind hazard areas to manage trees and shrubs at risk to falling on nearby structures.	Property Protection	Severe Winter Storm	Existing – Residential buildings that experience severe wind.

**Table N-11. City of Visalia, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
16	Bolt down the roofs of critical facilities in wind gust hazard areas in order to prevent wind damage.	Property Protection	Severe Winter Storm	Existing – Critical facilities located in areas that experience wind gusts.
17	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 high and very high wildfire zones.	Prevention, Property Protection, Natural Resource Protection	Wildfire	Existing – Critical facilities and residential buildings located within high and very high wildfire zones.
18	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 from around their homes.	Property Protection	Wildfire	Existing – Residential buildings in high or very high wildfire zones.
19	Develop a community wildfire mitigation plan that identifies and prioritizes areas for hazard fuel reduction treatments, and recommend the types of methods of treatments.	Prevention, Property Protection	Wildfires	New/ Existing – Residential and non-residential buildings located within high or very high wildfire areas in the Local Responsibility Areas
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 –Residential and non-residential buildings located within high or very high wildfire areas.
21	Acquire land upstream and develop storm water layoff basins for Packwood Creek, Mill Creek, and Evans Ditch to reduce flooding from the 1% annual chance flood.	Prevention, Property Protection	Flood (Riverine)	New/Existing -Properties within the 100-year floodplain.
22	Increase channel capacities for ditches and waterways that convey flood flows and City storm water flows into and through the City.	Prevention, Property Protection	Flood (Riverine)	New/Existing -Properties within the 100-year or 500-year floodplain.

\* Mitigation action does not meet the 2011 HMA Guidance requirements for FEMA mitigation funding

**Table N-12. City of Visalia, Mitigation Action Plan**

No.	Selected (Y/N)	Description	Prioritization Criteria	Facility to be Mitigated (if known)	Department or Agency	Timeframe to be Implemented
1	Y	Improve our GIS for use as a pre-application tool for new construction and major remodels of residential and/or non-residential structures located in special flood hazard areas.	A, B, C, D	Citywide	Community Development	1 year
2	Y	Integrate the Tulare County HMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	A, B, C, D, E	Citywide	Community Development and Fire Department	2 years
3	Y	Develop a public outreach program that informs property owners located in the dam or levee inundation areas about voluntary flood insurance.	A, B, C, D	Citywide	Community Development	1 year
4	Y	Develop strategies and action plans to address any floodplain management issues that have arisen or will arise from FEMA and/or DWR regarding the countywide DFIRM update, Community Assessment Visits or other floodplain related activities.	A, B, C, D	Citywide	Community Development	ongoing
5	Y	Increase participation in the NFIP by improving the Community Rating System classification level for the community through enhanced floodplain management activities would allow property owners to receive a discount on their flood insurance.	A, B, C, D	Citywide	Community Development	ongoing
6	Y	Relocate the EOC from the basement of the Public Safety Building to Fire Station 55. Relocation will reduce flooding risk and improve operational functionality.	A, B, C, D, E	EOC	Fire Department	1 year

**Table N-12. City of Visalia, Mitigation Action Plan**

No.	Selected (Y/N)	Description	Prioritization Criteria	Facility to be Mitigated (if known)	Department or Agency	Timeframe to be Implemented
7	Y	Implement citywide drainage basin management program that includes an information database and on-site tools for use by staff in the management of drainage basins during rainfall events.	A, B, C, D	Drainage basins citywide	Community Development and Public Works	2 years
8	Y	Upgrade existing drainage basin pumps citywide to best utilize channel capacities and to increase basin capacities.	A, B, C, D	Drainage basins citywide	Community Development and Public Works	3 years
9	Y	Increased capacity at the McDermott Basin to increase the level of protection for the west side sunken portion of SR-198. Additional excavation and overflow spillway anticipated.	A, B, C, D	McDermott Basin	Community Development	3 years
10	Y	Increased capacity at the Goshen Ocean Basin to increase the level of protection. Additional property acquisition and excavation anticipated.	A, B, C, D	Goshen Ocean Basin	Community Development	3 years
11	Y	Engineering study of the existing drainage systems in the Downtown and Oval Park areas to determine existing deficiencies and to develop capital projects to improve drainage and to reduce direct flows into Mill Creek.	A, B, C, D	Downtown and Oval Park area drainage system	Community Development and Public Works	2 years
12	Y	Construct inflow and outflow structures at the Oaks Basin located on Mill Creek upstream of the city to provide functional operation of this upstream lay-off basin.	A, B, C, D	Citywide	Community Development	3 years
21	Y	Acquire land upstream and develop storm water layoff basins for Packwood Creek, Mill Creek, and Evans Ditch to reduce flooding from the 1% annual chance flood.	A, B, C, D	Citywide	Community Development	3 years

**Table N-12. City of Visalia, Mitigation Action Plan**

No.	Selected (Y/N)	Description	Prioritization Criteria	Facility to be Mitigated (if known)	Department or Agency	Timeframe to be Implemented
22	Y	Increase channel capacities for ditches and waterways that convey flood flows and City storm water flows into and through the City	A, B, C, D	Citywide	Community Development	3 years

**Prioritization Criteria**

- A. A local jurisdiction department or agency champion currently exists or can be identified
- B. The action can be implemented during the 5-year lifespan of the HMP
- C. The action may reduce expected future damages and losses (cost-benefit)
- D. The action mitigates a high-risk hazard
- E. The action mitigates multiple hazards

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**Appendix O**  
**City of Woodlake**

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**Table O-1. City of Woodlake, Total Population and Residential Buildings**

<b>Population</b>	<b>Residential Buildings</b>	<b>Total Residential Building Value(2000)</b>
7,914	2,173.	\$146,547,600

(Average structural value of residences in Census blocks for the year 2000: \$89,833)

Source: U.S. Census Bureau, 2000, California Department of Finance, 2010

**Table O-2. City of Woodlake, Total Critical Facilities and Infrastructure**

Category	Name	Address	Value
Community	Valencia House	248 N. Valencia Blvd	Unknown
Community	Willow Court Park	E. Sierra Avenue and Willow Ct.	Unknown
Community	Woodlake City Park and Miller Brown Park	E. Antelope Avenue and N. Magnolia Street	Unknown
Emergency Response	Woodlake FFS	35590 Olivera Drive	Unknown
Emergency Response	Woodlake Fire Prot. District	216 E Naranjo Blvd	\$250,000
Emergency Response	Woodlake Police Department	350 N. Valencia Boulevard	\$500,000
Government	Woodlake City Hall	350 N. Valencia Boulevard	\$500,000
Public Works/Utilities	Woodlake Water Tower	552 N. Castle Rock	\$1,600,000
Public Works/Utilities	Public Works Department/Wastewater Treatment Plan	595 S. Valencia Boulevard	\$400,000
Public Works/Utilities	Woodlake Sewer Plant	811 S. Valencia	\$11,700,000
Transportation	Woodlake Airport	895 S. Valencia Boulevard	\$450,000

**Table O-3. City of Woodlake, Vulnerable Population and Residential Buildings**

Hazard	Population	Residential buildings	Total Residential Building Value
Earthquake - Light Groundshaking	7,914	2,173	\$146,547,600
Flood - 100 Year Floodplain	1,716	488	\$32,527,079
Flood - 500 Year Floodplain	1,498	381	\$24,011,063
Flood - Dam Failure, Terminus Dam	5,012	1,301	\$86,076,870
Fog <sup>+</sup>	7,905	2,167	\$145,777,321
Wildfire - High	3	2	\$230,448

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table O-4. City of Woodlake, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Light Groundshaking	Community	Valencia House	248 N. Valencia Blvd	Unknown
Earthquake - Light Groundshaking	Community	Willow Court Park	E. Sierra Avenue and Willow Ct.	Unknown
Earthquake - Light Groundshaking	Community	Woodlake City Park and Miller Brown Park	E. Antelope Avenue and N. Magnolia Street	Unknown
Earthquake - Light Groundshaking	Emergency Response	Woodlake FFS	35590 Olivera Drive	Unknown
Earthquake - Light Groundshaking	Emergency Response	Woodlake Fire Prot. District	216 E Naranjo Blvd	\$250,000
Earthquake - Light Groundshaking	Emergency Response	Woodlake Police Department	350 N. Valencia Boulevard	\$500,000
Earthquake - Light Groundshaking	Government	Woodlake City Hall	350 N. Valencia Boulevard	\$500,000
Earthquake - Light Groundshaking	Public Works/Utility	Public Works Department/ Wastewater Treatment Plan	595 S. Valencia Boulevard	\$400,000
Earthquake - Light Groundshaking	Public Works/Utility	Woodlake Sewer Plant	811 S. Valencia	\$11,700,000
Earthquake - Light Groundshaking	Public Works/Utility	Woodlake Water Tower	552 N. Castle Rock	\$1,600,000
Earthquake - Light Groundshaking	Transportation	Woodlake Airport	895 S. Valencia Boulevard	\$450,000
Flood - 100 Year Floodplain	Community	Willow Court Park	E. Sierra Avenue and Willow Ct.	Unknown
Flood - 100 Year Floodplain	Community	Woodlake City Park and Miller Brown Park	E. Antelope Avenue and N. Magnolia Street	Unknown
Flood - 100 Year Floodplain	Emergency Response	Woodlake FFS	35590 Olivera Drive	Unknown
Flood - 100 Year Floodplain	Public Works/Utility	Woodlake Sewer Plant	811 S. Valencia	\$11,700,000
Flood - 100 Year Floodplain	Transportation	Woodlake Airport	895 S. Valencia Boulevard	\$450,000
Flood - 500 Year Floodplain	Public Works/Utility	Public Works Department/Wastewater Treatment Plan	595 S. Valencia Boulevard	\$400,000
Flood - 500 Year Floodplain	Public Works/Utility	Woodlake Water Tower	552 N. Castle Rock	\$1,600,000
Flood - Dam Failure, Terminus Dam	Community	Willow Court Park	E. Sierra Avenue and Willow Ct.	Unknown
Flood - Dam Failure, Terminus Dam	Community	Woodlake City Park and Miller Brown Park	E. Antelope Avenue and N. Magnolia Street	Unknown

**Table O-4. City of Woodlake, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Terminus Dam	Emergency Response	Woodlake Fire Prot. District	216 E Naranjo Blvd	\$250,000
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Public Works Department/ Wastewater Treatment Plan	595 S. Valencia Boulevard	\$400,000
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Woodlake Sewer Plant	811 S. Valencia	\$11,700,000
Flood - Dam Failure, Terminus Dam	Public Works/Utility	Woodlake Water Tower	552 N. Castle Rock	\$1,600,000
Flood - Dam Failure, Terminus Dam	Transportation	Woodlake Airport	895 S. Valencia Boulevard	\$450,000
Fog <sup>+</sup>	Community	Valencia House	248 N. Valencia Blvd	Unknown
Fog <sup>+</sup>	Community	Willow Court Park	E. Sierra Avenue and Willow Ct.	Unknown
Fog <sup>+</sup>	Community	Woodlake City Park and Miller Brown Park	E. Antelope Avenue and N. Magnolia Street	Unknown
Fog <sup>+</sup>	Emergency Response	Woodlake FFS	35590 Olivera Drive	Unknown
Fog <sup>+</sup>	Emergency Response	Woodlake Fire Prot. District	216 E Naranjo Blvd	\$250,000
Fog <sup>+</sup>	Emergency Response	Woodlake Police Department	350 N. Valencia Boulevard	\$500,000
Fog <sup>+</sup>	Government	Woodlake City Hall	350 N. Valencia Boulevard	\$500,000
Fog <sup>+</sup>	Public Works/Utility	Public Works Department/ Wastewater Treatment Plan	595 S. Valencia Boulevard	\$400,000
Fog <sup>+</sup>	Public Works/Utility	Woodlake Sewer Plant	811 S. Valencia	\$11,700,000
Fog <sup>+</sup>	Public Works/Utility	Woodlake Water Tower	552 N. Castle Rock	\$1,600,000
Fog <sup>+</sup>	Transportation	Woodlake Airport	895 S. Valencia Boulevard	\$450,000

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table O-5. City of Woodlake, Repetitive Loss Properties**

Occupancy Type	Flood Zone	Losses
Single Family	AH	2



**Table O-6. City of Woodlake, 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 - Light Groundshaking	7,914	100%	2,173	100%
Flood - 100 Year Floodplain	1,716	21.7%	488	22.5%
Flood - 500 Year Floodplain	1,498	19%	381	18%
Flood - Dam Failure, Terminus Dam	5,012	63%	1,301	60%
Fog <sup>+</sup>	7,905	100%	2,167	100%
Wildfire - High	3	0.0%	2	0.1%

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table O-7. City of Woodlake, Summary of Impacts for Critical Facilities and Infrastructure**

Hazard	No. of Critical Facilities and Infrastructure	% of Critical Facilities and Infrastructure
Earthquake - Light Groundshaking	11	100%
Flood - 100 Year Floodplain	5	45%
Flood - 500 Year Floodplain	2	18%
Flood - Dam Failure, Terminus Dam	7	64%
Fog <sup>+</sup>	11	100.0%

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table O-8. City of Woodlake, Human and Technical Resources for Hazard Mitigation**

Staff/Personnel Resources	Department or Agency	Principal Activities Related to Hazard Mitigation
Planner(s), engineer(s) and technical staff with knowledge of land development, land management practices, and human-caused and natural hazards.	Quad Knoff	<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	Oversees the effective, efficient, fair, and safe enforcement of the California Building Code
Engineers, construction project managers, and supporting technical staff.	Quad Knoff	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.
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 plan participant or tribal area.

**Table O-8. City of Woodlake, Human and Technical Resources for Hazard Mitigation**

Staff/Personnel Resources	Department or Agency	Principal Activities Related to Hazard Mitigation
Emergency Manager	Bill Lewis	Maintains and updates the Emergency Operations Plan for the plan participant. 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	Bill Lewis	Provides a full range of municipal financial services, administers several licensing measures, and functions as the plan participant's Procurement Services Manager.

**Table O-9. City of Woodlake, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Local</b>	General Fund	Bill Lewis	Program operations and specific projects.	Variable.
	General Obligation (GO) Bonds	Bill Lewis	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	Bill Lewis	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 plan participant's general governmental purposes.	Variable.
	Public-Private Partnerships	Bill Lewis	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 O-9. City of Woodlake, 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.
	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 O-9. City of Woodlake, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<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 O-10. City of Woodlake, Legal and Regulatory Resources for Hazard Mitigation**

Regulatory Tool	Name	Description (Effect on Hazard Mitigation)	Hazards Addressed	Mitigation, Preparedness, Response, or Recovery	Affects Development in Hazard Areas?
<b>Plans</b>	General Plan: Safety Element (1975)	Describes hazard areas and regulates current and future development based on known hazard areas.	Adopted 1975 Tulare County Safety Element <ul style="list-style-type: none"> <li>▪ Earthquake</li> <li>▪ Fire</li> <li>▪ Dam Failure</li> <li>▪ Hazardous Materials</li> <li>▪ Nuclear Hazard</li> <li>▪ Flooding</li> </ul>	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.	<ul style="list-style-type: none"> <li>▪ Earthquake</li> <li>▪ Fire</li> <li>▪ Flood Plain Hazards</li> <li>▪ Abandoned Gas Station</li> <li>▪ Weed &amp; Rubbish</li> <li>▪ Oil &amp; Gas Wells</li> <li>▪ Open Buildings</li> <li>▪ Smoking</li> <li>▪ Abandoned Vehicle</li> </ul>	Mitigation, Preparedness, and Response	Yes



**Table O-11. City of Woodlake, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

Status (Current, Ongoing, or Completed)	Project / Program Name	Description	Year(s)
Completed	Water Tank #1	Construction of a 500 gallon water tank	2008
Completed	Storm Draining S. Acacia Storm Draining Laurel / Pine	Storm Drain Improvement	2008
Completed	Water Tank #2	Construction of a 500 gallon water tank	2010
Current	WWTP	Construction of a new waste water treatment	2012

**Table O-12. City of Woodlake, 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 of residential and/or non-residential structures in hazard areas, such high and/or very high wildfire areas.	Property Protection	All	New and Existing – Residential and non-residential buildings in hazard areas.
2	Integrate the Tulare County 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	Not applicable.
3	Seismically retrofit or replace public works and/or emergency response facilities that are necessary during and/or immediately after a disaster or emergency.	Property Protection, Structural Project	Earthquake	Existing – Public works and/or emergency response facilities that are structurally deficient or located within a high ground shaking area.
4	Seismically retrofit or replace 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 and/or immediate after a disaster or emergency.	Property Protection, Structural Project	Earthquake	Existing – Ramps and bridges identified by Caltrans as structurally deficient or located within an extreme ground shaking area.
5	Develop a public outreach program that informs property owners located in the dam or levee inundation areas about voluntary flood insurance.	Public Outreach	Flood (Dam and Levee Failure)	Existing – Residential buildings located within dam or levee inundation areas.
6	Create a database that accounts for all levees in Tulare County and their condition.	All	Flood (Levee Failure)	Not applicable.
7	Acquire, relocate, or elevate residential structures, in particular those that have been identified as Repetitive Loss (RL) properties that are located within the 100-year floodplain.	Property Protection	Flood (Riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
8	Acquire, relocate, elevate, and/or floodproof critical facilities that are located within the 100-year floodplain.	Property Protection	Flood (Riverine)	Existing - Critical facilities located within the 100-year floodplain.

**Table O-12. City of Woodlake, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
9	Reinforce County and local ramps, bridges, and roads from flooding through protection activities, including elevating the road and installing culverts beneath the road or building a higher bridge across the area that experiences regular flooding.	Property Protection, Structural Project	Flood (Riverine)	Existing – County and local ramps, bridges, and roads identified in the 100-year floodplain.
10	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide Digital Flood Insurance Rate Map (DFIRM), Community Assessment Visits, and/or the Department of Water Resources (DWR).	All	Flood (Riverine)	New/Existing -Properties within the 100-year or 500-year floodplain.
11	Increase participation in the National Flood Insurance Program (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	Flood (Riverine)	New/Existing –County and incorporated communities that have RL properties.
12	Continue to work with weather forecasting and public safety agencies to provide warning and protective information to residents, travelers, and visitors about severe valley fog conditions*.	Prevention	Fog	Not applicable.
13	Implement post-fire debris flow hill-slope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-Fire Debris Flow	Existing – Public works facilities.
14	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	Existing – Critical facilities located in areas that experience severe wind.
15	Develop a free annual tree chipping and tree pick-up day that encourages residents living in wind hazard areas to manage trees and shrubs at risk to falling on nearby structures.	Property Protection	Severe Winter Storm	Existing – Residential buildings that experience severe wind.

**Table O-12. City of Woodlake, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
16	Bolt down the roofs of critical facilities in wind gust hazard areas in order to prevent wind damage.	Property Protection	Severe Winter Storm	Existing – Critical facilities located in areas that experience wind gusts.
17	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 high and very high wildfire zones.	Prevention, Property Protection, Natural Resource Protection	Wildfire	Existing – Critical facilities and residential buildings located within high and very high wildfire zones.
18	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 from around their homes.	Property Protection	Wildfire	Existing – Residential buildings in high or very high wildfire zones.
19	Develop a community wildfire mitigation plan that identifies and prioritizes areas for hazard fuel reduction treatments, and recommend the types of methods of treatments.	Prevention, Property Protection	Wildfires	New/ Existing – Residential and non-residential buildings located within high or very high wildfire areas in the Local Responsibility Areas
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 – Residential and non-residential buildings located within high or very high wildfire areas.

\* Mitigation action does not meet the 2011 HMA Guidance requirements for FEMA mitigation funding

**Table O-13. City of Woodlake, Mitigation Action Plan**

No.	Selected (Y/N)	Description	Prioritization Criteria	Facility to be Mitigated (if known)	Department or Agency	Timeframe to be Implemented
2	Y	Integrate the Tulare County HMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	C, D, E	Woodlake Police Department Woodlake Fire Department Public Works Department	Police Fire Public Works	1 year - ongoing
3	Y	Seismically retrofit or replace public works and/or emergency response facilities that are necessary during and/or immediately after a disaster or emergency.	A, C, E	Woodlake Police Department Woodlake Fire Department Public Works Department	Police Fire Public Works	3 years

**Prioritization Criteria**

- |  |   |
|--|---|
| <p>A. A local jurisdiction department or agency champion currently exists or can be identified</p> <p>B. The action can be implemented during the 5-year lifespan of the HMP</p> | <p>C. The action may reduce expected future damages and losses (cost-benefit)</p> <p>D. The action mitigates a high-risk hazard</p> <p>E. The action mitigates multiple hazards</p> |
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**Appendix P**  
**Tulare County Office of Education**

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**Table P-1. Tulare County Office of Education, Total Critical Facilities and Infrastructure**

Category	Name	Address	City	Value
Education	Adult School Program	3110 East Houston	Visalia	Unknown
Education	Alila School	955 E. Tulare Avenue.	Tulare	Unknown
Education	Allensworth Elementary School	3320 Young Rd	Earlimart	Unknown
Education	Alpauch Junior-Senior High/Alpaugh Elementary School	5313 Road 39	Alpaugh	Unknown
Education	Alta Vista Elementary School	2293 E Crabtree Avenue	Porterville	Unknown
Education	Annie R. Mitchell Elementary School	2121 E Laura St	Visalia	Unknown
Education	Bartlett Middle School/Charter Alternative Academy School	355 North "G" Street	Porterville	Unknown
Education	Bellevue Elementary School	197 West Bellevue Street	Porterville	Unknown
Education	Bravo Lake High School	450 West Sequoia	Woodlake	Unknown
Education	Buckley Elementary School	2573 W. Westfield	Porterville	Unknown
Education	Buena Vista Elementary School	21660 Road 60	Tulare	Unknown
Education	Burton Community Day School	264 N Westwood	Porterville	Unknown
Education	Burton Elementary School	2375 W Morton Avenue	Porterville	Unknown
Education	Burton Middle School	1155 N. Elderwood St.,	Porterville	Unknown
Education	Butterfield Charter High School/Porterville Adult School	901 N Mooney Blvd	Visalia	Unknown
Education	Button Pathways Charter Academy	1414 West Olive Avenue.	Porterville	Unknown
Education	Carl Smith Middle School	23825 Avenue 92	Terra Bella	Unknown
Education	Castle Rock Elementary	360 N Castle Rock St	Woodlake	Unknown
Education	Charter Alternative Academy School/Union Elementary School	28050 Road 148	Visalia	Unknown
Education	Charter Home School Academy	31411 Road 160	Visalia	Unknown
Education	Cherry Middle School	540 N Cherry St	Tulare	Unknown

**Table P-1. Tulare County Office of Education, Total Critical Facilities and Infrastructure**

Category	Name	Address	City	Value
Education	Citrus High School	261 E Mulberry Avenue	Porterville	Unknown
Education	Citrus South Tule Elementary School	31374 Success Valley Drive	Porterville	Unknown
Education	College Of The Sequoias	895 W. Gail	Tulare	Unknown
Education	Columbine Elementary School	2240 Road 160	Delano	Unknown
Education	Conyer Elementary School	999 N Crawford Avenue	Dinuba	Unknown
Education	Cottonwood Creek Elementary School	4222 S Dans St	Visalia	Unknown
Education	Countryside High School	1084 South Pratt Street	Tulare	Unknown
Education	Crestwood Elementary School	3001 W Whitendale Avenue	Visalia	Unknown
Education	Crowley Elementary School	214 East Ferguson	Visalia	Unknown
Education	Culter-Orosi Community Day School	14198 Avenue 384	Yetttem	Unknown
Education	Cutler Elementary School	40532 Road 128	Cutler	Unknown
Education	Cutler-Orosi Adult School/Esperanza Alternative High School	12623 Avenue 416	Orosi	Unknown
Education	Cypress Elementary School	1870 South Laspina	Tulare	Unknown
Education	Deep Creek Continuation Academy	281 S Farmersville Blvd	Farmersville	Unknown
Education	Dinuba Adult School / Ronald Reagan Academy / Sierra Vista High School	9637 Avenue 196	Tulare	Unknown
Education	Dinuba High School	340 E Kern St	Dinuba	Unknown
Education	Divisadero Middle School	1200 S Divisadero St	Visalia	Unknown
Education	Ducor Union Elementary School	23761 Avenue 56	Ducor	Unknown
Education	Earlimart Elementary School	192 S Church Rd	Earlimart	Unknown
Education	Earlimart Middle School	599 S Church Rd	Earlimart	Unknown
Education	El Diamante High School	5100 W Whitendale Avenue	Visalia	Unknown
Education	El Monte Middle School	42111 Road 128	Orosi	Unknown

**Table P-1. Tulare County Office of Education, Total Critical Facilities and Infrastructure**

Category	Name	Address	City	Value
Education	Elbow Creek Elementary School	32747 Road 138	Visalia	Unknown
Education	Exeter Community Day School	1107 East Rocky Hill Drive	Exeter	Unknown
Education	Exter Union High School	505 Rocky Hill Drive	Exeter	Unknown
Education	Fairview Elementary School	1051 Robin Drive	Visalia	Unknown
Education	Farmersville High School	631 E Walnut Avenue	Farmersville	Unknown
Education	Farmersville Jr High School	650 N Virginia Avenue	Farmersville	Unknown
Education	Four Creeks Elementary School	1844 N Burke St	Visalia	Unknown
Education	Francis J White Learning Center	700 North Cypress St.	Woodlake	Unknown
Education	Freedom Elementary School	575 E Citrus Drive	Farmersville	Unknown
Education	Garden Elementary	640 E. Pleasant	Tulare	Unknown
Education	George L Snowden School	301 S Farmersville Blvd	Farmersville	Unknown
Education	Golden Oak Elementary School	1700 N Lovers Ln	Visalia	Unknown
Education	Golden Valley Elementary School	41465 Road 127	Orosi	Unknown
Education	Golden West High School	1717 N Mcauliff St	Visalia	Unknown
Education	Goshen Elementary School	6505 Avenue 308	Visalia	Unknown
Education	Grand View Elementary	39746 Road 64	Dinuba	Unknown
Education	Granite Hills High School	1701 E Putnam Avenue	Porterville	Unknown
Education	Green Acres Middle School	1147 N Mooney Blvd	Visalia	Unknown
Education	Harmony Magnet Academy	19429 Road 228	Strathmore	Unknown
Education	Heritage Elementary School	915 South Mooney Blvd	Visalia	Unknown
Education	High School Farm	591 W. Bardsley Avenue.	Tulare	Unknown
Education	Highland Elementary School	701 N Stevenson St	Visalia	Unknown
Education	Hope Elementary School	613 W Tea Pot Dome	Porterville	Unknown
Education	Horizon Community Day School	1051 S Plano St	Porterville	Unknown

**Table P-1. Tulare County Office of Education, Total Critical Facilities and Infrastructure**

Category	Name	Address	City	Value
Education	Hot Springs Elementary School	801 W. Gail	Tulare	Unknown
Education	Houston Elementary School	1200 N Giddings St	Visalia	Unknown
Education	Hurley Elementary School	6600 W Hurley Avenue	Visalia	Unknown
Education	Ivanhoe Elementary School	16030 Avenue 332	Ivanhoe	Unknown
Education	Je Hester Elementary School	477 E Ash St	Farmersville	Unknown
Education	Jefferson Elementary School	333 N Westwood Avenue	Lindsay	\$5,000,000
Education	Jefferson Elementary School	1660 E Sierra Way	Dinuba	Unknown
Education	Jim Maples Academy	252 N. Westwood	Porterville	Unknown
Education	John F Kennedy 6Th Grade Academy	814 S Sowell St	Visalia	Unknown
Education	John J Cairns High School	467 E Honolulu St	Lindsay	Unknown
Education	John J Doyle Elementary School	1045 E Orange Avenue	Porterville	Unknown
Education	Johnsondale Elementary School	755 E. Tulare Avenue.	Tulare	Unknown
Education	Kaweah High School, Exter Virtual High School	21215 Avenue 300	Exeter	Unknown
Education	Kings River Union Elementary Sch	3961 Avenue 400	Kingsburg	Unknown
Education	Kohn Elementary School	500 S. Laspina	Tulare	Unknown
Education	La Joya Middle School	4711 W La Vida Avenue	Visalia	Unknown
Education	La Sierra High School - Military Academy/La Sierra Junior Academy	1735 E Houston Avenue	Visalia	Unknown
Education	La Sierra High School - Porterville Campus	1414 W Olive Avenue	Porterville	Unknown
Education	Liberty Elementary School	11535 Avenue 264	Visalia	Unknown
Education	Lincoln Elementary School	900 S Conyer St	Visalia	Unknown
Education	Lincoln Elementary School	9364 Road 238	Terra Bella	Unknown
Education	Lincoln Elementary School	960 N Newcomb St	Porterville	Unknown

**Table P-1. Tulare County Office of Education, Total Critical Facilities and Infrastructure**

Category	Name	Address	City	Value
Education	Lincoln Elementary School	333 S D St	Exeter	Unknown
Education	Lindsay Community Day School	519 East Honolulu St.	Lindsay	Unknown
Education	Lindsay High School	1701 E Tulare Rd	Lindsay	\$10,000,000
Education	Linwood Elementary School	3129 S Linwood St	Visalia	Unknown
Education	Live Oak Middle School	980 N. Laspina	Tulare	Unknown
Education	Los Robles Elementary School	500 E Mulberry Avenue	Porterville	Unknown
Education	Los Tules Middle School	Po Box 38 Mountain Road 56	Hot Springs	Unknown
Education	Lovell Continuation High School	12724 Avenue 392	Cutler	Unknown
Education	Manuel F. Hernandez Elementary School	2133 North Leila Street	Visalia	Unknown
Education	Maple Elementary School	640 W. Cross	Tulare	Unknown
Education	Mid-County Community School	2101 N Shirk Rd	Visalia	Unknown
Education	Mineral King Elementary School	3333 E Kaweah Avenue	Visalia	Unknown
Education	Mission Oak High School	3442 E. Bardsley Avenue.	Tulare	Unknown
Education	Mission Valley Elementary School	1695 Bella Oaks	Tulare	Unknown
Education	Monache High School	850 N. Eaton Avenue	Dinuba	Unknown
Education	Monson-Sultana School	10643 Avenue 416	Sultana	Unknown
Education	Monte Vista Elementary School	701 W Westfield	Porterville	Unknown
Education	Mount Whitney High School	909 E. Cedar	Tulare	Unknown
Education	Mountain View Elementary School	2021 S Encina St	Visalia	Unknown
Education	Mulcahy Middle School	1001 W. Sonora	Tulare	Unknown
Education	Oak Grove Elementary School	4445 W Ferguson Avenue	Visalia	Unknown
Education	Oak Grove Elementary School	1873 W Mulberry Avenue	Porterville	Unknown
Education	Oak Valley Elementary School	24500 Road 68	Tulare	Unknown
Education	Olive Street Elementary School	255 W Olive Avenue	Porterville	Unknown

**Table P-1. Tulare County Office of Education, Total Critical Facilities and Infrastructure**

Category	Name	Address	City	Value
Education	Orosi High School	41815 Road 128	Orosi	Unknown
Education	Outside Creek Elementary School	26452 Road 164	Visalia	Unknown
Education	Palm Elementary School	12915 Avenue 419	Orosi	Unknown
Education	Palo Verde Elementary School	9637 Avenue 196	Tulare	Unknown
Education	Pinkham Elementary School	2200 E Tulare Avenue	Visalia	Unknown
Education	Pioneer Middle School	225 E College Avenue	Porterville	Unknown
Education	Pixley Elementary School	300 N. School St	Pixley	Unknown
Education	Pixley Middle School	1520 E. Court Street	Pixley	Unknown
Education	Pleasant Elementary School	1855 W. Pleasant	Tulare	Unknown
Education	Pleasant View Elementary School	18900 Avenue 145	Porterville	Unknown
Education	Pleasant View West School	14004 Road 184	Porterville	Unknown
Education	Porterville College	100 E College	Porterville	Unknown
Education	Porterville High School	465 W Olive Avenue	Porterville	Unknown
Education	Prospect Education Center	645 N Prospect	Porterville	Unknown
Education	Redwood High School	1001 W Main St	Visalia	Unknown
Education	Richgrove Elementary School	20908 Grove Drive	Richgrove	Unknown
Education	River Bend Elementary School	1800 N Lovers Ln	Visalia	Unknown
Education	Roche Avenue Elementary School	388 N Roche Avenue	Porterville	Unknown
Education	Rockford Elementary School	14983 Road 208	Porterville	Unknown
Education	Rocky Hill Elementary School	313 Sequoia Drive	Exeter	Unknown
Education	Roosevelt Elementary School	1311 N. Euclid Avenue	Dinuba	Unknown
Education	Roosevelt Elementary School	1046 W. Sonora	Tulare	Unknown
Education	Royal Oaks Elementary School	1323 S Clover St	Visalia	Unknown
Education	Santa Fe Elementary School	286 E Orange Avenue	Porterville	Unknown

**Table P-1. Tulare County Office of Education, Total Critical Facilities and Infrastructure**

Category	Name	Address	City	Value
Education	Saucelito Elementary School	17615 Avenue 104	Terra Bella	Unknown
Education	Sequoia High School	900 West Pioneer Avenue	Porterville	Unknown
Education	Sequoia Middle School	1450 W Castle	Porterville	Unknown
Education	Sequoia Union School	23958 Avenue 324	Lemon Cove	Unknown
Education	Sierra Elementary School	50151 Whitaker Forest Rd	Badger	Unknown
Education	Sierra Vista High School	8470 Avenue 406	Dinuba	Unknown
Education	Springville Union Elementary School	35424 Ward Avenue	Springville	Unknown
Education	Steve Garvey Junior High School	340 N Harvard Avenue	Lindsay	\$5,000,000
Education	Stone Corral Elementary School	15590 Avenue 383	Visalia	Unknown
Education	Strathmore Union Elementary	23024 Avenue 198	Strathmore	Unknown
Education	Strathmore High School	22568 Avenue 196	Strathmore	Unknown
Education	Strathmore Middle School	19840 Orange Belt Drive	Strathmore	Unknown
Education	Success Community School	14871 Road 192	Porterville	Unknown
Education	Summit Charter Academy - Mathew Campus	175 S Mathew St	Porterville	Unknown
Education	Summit Charter Collegiate Academy	15550 Redwood St	Porterville	Unknown
Education	Sundale School	13990 Avenue 240	Tulare	Unknown
Education	Sunnyside Union Elementary School	21644 Avenue 196	Strathmore	Unknown
Education	Superior Community School	1105 South O St.	Tulare	Unknown
Education	Terra Bella Elementary School	851 N Stanford Avenue	Lindsay	\$5,000,000
Education	Three Rivers Elementary School	41932 Sierra Drive	Three Rivers	Unknown
Education	Tipton Elementary School	370 N Evans Rd	Tipton	Unknown
Education	Traver Joint Elementary School	36736 Canal Drive	Traver	Unknown
Education	Tulare Adult School	575 W. Maple Avenue.	Tulare	Unknown

**Table P-1. Tulare County Office of Education, Total Critical Facilities and Infrastructure**

Category	Name	Address	City	Value
Education	Tulare City Community Day School	601 Delwood St	Tulare	Unknown
Education	Tulare Union High School	Route 1 Box 104	Kernville	Unknown
Education	Tulare Western High School	824 W Maple	Tulare	Unknown
Education	Valley High School / Tulare Tech Prep School	737 W. Bardsley Avenue.	Tulare	Unknown
Education	Valley Oak Middle School	2000 N Lovers Ln	Visalia	Unknown
Education	Vandalia Elem School	271 E College Avenue	Porterville	Unknown
Education	Veva Blunt Elementary School	1119 S Chinowth St	Visalia	Unknown
Education	Vine Street Community Day School	140 S C St	Porterville	Unknown
Education	Visalia Charter Independent Study	1821 West Meadow Lane	Visalia	Unknown
Education	Visalia Technical Education	2049 South Linwood Street	Visalia	Unknown
Education	Washington Elementary School	500 S Garden St	Visalia	Unknown
Education	Washington Elementary School	451 E Samoa St	Lindsay	\$5,000,000
Education	Washington Intermediate School	1150 N Hayes Avenue	Dinuba	Unknown
Education	Waukena Joint Union Elementary School	19113 Road 28	Tulare	Unknown
Education	West Putnam Elementary School	1345 W Putnam Avenue	Porterville	Unknown
Education	Westfield Elem School	1151 W Pioneer Avenue	Porterville	Unknown
Education	Willow Glen Elementary School	310 N Akers St	Visalia	Unknown
Education	Wilson Elementary School	850 W. Washington Avenue	Earlimart	Unknown
Education	Wilson Elementary School	305 E Kamm Avenue	Dinuba	Unknown
Education	Wilson Middle School	265 Albert Avenue	Exeter	Unknown
Education	Woodlake Union High School	400 West Whitney Avenue.	Woodlake	Unknown
Education	Woodlake Valley Middle School	497 N Palm St	Woodlake	Unknown



**Table P-1. Tulare County Office of Education, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>City</b>	<b>Value</b>
Education	Woodville Elementary School	16541 Road 168	Porterville	Unknown
Education	Yettum Continuation High School	13198 Avenue 484	Yettum	Unknown

**Table P-2. Tulare 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 - Moderate Groundshaking	Education	Adult School Program	3110 East Houston	Unknown
Earthquake - Moderate Groundshaking	Education	Alila School	955 E. Tulare Avenue.	Unknown
Earthquake - Moderate Groundshaking	Education	Allensworth Elementary School	3320 Young Rd	Unknown
Earthquake - Moderate Groundshaking	Education	Alpauch Junior-Senior High/Alpaugh Elementary School	5313 Road 39	Unknown
Earthquake - Moderate Groundshaking	Education	Alta Vista Elementary School	2293 E Crabtree Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Annie R. Mitchell Elementary School	2121 E Laura St	Unknown
Earthquake - Moderate Groundshaking	Education	Bartlett Middle School/Charter Alternative Academy School	355 North "G" Street	Unknown
Earthquake - Moderate Groundshaking	Education	Belleview Elementary School	197 West Belleview Street	Unknown
Earthquake - Moderate Groundshaking	Education	Buckley Elementary School	2573 W. Westfield	Unknown
Earthquake - Moderate Groundshaking	Education	Buena Vista Elementary School	21660 Road 60	Unknown
Earthquake - Moderate Groundshaking	Education	Burton Community Day School	264 N Westwood	Unknown
Earthquake - Moderate Groundshaking	Education	Burton Elementary School	2375 W Morton Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Burton Middle School	1155 N. Elderwood St.,	Unknown

**Table P-2. Tulare 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 - Moderate Groundshaking	Education	Butterfield Charter High School/Porterville Adult School	901 N Mooney Blvd	Unknown
Earthquake - Moderate Groundshaking	Education	Button Pathways Charter Academy	1414 West Olive Avenue.	Unknown
Earthquake - Moderate Groundshaking	Education	Carl Smith Middle School	23825 Avenue 92	Unknown
Earthquake - Moderate Groundshaking	Education	Charter Alternative Academy School/Union Elementary School	28050 Road 148	Unknown
Earthquake - Moderate Groundshaking	Education	Charter Home School Academy	31411 Road 160	Unknown
Earthquake - Moderate Groundshaking	Education	Cherry Middle School	540 N Cherry St	Unknown
Earthquake - Moderate Groundshaking	Education	Citrus High School	261 E Mulberry Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Citrus South Tule Elementary School	31374 Success Valley Drive	Unknown
Earthquake - Moderate Groundshaking	Education	College Of The Sequoias	895 W. Gail	Unknown
Earthquake - Moderate Groundshaking	Education	Columbine Elementary School	2240 Road 160	Unknown
Earthquake - Moderate Groundshaking	Education	Conyer Elementary School	999 N Crawford Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Cottonwood Creek Elementary School	4222 S Dans St	Unknown
Earthquake - Moderate Groundshaking	Education	Countryside High School	1084 South Pratt Street	Unknown

**Table P-2. Tulare 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 - Moderate Groundshaking	Education	Crestwood Elementary School	3001 W Whitendale Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Crowley Elementary School	214 East Ferguson	Unknown
Earthquake - Moderate Groundshaking	Education	Cypress Elementary School	1870 South Laspina	Unknown
Earthquake - Moderate Groundshaking	Education	Deep Creek Continuation Academy	281 S Farmersville Blvd	Unknown
Earthquake - Moderate Groundshaking	Education	Dinuba Adult School / Ronald Reagan Academy / Sierra Vista High School	9637 Avenue 196	Unknown
Earthquake - Moderate Groundshaking	Education	Dinuba High School	340 E Kern St	Unknown
Earthquake - Moderate Groundshaking	Education	Divisadero Middle School	1200 S Divisadero St	Unknown
Earthquake - Moderate Groundshaking	Education	Ducor Union Elementary School	23761 Avenue 56	Unknown
Earthquake - Moderate Groundshaking	Education	Earlimart Elementary School	192 S Church Rd	Unknown
Earthquake - Moderate Groundshaking	Education	Earlimart Middle School	599 S Church Rd	Unknown
Earthquake - Moderate Groundshaking	Education	El Diamante High School	5100 W Whitendale Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Elbow Creek Elementary School	32747 Road 138	Unknown
Earthquake - Moderate Groundshaking	Education	Exeter Community Day School	1107 East Rocky Hill Drive	Unknown

**Table P-2. Tulare 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 - Moderate Groundshaking	Education	Exeter Union High School	505 Rocky Hill Drive	Unknown
Earthquake - Moderate Groundshaking	Education	Fairview Elementary School	1051 Robin Drive	Unknown
Earthquake - Moderate Groundshaking	Education	Farmersville High School	631 E Walnut Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Farmersville Jr High School	650 N Virginia Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Four Creeks Elementary School	1844 N Burke St	Unknown
Earthquake - Moderate Groundshaking	Education	Freedom Elementary School	575 E Citrus Drive	Unknown
Earthquake - Moderate Groundshaking	Education	Garden Elementary	640 E. Pleasant	Unknown
Earthquake - Moderate Groundshaking	Education	George L Snowden School	301 S Farmersville Blvd	Unknown
Earthquake - Moderate Groundshaking	Education	Golden Oak Elementary School	1700 N Lovers Ln	Unknown
Earthquake - Moderate Groundshaking	Education	Golden West High School	1717 N Mcauliff St	Unknown
Earthquake - Moderate Groundshaking	Education	Goshen Elementary School	6505 Avenue 308	Unknown
Earthquake - Moderate Groundshaking	Education	Grand View Elementary	39746 Road 64	Unknown
Earthquake - Moderate Groundshaking	Education	Granite Hills High School	1701 E Putnam Avenue	Unknown

**Table P-2. Tulare 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 - Moderate Groundshaking	Education	Green Acres Middle School	1147 N Mooney Blvd	Unknown
Earthquake - Moderate Groundshaking	Education	Harmony Magnet Academy	19429 Road 228	Unknown
Earthquake - Moderate Groundshaking	Education	Heritage Elementary School	915 South Mooney Blvd	Unknown
Earthquake - Moderate Groundshaking	Education	High School Farm	591 W. Bardsley Avenue.	Unknown
Earthquake - Moderate Groundshaking	Education	Highland Elementary School	701 N Stevenson St	Unknown
Earthquake - Moderate Groundshaking	Education	Hope Elementary School	613 W Tea Pot Dome	Unknown
Earthquake - Moderate Groundshaking	Education	Horizon Community Day School	1051 S Plano St	Unknown
Earthquake - Moderate Groundshaking	Education	Hot Springs Elementary School	801 W. Gail	Unknown
Earthquake - Moderate Groundshaking	Education	Houston Elementary School	1200 N Giddings St	Unknown
Earthquake - Moderate Groundshaking	Education	Hurley Elementary School	6600 W Hurley Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Ivanhoe Elementary School	16030 Avenue 332	Unknown
Earthquake - Moderate Groundshaking	Education	Je Hester Elementary School	477 E Ash St	Unknown
Earthquake - Moderate Groundshaking	Education	Jefferson Elementary School	333 N Westwood Avenue	\$5,000,000

**Table P-2. Tulare 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 - Moderate Groundshaking	Education	Jefferson Elementary School	1660 E Sierra Way	Unknown
Earthquake - Moderate Groundshaking	Education	Jim Maples Academy	252 N. Westwood	Unknown
Earthquake - Moderate Groundshaking	Education	John F Kennedy 6Th Grade Academy	814 S Sowell St	Unknown
Earthquake - Moderate Groundshaking	Education	John J Cairns High School	467 E Honolulu St	Unknown
Earthquake - Moderate Groundshaking	Education	John J Doyle Elementary School	1045 E Orange Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Johnsondale Elementary School	755 E. Tulare Avenue.	Unknown
Earthquake - Moderate Groundshaking	Education	Kings River Union Elementary School	3961 Avenue 400	Unknown
Earthquake - Moderate Groundshaking	Education	Kohn Elementary School	500 S. Laspina	Unknown
Earthquake - Moderate Groundshaking	Education	La Joya Middle School	4711 W La Vida Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	La Sierra High School - Military Academy/La Sierra Junior Academy	1735 E Houston Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	La Sierra High School - Porterville Campus	1414 W Olive Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Liberty Elementary School	11535 Avenue 264	Unknown
Earthquake - Moderate Groundshaking	Education	Lincoln Elementary School	9364 Road 238	Unknown

**Table P-2. Tulare 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 - Moderate Groundshaking	Education	Lincoln Elementary School	960 N Newcomb St	Unknown
Earthquake - Moderate Groundshaking	Education	Lincoln Elementary School	333 S D St	Unknown
Earthquake - Moderate Groundshaking	Education	Lincoln Elementary School	900 S Conyer St	Unknown
Earthquake - Moderate Groundshaking	Education	Lindsay Community Day School	519 East Honolulu St.	Unknown
Earthquake - Moderate Groundshaking	Education	Lindsay High School	1701 E Tulare Rd	\$10,000,000
Earthquake - Moderate Groundshaking	Education	Linwood Elementary School	3129 S Linwood St	Unknown
Earthquake - Moderate Groundshaking	Education	Live Oak Middle School	980 N. Laspina	Unknown
Earthquake - Moderate Groundshaking	Education	Los Robles Elementary School	500 E Mulberry Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Los Tules Middle School	Po Box 38 Mountain Road 56	Unknown
Earthquake - Moderate Groundshaking	Education	Manuel F. Hernandez Elementary School	2133 North Leila Street	Unknown
Earthquake - Moderate Groundshaking	Education	Maple Elementary School	640 W. Cross	Unknown
Earthquake - Moderate Groundshaking	Education	Mid-County Community School	2101 N Shirk Rd	Unknown
Earthquake - Moderate Groundshaking	Education	Mineral King Elementary School	3333 E Kaweah Avenue	Unknown



**Table P-2. Tulare 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 - Moderate Groundshaking	Education	Mission Oak High School	3442 E. Bardsley Avenue.	Unknown
Earthquake - Moderate Groundshaking	Education	Mission Valley Elementary School	1695 Bella Oaks	Unknown
Earthquake - Moderate Groundshaking	Education	Monache High School	850 N. Eaton Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Monte Vista Elementary School	701 W Westfield	Unknown
Earthquake - Moderate Groundshaking	Education	Mount Whitney High School	909 E. Cedar	Unknown
Earthquake - Moderate Groundshaking	Education	Mountain View Elementary School	2021 S Encina St	Unknown
Earthquake - Moderate Groundshaking	Education	Mulcahy Middle School	1001 W. Sonora	Unknown
Earthquake - Moderate Groundshaking	Education	Oak Grove Elementary School	1873 W Mulberry Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Oak Grove Elementary School	4445 W Ferguson Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Oak Valley Elementary School	24500 Road 68	Unknown
Earthquake - Moderate Groundshaking	Education	Olive Street Elementary School	255 W Olive Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Outside Creek Elementary School	26452 Road 164	Unknown
Earthquake - Moderate Groundshaking	Education	Palo Verde Elementary School	9637 Avenue 196	Unknown

**Table P-2. Tulare 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 - Moderate Groundshaking	Education	Pinkham Elementary School	2200 E Tulare Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Pioneer Middle School	225 E College Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Pixley Elementary School	300 N. School St	Unknown
Earthquake - Moderate Groundshaking	Education	Pixley Middle School	1520 E. Court Street	Unknown
Earthquake - Moderate Groundshaking	Education	Pleasant Elementary School	1855 W. Pleasant	Unknown
Earthquake - Moderate Groundshaking	Education	Pleasant View Elementary School	18900 Avenue 145	Unknown
Earthquake - Moderate Groundshaking	Education	Pleasant View West School	14004 Road 184	Unknown
Earthquake - Moderate Groundshaking	Education	Porterville College	100 E College	Unknown
Earthquake - Moderate Groundshaking	Education	Porterville High School	465 W Olive Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Prospect Education Center	645 N Prospect	Unknown
Earthquake - Moderate Groundshaking	Education	Redwood High School	1001 W Main St	Unknown
Earthquake - Moderate Groundshaking	Education	Richgrove Elementary School	20908 Grove Drive	Unknown
Earthquake - Moderate Groundshaking	Education	River Bend Elementary School	1800 N Lovers Ln	Unknown

**Table P-2. Tulare 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 - Moderate Groundshaking	Education	Roche Avenue Elementary School	388 N Roche Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Rockford Elementary School	14983 Road 208	Unknown
Earthquake - Moderate Groundshaking	Education	Rocky Hill Elementary School	313 Sequoia Drive	Unknown
Earthquake - Moderate Groundshaking	Education	Roosevelt Elementary School	1046 W. Sonora	Unknown
Earthquake - Moderate Groundshaking	Education	Roosevelt Elementary School	1311 N. Euclid Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Royal Oaks Elementary School	1323 S Clover St	Unknown
Earthquake - Moderate Groundshaking	Education	Santa Fe Elementary School	286 E Orange Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Saucelito Elementary School	17615 Avenue 104	Unknown
Earthquake - Moderate Groundshaking	Education	Sequoia High School	900 West Pioneer Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Sequoia Middle School	1450 W Castle	Unknown
Earthquake - Moderate Groundshaking	Education	Sierra Vista High School	8470 Avenue 406	Unknown
Earthquake - Moderate Groundshaking	Education	Springville Union Elementary School	35424 Ward Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Steve Garvey Junior High School	340 N Harvard Avenue	\$5,000,000

**Table P-2. Tulare 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 - Moderate Groundshaking	Education	Strathmore Union Elementary	23024 Avenue 198	Unknown
Earthquake - Moderate Groundshaking	Education	Strathmore High School	22568 Avenue 196	Unknown
Earthquake - Moderate Groundshaking	Education	Strathmore Middle School	19840 Orange Belt Drive	Unknown
Earthquake - Moderate Groundshaking	Education	Success Community School	14871 Road 192	Unknown
Earthquake - Moderate Groundshaking	Education	Summit Charter Academy - Mathew Campus	175 S Mathew St	Unknown
Earthquake - Moderate Groundshaking	Education	Summit Charter Collegiate Academy	15550 Redwood St	Unknown
Earthquake - Moderate Groundshaking	Education	Sundale School	13990 Avenue 240	Unknown
Earthquake - Moderate Groundshaking	Education	Sunnyside Union Elementary School	21644 Avenue 196	Unknown
Earthquake - Moderate Groundshaking	Education	Superior Community School	1105 South O St.	Unknown
Earthquake - Moderate Groundshaking	Education	Terra Bella Elementary School	851 N Stanford Avenue	\$5,000,000
Earthquake - Moderate Groundshaking	Education	Tipton Elementary School	370 N Evans Rd	Unknown
Earthquake - Moderate Groundshaking	Education	Traver Joint Elementary School	36736 Canal Drive	Unknown
Earthquake - Moderate Groundshaking	Education	Tulare Adult School	575 W. Maple Avenue.	Unknown

**Table P-2. Tulare 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 - Moderate Groundshaking	Education	Tulare City Community Day School	601 Delwood St	Unknown
Earthquake - Moderate Groundshaking	Education	Tulare Union High School	Route 1 Box 104	Unknown
Earthquake - Moderate Groundshaking	Education	Tulare Western High School	824 W Maple	Unknown
Earthquake - Moderate Groundshaking	Education	Valley High School / Tulare Tech Prep School	737 W. Bardsley Avenue.	Unknown
Earthquake - Moderate Groundshaking	Education	Valley Oak Middle School	2000 N Lovers Ln	Unknown
Earthquake - Moderate Groundshaking	Education	Vandalia Elem School	271 E College Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Veva Blunt Elementary School	1119 S Chinowth St	Unknown
Earthquake - Moderate Groundshaking	Education	Vine Street Community Day School	140 S C St	Unknown
Earthquake - Moderate Groundshaking	Education	Visalia Charter Independent Study	1821 West Meadow Lane	Unknown
Earthquake - Moderate Groundshaking	Education	Visalia Technical Education	2049 South Linwood Street	Unknown
Earthquake - Moderate Groundshaking	Education	Washington Elementary School	451 E Samoa St	\$5,000,000
Earthquake - Moderate Groundshaking	Education	Washington Elementary School	500 S Garden St	Unknown
Earthquake - Moderate Groundshaking	Education	Washington Intermediate School	1150 N Hayes Avenue	Unknown

**Table P-2. Tulare 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 - Moderate Groundshaking	Education	Waukena Joint Union Elementary School	19113 Road 28	Unknown
Earthquake - Moderate Groundshaking	Education	West Putnam Elementary School	1345 W Putnam Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Westfield Elem School	1151 W Pioneer Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Willow Glen Elementary School	310 N Akers St	Unknown
Earthquake - Moderate Groundshaking	Education	Wilson Elementary School	850 W. Washington Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Wilson Elementary School	305 E Kamm Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Wilson Middle School	265 Albert Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Woodville Elementary School	16541 Road 168	Unknown
Earthquake - Light Groundshaking	Education	Bravo Lake High School	450 West Sequoia	Unknown
Earthquake - Light Groundshaking	Education	Castle Rock Elementary	360 N Castle Rock St	Unknown
Earthquake - Light Groundshaking	Education	Culter-Orosi Community Day School	14198 Avenue 384	Unknown
Earthquake - Light Groundshaking	Education	Cutler Elementary School	40532 Road 128	Unknown
Earthquake - Light Groundshaking	Education	Cutler-Orosi Adult School/Esperanza Alternative High School	12623 Avenue 416	Unknown

**Table P-2. Tulare 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 - Light Groundshaking	Education	El Monte Middle School	42111 Road 128	Unknown
Earthquake - Light Groundshaking	Education	Francis J White Learning Center	700 North Cypress St.	Unknown
Earthquake - Light Groundshaking	Education	Golden Valley Elementary School	41465 Road 127	Unknown
Earthquake - Light Groundshaking	Education	Kaweah High School, Exeter Virtual High School	21215 Avenue 300	Unknown
Earthquake - Light Groundshaking	Education	Lovell Continuation High School	12724 Avenue 392	Unknown
Earthquake - Light Groundshaking	Education	Monson-Sultana School	10643 Avenue 416	Unknown
Earthquake - Light Groundshaking	Education	Orosi High School	41815 Road 128	Unknown
Earthquake - Light Groundshaking	Education	Palm Elementary School	12915 Avenue 419	Unknown
Earthquake - Light Groundshaking	Education	Sequoia Union School	23958 Avenue 324	Unknown
Earthquake - Light Groundshaking	Education	Sierra Elementary School	50151 Whitaker Forest Rd	Unknown
Earthquake - Light Groundshaking	Education	Stone Corral Elementary School	15590 Avenue 383	Unknown
Earthquake - Light Groundshaking	Education	Three Rivers Elementary School	41932 Sierra Drive	Unknown
Earthquake - Light Groundshaking	Education	Woodlake Union High School	400 West Whitney Avenue.	Unknown

**Table P-2. Tulare 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 - Light Groundshaking	Education	Woodlake Valley Middle School	497 N Palm St	Unknown
Earthquake - Light Groundshaking	Education	Yetterm Continuation High School	13198 Avenue 484	Unknown
Flood - 100 Year Floodplain	Education	Allensworth Elementary School	3320 Young Rd	Unknown
Flood - 100 Year Floodplain	Education	Crowley Elementary School	214 East Ferguson	Unknown
Flood - 100 Year Floodplain	Education	Deep Creek Continuation Academy	281 S Farmersville Blvd	Unknown
Flood - 100 Year Floodplain	Education	Dinuba Adult School / Ronald Reagan Academy / Sierra Vista High School	9637 Avenue 196	Unknown
Flood - 100 Year Floodplain	Education	Dinuba High School	340 E Kern St	Unknown
Flood - 100 Year Floodplain	Education	Farmersville Jr High School	650 N Virginia Avenue	Unknown
Flood - 100 Year Floodplain	Education	Four Creeks Elementary School	1844 N Burke St	Unknown
Flood - 100 Year Floodplain	Education	George L Snowden School	301 S Farmersville Blvd	Unknown
Flood - 100 Year Floodplain	Education	Golden Oak Elementary School	1700 N Lovers Ln	Unknown
Flood - 100 Year Floodplain	Education	Granite Hills High School	1701 E Putnam Avenue	Unknown
Flood - 100 Year Floodplain	Education	Green Acres Middle School	1147 N Mooney Blvd	Unknown
Flood - 100 Year Floodplain	Education	Harmony Magnet Academy	19429 Road 228	Unknown
Flood - 100 Year Floodplain	Education	Highland Elementary School	701 N Stevenson St	Unknown
Flood - 100 Year Floodplain	Education	Kaweah High School, Exeter Virtual High School	21215 Avenue 300	Unknown
Flood - 100 Year Floodplain	Education	La Sierra High School - Military Academy/La Sierra Junior Academy	1735 E Houston Avenue	Unknown
Flood - 100 Year Floodplain	Education	Lindsay High School	1701 E Tulare Rd	\$10,000,000
Flood - 100 Year Floodplain	Education	Mineral King Elementary School	3333 E Kaweah Avenue	Unknown
Flood - 100 Year Floodplain	Education	Palo Verde Elementary School	9637 Avenue 196	Unknown



**Table P-2. Tulare County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - 100 Year Floodplain	Education	Pinkham Elementary School	2200 E Tulare Avenue	Unknown
Flood - 100 Year Floodplain	Education	Pixley Middle School	1520 E. Court Street	Unknown
Flood - 100 Year Floodplain	Education	Redwood High School	1001 W Main St	Unknown
Flood - 100 Year Floodplain	Education	River Bend Elementary School	1800 N Lovers Ln	Unknown
Flood - 100 Year Floodplain	Education	Roosevelt Elementary School	1311 N. Euclid Avenue	Unknown
Flood - 100 Year Floodplain	Education	Saucelito Elementary School	17615 Avenue 104	Unknown
Flood - 100 Year Floodplain	Education	Steve Garvey Junior High School	340 N Harvard Avenue	\$5,000,000
Flood - 100 Year Floodplain	Education	Terra Bella Elementary School	851 N Stanford Avenue	\$5,000,000
Flood - 100 Year Floodplain	Education	Traver Joint Elementary School	36736 Canal Drive	Unknown
Flood - 100 Year Floodplain	Education	Valley Oak Middle School	2000 N Lovers Ln	Unknown
Flood - 100 Year Floodplain	Education	Woodlake Valley Middle School	497 N Palm St	Unknown
Flood - 500 Year Floodplain	Education	Adult School Program	3110 East Houston	Unknown
Flood - 500 Year Floodplain	Education	Annie R. Mitchell Elementary School	2121 E Laura St	Unknown
Flood - 500 Year Floodplain	Education	Burton Community Day School	264 N Westwood	Unknown
Flood - 500 Year Floodplain	Education	Burton Elementary School	2375 W Morton Avenue	Unknown
Flood - 500 Year Floodplain	Education	Butterfield Charter High School/Porterville Adult School	901 N Mooney Blvd	Unknown
Flood - 500 Year Floodplain	Education	Charter Alternative Academy School/Union Elementary School	28050 Road 148	Unknown
Flood - 500 Year Floodplain	Education	Charter Home School Academy	31411 Road 160	Unknown
Flood - 500 Year Floodplain	Education	Columbine Elementary School	2240 Road 160	Unknown
Flood - 500 Year Floodplain	Education	Conyer Elementary School	999 N Crawford Avenue	Unknown
Flood - 500 Year Floodplain	Education	Cottonwood Creek Elementary School	4222 S Dans St	Unknown
Flood - 500 Year Floodplain	Education	Crestwood Elementary School	3001 W Whitendale Avenue	Unknown
Flood - 500 Year Floodplain	Education	Cutler Elementary School	40532 Road 128	Unknown

**Table P-2. Tulare County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - 500 Year Floodplain	Education	Cutler-Orosi Adult School/Esperanza Alternative High School	12623 Avenue 416	Unknown
Flood - 500 Year Floodplain	Education	Divisadero Middle School	1200 S Divisadero St	Unknown
Flood - 500 Year Floodplain	Education	Earlimart Middle School	599 S Church Rd	Unknown
Flood - 500 Year Floodplain	Education	El Diamante High School	5100 W Whitendale Avenue	Unknown
Flood - 500 Year Floodplain	Education	El Monte Middle School	42111 Road 128	Unknown
Flood - 500 Year Floodplain	Education	Exeter Community Day School	1107 East Rocky Hill Drive	Unknown
Flood - 500 Year Floodplain	Education	Exeter Union High School	505 Rocky Hill Drive	Unknown
Flood - 500 Year Floodplain	Education	Fairview Elementary School	1051 Robin Drive	Unknown
Flood - 500 Year Floodplain	Education	Farmersville High School	631 E Walnut Avenue	Unknown
Flood - 500 Year Floodplain	Education	Freedom Elementary School	575 E Citrus Drive	Unknown
Flood - 500 Year Floodplain	Education	Golden Valley Elementary School	41465 Road 127	Unknown
Flood - 500 Year Floodplain	Education	Golden West High School	1717 N Mcauliff St	Unknown
Flood - 500 Year Floodplain	Education	Heritage Elementary School	915 South Mooney Blvd	Unknown
Flood - 500 Year Floodplain	Education	Houston Elementary School	1200 N Giddings St	Unknown
Flood - 500 Year Floodplain	Education	Hurley Elementary School	6600 W Hurley Avenue	Unknown
Flood - 500 Year Floodplain	Education	Je Hester Elementary School	477 E Ash St	Unknown
Flood - 500 Year Floodplain	Education	Jefferson Elementary School	1660 E Sierra Way	Unknown
Flood - 500 Year Floodplain	Education	Jim Maples Academy	252 N. Westwood	Unknown
Flood - 500 Year Floodplain	Education	John F Kennedy 6Th Grade Academy	814 S Sowell St	Unknown
Flood - 500 Year Floodplain	Education	La Joya Middle School	4711 W La Vida Avenue	Unknown
Flood - 500 Year Floodplain	Education	Lincoln Elementary School	333 S D St	Unknown
Flood - 500 Year Floodplain	Education	Lincoln Elementary School	900 S Conyer St	Unknown
Flood - 500 Year Floodplain	Education	Linwood Elementary School	3129 S Linwood St	Unknown
Flood - 500 Year Floodplain	Education	Manuel F. Hernandez Elementary School	2133 North Leila Street	Unknown

**Table P-2. Tulare County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - 500 Year Floodplain	Education	Mid-County Community School	2101 N Shirk Rd	Unknown
Flood - 500 Year Floodplain	Education	Monache High School	850 N. Eaton Avenue	Unknown
Flood - 500 Year Floodplain	Education	Mountain View Elementary School	2021 S Encina St	Unknown
Flood - 500 Year Floodplain	Education	Oak Grove Elementary School	4445 W Ferguson Avenue	Unknown
Flood - 500 Year Floodplain	Education	Orosi High School	41815 Road 128	Unknown
Flood - 500 Year Floodplain	Education	Outside Creek Elementary School	26452 Road 164	Unknown
Flood - 500 Year Floodplain	Education	Palm Elementary School	12915 Avenue 419	Unknown
Flood - 500 Year Floodplain	Education	Rocky Hill Elementary School	313 Sequoia Drive	Unknown
Flood - 500 Year Floodplain	Education	Royal Oaks Elementary School	1323 S Clover St	Unknown
Flood - 500 Year Floodplain	Education	Stone Corral Elementary School	15590 Avenue 383	Unknown
Flood - 500 Year Floodplain	Education	Sundale School	13990 Avenue 240	Unknown
Flood - 500 Year Floodplain	Education	Three Rivers Elementary School	41932 Sierra Drive	Unknown
Flood - 500 Year Floodplain	Education	Veva Blunt Elementary School	1119 S Chinowth St	Unknown
Flood - 500 Year Floodplain	Education	Visalia Charter Independent Study	1821 West Meadow Lane	Unknown
Flood - 500 Year Floodplain	Education	Visalia Technical Education	2049 South Linwood Street	Unknown
Flood - 500 Year Floodplain	Education	Washington Elementary School	500 S Garden St	Unknown
Flood - 500 Year Floodplain	Education	Washington Intermediate School	1150 N Hayes Avenue	Unknown
Flood - 500 Year Floodplain	Education	Willow Glen Elementary School	310 N Akers St	Unknown
Flood - 500 Year Floodplain	Education	Wilson Middle School	265 Albert Avenue	Unknown
Flood - 500 Year Floodplain	Education	Yettem Continuation High School	13198 Avenue 484	Unknown
Flood - Dam Failure, Sand Creek Dam	Education	Cutler Elementary School	40532 Road 128	Unknown
Flood - Dam Failure, Sand Creek Dam	Education	Cutler-Orosi Adult School/Esperanza Alternative High School	12623 Avenue 416	Unknown

**Table P-2. Tulare County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Sand Creek Dam	Education	El Monte Middle School	42111 Road 128	Unknown
Flood - Dam Failure, Sand Creek Dam	Education	Golden Valley Elementary School	41465 Road 127	Unknown
Flood - Dam Failure, Sand Creek Dam	Education	Orosi High School	41815 Road 128	Unknown
Flood - Dam Failure, Sand Creek Dam	Education	Palm Elementary School	12915 Avenue 419	Unknown
Flood - Dam Failure, Success Dam	Education	Alta Vista Elementary School	2293 E Crabtree Avenue	Unknown
Flood - Dam Failure, Success Dam	Education	Bartlett Middle School/Charter Alternative Academy School	355 North "G" Street	Unknown
Flood - Dam Failure, Success Dam	Education	Belleview Elementary School	197 West Belleview Street	Unknown
Flood - Dam Failure, Success Dam	Education	Buckley Elementary School	2573 W. Westfield	Unknown
Flood - Dam Failure, Success Dam	Education	Burton Community Day School	264 N Westwood	Unknown
Flood - Dam Failure, Success Dam	Education	Burton Elementary School	2375 W Morton Avenue	Unknown
Flood - Dam Failure, Success Dam	Education	Burton Middle School	1155 N. Elderwood St.,	Unknown
Flood - Dam Failure, Success Dam	Education	Button Pathways Charter Academy	1414 West Olive Avenue.	Unknown
Flood - Dam Failure, Success Dam	Education	Hope Elementary School	613 W Tea Pot Dome	Unknown

**Table P-2. Tulare County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Success Dam	Education	Horizon Community Day School	1051 S Plano St	Unknown
Flood - Dam Failure, Success Dam	Education	Jim Maples Academy	252 N. Westwood	Unknown
Flood - Dam Failure, Success Dam	Education	John J Doyle Elementary School	1045 E Orange Avenue	Unknown
Flood - Dam Failure, Success Dam	Education	La Sierra High School - Porterville Campus	1414 W Olive Avenue	Unknown
Flood - Dam Failure, Success Dam	Education	Lincoln Elementary School	960 N Newcomb St	Unknown
Flood - Dam Failure, Success Dam	Education	Monte Vista Elementary School	701 W Westfield	Unknown
Flood - Dam Failure, Success Dam	Education	Oak Grove Elementary School	1873 W Mulberry Avenue	Unknown
Flood - Dam Failure, Success Dam	Education	Olive Street Elementary School	255 W Olive Avenue	Unknown
Flood - Dam Failure, Success Dam	Education	Pioneer Middle School	225 E College Avenue	Unknown
Flood - Dam Failure, Success Dam	Education	Pleasant View Elementary School	18900 Avenue 145	Unknown
Flood - Dam Failure, Success Dam	Education	Pleasant View West School	14004 Road 184	Unknown
Flood - Dam Failure, Success Dam	Education	Porterville College	100 E College	Unknown
Flood - Dam Failure, Success Dam	Education	Porterville High School	465 W Olive Avenue	Unknown

**Table P-2. Tulare County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Success Dam	Education	Prospect Education Center	645 N Prospect	Unknown
Flood - Dam Failure, Success Dam	Education	Rockford Elementary School	14983 Road 208	Unknown
Flood - Dam Failure, Success Dam	Education	Santa Fe Elementary School	286 E Orange Avenue	Unknown
Flood - Dam Failure, Success Dam	Education	Sequoia High School	900 West Pioneer Avenue	Unknown
Flood - Dam Failure, Success Dam	Education	Sequoia Middle School	1450 W Castle	Unknown
Flood - Dam Failure, Success Dam	Education	Success Community School	14871 Road 192	Unknown
Flood - Dam Failure, Success Dam	Education	Summit Charter Academy - Mathew Campus	175 S Mathew St	Unknown
Flood - Dam Failure, Success Dam	Education	Summit Charter Collegiate Academy	15550 Redwood St	Unknown
Flood - Dam Failure, Success Dam	Education	Vandalia Elementary School	271 E College Avenue	Unknown
Flood - Dam Failure, Success Dam	Education	Vine Street Community Day School	140 S C St	Unknown
Flood - Dam Failure, Success Dam	Education	West Putnam Elementary School	1345 W Putnam Avenue	Unknown
Flood - Dam Failure, Success Dam	Education	Westfield Elem School	1151 W Pioneer Avenue	Unknown
Flood - Dam Failure, Success Dam	Education	Woodville Elementary School	16541 Road 168	Unknown

**Table P-2. Tulare County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Terminus Dam	Education	Adult School Program	3110 East Houston	Unknown
Flood - Dam Failure, Terminus Dam	Education	Annie R. Mitchell Elementary School	2121 E Laura St	Unknown
Flood - Dam Failure, Terminus Dam	Education	Buena Vista Elementary School	21660 Road 60	Unknown
Flood - Dam Failure, Terminus Dam	Education	Butterfield Charter High School/Porterville Adult School	901 N Mooney Blvd	Unknown
Flood - Dam Failure, Terminus Dam	Education	Castle Rock Elementary	360 N Castle Rock St	Unknown
Flood - Dam Failure, Terminus Dam	Education	Charter Home School Academy	31411 Road 160	Unknown
Flood - Dam Failure, Terminus Dam	Education	Cottonwood Creek Elementary School	4222 S Dans St	Unknown
Flood - Dam Failure, Terminus Dam	Education	Crestwood Elementary School	3001 W Whitendale Avenue	Unknown
Flood - Dam Failure, Terminus Dam	Education	Crowley Elementary School	214 East Ferguson	Unknown
Flood - Dam Failure, Terminus Dam	Education	Cypress Elementary School	1870 South Laspina	Unknown
Flood - Dam Failure, Terminus Dam	Education	Dinuba Adult School / Ronald Reagan Academy / Sierra Vista High School	9637 Avenue 196	Unknown
Flood - Dam Failure, Terminus Dam	Education	Divisadero Middle School	1200 S Divisadero St	Unknown
Flood - Dam Failure, Terminus Dam	Education	El Diamante High School	5100 W Whitendale Avenue	Unknown

**Table P-2. Tulare County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Terminus Dam	Education	Elbow Creek Elementary School	32747 Road 138	Unknown
Flood - Dam Failure, Terminus Dam	Education	Fairview Elementary School	1051 Robin Drive	Unknown
Flood - Dam Failure, Terminus Dam	Education	Four Creeks Elementary School	1844 N Burke St	Unknown
Flood - Dam Failure, Terminus Dam	Education	Golden Oak Elementary School	1700 N Lovers Ln	Unknown
Flood - Dam Failure, Terminus Dam	Education	Golden West High School	1717 N Mcauliff St	Unknown
Flood - Dam Failure, Terminus Dam	Education	Goshen Elementary School	6505 Avenue 308	Unknown
Flood - Dam Failure, Terminus Dam	Education	Green Acres Middle School	1147 N Mooney Blvd	Unknown
Flood - Dam Failure, Terminus Dam	Education	Heritage Elementary School	915 South Mooney Blvd	Unknown
Flood - Dam Failure, Terminus Dam	Education	Highland Elementary School	701 N Stevenson St	Unknown
Flood - Dam Failure, Terminus Dam	Education	Houston Elementary School	1200 N Giddings St	Unknown
Flood - Dam Failure, Terminus Dam	Education	Hurley Elementary School	6600 W Hurley Avenue	Unknown
Flood - Dam Failure, Terminus Dam	Education	Ivanhoe Elementary School	16030 Avenue 332	Unknown
Flood - Dam Failure, Terminus Dam	Education	John F Kennedy 6th Grade Academy	814 S Sowell St	Unknown



**Table P-2. Tulare County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Terminus Dam	Education	Kohn Elementary School	500 S. Laspina	Unknown
Flood - Dam Failure, Terminus Dam	Education	La Joya Middle School	4711 W La Vida Avenue	Unknown
Flood - Dam Failure, Terminus Dam	Education	La Sierra High School - Military Academy/La Sierra Junior Academy	1735 E Houston Avenue	Unknown
Flood - Dam Failure, Terminus Dam	Education	Lincoln Elementary School	900 S Conyer St	Unknown
Flood - Dam Failure, Terminus Dam	Education	Linwood Elementary School	3129 S Linwood St	Unknown
Flood - Dam Failure, Terminus Dam	Education	Manuel F. Hernandez Elementary School	2133 North Leila Street	Unknown
Flood - Dam Failure, Terminus Dam	Education	Mid-County Community School	2101 N Shirk Rd	Unknown
Flood - Dam Failure, Terminus Dam	Education	Mineral King Elementary School	3333 E Kaweah Avenue	Unknown
Flood - Dam Failure, Terminus Dam	Education	Mission Oak High School	3442 E. Bardsley Avenue.	Unknown
Flood - Dam Failure, Terminus Dam	Education	Mount Whitney High School	909 E. Cedar	Unknown
Flood - Dam Failure, Terminus Dam	Education	Mountain View Elementary School	2021 S Encina St	Unknown
Flood - Dam Failure, Terminus Dam	Education	Oak Grove Elementary School	4445 W Ferguson Avenue	Unknown
Flood - Dam Failure, Terminus Dam	Education	Outside Creek Elementary School	26452 Road 164	Unknown

**Table P-2. Tulare County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Terminus Dam	Education	Palo Verde Elementary School	9637 Avenue 196	Unknown
Flood - Dam Failure, Terminus Dam	Education	Pinkham Elementary School	2200 E Tulare Avenue	Unknown
Flood - Dam Failure, Terminus Dam	Education	Redwood High School	1001 W Main St	Unknown
Flood - Dam Failure, Terminus Dam	Education	River Bend Elementary School	1800 N Lovers Ln	Unknown
Flood - Dam Failure, Terminus Dam	Education	Royal Oaks Elementary School	1323 S Clover St	Unknown
Flood - Dam Failure, Terminus Dam	Education	Sundale School	13990 Avenue 240	Unknown
Flood - Dam Failure, Terminus Dam	Education	Superior Community School	1105 South O St.	Unknown
Flood - Dam Failure, Terminus Dam	Education	Valley Oak Middle School	2000 N Lovers Ln	Unknown
Flood - Dam Failure, Terminus Dam	Education	Veva Blunt Elementary School	1119 S Chinowth St	Unknown
Flood - Dam Failure, Terminus Dam	Education	Visalia Charter Independent Study	1821 West Meadow Lane	Unknown
Flood - Dam Failure, Terminus Dam	Education	Visalia Technical Education	2049 South Linwood Street	Unknown
Flood - Dam Failure, Terminus Dam	Education	Washington Elementary School	500 S Garden St	Unknown
Flood - Dam Failure, Terminus Dam	Education	Waukena Joint Union Elementary School	19113 Road 28	Unknown

**Table P-2. Tulare County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - Dam Failure, Terminus Dam	Education	Willow Glen Elementary School	310 N Akers St	Unknown
Fog <sup>+</sup>	Education	Adult School Program	3110 East Houston	Unknown
Fog <sup>+</sup>	Education	Alila School	955 E. Tulare Avenue.	Unknown
Fog <sup>+</sup>	Education	Allensworth Elementary School	3320 Young Rd	Unknown
Fog <sup>+</sup>	Education	Alpauch Junior-Senior High/Alpaugh Elementary School	5313 Road 39	Unknown
Fog <sup>+</sup>	Education	Alta Vista Elementary School	2293 E Crabtree Avenue	Unknown
Fog <sup>+</sup>	Education	Annie R. Mitchell Elementary School	2121 E Laura St	Unknown
Fog <sup>+</sup>	Education	Bartlett Middle School/Charter Alternative Academy School	355 North "G" Street	Unknown
Fog <sup>+</sup>	Education	Belleview Elementary School	197 West Belleview Street	Unknown
Fog <sup>+</sup>	Education	Bravo Lake High School	450 West Sequoia	Unknown
Fog <sup>+</sup>	Education	Buckley Elementary School	2573 W. Westfield	Unknown
Fog <sup>+</sup>	Education	Buena Vista Elementary School	21660 Road 60	Unknown
Fog <sup>+</sup>	Education	Burton Community Day School	264 N Westwood	Unknown
Fog <sup>+</sup>	Education	Burton Elementary School	2375 W Morton Avenue	Unknown
Fog <sup>+</sup>	Education	Burton Middle School	1155 N. Elderwood St.,	Unknown
Fog <sup>+</sup>	Education	Butterfield Charter High School/Porterville Adult School	901 N Mooney Blvd	Unknown
Fog <sup>+</sup>	Education	Button Pathways Charter Academy	1414 West Olive Avenue.	Unknown
Fog <sup>+</sup>	Education	Carl Smith Middle School	23825 Avenue 92	Unknown
Fog <sup>+</sup>	Education	Castle Rock Elementary	360 N Castle Rock St	Unknown
Fog <sup>+</sup>	Education	Charter Alternative Academy School/Union Elementary School	28050 Road 148	Unknown

**Table P-2. Tulare County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Fog <sup>+</sup>	Education	Charter Home School Academy	31411 Road 160	Unknown
Fog <sup>+</sup>	Education	Cherry Middle School	540 N Cherry St	Unknown
Fog <sup>+</sup>	Education	Citrus High School	261 E Mulberry Avenue	Unknown
Fog <sup>+</sup>	Education	College Of The Sequoias	895 W. Gail	Unknown
Fog <sup>+</sup>	Education	Columbine Elementary School	2240 Road 160	Unknown
Fog <sup>+</sup>	Education	Conyer Elementary School	999 N Crawford Avenue	Unknown
Fog <sup>+</sup>	Education	Cottonwood Creek Elementary School	4222 S Dans St	Unknown
Fog <sup>+</sup>	Education	Countryside High School	1084 South Pratt Street	Unknown
Fog <sup>+</sup>	Education	Crestwood Elementary School	3001 W Whitendale Avenue	Unknown
Fog <sup>+</sup>	Education	Crowley Elementary School	214 East Ferguson	Unknown
Fog <sup>+</sup>	Education	Culter-Orosi Community Day School	14198 Avenue 384	Unknown
Fog <sup>+</sup>	Education	Cutler Elementary School	40532 Road 128	Unknown
Fog <sup>+</sup>	Education	Cutler-Orosi Adult School/Esperanza Alternative High School	12623 Avenue 416	Unknown
Fog <sup>+</sup>	Education	Cypress Elementary School	1870 South Laspina	Unknown
Fog <sup>+</sup>	Education	Deep Creek Continuation Academy	281 S Farmersville Blvd	Unknown
Fog <sup>+</sup>	Education	Dinuba Adult School / Ronald Reagan Academy / Sierra Vista High School	9637 Avenue 196	Unknown
Fog <sup>+</sup>	Education	Dinuba High School	340 E Kern St	Unknown
Fog <sup>+</sup>	Education	Divisadero Middle School	1200 S Divisadero St	Unknown
Fog <sup>+</sup>	Education	Ducor Union Elementary School	23761 Avenue 56	Unknown
Fog <sup>+</sup>	Education	Earlimart Elementary School	192 S Church Rd	Unknown
Fog <sup>+</sup>	Education	Earlimart Middle School	599 S Church Rd	Unknown
Fog <sup>+</sup>	Education	El Diamante High School	5100 W Whitendale Avenue	Unknown
Fog <sup>+</sup>	Education	El Monte Middle School	42111 Road 128	Unknown

**Table P-2. Tulare County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Fog <sup>+</sup>	Education	Elbow Creek Elementary School	32747 Road 138	Unknown
Fog <sup>+</sup>	Education	Exeter Community Day School	1107 East Rocky Hill Drive	Unknown
Fog <sup>+</sup>	Education	Exeter Union High School	505 Rocky Hill Drive	Unknown
Fog <sup>+</sup>	Education	Fairview Elementary School	1051 Robin Drive	Unknown
Fog <sup>+</sup>	Education	Farmersville High School	631 E Walnut Avenue	Unknown
Fog <sup>+</sup>	Education	Farmersville Jr High School	650 N Virginia Avenue	Unknown
Fog <sup>+</sup>	Education	Four Creeks Elementary School	1844 N Burke St	Unknown
Fog <sup>+</sup>	Education	Francis J White Learning Center	700 North Cypress St.	Unknown
Fog <sup>+</sup>	Education	Freedom Elementary School	575 E Citrus Drive	Unknown
Fog <sup>+</sup>	Education	Garden Elementary	640 E. Pleasant	Unknown
Fog <sup>+</sup>	Education	George L Snowden School	301 S Farmersville Blvd	Unknown
Fog <sup>+</sup>	Education	Golden Oak Elementary School	1700 N Lovers Ln	Unknown
Fog <sup>+</sup>	Education	Golden Valley Elementary School	41465 Road 127	Unknown
Fog <sup>+</sup>	Education	Golden West High School	1717 N Mcauliff St	Unknown
Fog <sup>+</sup>	Education	Goshen Elementary School	6505 Avenue 308	Unknown
Fog <sup>+</sup>	Education	Grand View Elementary	39746 Road 64	Unknown
Fog <sup>+</sup>	Education	Granite Hills High School	1701 E Putnam Avenue	Unknown
Fog <sup>+</sup>	Education	Green Acres Middle School	1147 N Mooney Blvd	Unknown
Fog <sup>+</sup>	Education	Harmony Magnet Academy	19429 Road 228	Unknown
Fog <sup>+</sup>	Education	Heritage Elementary School	915 South Mooney Blvd	Unknown
Fog <sup>+</sup>	Education	High School Farm	591 W. Bardsley Avenue.	Unknown
Fog <sup>+</sup>	Education	Highland Elementary School	701 N Stevenson St	Unknown
Fog <sup>+</sup>	Education	Hope Elementary School	613 W Tea Pot Dome	Unknown
Fog <sup>+</sup>	Education	Horizon Community Day School	1051 S Plano St	Unknown

**Table P-2. Tulare County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Fog <sup>+</sup>	Education	Hot Springs Elementary School	801 W. Gail	Unknown
Fog <sup>+</sup>	Education	Houston Elementary School	1200 N Giddings St	Unknown
Fog <sup>+</sup>	Education	Hurley Elementary School	6600 W Hurley Avenue	Unknown
Fog <sup>+</sup>	Education	Ivanhoe Elementary School	16030 Avenue 332	Unknown
Fog <sup>+</sup>	Education	Je Hester Elementary School	477 E Ash St	Unknown
Fog <sup>+</sup>	Education	Jefferson Elementary School	333 N Westwood Avenue	\$5,000,000
Fog <sup>+</sup>	Education	Jefferson Elementary School	1660 E Sierra Way	Unknown
Fog <sup>+</sup>	Education	Jim Maples Academy	252 N. Westwood	Unknown
Fog <sup>+</sup>	Education	John F Kennedy 6Th Grade Academy	814 S Sowell St	Unknown
Fog <sup>+</sup>	Education	John J Cairns High School	467 E Honolulu St	Unknown
Fog <sup>+</sup>	Education	John J Doyle Elementary School	1045 E Orange Avenue	Unknown
Fog <sup>+</sup>	Education	Johnsondale Elementary School	755 E. Tulare Avenue.	Unknown
Fog <sup>+</sup>	Education	Kaweah High School, Exeter Virtual High School	21215 Avenue 300	Unknown
Fog <sup>+</sup>	Education	Kings River Union Elementary School	3961 Avenue 400	Unknown
Fog <sup>+</sup>	Education	Kohn Elementary School	500 S. Laspina	Unknown
Fog <sup>+</sup>	Education	La Joya Middle School	4711 W La Vida Avenue	Unknown
Fog <sup>+</sup>	Education	La Sierra High School - Military Academy/La Sierra Junior Academy	1735 E Houston Avenue	Unknown
Fog <sup>+</sup>	Education	La Sierra High School - Porterville Campus	1414 W Olive Avenue	Unknown
Fog <sup>+</sup>	Education	Liberty Elementary School	11535 Avenue 264	Unknown
Fog <sup>+</sup>	Education	Lincoln Elementary School	9364 Road 238	Unknown
Fog <sup>+</sup>	Education	Lincoln Elementary School	960 N Newcomb St	Unknown
Fog <sup>+</sup>	Education	Lincoln Elementary School	333 S D St	Unknown

**Table P-2. Tulare County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Fog <sup>+</sup>	Education	Lincoln Elementary School	900 S Conyer St	Unknown
Fog <sup>+</sup>	Education	Lindsay Community Day School	519 East Honolulu St.	Unknown
Fog <sup>+</sup>	Education	Lindsay High School	1701 E Tulare Rd	\$10,000,000
Fog <sup>+</sup>	Education	Linwood Elementary School	3129 S Linwood St	Unknown
Fog <sup>+</sup>	Education	Live Oak Middle School	980 N. Laspina	Unknown
Fog <sup>+</sup>	Education	Los Robles Elementary School	500 E Mulberry Avenue	Unknown
Fog <sup>+</sup>	Education	Los Tules Middle School	Po Box 38 Mountain Road 56	Unknown
Fog <sup>+</sup>	Education	Lovell Continuation High School	12724 Avenue 392	Unknown
Fog <sup>+</sup>	Education	Manuel F. Hernandez Elementary School	2133 North Leila Street	Unknown
Fog <sup>+</sup>	Education	Maple Elementary School	640 W. Cross	Unknown
Fog <sup>+</sup>	Education	Mid-County Community School	2101 N Shirk Rd	Unknown
Fog <sup>+</sup>	Education	Mineral King Elementary School	3333 E Kaweah Avenue	Unknown
Fog <sup>+</sup>	Education	Mission Oak High School	3442 E. Bardsley Avenue.	Unknown
Fog <sup>+</sup>	Education	Mission Valley Elementary School	1695 Bella Oaks	Unknown
Fog <sup>+</sup>	Education	Monache High School	850 N. Eaton Avenue	Unknown
Fog <sup>+</sup>	Education	Monson-Sultana School	10643 Avenue 416	Unknown
Fog <sup>+</sup>	Education	Monte Vista Elementary School	701 W Westfield	Unknown
Fog <sup>+</sup>	Education	Mount Whitney High School	909 E. Cedar	Unknown
Fog <sup>+</sup>	Education	Mountain View Elementary School	2021 S Encina St	Unknown
Fog <sup>+</sup>	Education	Mulcahy Middle School	1001 W. Sonora	Unknown
Fog <sup>+</sup>	Education	Oak Grove Elementary School	1873 W Mulberry Avenue	Unknown
Fog <sup>+</sup>	Education	Oak Grove Elementary School	4445 W Ferguson Avenue	Unknown
Fog <sup>+</sup>	Education	Oak Valley Elementary School	24500 Road 68	Unknown
Fog <sup>+</sup>	Education	Olive Street Elementary School	255 W Olive Avenue	Unknown

**Table P-2. Tulare County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Fog <sup>+</sup>	Education	Orosi High School	41815 Road 128	Unknown
Fog <sup>+</sup>	Education	Outside Creek Elementary School	26452 Road 164	Unknown
Fog <sup>+</sup>	Education	Palm Elementary School	12915 Avenue 419	Unknown
Fog <sup>+</sup>	Education	Palo Verde Elementary School	9637 Avenue 196	Unknown
Fog <sup>+</sup>	Education	Pinkham Elementary School	2200 E Tulare Avenue	Unknown
Fog <sup>+</sup>	Education	Pioneer Middle School	225 E College Avenue	Unknown
Fog <sup>+</sup>	Education	Pixley Elementary School	300 N. School St	Unknown
Fog <sup>+</sup>	Education	Pixley Middle School	1520 E. Court Street	Unknown
Fog <sup>+</sup>	Education	Pleasant Elementary School	1855 W. Pleasant	Unknown
Fog <sup>+</sup>	Education	Pleasant View Elementary School	18900 Avenue 145	Unknown
Fog <sup>+</sup>	Education	Pleasant View West School	14004 Road 184	Unknown
Fog <sup>+</sup>	Education	Porterville College	100 E College	Unknown
Fog <sup>+</sup>	Education	Porterville High School	465 W Olive Avenue	Unknown
Fog <sup>+</sup>	Education	Prospect Education Center	645 N Prospect	Unknown
Fog <sup>+</sup>	Education	Redwood High School	1001 W Main St	Unknown
Fog <sup>+</sup>	Education	Richgrove Elementary School	20908 Grove Drive	Unknown
Fog <sup>+</sup>	Education	River Bend Elementary School	1800 N Lovers Ln	Unknown
Fog <sup>+</sup>	Education	Roche Avenue Elementary School	388 N Roche Avenue	Unknown
Fog <sup>+</sup>	Education	Rockford Elementary School	14983 Road 208	Unknown
Fog <sup>+</sup>	Education	Rocky Hill Elementary School	313 Sequoia Drive	Unknown
Fog <sup>+</sup>	Education	Roosevelt Elementary School	1046 W. Sonora	Unknown
Fog <sup>+</sup>	Education	Roosevelt Elementary School	1311 N. Euclid Avenue	Unknown
Fog <sup>+</sup>	Education	Royal Oaks Elementary School	1323 S Clover St	Unknown
Fog <sup>+</sup>	Education	Santa Fe Elementary School	286 E Orange Avenue	Unknown



**Table P-2. Tulare County Office of Education, Vulnerable Critical Facilities and Infrastructure**

Hazard	Category	Name	Address	Value
Fog <sup>+</sup>	Education	Saucelito Elementary School	17615 Avenue 104	Unknown
Fog <sup>+</sup>	Education	Sequoia High School	900 West Pioneer Avenue	Unknown
Fog <sup>+</sup>	Education	Sequoia Middle School	1450 W Castle	Unknown
Fog <sup>+</sup>	Education	Sierra Vista High School	8470 Avenue 406	Unknown
Fog <sup>+</sup>	Education	Steve Garvey Junior High School	340 N Harvard Avenue	\$5,000,000
Fog <sup>+</sup>	Education	Stone Corral Elementary School	15590 Avenue 383	Unknown
Fog <sup>+</sup>	Education	Strathmore Union Elementary	23024 Avenue 198	Unknown
Fog <sup>+</sup>	Education	Strathmore High School	22568 Avenue 196	Unknown
Fog <sup>+</sup>	Education	Strathmore Middle School	19840 Orange Belt Drive	Unknown
Fog <sup>+</sup>	Education	Success Community School	14871 Road 192	Unknown
Fog <sup>+</sup>	Education	Summit Charter Academy - Mathew Campus	175 S Mathew St	Unknown
Fog <sup>+</sup>	Education	Summit Charter Collegiate Academy	15550 Redwood St	Unknown
Fog <sup>+</sup>	Education	Sundale School	13990 Avenue 240	Unknown
Fog <sup>+</sup>	Education	Sunnyside Union Elementary School	21644 Avenue 196	Unknown
Fog <sup>+</sup>	Education	Superior Community School	1105 South O St.	Unknown
Fog <sup>+</sup>	Education	Terra Bella Elementary School	851 N Stanford Avenue	\$5,000,000
Fog <sup>+</sup>	Education	Tipton Elementary School	370 N Evans Rd	Unknown
Fog <sup>+</sup>	Education	Traver Joint Elementary School	36736 Canal Drive	Unknown
Fog <sup>+</sup>	Education	Tulare Adult School	575 W. Maple Avenue.	Unknown
Fog <sup>+</sup>	Education	Tulare City Community Day School	601 Delwood St	Unknown
Fog <sup>+</sup>	Education	Tulare Union High School	Route 1 Box 104	Unknown
Fog <sup>+</sup>	Education	Tulare Western High School	824 W Maple	Unknown
Fog <sup>+</sup>	Education	Valley High School / Tulare Tech Prep School	737 W. Bardsley Avenue.	Unknown

**Table P-2. Tulare County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Fog <sup>+</sup>	Education	Valley Oak Middle School	2000 N Lovers Ln	Unknown
Fog <sup>+</sup>	Education	Vandalia Elem School	271 E College Avenue	Unknown
Fog <sup>+</sup>	Education	Veva Blunt Elementary School	1119 S Chinowth St	Unknown
Fog <sup>+</sup>	Education	Vine Street Community Day School	140 S C St	Unknown
Fog <sup>+</sup>	Education	Visalia Charter Independent Study	1821 West Meadow Lane	Unknown
Fog <sup>+</sup>	Education	Visalia Technical Education	2049 South Linwood Street	Unknown
Fog <sup>+</sup>	Education	Washington Elementary School	451 E Samoa St	\$5,000,000
Fog <sup>+</sup>	Education	Washington Elementary School	500 S Garden St	Unknown
Fog <sup>+</sup>	Education	Washington Intermediate School	1150 N Hayes Avenue	Unknown
Fog <sup>+</sup>	Education	Waukena Joint Union Elementary School	19113 Road 28	Unknown
Fog <sup>+</sup>	Education	West Putnam Elementary School	1345 W Putnam Avenue	Unknown
Fog <sup>+</sup>	Education	Westfield Elem School	1151 W Pioneer Avenue	Unknown
Fog <sup>+</sup>	Education	Willow Glen Elementary School	310 N Akers St	Unknown
Fog <sup>+</sup>	Education	Wilson Elementary School	850 W. Washington Avenue	Unknown
Fog <sup>+</sup>	Education	Wilson Elementary School	305 E Kamm Avenue	Unknown
Fog <sup>+</sup>	Education	Wilson Middle School	265 Albert Avenue	Unknown
Fog <sup>+</sup>	Education	Woodlake Union High School	400 West Whitney Avenue.	Unknown
Fog <sup>+</sup>	Education	Woodlake Valley Middle School	497 N Palm St	Unknown
Fog <sup>+</sup>	Education	Woodville Elementary School	16541 Road 168	Unknown
Fog <sup>+</sup>	Education	Yetterm Continuation High School	13198 Avenue 484	Unknown
Severe Winter Storm - Freezing*	Education	Alpauch Junior-Senior High/Alpaugh Elementary School	5313 Road 39	Unknown
Severe Winter Storm - Freezing*	Education	Conyer Elementary School	999 N Crawford Avenue	Unknown

**Table P-2. Tulare County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freezing*	Education	Cutler Elementary School	40532 Road 128	Unknown
Severe Winter Storm - Freezing*	Education	Cutler-Orosi Adult School/Esperanza Alternative High School	12623 Avenue 416	Unknown
Severe Winter Storm - Freezing*	Education	Dinuba High School	340 E Kern St	Unknown
Severe Winter Storm - Freezing*	Education	El Monte Middle School	42111 Road 128	Unknown
Severe Winter Storm - Freezing*	Education	Golden Valley Elementary School	41465 Road 127	Unknown
Severe Winter Storm - Freezing*	Education	Jefferson Elementary School	1660 E Sierra Way	Unknown
Severe Winter Storm - Freezing*	Education	Monache High School	850 N. Eaton Avenue	Unknown
Severe Winter Storm - Freezing*	Education	Monson-Sultana School	10643 Avenue 416	Unknown
Severe Winter Storm - Freezing*	Education	Orosi High School	41815 Road 128	Unknown
Severe Winter Storm - Freezing*	Education	Palm Elementary School	12915 Avenue 419	Unknown
Severe Winter Storm - Freezing*	Education	Roosevelt Elementary School	1311 N. Euclid Avenue	Unknown
Severe Winter Storm - Freezing*	Education	Sierra Elementary School	50151 Whitaker Forest Rd	Unknown
Severe Winter Storm - Freezing*	Education	Springville Union Elementary School	35424 Ward Avenue	Unknown

**Table P-2. Tulare County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freezing*	Education	Washington Intermediate School	1150 N Hayes Avenue	Unknown
Severe Winter Storm - Freezing*	Education	Waukena Joint Union Elementary School	19113 Road 28	Unknown
Severe Winter Storm - Snowfall**	Education	Sierra Elementary School	50151 Whitaker Forest Rd	Unknown
Severe Winter Storm - Wind Gust***	Education	Sierra Elementary School	50151 Whitaker Forest Rd	Unknown
Volcano - Ash Fall	Education	Sierra Elementary School	50151 Whitaker Forest Rd	Unknown
Wildfire - Very High	Education	Three Rivers Elementary School	41932 Sierra Drive	Unknown
Wildfire - High	Education	Sequoia Union School	23958 Avenue 324	Unknown
Wildfire - Moderate	Education	Citrus South Tule Elementary School	31374 Success Valley Drive	Unknown
Wildfire - Moderate	Education	Horizon Community Day School	1051 S Plano St	Unknown
Wildfire - Moderate	Education	Sierra Elementary School	50151 Whitaker Forest Rd	Unknown
Wildfire - Moderate	Education	Springville Union Elementary School	35424 Ward Avenue	Unknown

\* Freezing - temperatures at freezing or below for more than 30 days per year

\*\* Snowfall - greater than 24 inches of snow per year

\*\*\* Wind Gust - peak wind gusts greater than 50 mph for more than 30 days per year

+ Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table P-3. Tulare County Office of Education, Summary of Impacts for Critical Facilities and Infrastructure**

Hazard	No. of Critical Facilities and Infrastructure	% of Critical Facilities and Infrastructure
Earthquake - Moderate Groundshaking	164	89%
Earthquake - Light Groundshaking	20	11%
Flood - 100 Year Floodplain	29	16%
Flood - 500 Year Floodplain	56	30%
Flood - Dam Failure, Sand Creek Dam	6	3%
Flood - Dam Failure, Success Dam	35	19%
Flood - Dam Failure, Terminus Dam	53	29%
Fog <sup>+</sup>	179	97%
Severe Winter Storm - Freezing <sup>*</sup>	17	9%
Severe Winter Storm - Snowfall <sup>**</sup>	1	1%
Severe Winter Storm - Wind Gust <sup>***</sup>	1	1%
Wildfire - Very High	1	1%
Wildfire - High	1	1%
Wildfire - Moderate	4	2%

<sup>\*</sup> Freezing - temperatures at freezing or below for more than 30 days per year

<sup>\*\*</sup> Snowfall - greater than 24 inches of snow per year

<sup>\*\*\*</sup> Wind Gust - peak wind gusts greater than 50 mph for more than 30 days per year

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table P-4. Tulare County Office of Education, Human and Technical Resources for Hazard Mitigation**

Staff/Personnel Resources	Department or Agency	Principal Activities Related to Hazard Mitigation
John Caudle, Assistant Superintendent	Tulare County Office of Education	Under the direction of the Superintendent, plan, organize, control, and direct the activities and operations of the Business Services Office, coordinate assigned activities with other divisions, departments, school districts, and outside agencies; maintain the fiscal integrity and solvency of the organization; assure programs are operating within the appropriate fiscal parameters and remain in compliance with the appropriate federal, state, or local regulations.
John Caudle Facilities Coordinator	Tulare County Office of Education	Under the direction of the Superintendent/Designee, coordinate and develop short- and long-range plans for school housing facilities; plan, organize, and coordinate the activities and operations of the facilities and planning functions, including new construction, renovation, and leasing; act as a liaison between the County Office of Education and the agencies of the State, County, and City governments.
Shelly DiCenzo Business Services Administrative Assistant	Tulare County Office of Education	Under the direction of Chief Business and Administrative Services Officer, perform highly responsible and confidential secretarial and administrative assistant duties to relieve the administrator of a variety of administrative details; interpret policies and regulations to officials, staff, and the public; plan, coordinate, and organize office activities and coordinate flow of communications and information for the assigned administrators, maintain confidentiality of sensitive and privileged information.
Roger Beavers Manager, Maintenance and Grounds	Tulare County Office of Education	Under the direction of the Superintendent, organize and direct the activities and operations of the Maintenance and Operations Office; plan, coordinate, organize, and supervise the maintenance of school facilities and grounds; perform a variety of custodial, grounds maintenance, and highly skilled building and equipment maintenance duties and other designated services.

**Table P-4. Tulare County Office of Education, Human and Technical Resources for Hazard Mitigation**

Staff/Personnel Resources	Department or Agency	Principal Activities Related to Hazard Mitigation
Roger Smith, Chief Information Technology Officer	Tulare County Office of Education	Under the direction of the Assistant Superintendent, plan, organize, control and direct strategic planning of management information services for the Tulare County Superintendent of Schools and the school districts of Tulare County; direct and support the use of personal computer hardware and software, computer, and computer-related needs of the TCOE Local Area Network and Wide Area Network; direct the maintenance and programming of the electronic communications systems for the County-wide Financial System; direct the operations and maintenance of the TCOE communications network.

**Table P-5. Tulare County Office of Education, Legal and Regulatory Resources Available 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>	Tulare County Office of Education will assist all agencies in emergency situations	Describes what the County Office of Education and schools that house Tulare County Office of Education’s programs, actions will be during a response to an emergency. The office will follow the emergency plans of the district in which the facilities are located.	The specific occurrence	Response	No
	Tulare County Superintendent of Schools Pandemic Influenza Crisis Response Plan	Describes what the response will be between Tulare County Superintendent of Schools, Tulare County Public Health Department and Tulare County Office of Emergency Services during the different stages of a pandemic influenza crisis as it relates to schools.	Pandemic Influenza	Response	No
<b>Policies</b>	Tulare County Office of Education Comprehensive Safety Plan	Describes policies and procedures for maximizing school safety and to create a positive learning environment that teaches strategies for violence prevention and emphasizes high expectations for student conduct.	Any event that affects the school, students, and staff.	Response	No



**Table P-6. Tulare County Office of Education, Financial Resources**

Type	Subtype	Administrator	Purpose
<b>Local</b>	General Fund	District-specific.	Program operations and specific projects.
<b>Federal</b>	Hazard Mitigation Grant Program (HMGP)	Federal Emergency Management Agency (FEMA)	Supports pre- and post-disaster mitigation plans and projects.
	Pre-Disaster Mitigation (PDM) grant program	FEMA	Supports pre-disaster mitigation plans and projects.
	Hazard Mitigation Grant Program (HMGP)	Federal Emergency Management Agency (FEMA)	Supports pre- and post-disaster mitigation plans and projects.

**Table P-7. Tulare County Office of Education, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

Name/Status	Buildings and Grounds	Description	Year(s)
Tulare County Office of Education / Ongoing	Nonstructural earthquake safety.	Inspection of facilities and grounds to identify areas of repair.	Performed annually
Tulare County Office of Education / Ongoing	Nonstructural earthquake safety.	Securing all bookcases and cabinets to walls and assessing rooms for falling objects.	Performed annually
Tulare County Office of Education / Ongoing encourage	District support	Encourage Districts to participate in statewide Earthquake and Evacuation drill. These activities also encourage districts to review school sites for safe areas and preparing classrooms from falling debris.	Annually

**Table P-8. Tulare County Office of Education, 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 of residential and/or non-residential structures in hazard areas, such high and/or very high wildfire areas.	Property Protection	All	New and Existing – Residential and non-residential buildings in hazard areas.
2	Integrate the Tulare County 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	Not applicable.
3	Seismically retrofit or replace emergency response facilities that are necessary during and/or immediately after a disaster or emergency.	Property Protection, Structural Project	Earthquake	Existing – Emergency response facilities that are structurally deficient or located within a high ground shaking area.
4	Seismically retrofit or replace 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 and/or immediate after a disaster or emergency.	Property Protection, Structural Project	Earthquake	Existing – Ramps and bridges identified by Caltrans as structurally deficient or located within an extreme ground shaking area.
5	Develop a public outreach program that informs property owners located in the dam or levee inundation areas about voluntary flood insurance.	Public Outreach	Flood (Dam and Levee Failure)	Existing – Residential buildings located within dam or levee inundation areas.
6	Create a database that accounts for all levees in Tulare County and their condition.	All	Flood (Levee Failure)	Not applicable.
7	Acquire, relocate, or elevate residential structures, in particular those that have been identified as Repetitive Loss (RL) properties that are located within the 100-year floodplain.	Property Protection	Flood (Riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
8	Acquire, relocate, elevate, and/or floodproof critical facilities that are located within the 100-year floodplain.	Property Protection	Flood (Riverine)	Existing - Critical facilities located within the 100-year floodplain.

**Table P-8. Tulare County Office of Education, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
9	Reinforce County and local ramps, bridges, and roads from flooding through protection activities, including elevating the road and installing culverts beneath the road or building a higher bridge across the area that experiences regular flooding.	Property Protection, Structural Project	Flood (Riverine)	Existing – County and local ramps, bridges, and roads identified in the 100-year floodplain.
10	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide Digital Flood Insurance Rate Map (DFIRM), Community Assessment Visits, and/or the Department of Water Resources (DWR).	All	Flood (Riverine)	New/Existing -Properties within the 100-year or 500-year floodplain.
11	Increase participation in the National Flood Insurance Program (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	Flood (Riverine)	New/Existing –County and incorporated communities that have RL properties.
12	Continue to work with weather forecasting and public safety agencies to provide warning and protective information to residents, travelers, and visitors about severe valley fog conditions*.	Prevention	Fog	Not applicable.
13	Implement post-fire debris flow hill-slope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-Fire Debris Flow	Existing – Public works facilities.
14	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	Existing – Critical facilities located in areas that experience severe wind.
15	Develop a free annual tree chipping and tree pick-up day that encourages residents living in wind hazard areas to manage trees and shrubs at risk to falling on nearby structures.	Property Protection	Severe Winter Storm	Existing – Residential buildings that experience severe wind.

**Table P-8. Tulare County Office of Education, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
16	Bolt down the roofs of critical facilities in wind gust hazard areas in order to prevent wind damage.	Property Protection	Severe Winter Storm	Existing – Critical facilities located in areas that experience wind gusts.
17	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 and residential buildings located within high and very high wildfire zones.
18	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 from around their homes.	Property Protection	Wildfire	Existing – Residential buildings in high or very high wildfire zones.
19	Develop a community wildfire mitigation plan that identifies and prioritizes areas for hazard fuel reduction treatments, and recommend the types of methods of treatments.	Prevention, Property Protection	Wildfires	New/ Existing – Residential and non-residential buildings located within high or very high wildfire areas in the Local Responsibility Areas
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 – Residential and non-residential buildings located within high or very high wildfire areas.

\* Mitigation action does not meet the 2011 HMA Guidance requirements for FEMA mitigation funding

**Table P-9. Tulare County Office of Education, Mitigation Action Plan**

No.	Selected (Y/N)	Description	Prioritization Criteria	Facility to be Mitigated (if known)	Department or Agency	Timeframe to be Implemented
1	Y	Create a GIS-based pre-application review for new construction and major remodels of residential and/or non-residential structures in hazard areas, such high and/or very high wildfire areas.	B, C, D, E	Not Applicable	Tulare County Office of Education	1-3 years
3	Y	Seismically retrofit or replace emergency response facilities that are necessary during and/or immediately after a disaster or emergency.	B, C, D, E	Schools designated for sheltering	Tulare County Office of Education	3 years
8	Y	Acquire, relocate, elevate, and/or floodproof critical facilities that are located within the 100-year floodplain.	B, C, D, E	Various Schools in the following districts: Allensworth, Dinuba Unified, Exeter High, Farmersville Unified, Lindsay Unified, Palo Verde, Pixley, Saucelito, Terra Bella, Travel, Tulare City, Visalia Unified and Woodlake Elementary	Tulare County Office of Education	3 years
10	Y	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.	B, C, D, E	Various Schools in the following districts: Alta Vista, Buena Vista, Burton, Cutler-Orosi Unified, Dinuba Unified, Exeter Elementary, Hope, Lindsay Unified, Outside Creek, Palo Verde, Pleasant View, Porterville Unified, Sequoia Union, Sundale, Tulare City, Tulare High, Visalia, Waukena, and Woodville	Tulare County Office of Education	Ongoing

**Prioritization Criteria**

- A. A local jurisdiction department or agency champion currently exists or can be identified
- B. The action can be implemented during the 5-year lifespan of the HMP
- C. The action may reduce expected future damages and losses (cost-benefit)
- D. The action mitigates a high-risk hazard
- E. The action mitigates multiple hazards

**Appendix Q**  
**Tule River Tribe**

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**Table Q-1. Tule River Tribe, Total Population and Residential Buildings**

<b>Population</b>	<b>Residential Buildings</b>	<b>Total Residential Building Value(2000)</b>
640	200	\$28,158,900

(Average structural value of residences in Census blocks for the year 2000: \$176,244)

Source: U.S. Census Bureau, 2000, California Department of Finance, 2010

**Table Q-2. Tule River Tribe, Total Critical Facilities and Infrastructure**

Category	Name	Address	Value
Community	Church on The Hill (Church of God)	190 N. Reservation Road	Unknown
Community	Elder Program	Latitude and Longitude	Unknown
Community	Matter De La Rosa Church	350 N. Reservation Road	Unknown
Community	Tule River Alcoholism Program (TRAP)	1012 N. Reservation Road	Unknown
Community	Tule River Amvets	359 N. Reservation Road	Unknown
Community	Tule River Community Gymnasium	308 N. Reservation Road	Unknown
Education	Child Care Center	186 N. Reservation Road	Unknown
Education	Tule River Study Center	568 W. Olive Avenue	Unknown
Education	Tule River Training and Employment Program (center)	310 Reservation Rd	Unknown
Emergency Response	Tule River Fire Station	299 S Reservation Rd	Unknown
Government	Department of Public Safety	304 N. Reservation Road	Unknown
Government	Eagle Feather Trading Post	31267 Highway 190	Unknown
Government	Eagle Mountain Casino	681 S. Tule Road	Unknown
Government	Eagle Mountain Casino Warehouse Facility	Latitude and Longitude	Unknown
Government	McCarthy Ranch	32657 Reservation Road	Unknown
Government	TANF	168 N. Reservation Road	Unknown
Government	Tule River Aero Industries	2011 Wildcat Way	Unknown
Government	Tule River Economic Development Corporation	2780 W Yowlumne Avenue # A	Unknown
Government	Tule River Housing Authority	342 N. Reservation Road	Unknown
Government	Tule River Maintenance Shop	298 N. Reservation Road	Unknown
Government	Tule River Natural Resources (Admin)	1010 N. Reservation Road	Unknown
Government	Tule River Natural Resources Shop	300 N. Reservation Road	Unknown
Government	Tule River Public Works	487 S. Reservation Road	Unknown

**Table Q-2. Tule River Tribe, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Government	Tule River Telecommunications Shed	364 N. Reservation Road	Unknown
Government	Tule River Tribal Administration Building	340 N. Reservation Rd	Unknown
Government	Water Treatment Plant	168 N. Reservation Road	Unknown
Health	Tule River Health Center Fiscal Dept	400 N. Reservation Road	Unknown
Health	Tule River Indian Health Center	380 N. Reservation Road	Unknown

**Table Q-3. Tule River Tribe, Vulnerable Population and Residential Buildings**

<b>Hazard</b>	<b>Population</b>	<b>Residential buildings</b>	<b>Total Residential Building Value</b>
Earthquake - Moderate Groundshaking	640	200	\$28,158,900
Severe Winter Storm - Freezing*	640	200	\$28,158,900
Severe Winter Storm - Snowfall**	103	31	\$4,414,859
Wildfire - Very High	95	29	\$4,076,578
Wildfire - High	413	131	\$18,352,699
Wildfire - Moderate	131	41	\$5,729,623

\* Freezing - temperatures at freezing or below for more than 30 days per year

\*\* Snowfall - greater than 24 inches of snow per year

**Table Q-4. Tule River Tribe, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Community	Church on The Hill (Church of God)	190 N. Reservation Road	Unknown
Earthquake - Moderate Groundshaking	Community	Elder Program	Latitude/Longitude	Unknown
Earthquake - Moderate Groundshaking	Community	Matter De La Rosa Church	350 N. Reservation Road	Unknown
Earthquake - Moderate Groundshaking	Community	Tule River Alcoholism Program (TRAP)	1012 N. Reservation Road	Unknown
Earthquake - Moderate Groundshaking	Community	Tule River Amvets	359 N. Reservation Road	Unknown
Earthquake - Moderate Groundshaking	Community	Tule River Community Gymnasium	308 N. Reservation Road	Unknown
Earthquake - Moderate Groundshaking	Education	Child Care Center	186 N. Reservation Road	Unknown
Earthquake - Moderate Groundshaking	Education	Tule River Study Center	568 W. Olive Avenue	Unknown
Earthquake - Moderate Groundshaking	Education	Tule River Training and Employment Program (center)	310 Reservation Rd	Unknown
Earthquake - Moderate Groundshaking	Emergency Response	Tule River Fire Station	299 S Reservation Rd	Unknown
Earthquake - Moderate Groundshaking	Government	Department of Public Safety	304 N. Reservation Road	Unknown
Earthquake - Moderate Groundshaking	Government	Eagle Feather Trading Post	31267 Highway 190	Unknown
Earthquake - Moderate Groundshaking	Government	Eagle Mountain Casino	681 S. Tule Road	Unknown
Earthquake - Moderate Groundshaking	Government	Eagle Mountain Casino Warehouse Facility	Latitude/Longitude	Unknown
Earthquake - Moderate Groundshaking	Government	McCarthy Ranch	32657 Reservation Road	Unknown

**Table Q-4. Tule River Tribe, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Moderate Groundshaking	Government	TANF	168 N. Reservation Road	Unknown
Earthquake - Moderate Groundshaking	Government	Tribal Offices	Latitude/Longitude	Unknown
Earthquake - Moderate Groundshaking	Government	Tule River Aero Industries	2011 Wildcat Way	Unknown
Earthquake - Moderate Groundshaking	Government	Tule River Economic Development Corporation	2780 W Yowlumne Avenue # A	Unknown
Earthquake - Moderate Groundshaking	Government	Tule River Housing Authority	342 N. Reservation Road	Unknown
Earthquake - Moderate Groundshaking	Government	Tule River Maintenance Shop	298 N. Reservation Road	Unknown
Earthquake - Moderate Groundshaking	Government	Tule River Natural Resources (Admin)	1010 N. Reservation Road	Unknown
Earthquake - Moderate Groundshaking	Government	Tule River Natural Resources Shop	300 N. Reservation Road	Unknown
Earthquake - Moderate Groundshaking	Government	Tule River Public Works	487 S. Reservation Road	Unknown
Earthquake - Moderate Groundshaking	Government	Tule River Telecommunications Shed	364 N. Reservation Road	Unknown
Earthquake - Moderate Groundshaking	Government	Tule River Tribal Administration Building	340 N. Reservation Rd	Unknown
Earthquake - Moderate Groundshaking	Government	Water Treatment Plant	168 N. Reservation Road	Unknown
Earthquake - Moderate Groundshaking	Government	Yokuts Custom Woodworking	Latitude/Longitude	Unknown
Earthquake - Moderate Groundshaking	Health	Tule River Health Center Fiscal Dept	400 N. Reservation Road	Unknown
Earthquake - Moderate Groundshaking	Health	Tule River Indian Health Center	380 N. Reservation Road	Unknown

**Table Q-4. Tule River Tribe, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flood - 100 Year Floodplain	Government	Eagle Feather Trading Post	31267 Highway 190	Unknown
Flood - Dam Failure, Success Dam	Education	Tule River Study Center	568 W. Olive Avenue	Unknown
Flood - Dam Failure, Success Dam	Government	Eagle Mountain Casino Warehouse Facility	Latitude/Longitude	Unknown
Flood - Dam Failure, Success Dam	Government	Tribal Offices	Latitude/Longitude	Unknown
Flood - Dam Failure, Success Dam	Government	Tule River Aero Industries	2011 Wildcat Way	Unknown
Flood - Dam Failure, Success Dam	Government	Tule River Economic Development Corporation	2780 W Yowlumne Avenue # A	Unknown
Flood - Dam Failure, Success Dam	Government	Yokuts Custom Woodworking	Latitude/Longitude	Unknown
Fog <sup>+</sup>	Education	Tule River Study Center	568 W. Olive Avenue	Unknown
Fog <sup>+</sup>	Government	Eagle Mountain Casino Warehouse Facility	Latitude/Longitude	Unknown
Fog <sup>+</sup>	Government	Tribal Offices	Latitude/Longitude	Unknown
Fog <sup>+</sup>	Government	Tule River Aero Industries	2011 Wildcat Way	Unknown
Fog <sup>+</sup>	Government	Tule River Economic Development Corporation	2780 W Yowlumne Avenue # A	Unknown
Fog <sup>+</sup>	Government	Yokuts Custom Woodworking	Latitude/Longitude	Unknown
Severe Winter Storm - Freezing*	Community	Church on The Hill (Church of God)	190 N. Reservation Road	Unknown
Severe Winter Storm - Freezing*	Community	Elder Program	Latitude/Longitude	Unknown
Severe Winter Storm - Freezing*	Community	Matter De La Rosa Church	350 N. Reservation Road	Unknown
Severe Winter Storm - Freezing*	Community	Tule River Alcoholism Program (TRAP)	1012 N. Reservation Road	Unknown
Severe Winter Storm - Freezing*	Community	Tule River Amvets	359 N. Reservation Road	Unknown
Severe Winter Storm - Freezing*	Community	Tule River Community Gymnasium	308 N. Reservation Road	Unknown
Severe Winter Storm - Freezing*	Education	Child Care Center	186 N. Reservation Road	Unknown

**Table Q-4. Tule River Tribe, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freezing*	Education	Tule River Training and Employment Program (center)	310 Reservation Rd	Unknown
Severe Winter Storm - Freezing*	Emergency Response	Tule River Fire Station	299 S Reservation Rd	Unknown
Severe Winter Storm - Freezing*	Government	Department of Public Safety	304 N. Reservation Road	Unknown
Severe Winter Storm - Freezing*	Government	Eagle Mountain Casino	681 S. Tule Road	Unknown
Severe Winter Storm - Freezing*	Government	TANF	168 N. Reservation Road	Unknown
Severe Winter Storm - Freezing*	Government	Tule River Housing Authority	342 N. Reservation Road	Unknown
Severe Winter Storm - Freezing*	Government	Tule River Maintenance Shop	298 N. Reservation Road	Unknown
Severe Winter Storm - Freezing*	Government	Tule River Natural Resources (Admin)	1010 N. Reservation Road	Unknown
Severe Winter Storm - Freezing*	Government	Tule River Natural Resources Shop	300 N. Reservation Road	Unknown
Severe Winter Storm - Freezing*	Government	Tule River Public Works	487 S. Reservation Road	Unknown
Severe Winter Storm - Freezing*	Government	Tule River Telecommunications Shed	364 N. Reservation Road	Unknown
Severe Winter Storm - Freezing*	Government	Tule River Tribal Administration Building	340 N. Reservation Rd	Unknown
Severe Winter Storm - Freezing*	Government	Water Treatment Plant	168 N. Reservation Road	Unknown
Severe Winter Storm - Freezing*	Health	Tule River Health Center Fiscal Dept	400 N. Reservation Road	Unknown
Severe Winter Storm - Freezing*	Health	Tule River Indian Health Center	380 N. Reservation Road	Unknown
Wildfire - High	Community	Elder Program	Latitude/Longitude	Unknown
Wildfire - High	Community	Matter De La Rosa Church	350 N. Reservation Road	Unknown
Wildfire - High	Community	Tule River Amvets	359 N. Reservation Road	Unknown
Wildfire - High	Community	Tule River Community Gymnasium	308 N. Reservation Road	Unknown



**Table Q-4. Tule River Tribe, Vulnerable Critical Facilities and Infrastructure**

Hazard	Category	Name	Address	Value
Wildfire - High	Education	Tule River Training and Employment Program (center)	310 Reservation Rd	Unknown
Wildfire - High	Emergency Response	Tule River Fire Station	299 S Reservation Rd	Unknown
Wildfire - High	Government	Department of Public Safety	304 N. Reservation Road	Unknown
Wildfire - High	Government	Tule River Housing Authority	342 N. Reservation Road	Unknown
Wildfire - High	Government	Tule River Maintenance Shop	298 N. Reservation Road	Unknown
Wildfire - High	Government	Tule River Natural Resources Shop	300 N. Reservation Road	Unknown
Wildfire - Moderate	Community	Church on The Hill (Church of God)	190 N. Reservation Road	Unknown
Wildfire - Moderate	Community	Tule River Alcoholism Program (TRAP)	1012 N. Reservation Road	Unknown
Wildfire - Moderate	Education	Child Care Center	186 N. Reservation Road	Unknown
Wildfire - Moderate	Government	Eagle Feather Trading Post	31267 Highway 190	Unknown
Wildfire - Moderate	Government	Eagle Mountain Casino	681 S. Tule Road	Unknown
Wildfire - Moderate	Government	McCarthy Ranch	32657 Reservation Road	Unknown
Wildfire - Moderate	Government	TANF	168 N. Reservation Road	Unknown
Wildfire - Moderate	Government	Tule River Natural Resources (Admin)	1010 N. Reservation Road	Unknown
Wildfire - Moderate	Government	Tule River Public Works	487 S. Reservation Road	Unknown
Wildfire - Moderate	Government	Tule River Telecommunications Shed	364 N. Reservation Road	Unknown
Wildfire - Moderate	Government	Tule River Tribal Administration Building	340 N. Reservation Rd	Unknown
Wildfire - Moderate	Government	Water Treatment Plant	168 N. Reservation Road	Unknown

**Table Q-4. Tule River Tribe, Vulnerable Critical Facilities and Infrastructure**

Hazard	Category	Name	Address	Value
Wildfire - Moderate	Health	Tule River Health Center Fiscal Dept	400 N. Reservation Road	Unknown
Wildfire - Moderate	Health	Tule River Indian Health Center	380 N. Reservation Road	Unknown

\* Freezing - temperatures at freezing or below for more than 30 days per year

† Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table Q-5. Tule River Tribe, 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 - Moderate Groundshaking	640	100%	200	100%
Severe Winter Storm - Freezing*	640	100%	200	100%
Severe Winter Storm - Snowfall**	103	16%	31	16%
Wildfire - Very High	95	15%	29	15%
Wildfire - High	413	65%	131	66%
Wildfire - Moderate	131	20%	41	21%

\* Freezing - temperatures at freezing or below for more than 30 days per year

\*\* Snowfall - greater than 24 inches of snow per year

**Table Q-6. Tule River Tribe, Summary of Impacts for Critical Facilities and Infrastructure**

Hazard	No. of Critical Facilities and Infrastructure	% of Critical Facilities and Infrastructure
Earthquake - Moderate Groundshaking	28	100%
Flood - Dam Failure, Success Dam	4	14%
Flood - 100 Year Floodplain	1	4%
Fog <sup>+</sup>	4	14%
Severe Winter Storm - Freezing*	22	79%
Wildfire - High	10	36%
Wildfire - Moderate	14	50%

\* Freezing - temperatures at freezing or below for more than 30 days per year

<sup>+</sup> Fog - It is important to note that fog does not cause structural damage and in itself does not cause loss of human life (the hazard of fog is a lack of visibility which often leads to vehicular accidents). However, for the sake of this analysis, all people and structures which fall in the hazard zone of fog are illustrated as vulnerable.

**Table Q-7. Tule River Tribe, Human and Technical Resources for Hazard Mitigation**

Staff/Personnel Resources	Department or Agency	Principal Activities Related to Hazard Mitigation
Deputy Tribal Administrator	Tule River Tribal Council – Contracts Grant	Contract, project, and construction management.
Technical staff, equipment operators, and maintenance and construction staff.	Tule River Tribal Council – 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.
Fire Chief	Tule River Tribal Council – Tule River 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.
Department of Public Safety	Tule River Tribal Council – Tribal Police/Tribal Security	Implement response and recovery efforts after the occurrence of human caused and natural hazards
EPA Director	Tule River Tribal Council – Environmental Department	Oversees various resource activities to include but not limited to, safe drinking water, hazardous waste, and other environmental related activities.
Natural Resources Director	Tule River Tribal Council – Natural Resource Department	Manages natural resources within the Reservation

**Table Q-8. Tule River Tribe, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Tribal</b>	General Fund	Department Specific	Program operations and specific projects	Variable.
<b>Federal</b>	Aid to Tribal Governments	Bureau of Indian Affairs (BIA)	Support general Tribal government operations, maintain up-to-date Tribal enrollment, conduct Tribal elections, and develop appropriate Tribal policies, legislation, and regulations.	Available to entitled tribes. Grant award based on specific projects as they are identified.
	Indian Reservation Roads Transportation Funding	Federal Highway Administration	Construct and improve roads, bridges, and transit facilities leading to, and within, Indian reservations or other Indian lands to provide safe access through hazard-prone areas.	Available to entitled tribes. Grant award based on specific projects as they are identified.
	Indian Community Development Block Grant Program	USHUD	Provide critical housing and community development resources to aid disaster recovery.	Available to entitled tribes. 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. Department of Housing and Urban Development (USHUD)	Acquisition of real property, relocation/demolition, rehabilitation of residential and non-residential structures, construction of public facilities, such as water and sewer facilities, streets, neighborhood centers, and the conversion of school buildings for eligible purposes.	Available to entitled communities. Grant award based on specific projects as they are identified.

**Table Q-8. Tule River Tribe, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Federal (cont)</b>	Imminent Threat, Indian Community Development Block Grant Program	USHUD	Alleviate or remove imminent threats to health or safety (e.g., drought).	Available to entitled tribes. Grant award based on specific projects as they are identified.
	Clean Water Act Sections 319	U.S. Environmental Protection Agency (EPA)	Fund water quality projects, including all types of nonpoint source projects, watershed protection or restoration projects, estuary management projects, and more traditional municipal wastewater treatment projects.	Available to entitled Tribes. Grant award based on specific projects as they are identified.
	Clean Water Act Sections 106	U.S. Environmental Protection Agency (EPA)	Fund water quality projects, including all types of nonpoint source projects, watershed protection or restoration projects, estuary management projects, and more traditional municipal wastewater treatment projects.	Available to entitled Tribes. Grant award based on specific projects as they are identified.
	Sierra Nevada Conservancy Proposition 84	U.S. Environmental Protection Agency (EPA)	Fund water quality projects, including all types of nonpoint source projects, watershed protection or restoration projects, estuary management projects, and more traditional municipal wastewater treatment projects.	Available to entitled Tribes. Grant award based on specific projects as they are identified.

**Table Q-9. Tule River Tribe, Legal and Regulatory Resources for Hazard Mitigation**

Regulatory Tool	Name	Description (Effect on Hazard Mitigation)	Hazards Addressed	Mitigation, Preparedness, Response, or Recovery	Affects Development in Hazard Areas?
<b>Plan</b>	Emergency Operations Plan (Draft)	This plan identifies natural and man- made disasters, such as major fires, winter storms, earthquakes and floods; technological emergencies involving hazardous material releases; and other incidences requiring assistance under Emergency Planning and Community Right to Know Act (EPCRA) are included.	All	All	Yes
	Integrated Resource Management Plan (Draft)	The purpose of the IRMP is to give guidance to Natural Resource Administrators to mitigate hazards related to Natural and Cultural Resources	Natural and Cultural Resources	All	Yes
	Forest Management Plan	The purpose of the FMP is to give guidance to mitigate wildfires within the Forest of the TRIR.	Fire	All	Yes
	Wildland Fire Management Plan (Draft)	The purpose of the WFMP is to address hazards and mitigation measures related to wildland fires within the boundaries of the TRIR	Fire	All	Yes
	Fire Prevention Plan (Draft)	The purpose of the FPP is to address hazards associated with wildfires, especially pyromaniac incidents and mitigation strategies.	Fire	All	Yes
<b>Policies</b>	Constitution and Bylaws of the Tule River Indian Tribe	This document explains the authorities granted to the Tribal Council. Specific to hazard mitigation, the Council’s ability to address the following topics is discussed: administration of funds or property, the ability to levy taxes and license fees, declaration of ordiances for the purpose of safeguarding the peace and safety of residents and assignments of tribal land	All	All	Yes



**Table Q-10. Tule River Tribe, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

Status (Current, Ongoing, or Completed)	Project / Program Name	Description	Year(s)
Ongoing	WUI Community Hand Lines	Hand Lines are constructed around homes within the community for protection against wildfire activities annually or as funds are available.	Variable
Ongoing	WUI Tractor Lines	Tractor Lines are constructed adjacent to the community for protection against wildfire activities annually or as funds are available.	Variable
Current	Indian Reservation Roads Program	The ARRA Indian Reservation Roads (IRR) Program funded the Tule River Tribe to resurface 5.2 miles of 1" overlay on Route 70 and .5 miles of chip seal on Route 242 of BIA Roads.	2010-2013
Completed	USDA Rural Utility Services – Broadband	Rural Utilities staff to install a fiber-optic network telephone system to all homes on the reservation.	2007-2009

**Table Q-11. Tule River Tribe, 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 of residential and/or non-residential structures in hazard areas, such high and/or very high wildfire areas.	Property Protection	All	New and Existing – Residential and non-residential buildings in hazard areas.
2	Integrate the Tulare County 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	Not applicable.
3	Seismically retrofit or replace public works and/or emergency response facilities that are necessary during and/or immediately after a disaster or emergency.	Property Protection, Structural Project	Earthquake	Existing – Public works and/or emergency response facilities that are structurally deficient or located within a high ground shaking area.
4	Seismically retrofit or replace 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 and/or immediate after a disaster or emergency.	Property Protection, Structural Project	Earthquake	Existing – Ramps and bridges identified by Caltrans as structurally deficient or located within an extreme ground shaking area.
5	Develop a public outreach program that informs property owners located in the dam or levee inundation areas about voluntary flood insurance.	Public Outreach	Flood (Dam and Levee Failure)	Existing – Residential buildings located within dam or levee inundation areas.
6	Create a database that accounts for all levees in Tulare County and their condition.	All	Flood (Levee Failure)	Not applicable.
7	Acquire, relocate, or elevate residential structures, in particular those that have been identified as Repetitive Loss (RL) properties that are located within the 100-year floodplain.	Property Protection	Flood (Riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
8	Acquire, relocate, elevate, and/or floodproof critical facilities that are located within the 100-year floodplain.	Property Protection	Flood (Riverine)	Existing - Critical facilities located within the 100-year floodplain.

**Table Q-11. Tule River Tribe, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
9	Reinforce County and local ramps, bridges, and roads from flooding through protection activities, including elevating the road and installing culverts beneath the road or building a higher bridge across the area that experiences regular flooding.	Property Protection, Structural Project	Flood (Riverine)	Existing – County and local ramps, bridges, and roads identified in the 100-year floodplain.
10	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide Digital Flood Insurance Rate Map (DFIRM), Community Assessment Visits, and/or the Department of Water Resources (DWR).	All	Flood (Riverine)	New/Existing -Properties within the 100-year or 500-year floodplain.
11	Increase participation in the National Flood Insurance Program (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	Flood (Riverine)	New/Existing –County and incorporated communities that have RL properties.
12	Continue to work with weather forecasting and public safety agencies to provide warning and protective information to residents, travelers, and visitors about severe valley fog conditions*.	Prevention	Fog	Not applicable.
13	Implement post-fire debris flow hill-slope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-Fire Debris Flow	Existing – Public works facilities.
14	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	Existing – Critical facilities located in areas that experience severe wind.
15	Develop a free annual tree chipping and tree pick-up day that encourages residents living in wind hazard areas to manage trees and shrubs at risk to falling on nearby structures.	Property Protection	Severe Winter Storm	Existing – Residential buildings that experience severe wind.

**Table Q-11. Tule River Tribe, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
16	Bolt down the roofs of critical facilities in wind gust hazard areas in order to prevent wind damage.	Property Protection	Severe Winter Storm	Existing – Critical facilities located in areas that experience wind gusts.
17	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 high and very high wildfire zones.	Prevention, Property Protection, Natural Resource Protection	Wildfire	Existing – Critical facilities and residential buildings located within high and very high wildfire zones.
18	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 from around their homes.	Property Protection	Wildfire	Existing – Residential buildings in high or very high wildfire zones.
19	Develop a community wildfire mitigation plan that identifies and prioritizes areas for hazard fuel reduction treatments, and recommend the types of methods of treatments.	Prevention, Property Protection	Wildfires	New/ Existing – Residential and non-residential buildings located within high or very high wildfire areas in the Local Responsibility Areas
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 – Residential and non-residential buildings located within high or very high wildfire areas.
21	Reinforce Tribal bridges and roads from flooding through protection activities, including elevating the road and installing culverts beneath the road or building a higher bridge across the area that experiences regular flooding.	Property Protection, Structural Project	Flood (Riverine)	Existing – Tribal bridges, and roads identified in the floodplain.

\* Mitigation action does not meet the 2011 HMA Guidance requirements for FEMA mitigation funding

**Table Q-12. Tule River Tribe, Mitigation Action Plan**

No.	Selected (Y/N)	Description	Prioritization Criteria	Facility to be Mitigated (if known)	Department or Agency	Timeframe to be Implemented
18	Y	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 from around their homes.	A, B, C, D, E	Unknown	Fire	3 years
19	Y	Develop a community wildfire mitigation plan that identifies and prioritizes areas for hazard fuel reduction treatments, and recommend the types of methods of treatments.	A, B, C, D, E	Unknown	Fire	3 years
21	Y	Reinforce Tribal bridges and roads from flooding through protection activities, including elevating the road and installing culverts beneath the road or building a higher bridge across the area that experiences regular flooding.	A, B, C, D, E	Unknown	Public Works	3 years

**Prioritization Criteria**

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|--|---|
| <p>A. A local jurisdiction department or agency champion currently exists or can be identified</p> <p>B. The action can be implemented during the 5-year lifespan of the HMP</p> | <p>C. The action may reduce expected future damages and losses (cost-benefit)</p> <p>D. The action mitigates a high-risk hazard</p> <p>E. The action mitigates multiple hazards</p> |
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