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## Hazus: Earthquake Global Risk Report

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**Region Name:** MonoLake

**Earthquake Scenario:** monolake2011cfmellbg\_m6p7\_se\_fix

**Print Date:** May 07, 2024

**Disclaimer:**

*Totals only reflect data for those census tracts/blocks included in the user's study region.*

*The estimates of social and economic impacts contained in this report were produced using Hazus loss estimation methodology software which is based on current scientific and engineering knowledge. There are uncertainties inherent in any loss estimation technique. Therefore, there may be significant differences between the modeled results contained in this report and the actual social and economic losses following a specific earthquake. These results can be improved by using enhanced inventory, geotechnical, and observed ground motion data.*

## Table of Contents

<b>Section</b>	<b>Page #</b>
<b>General Description of the Region</b>	<b>3</b>
<b>Building and Lifeline Inventory</b>	<b>4</b>
Building Inventory	
Critical Facility Inventory	
Transportation and Utility Lifeline Inventory	
<b>Earthquake Scenario Parameters</b>	<b>7</b>
<b>Direct Earthquake Damage</b>	<b>8</b>
Buildings Damage	
Essential Facilities Damage	
Transportation and Utility Lifeline Damage	
<b>Induced Earthquake Damage</b>	<b>14</b>
Fire Following Earthquake	
Debris Generation	
<b>Social Impact</b>	<b>15</b>
Shelter Requirements	
Casualties	
<b>Economic Loss</b>	<b>17</b>
Building Related Losses	
Transportation and Utility Lifeline Losses	
<b>Appendix A: County Listing for the Region</b>	
<b>Appendix B: Regional Population and Building Value Data</b>	

## General Description of the Region

Hazus-MH is a regional earthquake loss estimation model that was developed by the Federal Emergency Management Agency (FEMA) and the National Institute of Building Sciences. The primary purpose of Hazus is to provide a methodology and software application to develop multi-hazard losses at a regional scale. These loss estimates would be used primarily by local, state and regional officials to plan and stimulate efforts to reduce risks from multi-hazards and to prepare for emergency response and recovery.

The earthquake loss estimates provided in this report was based on a region that includes 13 county(ies) from the following state(s):

California

Note:

Appendix A contains a complete listing of the counties contained in the region.

The geographical size of the region is 34,307.03 square miles and contains 638 census tracts. There are over 931 thousand households in the region which has a total population of 2,786,845 people. The distribution of population by Total Region and County is provided in Appendix B.

There are an estimated 973 thousand buildings in the region with a total building replacement value (excluding contents) of 526,904 (millions of dollars). Approximately 90.00 % of the buildings (and 65.00% of the building value) are associated with residential housing.

The replacement value of the transportation and utility lifeline systems is estimated to be 48,005 and 75,811 (millions of dollars) , respectively.

## Building and Lifeline Inventory

### Building Inventory

Hazus estimates that there are 973 thousand buildings in the region which have an aggregate total replacement value of 526,904 (millions of dollars) . Appendix B provides a general distribution of the building value by Total Region and County.

In terms of building construction types found in the region, wood frame construction makes up 88% of the building inventory. The remaining percentage is distributed between the other general building types.

### Critical Facility Inventory

Hazus breaks critical facilities into two (2) groups: essential facilities and high potential loss facilities (HPL). Essential facilities include hospitals, medical clinics, schools, fire stations, police stations and emergency operations facilities. High potential loss facilities include dams, levees, military installations, nuclear power plants and hazardous material sites.

For essential facilities, there are 54 hospitals in the region with a total bed capacity of 7,266 beds. There are 1,195 schools, 440 fire stations, 101 police stations and 24 emergency operation facilities. With respect to high potential loss facilities (HPL), there are no dams identified within the inventory. The inventory also includes no hazardous material sites, no military installations and no nuclear power plants.

### Transportation and Utility Lifeline Inventory

Within Hazus, the lifeline inventory is divided between transportation and utility lifeline systems. There are seven (7) transportation systems that include highways, railways, light rail, bus, ports, ferry and airports. There are six (6) utility systems that include potable water, wastewater, natural gas, crude & refined oil, electric power and communications. The lifeline inventory data are provided in Tables 1 and 2.

The total value of the lifeline inventory is over 123,816.00 (millions of dollars). This inventory includes over 4,170.02 miles of highways, 3,110 bridges, 87,164.68 miles of pipes.

**Table 1: Transportation System Lifeline Inventory**

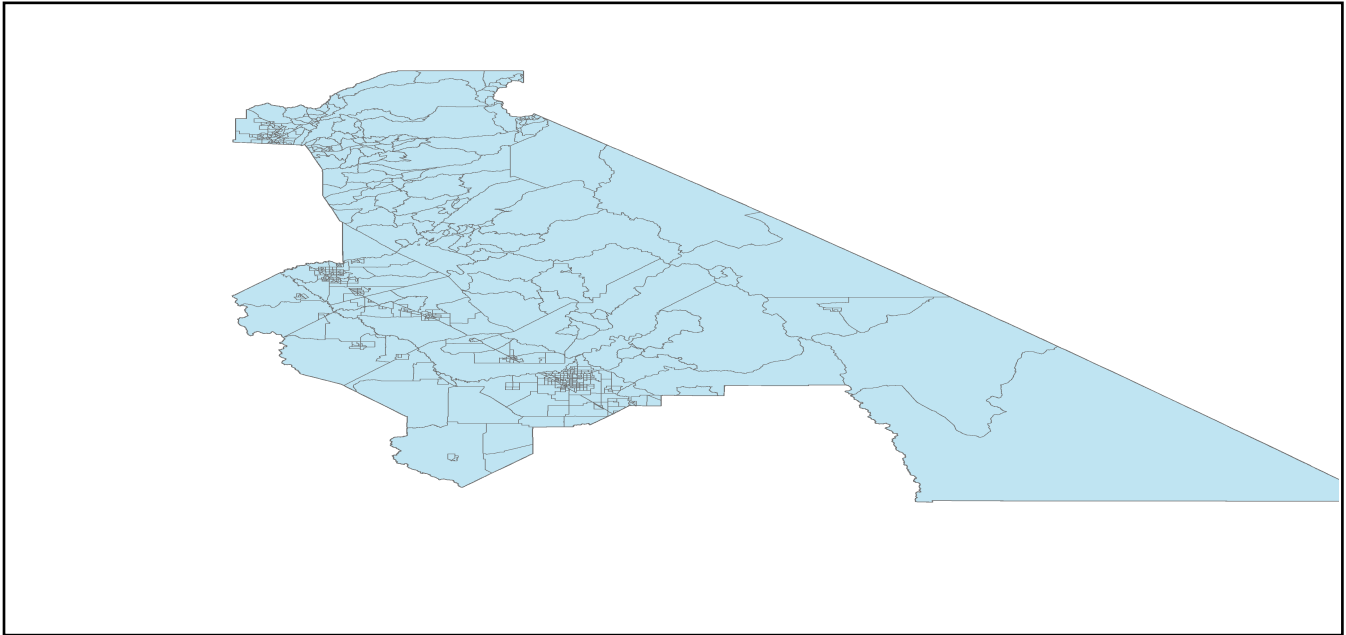
System	Component	# Locations/ # Segments	Replacement value (millions of dollars)
<b>Highway</b>	Bridges	3,110	7836.8183
	Segments	1,308	30463.7902
	Tunnels	8	123.8386
	<b>Subtotal</b>		<b>38424.4471</b>
<b>Railways</b>	Bridges	389	2213.4100
	Facilities	22	58.5860
	Segments	470	6622.6406
	Tunnels	0	0.0000
	<b>Subtotal</b>		<b>8894.6366</b>
<b>Light Rail</b>	Bridges	0	0.0000
	Facilities	0	0.0000
	Segments	0	0.0000
	Tunnels	0	0.0000
	<b>Subtotal</b>		<b>0.0000</b>
<b>Bus</b>	Facilities	15	32.9832
	<b>Subtotal</b>		<b>32.9832</b>
<b>Ferry</b>	Facilities	0	0.0000
	<b>Subtotal</b>		<b>0.0000</b>
<b>Port</b>	Facilities	0	0.0000
	<b>Subtotal</b>		<b>0.0000</b>
<b>Airport</b>	Facilities	47	357.2907
	Runways	51	296.6175
	<b>Subtotal</b>		<b>653.9082</b>
		<b>Total</b>	<b>48,006.00</b>

**Table 2: Utility System Lifeline Inventory**

System	Component	# Locations / Segments	Replacement value (millions of dollars)
<b>Potable Water</b>	Distribution Lines	NA	1743.4981
	Facilities	2	78.5880
	Pipelines	0	0.0000
		<b>Subtotal</b>	<b>1822.0861</b>
<b>Waste Water</b>	Distribution Lines	NA	1046.0988
	Facilities	38	6534.1684
	Pipelines	0	0.0000
		<b>Subtotal</b>	<b>7580.2672</b>
<b>Natural Gas</b>	Distribution Lines	NA	697.3992
	Facilities	1	18.2016
	Pipelines	160	2811.7218
		<b>Subtotal</b>	<b>3527.3226</b>
<b>Oil Systems</b>	Facilities	1	0.1180
	Pipelines	0	0.0000
		<b>Subtotal</b>	<b>0.1180</b>
<b>Electrical Power</b>	Facilities	163	62866.8524
		<b>Subtotal</b>	<b>62866.8524</b>
<b>Communication</b>	Facilities	122	14.3960
		<b>Subtotal</b>	<b>14.3960</b>
	<b>Total</b>		<b>75,811.00</b>

## Earthquake Scenario

Hazus uses the following set of information to define the earthquake parameters used for the earthquake loss estimate provided in this report.



<b>Scenario Name</b>	monolake2011cfmellbg_m6p7_se_fix
<b>Type of Earthquake</b>	User-defined
<b>Fault Name</b>	NA
<b>Historical Epicenter ID #</b>	NA
<b>Probabilistic Return Period</b>	NA
<b>Longitude of Epicenter</b>	NA
<b>Latitude of Epicenter</b>	NA
<b>Earthquake Magnitude</b>	6.70
<b>Depth (km)</b>	NA
<b>Rupture Length (Km)</b>	NA
<b>Rupture Orientation (degrees)</b>	NA
<b>Attenuation Function</b>	NA

## Direct Earthquake Damage

### Building Damage

Hazus estimates that about 57 buildings will be at least moderately damaged. This is over 0.00 % of the buildings in the region. There are an estimated 0 buildings that will be damaged beyond repair. The definition of the 'damage states' is provided in Volume 1: Chapter 5 of the Hazus technical manual. Table 3 below summarizes the expected damage by general occupancy for the buildings in the region. Table 4 below summarizes the expected damage by general building type.

### Damage Categories by General Occupancy Type

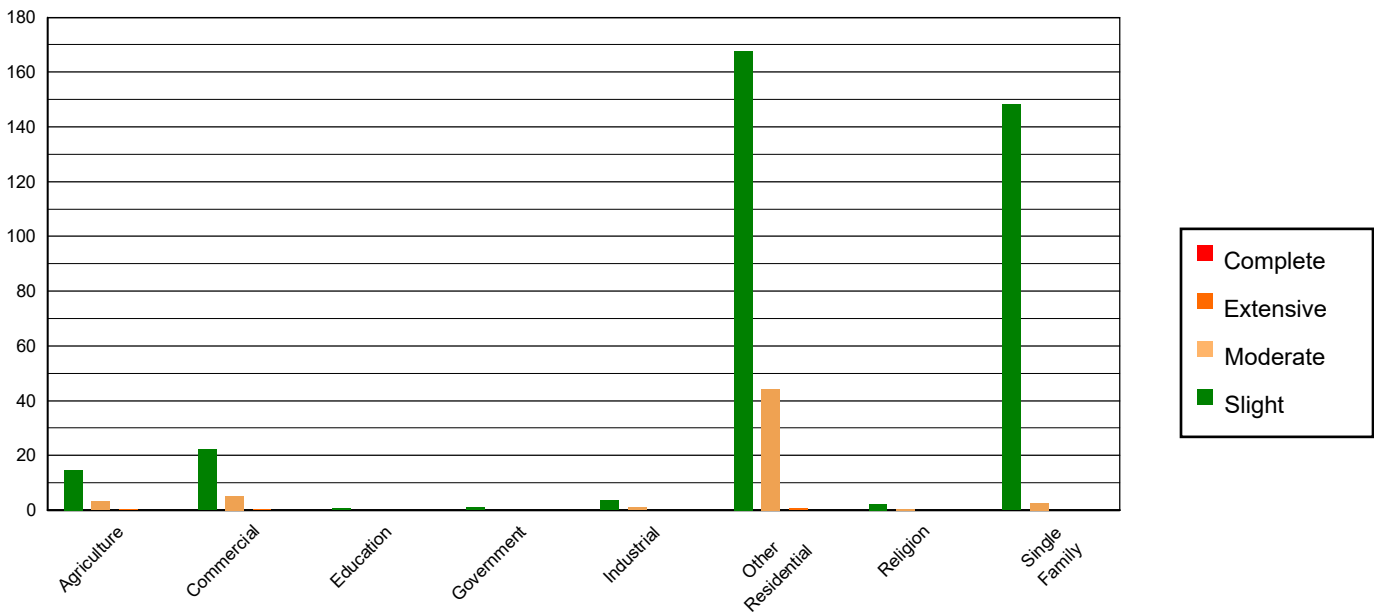


Table 3: Expected Building Damage by Occupancy

	None		Slight		Moderate		Extensive		Complete	
	Count	(%)	Count	(%)	Count	(%)	Count	(%)	Count	(%)
<b>Agriculture</b>	15886.68	1.63	14.74	4.09	3.38	5.95	0.20	16.13	0.00	34.74
<b>Commercial</b>	58829.47	6.04	22.22	6.17	5.12	9.03	0.18	14.61	0.00	24.64
<b>Education</b>	1754.26	0.18	0.64	0.18	0.10	0.18	0.00	0.04	0.00	0.00
<b>Government</b>	2143.98	0.22	0.94	0.26	0.09	0.15	0.00	0.02	0.00	0.00
<b>Industrial</b>	16202.55	1.66	3.58	0.99	0.84	1.48	0.03	2.16	0.00	0.00
<b>Other Residential</b>	117785.23	12.10	167.70	46.53	44.25	77.96	0.82	66.36	0.00	40.61
<b>Religion</b>	3408.18	0.35	2.35	0.65	0.46	0.82	0.01	0.67	0.00	0.00
<b>Single Family</b>	757482.28	77.81	148.20	41.13	2.52	4.43	0.00	0.00	0.00	0.00
<b>Total</b>	<b>973,493</b>		<b>360</b>		<b>57</b>		<b>1</b>		<b>0</b>	

**Table 4: Expected Building Damage by Building Type (All Design Levels)**

	None		Slight		Moderate		Extensive		Complete	
	Count	(%)	Count	(%)	Count	(%)	Count	(%)	Count	(%)
<b>Wood</b>	855610.75	87.89	179.42	49.79	3.18	5.60	0.00	0.01	0.00	0.00
<b>Steel</b>	22260.14	2.29	11.60	3.22	3.38	5.96	0.17	13.42	0.00	10.35
<b>Concrete</b>	21817.91	2.24	11.20	3.11	3.40	5.99	0.17	13.68	0.00	2.15
<b>Precast</b>	15003.62	1.54	9.75	2.71	2.17	3.82	0.02	1.83	0.00	0.00
<b>RM</b>	26628.61	2.74	6.70	1.86	0.97	1.71	0.01	0.42	0.00	0.00
<b>URM</b>	2494.99	0.26	5.61	1.56	2.50	4.40	0.21	16.68	0.00	81.21
<b>MH</b>	29676.61	3.05	136.08	37.76	41.16	72.52	0.66	53.95	0.00	6.28
<b>Total</b>	<b>973,493</b>		<b>360</b>		<b>57</b>		<b>1</b>		<b>0</b>	

\*Note:

- RM      Reinforced Masonry
- URM    Unreinforced Masonry
- MH      Manufactured Housing

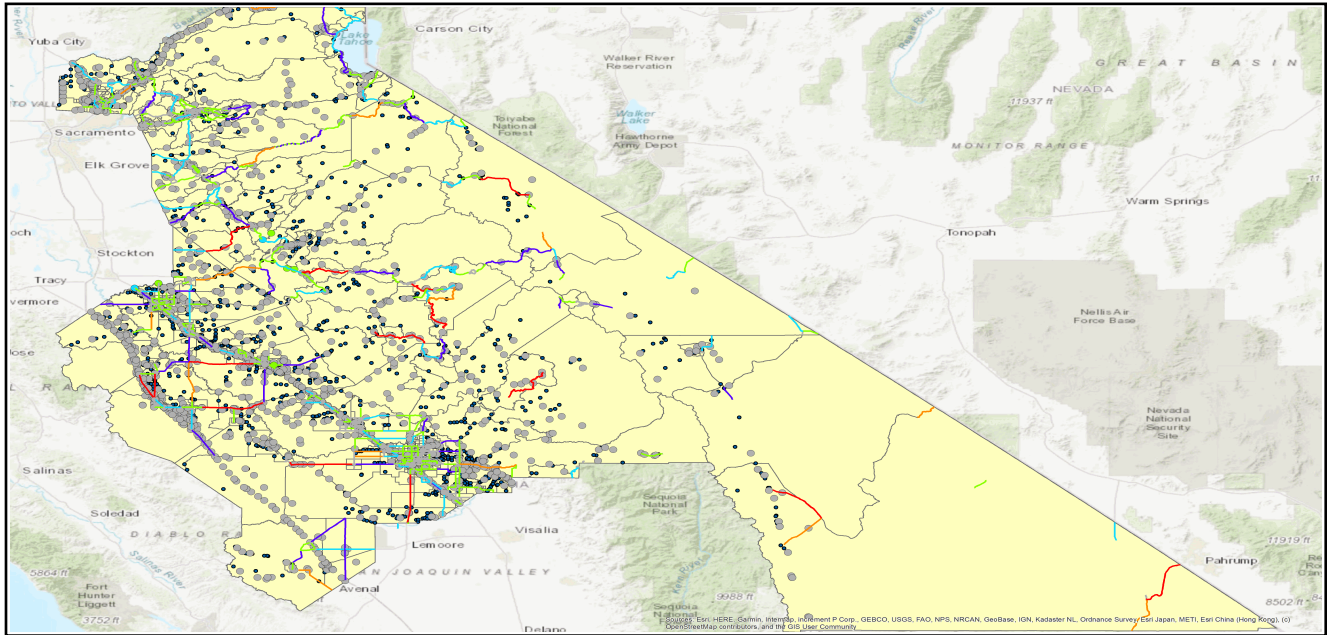
## Essential Facility Damage

Before the earthquake, the region had 7,266 hospital beds available for use. On the day of the earthquake, the model estimates that only 7,263 hospital beds (100.00%) are available for use by patients already in the hospital and those injured by the earthquake. After one week, 100.00% of the beds will be back in service. By 30 days, 100.00% will be operational.

**Table 5: Expected Damage to Essential Facilities**

Classification	Total	# Facilities		
		At Least Moderate Damage > 50%	Complete Damage > 50%	With Functionality > 50% on day 1
Hospitals	54	0	0	54
Schools	1,195	0	0	1,192
EOCs	24	0	0	24
PoliceStations	101	0	0	101
FireStations	440	0	0	437

## Transportation Lifeline Damage



**Table 6: Expected Damage to the Transportation Systems**

System	Component	Number of Locations_				
		Locations/ Segments	With at Least Mod. Damage	With Complete Damage	With Functionality > 50 %	
					After Day 1	After Day 7
Highway	Segments	1,308	0	0	1,308	1,308
	Bridges	3,110	0	0	3,110	3,110
	Tunnels	8	0	0	8	8
Railways	Segments	470	0	0	470	470
	Bridges	389	0	0	389	389
	Tunnels	0	0	0	0	0
	Facilities	22	0	0	22	22
Light Rail	Segments	0	0	0	0	0
	Bridges	0	0	0	0	0
	Tunnels	0	0	0	0	0
	Facilities	0	0	0	0	0
Bus	Facilities	15	1	0	15	15
Ferry	Facilities	0	0	0	0	0
Port	Facilities	0	0	0	0	0
Airport	Facilities	47	1	0	47	47
	Runways	51	0	0	51	51

Table 6 provides damage estimates for the transportation system.

Note: Roadway segments, railroad tracks and light rail tracks are assumed to be damaged by ground failure only. If ground failure maps are not provided, damage estimates to these components will not be computed.

Tables 7-9 provide information on the damage to the utility lifeline systems. Table 7 provides damage to the utility system facilities. Table 8 provides estimates on the number of leaks and breaks by the pipelines of the utility systems. For electric power and potable water, Hazus performs a simplified system performance analysis. Table 9 provides a summary of the system performance information.

**Table 7 : Expected Utility System Facility Damage**

System	# of Locations				
	Total #	With at Least Moderate Damage	With Complete Damage	with Functionality > 50 %	
				After Day 1	After Day 7
Potable Water	2	0	0	2	2
Waste Water	38	0	0	38	38
Natural Gas	1	0	0	1	1
Oil Systems	1	0	0	1	1
Electrical Power	163	2	0	162	162
Communication	122	0	0	122	122

**Table 8 : Expected Utility System Pipeline Damage (Site Specific)**

System	Total Pipelines Length (miles)	Number of Leaks	Number of Breaks
Potable Water	54,168	99	25
Waste Water	32,501	50	12
Natural Gas	496	0	0
Oil	0	0	0

**Table 9: Expected Potable Water and Electric Power System Performance**

	Total # of Households	Number of Households without Service				
		At Day 1	At Day 3	At Day 7	At Day 30	At Day 90
Potable Water	931,095	0	0	0	0	0
Electric Power		0	0	0	0	0

## Induced Earthquake Damage

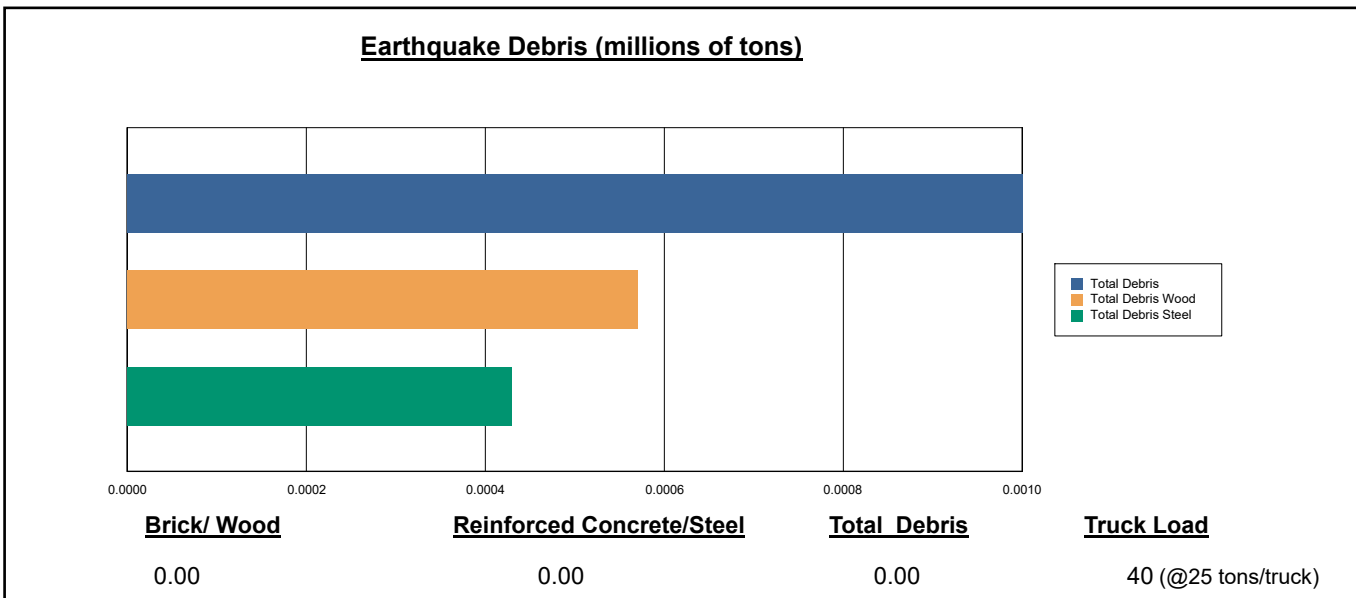
### Fire Following Earthquake

Fires often occur after an earthquake. Because of the number of fires and the lack of water to fight the fires, they can often burn out of control. Hazus uses a Monte Carlo simulation model to estimate the number of ignitions and the amount of burnt area. For this scenario, the model estimates that there will be 0 ignitions that will burn about 0.00 sq. mi (0.00 % of the region's total area.) The model also estimates that the fires will displace about 0 people and burn about 0 (millions of dollars) of building value.

### Debris Generation

Hazus estimates the amount of debris that will be generated by the earthquake. The model breaks the debris into two general categories: a) Brick/Wood and b) Reinforced Concrete/Steel. This distinction is made because of the different types of material handling equipment required to handle the debris.

The model estimates that a total of 1,000 tons of debris will be generated. Of the total amount, Brick/Wood comprises 57.00% of the total, with the remainder being Reinforced Concrete/Steel. If the debris tonnage is converted to an estimated number of truckloads, it will require 40 truckloads (@25 tons/truck) to remove the debris generated by the earthquake.



## Social Impact

### Shelter Requirement

Hazus estimates the number of households that are expected to be displaced from their homes due to the earthquake and the number of displaced people that will require accommodations in temporary public shelters. The model estimates 0 households to be displaced due to the earthquake. Of these, 0 people (out of a total population of 2,786,845) will seek temporary shelter in public shelters.

#### Displaced Households/ Persons Seeking Short Term Public Shelter

Displaced households  
as a result of the  
earthquake

0

Persons seeking  
temporary public shelter

0

### Casualties

Hazus estimates the number of people that will be injured and killed by the earthquake. The casualties are broken down into four (4) severity levels that describe the extent of the injuries. The levels are described as follows;

- Severity Level 1: Injuries will require medical attention but hospitalization is not needed.
- Severity Level 2: Injuries will require hospitalization but are not considered life-threatening
- Severity Level 3: Injuries will require hospitalization and can become life threatening if not promptly treated.
- Severity Level 4: Victims are killed by the earthquake.

The casualty estimates are provided for three (3) times of day: 2:00 AM, 2:00 PM and 5:00 PM. These times represent the periods of the day that different sectors of the community are at their peak occupancy loads. The 2:00 AM estimate considers that the residential occupancy load is maximum, the 2:00 PM estimate considers that the educational, commercial and industrial sector loads are maximum and 5:00 PM represents peak commute time.

Table 10 provides a summary of the casualties estimated for this earthquake

**Table 10: Casualty Estimates**

		Level 1	Level 2	Level 3	Level 4
<b>2 AM</b>	Commercial	0.01	0.00	0.00	0.00
	Commuting	0.00	0.00	0.00	0.00
	Educational	0.00	0.00	0.00	0.00
	Hotels	0.00	0.00	0.00	0.00
	Industrial	0.00	0.00	0.00	0.00
	Other-Residential	0.39	0.03	0.00	0.00
	Single Family	0.11	0.00	0.00	0.00
	<b>Total</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>2 PM</b>	Commercial	0.39	0.03	0.00
Commuting		0.00	0.00	0.00	0.00
Educational		0.05	0.00	0.00	0.00
Hotels		0.00	0.00	0.00	0.00
Industrial		0.03	0.00	0.00	0.00
Other-Residential		0.14	0.01	0.00	0.00
Single Family		0.04	0.00	0.00	0.00
<b>Total</b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>5 PM</b>		Commercial	0.25	0.02	0.00
	Commuting	0.00	0.01	0.01	0.00
	Educational	0.00	0.00	0.00	0.00
	Hotels	0.00	0.00	0.00	0.00
	Industrial	0.02	0.00	0.00	0.00
	Other-Residential	0.14	0.01	0.00	0.00
	Single Family	0.04	0.00	0.00	0.00
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

## Economic Loss

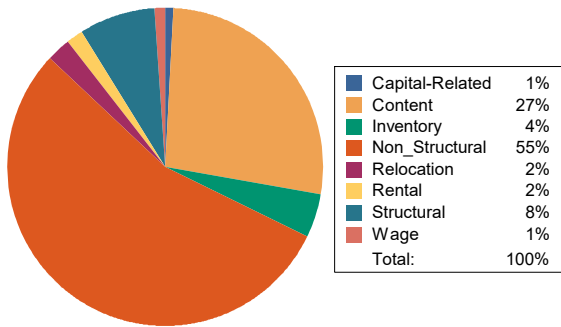
The total economic loss estimated for the earthquake is 150.81 (millions of dollars), which includes building and lifeline related losses based on the region's available inventory. The following three sections provide more detailed information about these losses.

## Building-Related Losses

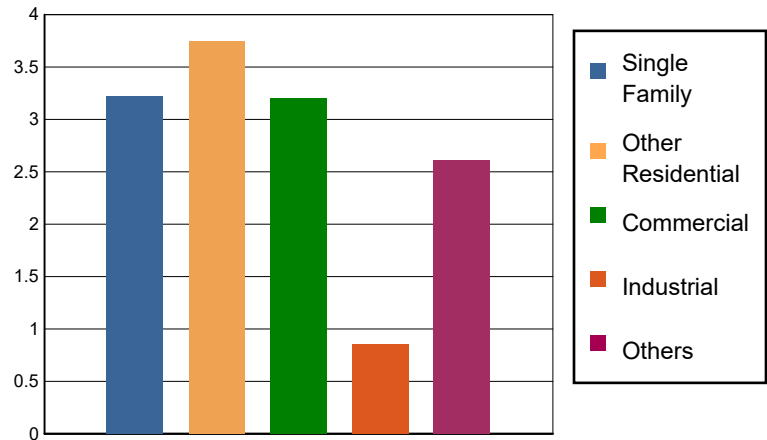
The building losses are broken into two categories: direct building losses and business interruption losses. The direct building losses are the estimated costs to repair or replace the damage caused to the building and its contents. The business interruption losses are the losses associated with inability to operate a business because of the damage sustained during the earthquake. Business interruption losses also include the temporary living expenses for those people displaced from their homes because of the earthquake.

The total building-related losses were 13.62 (millions of dollars); 6 % of the estimated losses were related to the business interruption of the region. By far, the largest loss was sustained by the residential occupancies which made up over 51 % of the total loss. Table 11 below provides a summary of the losses associated with the building damage.

Earthquake Losses by Loss Type (\$ millions)



Earthquake Losses by Occupancy Type (\$ millions)



**Table 11: Building-Related Economic Loss Estimates**  
(Millions of dollars)

Category	Area	Single Family	Other Residential	Commercial	Industrial	Others	Total
<b>Income Losses</b>							
	Wage	0.0000	0.0301	0.0870	0.0037	0.0197	0.1405
	Capital-Related	0.0000	0.0128	0.1010	0.0020	0.0052	0.1210
	Rental	0.0126	0.1244	0.0953	0.0022	0.0044	0.2389
	Relocation	0.0152	0.1296	0.0987	0.0170	0.0562	0.3167
	<b>Subtotal</b>	<b>0.0278</b>	<b>0.2969</b>	<b>0.3820</b>	<b>0.0249</b>	<b>0.0855</b>	<b>0.8171</b>
<b>Capital Stock Losses</b>							
	Structural	0.2163	0.3142	0.1832	0.0460	0.3036	1.0633
	Non_Structural	2.0535	2.4079	1.4938	0.4432	1.0665	7.4649
	Content	0.9209	0.7240	0.9758	0.2937	0.7475	3.6619
	Inventory	0.0000	0.0000	0.1631	0.0433	0.4042	0.6106
	<b>Subtotal</b>	<b>3.1907</b>	<b>3.4461</b>	<b>2.8159</b>	<b>0.8262</b>	<b>2.5218</b>	<b>12.8007</b>
	<b>Total</b>	<b>3.22</b>	<b>3.74</b>	<b>3.20</b>	<b>0.85</b>	<b>2.61</b>	<b>13.62</b>

## Transportation and Utility Lifeline Losses

For the transportation and utility lifeline systems, Hazus computes the direct repair cost for each component only. There are no losses computed by Hazus for business interruption due to lifeline outages. Tables 12 & 13 provide a detailed breakdown in the expected lifeline losses.

**Table 12: Transportation System Economic Losses**  
(Millions of dollars)

System	Component	Inventory Value	Economic Loss	Loss Ratio (%)
Highway	Segments	30463.7902	0.0000	0.00
	Bridges	7836.8183	0.1985	0.00
	Tunnels	123.8386	0.0001	0.00
	<b>Subtotal</b>	<b>38424.4471</b>	<b>0.1986</b>	
Railways	Segments	6622.6406	0.0000	0.00
	Bridges	2213.4100	0.0000	0.00
	Tunnels	0.0000	0.0000	0.00
	Facilities	58.5860	0.0085	0.01
	<b>Subtotal</b>	<b>8894.6366</b>	<b>0.0085</b>	
Light Rail	Segments	0.0000	0.0000	0.00
	Bridges	0.0000	0.0000	0.00
	Tunnels	0.0000	0.0000	0.00
	Facilities	0.0000	0.0000	0.00
	<b>Subtotal</b>	<b>0.0000</b>	<b>0.0000</b>	
Bus	Facilities	32.9832	0.9919	3.01
	<b>Subtotal</b>	<b>32.9832</b>	<b>0.9919</b>	
Ferry	Facilities	0.0000	0.0000	0.00
	<b>Subtotal</b>	<b>0.0000</b>	<b>0.0000</b>	
Port	Facilities	0.0000	0.0000	0.00
	<b>Subtotal</b>	<b>0.0000</b>	<b>0.0000</b>	
Airport	Facilities	357.2907	3.9305	1.10
	Runways	296.6175	0.0000	0.00
	<b>Subtotal</b>	<b>653.9082</b>	<b>3.9305</b>	
<b>Total</b>		<b>48,005.98</b>	<b>5.13</b>	

**Table 13: Utility System Economic Losses**

(Millions of dollars)

System	Component	Inventory Value	Economic Loss	Loss Ratio (%)
Potable Water	Pipelines	0.0000	0.0000	0.00
	Facilities	78.5880	0.0000	0.00
	Distribution Lines	1743.4981	0.4448	0.03
	<b>Subtotal</b>	<b>1822.0861</b>	<b>0.4448</b>	
Waste Water	Pipelines	0.0000	0.0000	0.00
	Facilities	6534.1684	0.6328	0.01
	Distribution Lines	1046.0988	0.2234	0.02
	<b>Subtotal</b>	<b>7580.2672</b>	<b>0.8562</b>	
Natural Gas	Pipelines	2811.7218	0.0000	0.00
	Facilities	18.2016	0.0000	0.00
	Distribution Lines	697.3992	0.0765	0.01
	<b>Subtotal</b>	<b>3527.3226</b>	<b>0.0765</b>	
Oil Systems	Pipelines	0.0000	0.0000	0.00
	Facilities	0.1180	0.0000	0.00
	<b>Subtotal</b>	<b>0.1180</b>	<b>0.0000</b>	
Electrical Power	Facilities	62866.8524	130.6758	0.21
	<b>Subtotal</b>	<b>62866.8524</b>	<b>130.6758</b>	
Communication	Facilities	14.3960	0.0037	0.03
	<b>Subtotal</b>	<b>14.3960</b>	<b>0.0037</b>	
	<b>Total</b>	<b>75,811.04</b>	<b>132.06</b>	

---

## Appendix A: County Listing for the Region

Alpine,CA

Amador,CA

Calaveras,CA

El Dorado,CA

Fresno,CA

Inyo,CA

Madera,CA

Mariposa,CA

Merced,CA

Mono,CA

Placer,CA

Stanislaus,CA

Tuolumne,CA

## Appendix B: Regional Population and Building Value Data

State	County Name	Population	Building Value (millions of dollars)		
			Residential	Non-Residential	Total
California	Alpine	1,204	721	139	861
	Amador	40,474	5,608	2,517	8,125
	Calaveras	45,292	8,305	4,893	13,199
	El Dorado	191,185	34,907	9,704	44,611
	Fresno	1,008,654	98,532	61,772	160,304
	Inyo	19,016	2,951	1,970	4,921
	Madera	156,255	18,025	9,641	27,667
	Mariposa	17,131	3,299	1,141	4,441
	Merced	281,202	25,194	26,098	51,292
	Mono	13,195	3,293	1,083	4,377
	Placer	404,739	69,985	24,193	94,179
	Stanislaus	552,878	62,937	37,511	100,449
	Tuolumne	55,620	8,964	3,507	12,471
<b>Total Region</b>		<b>2,786,845</b>	<b>342,721</b>	<b>184,169</b>	<b>526,897</b>

**Building Inspection Tagging (Counts)**

**Total Economic Loss**
**Total:**

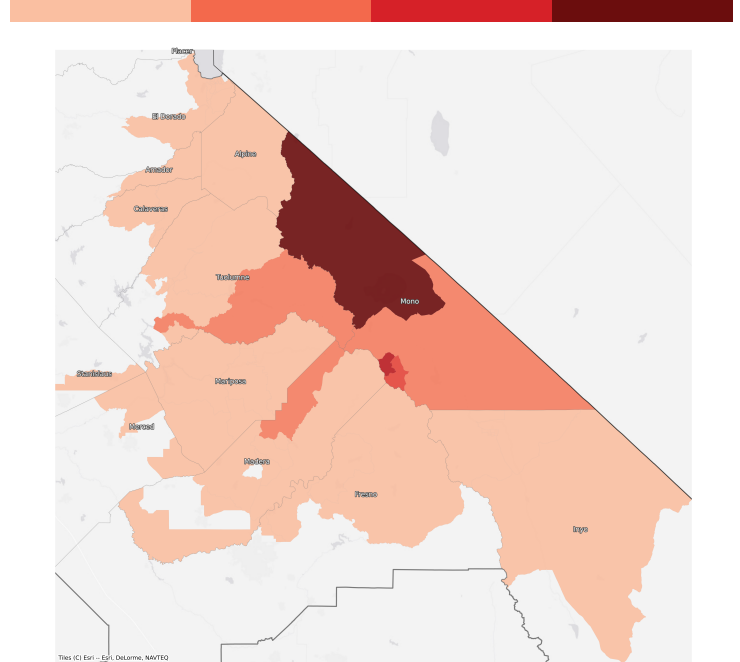
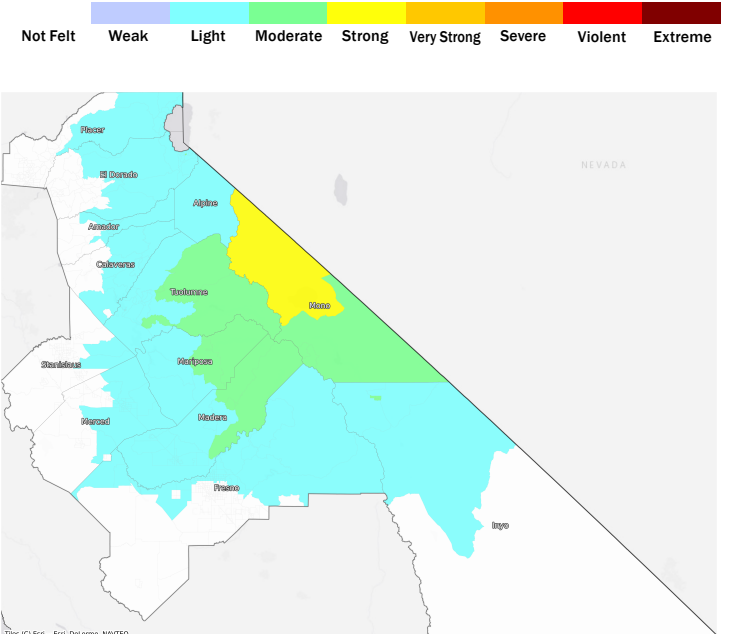
Top Counties	State	Total

**Injuries & Fatalities**
**Total Day:  
Total Night:**

Top Counties	State	Injuries (day/night)	Fatalities (day/night)

**Displaced Households & Short-Term Shelter Needs**
**Total Displaced:  
Total Needing Shelter:**

Top Counties	State	Displaced	Needing Shelter

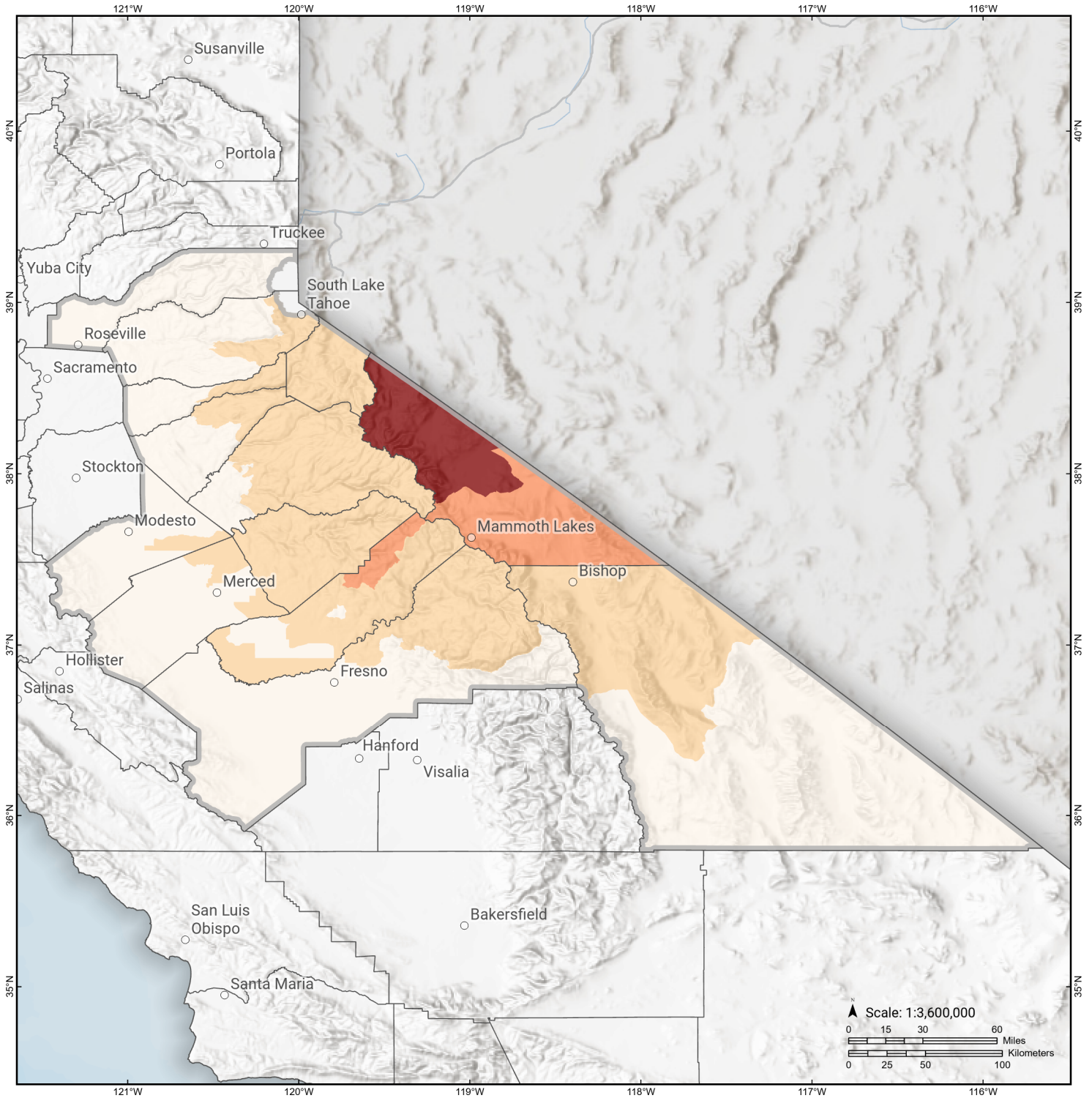
**Economic Impacts by Census Tract**

**Ground Shaking**

**Debris**
**Total Tons:  
Total Truckloads:**

Type	Tons

The estimates of social and economic impacts contained in this report were produced using Hazus loss estimation methodology software which is based on current scientific and engineering knowledge. There are uncertainties inherent in any loss estimation technique. Therefore, there may be significant differences between the modeled results contained in this report and the actual social and economic losses following a specific earthquake.

# Mono Lake

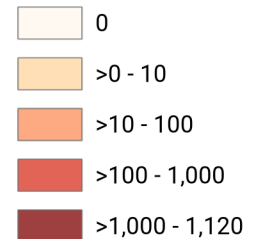
## Debris Generated by Census Tract



**Study Region:** Mono Lake  
**Scenario:** monolake2011cfmellbg\_m6p7\_se



**Debris Generated (in tons)**



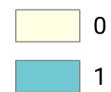
# Mono Lake

## Displaced Households by Census Tract



**Study Region:** Mono Lake  
**Scenario:** monolake2011cfmellbg\_m6p7\_se

**Displaced Households**



# Mono Lake

## Loss Ratio by Census Tract



**Study Region:** Mono Lake  
**Scenario:** monolake2011cfmellbg\_m6p7\_se

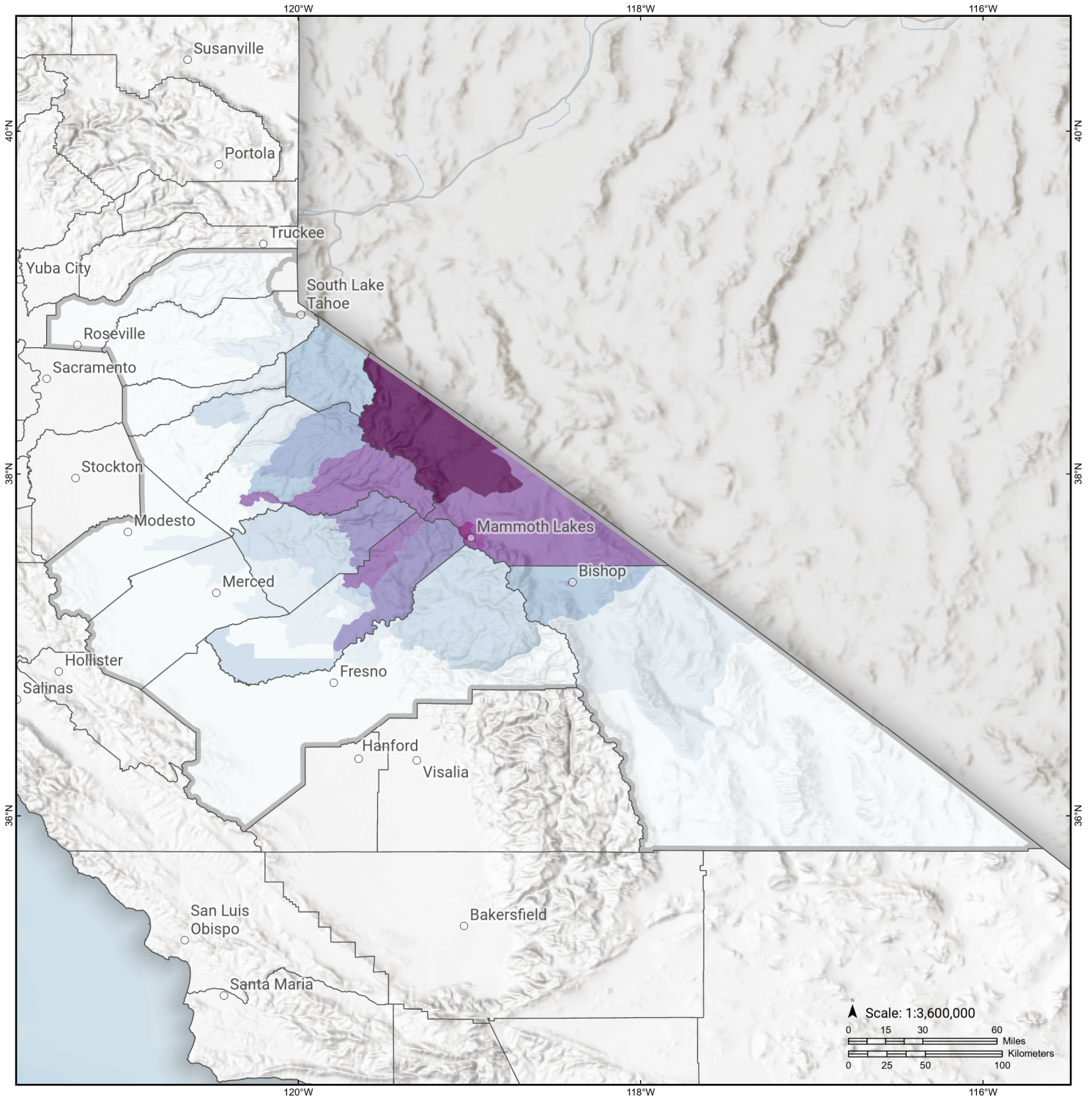
**Loss Ratio** (ratio of building related economic loss to exposed value of buildings)

- 0%
- >0 - 2%



# Mono Lake

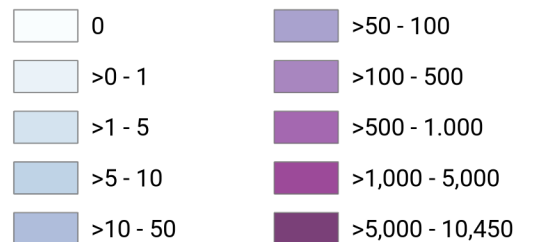
## Total Building Related Economic Loss by Census Tract



**Study Region:** Mono Lake  
**Scenario:** monolake2011cfmellbg\_m6p7\_se



### Economic Loss (in thousands of USD \$)



## Building Damage by Count by General Occupancy

May 07, 2024

	# of Buildings					Total
	None	Slight	Moderate	Extensive	Complete	
<b>California</b>						
<b>Alpine</b>						
<i>Agriculture</i>	0	0	0	0	0	0
<i>Commercial</i>	48	0	0	0	0	48
<i>Education</i>	5	0	0	0	0	5
<i>Government</i>	4	0	0	0	0	4
<i>Industrial</i>	14	0	0	0	0	14
<i>Religion</i>	1	0	0	0	0	1
<i>Other Residential</i>	97	0	0	0	0	97
<i>Single Family</i>	842	0	0	0	0	842
<b>Amador</b>						
<i>Agriculture</i>	44	0	0	0	0	44
<i>Commercial</i>	1,368	0	0	0	0	1,368
<i>Education</i>	23	0	0	0	0	23
<i>Government</i>	32	0	0	0	0	32
<i>Industrial</i>	235	0	0	0	0	235
<i>Religion</i>	45	0	0	0	0	45
<i>Other Residential</i>	1,037	0	0	0	0	1,037
<i>Single Family</i>	14,962	0	0	0	0	14,962
<b>Calaveras</b>						

	# of Buildings					Total
	None	Slight	Moderate	Extensive	Complete	
<i>Agriculture</i>	2,207	0	0	0	0	2,207
<i>Commercial</i>	1,413	0	0	0	0	1,413
<i>Education</i>	35	0	0	0	0	35
<i>Government</i>	84	0	0	0	0	84
<i>Industrial</i>	466	0	0	0	0	466
<i>Religion</i>	130	0	0	0	0	130
<i>Other Residential</i>	2,559	0	0	0	0	2,559
<i>Single Family</i>	22,148	0	0	0	0	22,148
<b>El Dorado</b>						
<i>Agriculture</i>	161	0	0	0	0	161
<i>Commercial</i>	4,768	0	0	0	0	4,768
<i>Education</i>	128	0	0	0	0	128
<i>Government</i>	100	0	0	0	0	100
<i>Industrial</i>	1,199	0	0	0	0	1,199
<i>Religion</i>	180	0	0	0	0	180
<i>Other Residential</i>	10,420	0	0	0	0	10,420
<i>Single Family</i>	71,424	0	0	0	0	71,424
<b>Fresno</b>						
<i>Agriculture</i>	3,421	0	0	0	0	3,421
<i>Commercial</i>	21,054	0	0	0	0	21,054
<i>Education</i>	602	0	0	0	0	602
<i>Government</i>	291	0	0	0	0	291
<i>Industrial</i>	5,348	0	0	0	0	5,348
<i>Religion</i>	1,507	0	0	0	0	1,507
<i>Other Residential</i>	40,973	0	0	0	0	40,973

		# of Buildings					
		None	Slight	Moderate	Extensive	Complete	Total
<b>Inyo</b>	<i>Single Family</i>	226,425	0	0	0	0	226,425
	<i>Agriculture</i>	32	0	0	0	0	32
	<i>Commercial</i>	721	0	0	0	0	721
	<i>Education</i>	41	0	0	0	0	41
	<i>Government</i>	101	0	0	0	0	101
	<i>Industrial</i>	257	0	0	0	0	257
	<i>Religion</i>	57	0	0	0	0	57
	<i>Other Residential</i>	4,049	1	0	0	0	4,050
	<i>Single Family</i>	4,446	0	0	0	0	4,446
<b>Madera</b>	<i>Agriculture</i>	634	0	0	0	0	634
	<i>Commercial</i>	2,905	0	0	0	0	2,905
	<i>Education</i>	115	0	0	0	0	115
	<i>Government</i>	111	0	0	0	0	111
	<i>Industrial</i>	903	0	0	0	0	903
	<i>Religion</i>	119	0	0	0	0	119
	<i>Other Residential</i>	6,634	1	0	0	0	6,635
	<i>Single Family</i>	38,912	0	0	0	0	38,912
	<b>Mariposa</b>	<i>Agriculture</i>	29	0	0	0	0
<i>Commercial</i>		689	0	0	0	0	689
<i>Education</i>		27	0	0	0	0	27
<i>Government</i>		33	0	0	0	0	33
<i>Industrial</i>		94	0	0	0	0	94

	# of Buildings					Total
	None	Slight	Moderate	Extensive	Complete	
<i>Religion</i>	36	0	0	0	0	36
<i>Other Residential</i>	307	0	0	0	0	307
<i>Single Family</i>	8,084	0	0	0	0	8,084
<b>Merced</b>						
<i>Agriculture</i>	7,653	0	0	0	0	7,653
<i>Commercial</i>	4,754	0	0	0	0	4,754
<i>Education</i>	163	0	0	0	0	163
<i>Government</i>	171	0	0	0	0	171
<i>Industrial</i>	1,022	0	0	0	0	1,022
<i>Religion</i>	345	0	0	0	0	345
<i>Other Residential</i>	10,787	0	0	0	0	10,787
<i>Single Family</i>	63,598	0	0	0	0	63,598
<b>Mono</b>						
<i>Agriculture</i>	127	15	3	0	0	145
<i>Commercial</i>	627	22	5	0	0	654
<i>Education</i>	20	1	0	0	0	21
<i>Government</i>	17	1	0	0	0	18
<i>Industrial</i>	104	3	1	0	0	108
<i>Religion</i>	29	2	0	0	0	32
<i>Other Residential</i>	1,550	164	44	1	0	1,759
<i>Single Family</i>	7,555	147	3	0	0	7,704
<b>Placer</b>						
<i>Agriculture</i>	258	0	0	0	0	258
<i>Commercial</i>	8,538	0	0	0	0	8,538
<i>Education</i>	231	0	0	0	0	231

	# of Buildings					Total
	None	Slight	Moderate	Extensive	Complete	
<i>Government</i>	377	0	0	0	0	377
<i>Industrial</i>	2,703	0	0	0	0	2,703
<i>Religion</i>	382	0	0	0	0	382
<i>Other Residential</i>	14,843	0	0	0	0	14,843
<i>Single Family</i>	134,719	0	0	0	0	134,719
<b>Stanislaus</b>						
<i>Agriculture</i>	1,239	0	0	0	0	1,239
<i>Commercial</i>	10,369	0	0	0	0	10,369
<i>Education</i>	307	0	0	0	0	307
<i>Government</i>	680	0	0	0	0	680
<i>Industrial</i>	3,475	0	0	0	0	3,475
<i>Religion</i>	456	0	0	0	0	456
<i>Other Residential</i>	19,569	0	0	0	0	19,569
<i>Single Family</i>	142,724	0	0	0	0	142,724
<b>Tuolumne</b>						
<i>Agriculture</i>	82	0	0	0	0	82
<i>Commercial</i>	1,576	0	0	0	0	1,576
<i>Education</i>	57	0	0	0	0	57
<i>Government</i>	143	0	0	0	0	143
<i>Industrial</i>	383	0	0	0	0	383
<i>Religion</i>	121	0	0	0	0	121
<i>Other Residential</i>	4,961	1	0	0	0	4,962
<i>Single Family</i>	21,644	1	0	0	0	21,645
<b>Total</b>	<b>973,493</b>	<b>360</b>	<b>57</b>	<b>1</b>	<b>0</b>	<b>973,911</b>

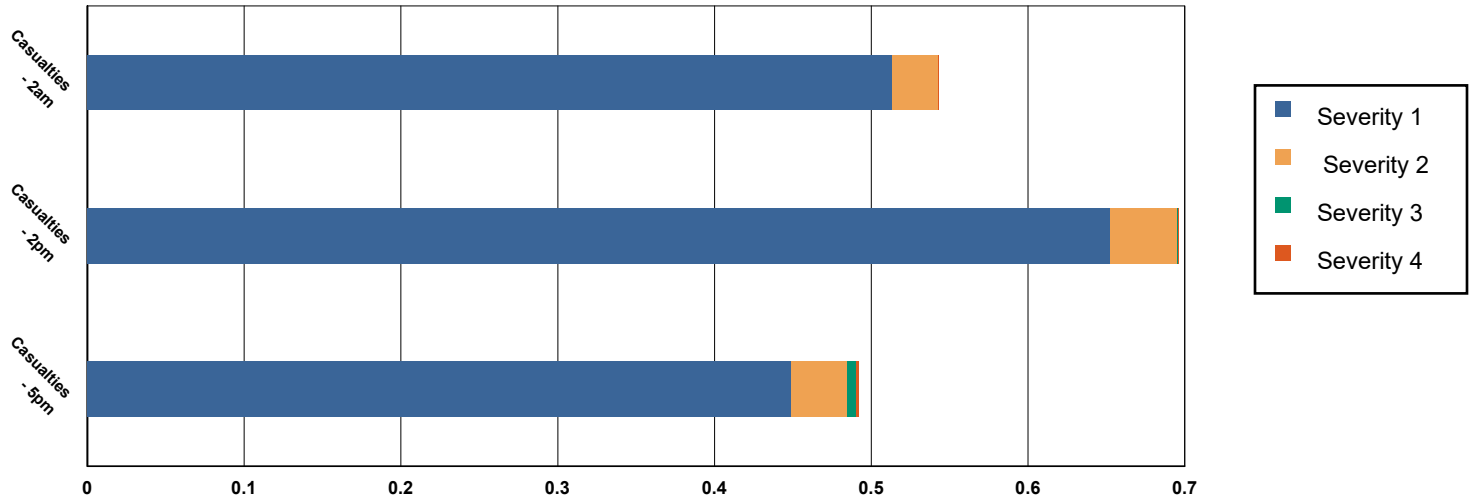
	# of Buildings					Total
	None	Slight	Moderate	Extensive	Complete	
<b>Region Total</b>	<b>973,493</b>	<b>360</b>	<b>57</b>	<b>1</b>	<b>0</b>	<b>973,911</b>

*Totals only reflect data for those census tracts/blocks included in the user's study region and will reflect the entire county/state only if all of the census blocks for that county/states were selected at the time of study region creation.*

### Casualties Summary Report

May 07, 2024

### Region Total Casualties



### Injury Severity Level

Severity 1	Severity 2	Severity 3	Severity 4	Total
------------	------------	------------	------------	-------

#### California

##### Alpine

##### Casualties - 2am

	Severity 1	Severity 2	Severity 3	Severity 4	Total
Commuting	0	0	0	0	0
Commercial	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	0	0	0	0	0
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0

##### Total Casualties - 2am

0	0	0	0	0
---	---	---	---	---

##### Casualties - 2pm

	Severity 1	Severity 2	Severity 3	Severity 4	Total
Commuting	0	0	0	0	0
Commercial	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	0	0	0	0	0
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0

	Injury Severity Level				Total
	Severity 1	Severity 2	Severity 3	Severity 4	
<b>California</b>					
<b>Alpine</b>					
<b>Total Casualties - 2pm</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Casualties - 5pm</b>					
<i>Commuting</i>	0	0	0	0	0
<i>Commercial</i>	0	0	0	0	0
<i>Educational</i>	0	0	0	0	0
<i>Hotels</i>	0	0	0	0	0
<i>Industrial</i>	0	0	0	0	0
<i>Other-Residential</i>	0	0	0	0	0
<i>Single Family</i>	0	0	0	0	0
<b>Total Casualties - 5pm</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Amador</b>					
<b>Casualties - 2am</b>					
<i>Commuting</i>	0	0	0	0	0
<i>Commercial</i>	0	0	0	0	0
<i>Educational</i>	0	0	0	0	0
<i>Hotels</i>	0	0	0	0	0
<i>Industrial</i>	0	0	0	0	0
<i>Other-Residential</i>	0	0	0	0	0
<i>Single Family</i>	0	0	0	0	0
<b>Total Casualties - 2am</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Casualties - 2pm</b>					
<i>Commuting</i>	0	0	0	0	0
<i>Commercial</i>	0	0	0	0	0
<i>Educational</i>	0	0	0	0	0
<i>Hotels</i>	0	0	0	0	0
<i>Industrial</i>	0	0	0	0	0
<i>Other-Residential</i>	0	0	0	0	0
<i>Single Family</i>	0	0	0	0	0
<b>Total Casualties - 2pm</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Casualties - 5pm</b>					
<i>Commuting</i>	0	0	0	0	0
<i>Commercial</i>	0	0	0	0	0
<i>Educational</i>	0	0	0	0	0
<i>Hotels</i>	0	0	0	0	0
<i>Industrial</i>	0	0	0	0	0
<i>Other-Residential</i>	0	0	0	0	0
<i>Single Family</i>	0	0	0	0	0
<b>Total Casualties - 5pm</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Calaveras</b>					
<b>Casualties - 2am</b>					
<i>Commuting</i>	0	0	0	0	0

	Injury Severity Level				Total
	Severity 1	Severity 2	Severity 3	Severity 4	
<b>California</b>					
<b>Calaveras</b>					
<b>Casualties - 2am</b>					
Commercial	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	0	0	0	0	0
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0
<b>Total Casualties - 2am</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Casualties - 2pm</b>					
Commuting	0	0	0	0	0
Commercial	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	0	0	0	0	0
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0
<b>Total Casualties - 2pm</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Casualties - 5pm</b>					
Commuting	0	0	0	0	0
Commercial	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	0	0	0	0	0
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0
<b>Total Casualties - 5pm</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>El Dorado</b>					
<b>Casualties - 2am</b>					
Commuting	0	0	0	0	0
Commercial	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	0	0	0	0	0
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0
<b>Total Casualties - 2am</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Casualties - 2pm</b>					
Commuting	0	0	0	0	0
Commercial	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	0	0	0	0	0

	Injury Severity Level				Total
	Severity 1	Severity 2	Severity 3	Severity 4	
<b>California</b>					
<b>El Dorado</b>					
<b>Casualties - 2pm</b>					
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0
<b>Total Casualties - 2pm</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Casualties - 5pm</b>					
Commuting	0	0	0	0	0
Commercial	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	0	0	0	0	0
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0
<b>Total Casualties - 5pm</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Fresno</b>					
<b>Casualties - 2am</b>					
Commuting	0	0	0	0	0
Commercial	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	0	0	0	0	0
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0
<b>Total Casualties - 2am</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Casualties - 2pm</b>					
Commuting	0	0	0	0	0
Commercial	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	0	0	0	0	0
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0
<b>Total Casualties - 2pm</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Casualties - 5pm</b>					
Commuting	0	0	0	0	0
Commercial	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	0	0	0	0	0
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0
<b>Total Casualties - 5pm</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

	Injury Severity Level				Total
	Severity 1	Severity 2	Severity 3	Severity 4	
<b>California</b>					
<b>Inyo</b>					
<b>Casualties - 2am</b>					
Commuting	0	0	0	0	0
Commercial	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	0	0	0	0	0
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0
<b>Total Casualties - 2am</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Casualties - 2pm</b>					
Commuting	0	0	0	0	0
Commercial	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	0	0	0	0	0
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0
<b>Total Casualties - 2pm</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Casualties - 5pm</b>					
Commuting	0	0	0	0	0
Commercial	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	0	0	0	0	0
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0
<b>Total Casualties - 5pm</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Madera</b>					
<b>Casualties - 2am</b>					
Commuting	0	0	0	0	0
Commercial	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	0	0	0	0	0
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0
<b>Total Casualties - 2am</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Casualties - 2pm</b>					
Commuting	0	0	0	0	0
Commercial	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0

	Injury Severity Level				Total
	Severity 1	Severity 2	Severity 3	Severity 4	
<b>California</b>					
<b>Madera</b>					
<b>Casualties - 2pm</b>					
<i>Industrial</i>	0	0	0	0	0
<i>Other-Residential</i>	0	0	0	0	0
<i>Single Family</i>	0	0	0	0	0
<b>Total Casualties - 2pm</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Casualties - 5pm</b>					
<i>Commuting</i>	0	0	0	0	0
<i>Commercial</i>	0	0	0	0	0
<i>Educational</i>	0	0	0	0	0
<i>Hotels</i>	0	0	0	0	0
<i>Industrial</i>	0	0	0	0	0
<i>Other-Residential</i>	0	0	0	0	0
<i>Single Family</i>	0	0	0	0	0
<b>Total Casualties - 5pm</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Mariposa</b>					
<b>Casualties - 2am</b>					
<i>Commuting</i>	0	0	0	0	0
<i>Commercial</i>	0	0	0	0	0
<i>Educational</i>	0	0	0	0	0
<i>Hotels</i>	0	0	0	0	0
<i>Industrial</i>	0	0	0	0	0
<i>Other-Residential</i>	0	0	0	0	0
<i>Single Family</i>	0	0	0	0	0
<b>Total Casualties - 2am</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Casualties - 2pm</b>					
<i>Commuting</i>	0	0	0	0	0
<i>Commercial</i>	0	0	0	0	0
<i>Educational</i>	0	0	0	0	0
<i>Hotels</i>	0	0	0	0	0
<i>Industrial</i>	0	0	0	0	0
<i>Other-Residential</i>	0	0	0	0	0
<i>Single Family</i>	0	0	0	0	0
<b>Total Casualties - 2pm</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Casualties - 5pm</b>					
<i>Commuting</i>	0	0	0	0	0
<i>Commercial</i>	0	0	0	0	0
<i>Educational</i>	0	0	0	0	0
<i>Hotels</i>	0	0	0	0	0
<i>Industrial</i>	0	0	0	0	0
<i>Other-Residential</i>	0	0	0	0	0
<i>Single Family</i>	0	0	0	0	0

	Injury Severity Level				Total
	Severity 1	Severity 2	Severity 3	Severity 4	
<b>California</b>					
<b>Mariposa</b>					
<b>Total Casualties - 5pm</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Merced</b>					
<b>Casualties - 2am</b>					
<i>Commuting</i>	0	0	0	0	0
<i>Commercial</i>	0	0	0	0	0
<i>Educational</i>	0	0	0	0	0
<i>Hotels</i>	0	0	0	0	0
<i>Industrial</i>	0	0	0	0	0
<i>Other-Residential</i>	0	0	0	0	0
<i>Single Family</i>	0	0	0	0	0
<b>Total Casualties - 2am</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Casualties - 2pm</b>					
<i>Commuting</i>	0	0	0	0	0
<i>Commercial</i>	0	0	0	0	0
<i>Educational</i>	0	0	0	0	0
<i>Hotels</i>	0	0	0	0	0
<i>Industrial</i>	0	0	0	0	0
<i>Other-Residential</i>	0	0	0	0	0
<i>Single Family</i>	0	0	0	0	0
<b>Total Casualties - 2pm</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Casualties - 5pm</b>					
<i>Commuting</i>	0	0	0	0	0
<i>Commercial</i>	0	0	0	0	0
<i>Educational</i>	0	0	0	0	0
<i>Hotels</i>	0	0	0	0	0
<i>Industrial</i>	0	0	0	0	0
<i>Other-Residential</i>	0	0	0	0	0
<i>Single Family</i>	0	0	0	0	0
<b>Total Casualties - 5pm</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Mono</b>					
<b>Casualties - 2am</b>					
<i>Commuting</i>	0	0	0	0	0
<i>Commercial</i>	0	0	0	0	0
<i>Educational</i>	0	0	0	0	0
<i>Hotels</i>	0	0	0	0	0
<i>Industrial</i>	0	0	0	0	0
<i>Other-Residential</i>	0	0	0	0	0
<i>Single Family</i>	0	0	0	0	0
<b>Total Casualties - 2am</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>
<b>Casualties - 2pm</b>					
<i>Commuting</i>	0	0	0	0	0

	Injury Severity Level				Total
	Severity 1	Severity 2	Severity 3	Severity 4	
<b>California</b>					
<b>Mono</b>					
<b>Casualties - 2pm</b>					
Commercial	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	0	0	0	0	0
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0
<b>Total Casualties - 2pm</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>
<b>Casualties - 5pm</b>					
Commuting	0	0	0	0	0
Commercial	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	0	0	0	0	0
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0
<b>Total Casualties - 5pm</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Placer</b>					
<b>Casualties - 2am</b>					
Commuting	0	0	0	0	0
Commercial	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	0	0	0	0	0
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0
<b>Total Casualties - 2am</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Casualties - 2pm</b>					
Commuting	0	0	0	0	0
Commercial	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	0	0	0	0	0
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0
<b>Total Casualties - 2pm</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Casualties - 5pm</b>					
Commuting	0	0	0	0	0
Commercial	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	0	0	0	0	0

	Injury Severity Level				Total
	Severity 1	Severity 2	Severity 3	Severity 4	
<b>California</b>					
<b>Placer</b>					
<b>Casualties - 5pm</b>					
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0
<b>Total Casualties - 5pm</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Stanislaus</b>					
<b>Casualties - 2am</b>					
Commuting	0	0	0	0	0
Commercial	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	0	0	0	0	0
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0
<b>Total Casualties - 2am</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Casualties - 2pm</b>					
Commuting	0	0	0	0	0
Commercial	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	0	0	0	0	0
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0
<b>Total Casualties - 2pm</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Casualties - 5pm</b>					
Commuting	0	0	0	0	0
Commercial	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	0	0	0	0	0
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0
<b>Total Casualties - 5pm</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Tuolumne</b>					
<b>Casualties - 2am</b>					
Commuting	0	0	0	0	0
Commercial	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	0	0	0	0	0
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0

	Injury Severity Level				Total
	Severity 1	Severity 2	Severity 3	Severity 4	
<b>California</b>					
<b>Tuolumne</b>					
<b>Total Casualties - 2am</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Casualties - 2pm</b>					
<i>Commuting</i>	0	0	0	0	0
<i>Commercial</i>	0	0	0	0	0
<i>Educational</i>	0	0	0	0	0
<i>Hotels</i>	0	0	0	0	0
<i>Industrial</i>	0	0	0	0	0
<i>Other-Residential</i>	0	0	0	0	0
<i>Single Family</i>	0	0	0	0	0
<b>Total Casualties - 2pm</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Casualties - 5pm</b>					
<i>Commuting</i>	0	0	0	0	0
<i>Commercial</i>	0	0	0	0	0
<i>Educational</i>	0	0	0	0	0
<i>Hotels</i>	0	0	0	0	0
<i>Industrial</i>	0	0	0	0	0
<i>Other-Residential</i>	0	0	0	0	0
<i>Single Family</i>	0	0	0	0	0
<b>Total Casualties - 5pm</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Region Total</b>	NA	NA	NA	NA	NA

Totals only reflect data for those census tracts/blocks included in the user's study region and will reflect the entire county/state only if all of the census blocks for that county/states were selected at the time of study region creation.

## Debris Summary Report

May 07, 2024

All values are in thousands of tons.

	Brick, Wood & Others	Concrete & Steel	Total
<b>California</b>			
Alpine	0	0	0
Amador	0	0	0
Calaveras	0	0	0
El Dorado	0	0	0
Fresno	0	0	0
Inyo	0	0	0
Madera	0	0	0
Mariposa	0	0	0
Merced	0	0	0
Mono	1	1	1
Placer	0	0	0
Stanislaus	0	0	0
Tuolumne	0	0	0
<b>Total</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>Region Total</b>	<b>1</b>	<b>1</b>	<b>1</b>

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**Brick, Wood & Others**

**Concrete & Steel**

**Total**

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*Totals only reflect data for those census tracts/blocks included in the user's study region and will reflect the entire county/state only if all of the census blocks for that county/states were selected at the time of study region creation.*

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## Direct Economic Losses For Buildings

May 7, 2024

All values are in thousands of dollars

	Capital Stock Losses				Loss Ratio %	Income Losses				Total Loss
	Cost Structural Damage	Cost Non-struct. Damage	Cost Contents Damage	Inventory Loss		Relocation Loss	Capital Related Loss	Wages Losses	Rental Income Loss	
<b>California</b>										
Inyo	2	57	34	5	0.00	0	1	1	1	101
Fresno	0	4	2	0	0.00	0	0	0	0	6
Tuolumne	5	183	109	5	0.00	0	0	1	1	305
Madera	7	144	81	8	0.00	0	0	0	1	242
Calaveras	0	1	1	0	0.00	0	0	0	0	3
Alpine	0	5	2	0	0.00	0	0	0	0	7
Merced	0	1	1	0	0.00	0	0	0	0	2
Stanislaus	0	0	0	0	0.00	0	0	0	0	1
<b>Mono</b>	<b>1,049</b>	<b>7,017</b>	<b>3,404</b>	<b>591</b>	<b>0.18</b>	<b>316</b>	<b>120</b>	<b>139</b>	<b>236</b>	<b>12,872</b>

	Capital Stock Losses				Loss Ratio %	Income Losses				Total Loss
	Cost Structural Damage	Cost Non-struct. Damage	Cost Contents Damage	Inventory Loss		Relocation Loss	Capital Related Loss	Wages Losses	Rental Income Loss	
Placer	0	0	0	0	0.00	0	0	0	0	0
El Dorado	0	6	4	0	0.00	0	0	0	0	11
Amador	0	0	0	0	0.00	0	0	0	0	0
Mariposa	1	47	23	1	0.00	0	0	0	0	72
<b>Total</b>	<b>1,064</b>	<b>7,465</b>	<b>3,662</b>	<b>611</b>	<b>0.01</b>	<b>317</b>	<b>121</b>	<b>141</b>	<b>239</b>	<b>13,620</b>
<b>Region Total</b>	<b>1,064</b>	<b>7,465</b>	<b>3,662</b>	<b>611</b>	<b>0.01</b>	<b>317</b>	<b>121</b>	<b>141</b>	<b>239</b>	<b>13,620</b>

Totals only reflect data for those census tracts/blocks included in the user's study region and will reflect the entire county/state only if all of the census blocks for that county/states were selected at the time of study region creation.

## Direct Economic Loss For Transportation

May 07, 2024

All values are in thousands of dollars

	Highway	Railway	Light Rail	Bus Facility	Ports	Ferries	Airport	Total
<b>California</b>								
<b>Alpine</b>								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	51	51
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>51</b>	<b>51</b>
<b>Amador</b>								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Calaveras</b>								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	0	0

	Highway	Railway	Light Rail	Bus Facility	Ports	Ferries	Airport	Total
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>El Dorado</b>								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		0	0	5	0	0	6	10
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>10</b>
<b>Fresno</b>								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	6	6
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>6</b>
<b>Inyo</b>								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	102	102
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>102</b>	<b>102</b>
<b>Madera</b>								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		3	0	2	0	0	11	17

	Highway	Railway	Light Rail	Bus Facility	Ports	Ferries	Airport	Total
<b>Total</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>17</b>
<b>Mariposa</b>								
Segments	0	0	0					0
Bridges	2	0	0					2
Tunnels	0	0	0					0
Facilities		0	0	86	0	0	6	91
<b>Total</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>86</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>93</b>
<b>Merced</b>								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		6	0	2	0	0	14	22
<b>Total</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>23</b>
<b>Mono</b>								
Segments	0	0	0					0
Bridges	192	0	0					192
Tunnels	0	0	0					0
Facilities		0	0	897	0	0	3,627	4,524
<b>Total</b>	<b>192</b>	<b>0</b>	<b>0</b>	<b>897</b>	<b>0</b>	<b>0</b>	<b>3,627</b>	<b>4,716</b>
<b>Placer</b>								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	0	0

	Highway	Railway	Light Rail	Bus Facility	Ports	Ferries	Airport	Total
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Stanislaus</b>								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Tuolumne</b>								
Segments	0	0	0					0
Bridges	4	0	0					4
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	108	108
<b>Total</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>108</b>	<b>112</b>
<b>Total</b>	<b>199</b>	<b>9</b>	<b>0</b>	<b>992</b>	<b>0</b>	<b>0</b>	<b>3,930</b>	<b>5,130</b>
<b>Region Total</b>	<b>199</b>	<b>9</b>	<b>0</b>	<b>992</b>	<b>0</b>	<b>0</b>	<b>3,930</b>	<b>5,130</b>

Totals only reflect data for those census tracts/blocks included in the user's study region and will reflect the entire county/state only if all of the census blocks for that county/states were selected at the time of study region creation.

## Direct Economic Loss For Utilities

May 07, 2024

All values are in thousands of dollars

	Potable Water	Waste Water	Oil Systems	Natural Gas	Electric Power	Communication	Total
<b>California</b>							
<b>Alpine</b>							
<i>Facilities</i>	0	123	0	0	0	0	123
<i>Pipelines</i>	3	1	0	0			4
<b>Total</b>	<b>3</b>	<b>124</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>127</b>
<b>Amador</b>							
<i>Facilities</i>	0	3	0	0	44	0	47
<i>Pipelines</i>	3	1	0	0			4
<b>Total</b>	<b>3</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>44</b>	<b>0</b>	<b>51</b>
<b>Calaveras</b>							
<i>Facilities</i>	0	5	0	0	1,358	0	1,363
<i>Pipelines</i>	9	5	0	0			14
<b>Total</b>	<b>9</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>1,358</b>	<b>0</b>	<b>1,378</b>
<b>El Dorado</b>							
<i>Facilities</i>	0	0	0	0	844	0	844

	Potable Water	Waste Water	Oil Systems	Natural Gas	Electric Power	Communication	Total
<i>Pipelines</i>	10	5	0	0			15
<b>Total</b>	10	5	0	0	844	0	859
<b>Fresno</b>							
<i>Facilities</i>	0	3	0	0	32,145	0	32,148
<i>Pipelines</i>	22	11	0	0			33
<b>Total</b>	22	14	0	0	32,145	0	32,181
<b>Inyo</b>							
<i>Facilities</i>	0	0	0	0	1,961	0	1,962
<i>Pipelines</i>	16	8	0	0			24
<b>Total</b>	16	8	0	0	1,961	0	1,986
<b>Madera</b>							
<i>Facilities</i>	0	0	0	0	8,944	0	8,944
<i>Pipelines</i>	27	14	0	0			41
<b>Total</b>	27	14	0	0	8,944	0	8,985
<b>Mariposa</b>							
<i>Facilities</i>	0	492	0	0	42	0	534
<i>Pipelines</i>	14	7	0	0			21
<b>Total</b>	14	499	0	0	42	0	555
<b>Merced</b>							
<i>Facilities</i>	0	5	0	0	4	0	9
<i>Pipelines</i>	10	5	0	0			16

	Potable Water	Waste Water	Oil Systems	Natural Gas	Electric Power	Communication	Total
<b>Total</b>	10	10	0	0	4	0	25
<b>Mono</b>							
<i>Facilities</i>	0	0	0	0	69,342	2	69,345
<i>Pipelines</i>	290	146	0	0			435
<b>Total</b>	290	146	0	0	69,342	2	69,780
<b>Placer</b>							
<i>Facilities</i>	0	0	0	0	6	0	6
<i>Pipelines</i>	7	3	0	0			10
<b>Total</b>	7	3	0	0	6	0	16
<b>Stanislaus</b>							
<i>Facilities</i>	0	0	0	0	4	0	4
<i>Pipelines</i>	1	1	0	0			2
<b>Total</b>	1	1	0	0	4	0	6
<b>Tuolumne</b>							
<i>Facilities</i>	0	3	0	0	15,981	0	15,983
<i>Pipelines</i>	33	16	0	0			49
<b>Total</b>	33	19	0	0	15,981	0	16,033
<b>Total</b>	<b>445</b>	<b>856</b>	<b>0</b>	<b>0</b>	<b>130,676</b>	<b>4</b>	<b>131,981</b>
<b>Region Total</b>	<b>445</b>	<b>856</b>	<b>0</b>	<b>0</b>	<b>130,676</b>	<b>4</b>	<b>131,981</b>

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**Potable Water**

**Waste Water**

**Oil Systems**

**Natural Gas**

**Electric Power**

**Communication**

**Total**

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*Totals only reflect data for those census tracts/blocks included in the user's study region and will reflect the entire county/state only if all of the census blocks for that county/states were selected at the time of study region creation.*

## Shelter Summary Report

May 07, 2024

	# of Displaced Households	# of People Needing Short Term Shelter
<b>California</b>		
Alpine	0	0
Amador	0	0
Calaveras	0	0
El Dorado	0	0
Fresno	0	0
Inyo	0	0
Madera	0	0
Mariposa	0	0
Merced	0	0
Mono	1	0
Placer	0	0
Stanislaus	0	0
Tuolumne	0	0
<b>Total</b>	<b>1</b>	<b>0</b>
<b>Region Total</b>	<b>1</b>	<b>0</b>

Totals only reflect data for those census tracts/blocks included in the user's study region and will reflect the entire county/state only if all of the census blocks for that county/states were selected at the time of study region creation.

