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## Hazus: Earthquake Global Risk Report

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**Region Name:** Almanor

**Earthquake Scenario:** almanor2011cfmellbge\_m6p69\_se

**Print Date:** May 02, 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.*

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## 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 14 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 33,559.03 square miles and contains 326 census tracts. There are over 496 thousand households in the region which has a total population of 1,307,092 people. The distribution of population by Total Region and County is provided in Appendix B.

There are an estimated 548 thousand buildings in the region with a total building replacement value (excluding contents) of 281,484 (millions of dollars). Approximately 90.00 % of the buildings (and 66.00% of the building value) are associated with residential housing.

The replacement value of the transportation and utility lifeline systems is estimated to be 40,214 and 65,297 (millions of dollars) , respectively.

## Building and Lifeline Inventory

### Building Inventory

Hazus estimates that there are 548 thousand buildings in the region which have an aggregate total replacement value of 281,484 (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 84% 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 40 hospitals in the region with a total bed capacity of 2,908 beds. There are 726 schools, 392 fire stations, 89 police stations and 17 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 105,511.00 (millions of dollars). This inventory includes over 3,164.64 miles of highways, 3,389 bridges, 105,908.34 miles of pipes.

**Table 1: Transportation System Lifeline Inventory**

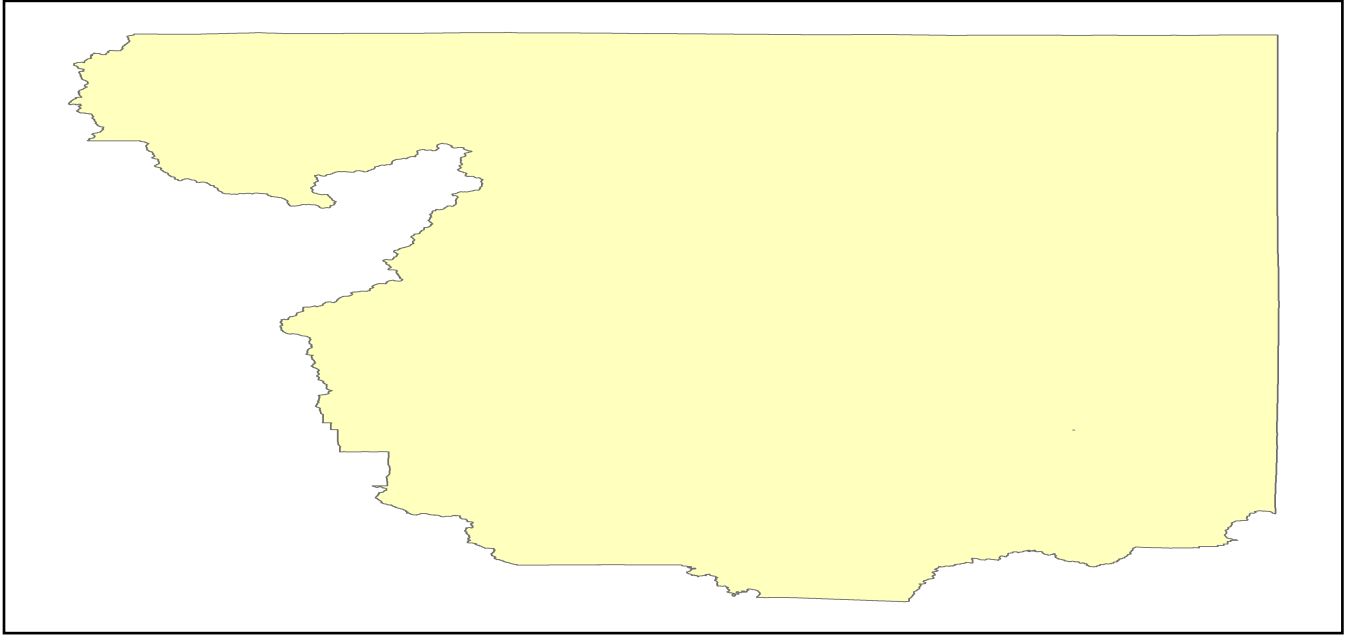
System	Component	# Locations/ # Segments	Replacement value (millions of dollars)
<b>Highway</b>	Bridges	3,389	7931.3181
	Segments	936	21752.2273
	Tunnels	7	40.7535
	<b>Subtotal</b>		<b>29724.2989</b>
<b>Railways</b>	Bridges	719	4091.1100
	Facilities	8	21.3040
	Segments	699	5754.3819
	Tunnels	0	0.0000
	<b>Subtotal</b>		<b>9866.7959</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	4	9.0137
	<b>Subtotal</b>		<b>9.0137</b>
<b>Ferry</b>	Facilities	0	0.0000
	<b>Subtotal</b>		<b>0.0000</b>
<b>Port</b>	Facilities	1	3.8118
	<b>Subtotal</b>		<b>3.8118</b>
<b>Airport</b>	Facilities	47	273.1040
	Runways	52	337.0245
	<b>Subtotal</b>		<b>610.1285</b>
		<b>Total</b>	<b>40,214.00</b>

**Table 2: Utility System Lifeline Inventory**

System	Component	# Locations / Segments	Replacement value (millions of dollars)
<b>Potable Water</b>	Distribution Lines	NA	2107.4806
	Facilities	4	157.1760
	Pipelines	0	0.0000
		<b>Subtotal</b>	<b>2264.6566</b>
<b>Waste Water</b>	Distribution Lines	NA	1264.4884
	Facilities	50	8597.5900
	Pipelines	0	0.0000
		<b>Subtotal</b>	<b>9862.0784</b>
<b>Natural Gas</b>	Distribution Lines	NA	842.9922
	Facilities	4	164.9741
	Pipelines	398	6499.1905
		<b>Subtotal</b>	<b>7507.1568</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	114	45653.5745
		<b>Subtotal</b>	<b>45653.5745</b>
<b>Communication</b>	Facilities	82	9.6760
		<b>Subtotal</b>	<b>9.6760</b>
	<b>Total</b>		<b>65,297.30</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>	almanor2011cfmellbge_m6p69_se
<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>	6.69
<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 141 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

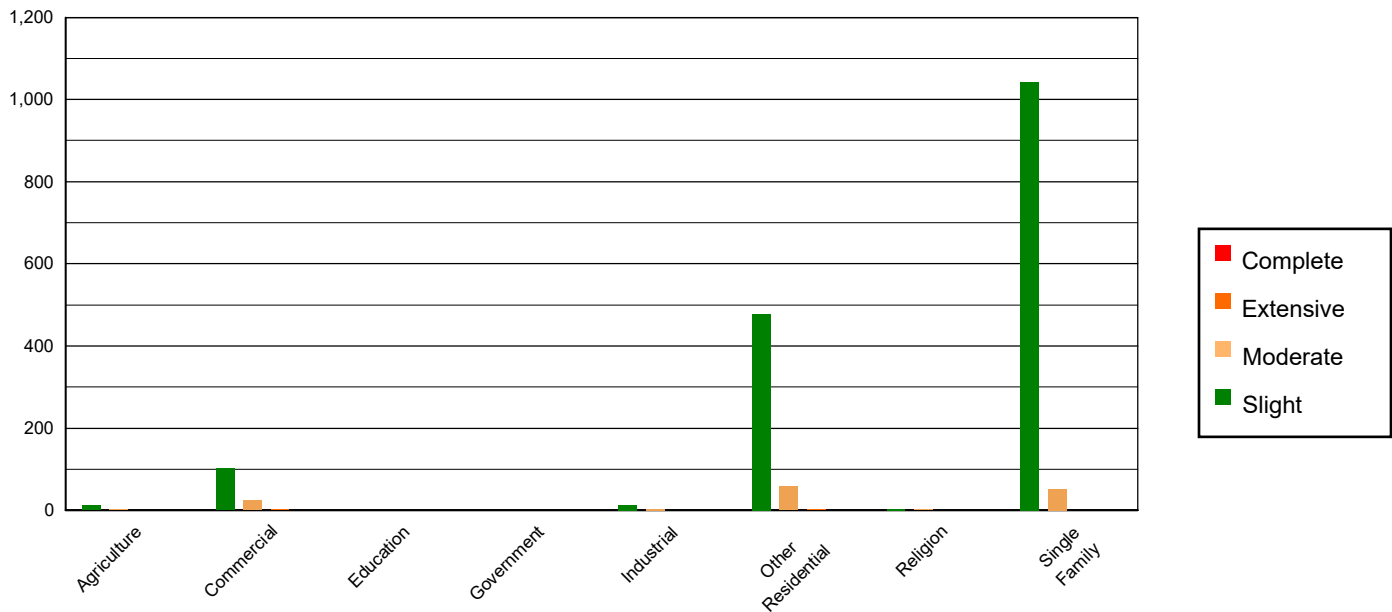


Table 3: Expected Building Damage by Occupancy

	None		Slight		Moderate		Extensive		Complete	
	Count	(%)	Count	(%)	Count	(%)	Count	(%)	Count	(%)
<b>Agriculture</b>	7923.55	1.45	10.30	0.62	2.08	1.51	0.07	1.80	0.00	0.00
<b>Commercial</b>	33478.87	6.12	100.59	6.10	23.23	16.84	1.28	34.06	0.03	47.30
<b>Education</b>	1063.27	0.19	0.67	0.04	0.06	0.04	0.00	0.01	0.00	0.00
<b>Government</b>	1862.18	0.34	0.72	0.04	0.09	0.07	0.00	0.02	0.00	0.00
<b>Industrial</b>	9314.01	1.70	11.82	0.72	2.94	2.13	0.22	5.78	0.00	3.79
<b>Other Residential</b>	91268.94	16.70	477.99	29.00	56.99	41.31	2.07	54.88	0.02	38.76
<b>Religion</b>	1948.03	0.36	3.73	0.23	1.11	0.80	0.13	3.45	0.01	10.15
<b>Single Family</b>	399806.01	73.14	1042.55	63.25	51.44	37.29	0.00	0.00	0.00	0.00
<b>Total</b>	<b>546,665</b>		<b>1,648</b>		<b>138</b>		<b>4</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>	458236.36	83.82	1340.79	81.34	66.17	47.97	0.00	0.03	0.00	0.00
<b>Steel</b>	12510.54	2.29	45.29	2.75	18.69	13.55	1.38	36.77	0.01	17.34
<b>Concrete</b>	12249.91	2.24	47.53	2.88	9.65	7.00	0.52	13.89	0.00	5.75
<b>Precast</b>	8277.38	1.51	19.06	1.16	6.31	4.57	0.15	4.08	0.00	0.00
<b>RM</b>	15606.63	2.85	32.66	1.98	8.77	6.36	0.14	3.64	0.00	0.00
<b>URM</b>	1583.47	0.29	24.57	1.49	7.25	5.25	0.98	26.05	0.04	76.91
<b>MH</b>	38200.59	6.99	138.47	8.40	21.09	15.29	0.59	15.55	0.00	0.00
<b>Total</b>	<b>546,665</b>		<b>1,648</b>		<b>138</b>		<b>4</b>		<b>0</b>	

\*Note:

RM      Reinforced Masonry  
 URM     Unreinforced Masonry  
 MH      Manufactured Housing

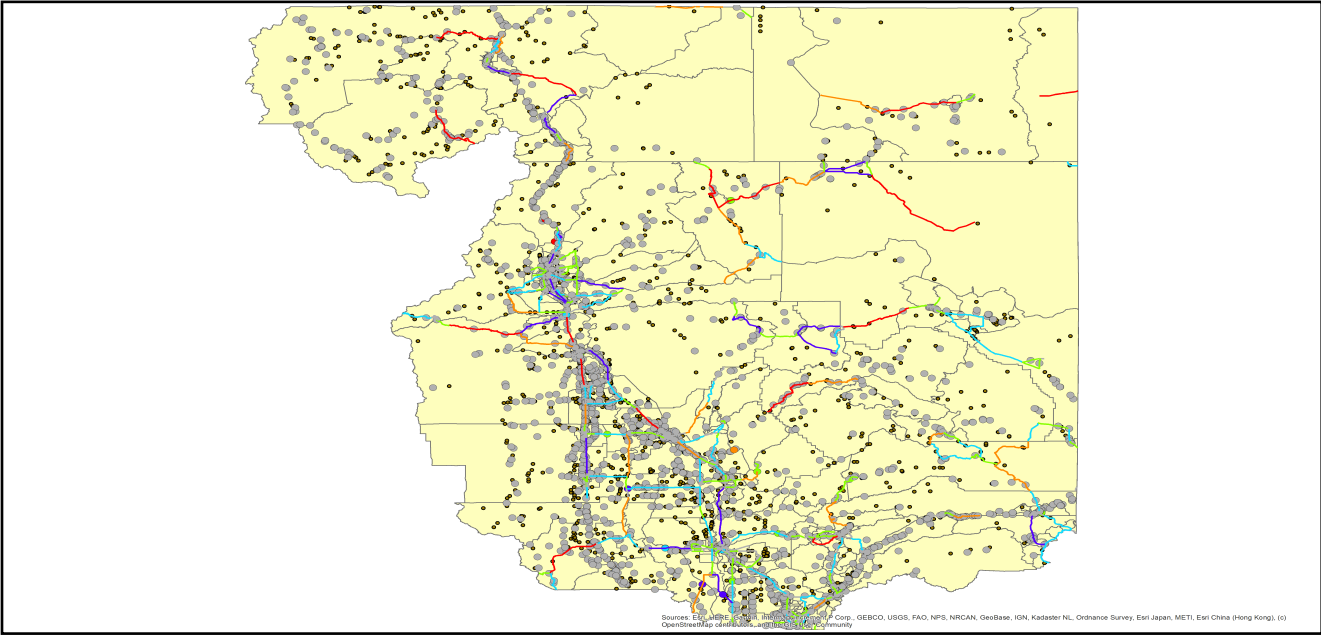
## Essential Facility Damage

Before the earthquake, the region had 2,908 hospital beds available for use. On the day of the earthquake, the model estimates that only 2,829 hospital beds (97.00%) are available for use by patients already in the hospital and those injured by the earthquake. After one week, 98.00% 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	40	1	0	39
Schools	726	3	0	723
EOCs	17	0	0	17
PoliceStations	89	0	0	89
FireStations	392	0	0	388

## 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	936	0	0	936	936
	Bridges	3,389	0	0	3,389	3,389
	Tunnels	7	0	0	7	7
Railways	Segments	699	0	0	699	699
	Bridges	719	0	0	719	719
	Tunnels	0	0	0	0	0
	Facilities	8	0	0	8	8
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	4	0	0	4	4
Ferry	Facilities	0	0	0	0	0
Port	Facilities	1	0	0	1	1
Airport	Facilities	47	0	0	47	47
	Runways	52	0	0	52	52

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	4	0	0	4	4
Waste Water	50	1	0	49	50
Natural Gas	4	0	0	4	4
Oil Systems	1	0	0	1	1
Electrical Power	114	3	0	111	114
Communication	82	0	0	82	82

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

System	Total Pipelines Length (miles)	Number of Leaks	Number of Breaks
Potable Water	65,476	321	80
Waste Water	39,286	161	40
Natural Gas	1,147	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	496,874	0	0	0	0	0
Electric Power		0	0	0	0	0

## Induced Earthquake Damage

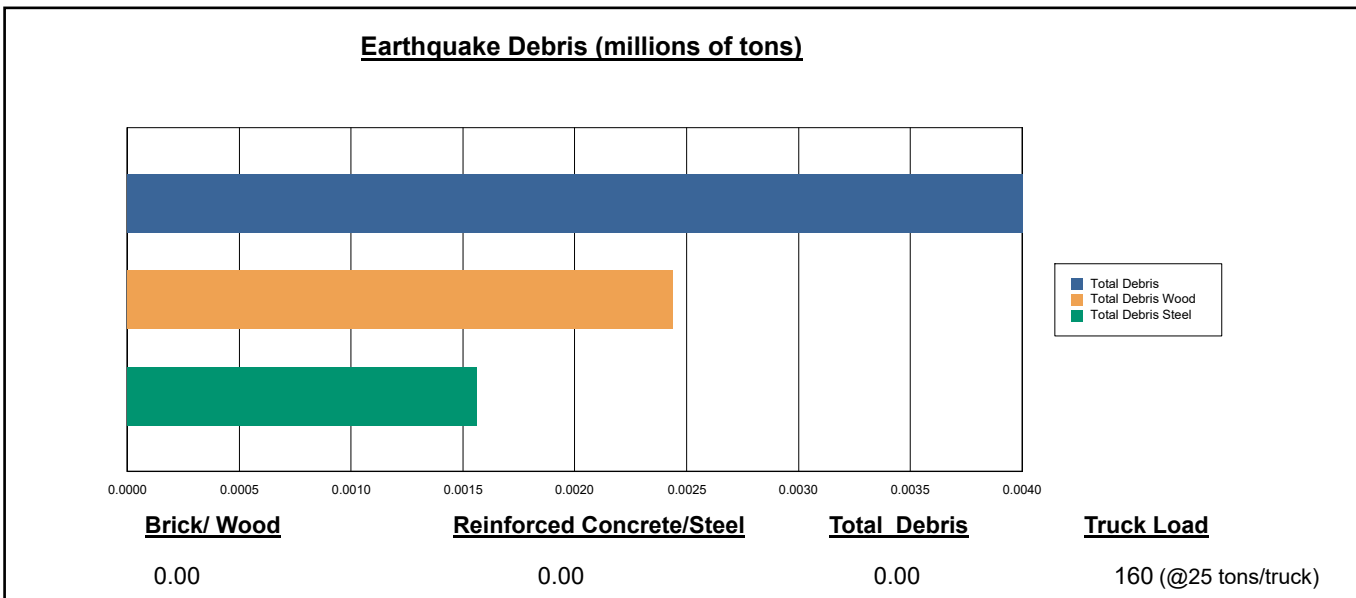
### Fire Following Earthquake

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.

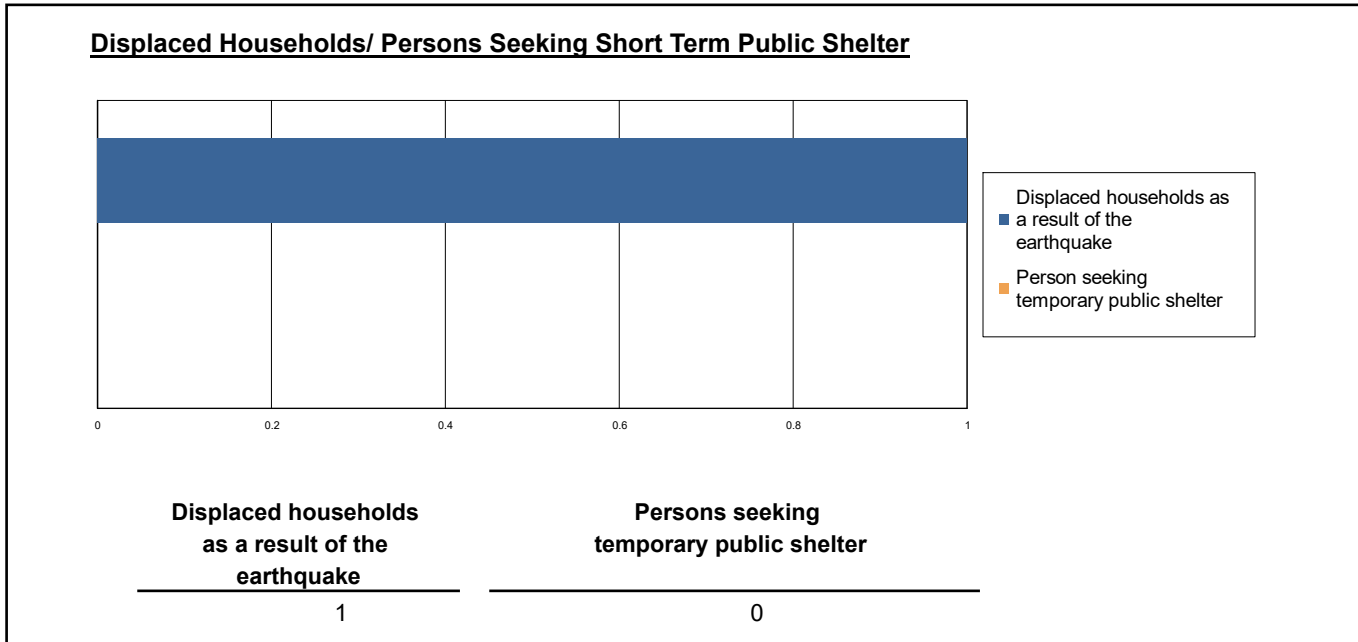
The model estimates that a total of 4,000 tons of debris will be generated. Of the total amount, Brick/Wood comprises 61.00% of the total, with the remainder being Reinforced Concrete/Steel. If the debris tonnage is converted to an estimated number of truckloads, it will require 160 truckloads (@25 tons/truck) 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 1 household to be displaced due to the earthquake. Of these, 0 people (out of a total population of 1,307,092) will seek temporary shelter in public shelters.



### 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	0.01	0.00	0.00	0.00
	Other-Residential	0.67	0.03	0.00	0.00
	Single Family	0.44	0.01	0.00	0.00
	<b>Total</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>2 PM</b>	Commercial	0.90	0.07	0.00	0.00
	Commuting	0.00	0.00	0.01	0.00
	Educational	0.10	0.00	0.00	0.00
	Hotels	0.00	0.00	0.00	0.00
	Industrial	0.06	0.00	0.00	0.00
	Other-Residential	0.25	0.01	0.00	0.00
	Single Family	0.17	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	0.56	0.04	0.00	0.00
	Commuting	0.06	0.07	0.13	0.02
	Educational	0.00	0.00	0.00	0.00
	Hotels	0.00	0.00	0.00	0.00
	Industrial	0.04	0.00	0.00	0.00
	Other-Residential	0.24	0.01	0.00	0.00
	Single Family	0.16	0.00	0.00	0.00
	<b>Total</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>

## Economic Loss

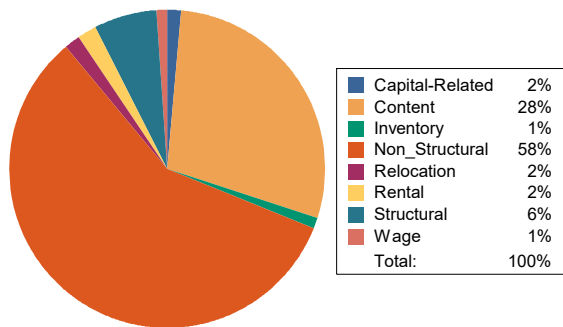
The total economic loss estimated for the earthquake is 804.95 (millions of dollars), which includes building and lifeline related losses based on the region's available inventory. The following three sections provide more detailed information about these losses.

## Building-Related Losses

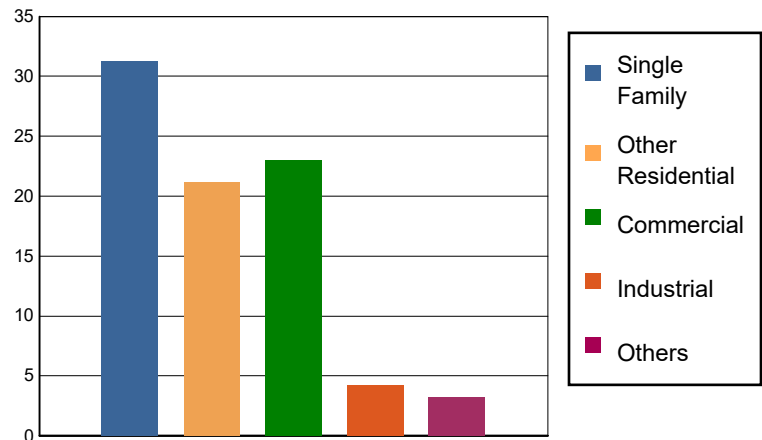
The building losses are broken into two categories: direct building losses and business interruption losses. The direct building losses are the estimated costs to repair or replace the damage caused to the building and its contents. The business interruption losses are the losses associated with inability 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 82.87 (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 63 % 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	0.0761	0.9077	0.0125	0.0217	1.0180
	Capital-Related	0.0000	0.0323	1.2117	0.0073	0.0073	1.2586
	Rental	0.1643	0.6146	0.7053	0.0088	0.0085	1.5015
	Relocation	0.3818	0.3638	0.6470	0.0472	0.0800	1.5198
	<b>Subtotal</b>	<b>0.5461</b>	<b>1.0868</b>	<b>3.4717</b>	<b>0.0758</b>	<b>0.1175</b>	<b>5.2979</b>
<b>Capital Stock Losses</b>							
	Structural	2.4633	1.1173	1.2267	0.1658	0.2572	5.2303
	Non_Structural	19.3399	14.1602	10.7480	2.1711	1.4078	47.8270
	Content	8.9200	4.8238	7.0813	1.5913	1.0747	23.4911
	Inventory	0.0000	0.0000	0.4334	0.2253	0.3611	1.0198
	<b>Subtotal</b>	<b>30.7232</b>	<b>20.1013</b>	<b>19.4894</b>	<b>4.1535</b>	<b>3.1008</b>	<b>77.5682</b>
	<b>Total</b>	<b>31.27</b>	<b>21.19</b>	<b>22.96</b>	<b>4.23</b>	<b>3.22</b>	<b>82.87</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	21752.2273	0.0000	0.00
	Bridges	7931.3181	0.5488	0.01
	Tunnels	40.7535	0.0000	0.00
	<b>Subtotal</b>	<b>29724.2989</b>	<b>0.5488</b>	
Railways	Segments	5754.3819	0.0000	0.00
	Bridges	4091.1100	0.8327	0.02
	Tunnels	0.0000	0.0000	0.00
	Facilities	21.3040	0.0598	0.28
	<b>Subtotal</b>	<b>9866.7959</b>	<b>0.8925</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	9.0137	0.0269	0.30
	<b>Subtotal</b>	<b>9.0137</b>	<b>0.0269</b>	
Ferry	Facilities	0.0000	0.0000	0.00
	<b>Subtotal</b>	<b>0.0000</b>	<b>0.0000</b>	
Port	Facilities	3.8118	0.0367	0.96
	<b>Subtotal</b>	<b>3.8118</b>	<b>0.0367</b>	
Airport	Facilities	273.1040	5.7009	2.09
	Runways	337.0245	0.0000	0.00
	<b>Subtotal</b>	<b>610.1285</b>	<b>5.7009</b>	
<b>Total</b>		<b>40,214.05</b>	<b>7.21</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	157.1760	0.0849	0.05
	Distribution Lines	2107.4806	1.4465	0.07
	<b>Subtotal</b>	<b>2264.6566</b>	<b>1.5314</b>	
Waste Water	Pipelines	0.0000	0.0000	0.00
	Facilities	8597.5900	42.4876	0.49
	Distribution Lines	1264.4884	0.7266	0.06
	<b>Subtotal</b>	<b>9862.0784</b>	<b>43.2142</b>	
Natural Gas	Pipelines	6499.1905	0.0000	0.00
	Facilities	164.9741	0.1524	0.09
	Distribution Lines	842.9922	0.2489	0.03
	<b>Subtotal</b>	<b>7507.1568</b>	<b>0.4013</b>	
Oil Systems	Pipelines	0.0000	0.0000	0.00
	Facilities	0.1180	0.0001	0.08
	<b>Subtotal</b>	<b>0.1180</b>	<b>0.0001</b>	
Electrical Power	Facilities	45653.5745	669.6929	1.47
	<b>Subtotal</b>	<b>45653.5745</b>	<b>669.6929</b>	
Communication	Facilities	9.6760	0.0377	0.39
	<b>Subtotal</b>	<b>9.6760</b>	<b>0.0377</b>	
	<b>Total</b>	<b>65,297.26</b>	<b>714.88</b>	

---

## Appendix A: County Listing for the Region

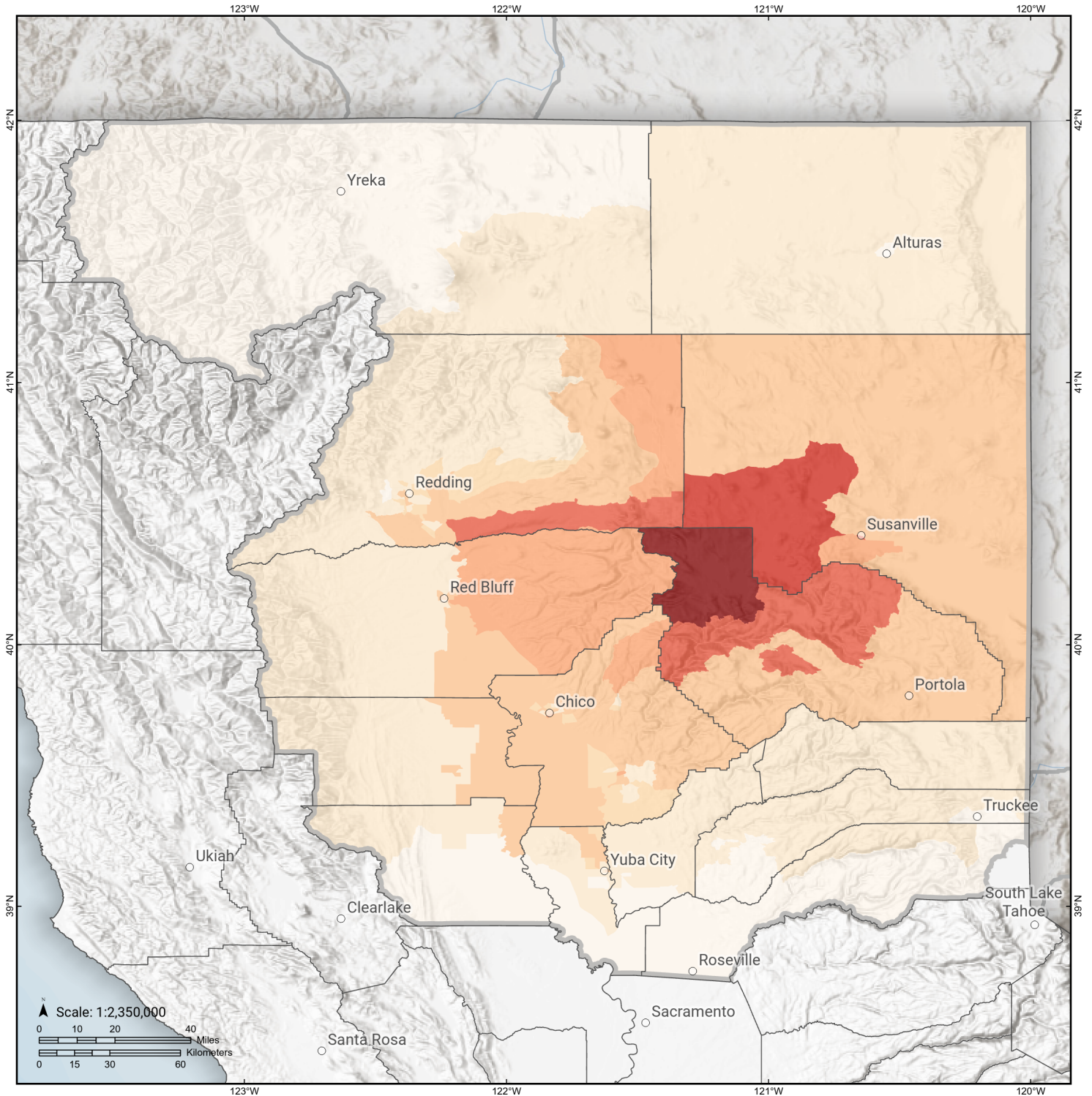
Butte,CA  
Colusa,CA  
Glenn,CA  
Lassen,CA  
Modoc,CA  
Nevada,CA  
Placer,CA  
Plumas,CA  
Shasta,CA  
Sierra,CA  
Siskiyou,CA  
Sutter,CA  
Tehama,CA  
Yuba,CA

## Appendix B: Regional Population and Building Value Data

State	County Name	Population	Building Value (millions of dollars)		
			Residential	Non-Residential	Total
California	Butte	211,632	25,875	16,639	42,514
	Colusa	21,839	2,244	2,024	4,268
	Glenn	28,917	2,791	3,717	6,508
	Lassen	32,730	4,033	2,008	6,042
	Modoc	8,700	1,435	1,468	2,904
	Nevada	102,241	17,908	6,108	24,016
	Placer	404,739	69,985	24,193	94,179
	Plumas	19,790	6,128	2,276	8,405
	Shasta	182,155	21,572	15,715	37,288
	Sierra	3,236	596	419	1,015
	Siskiyou	44,076	6,856	4,758	11,615
	Sutter	99,633	10,618	6,448	17,066
	Tehama	65,829	7,705	5,113	12,818
	Yuba	81,575	8,161	4,677	12,839
<b>Total Region</b>		<b>1,307,092</b>	<b>185,907</b>	<b>95,563</b>	<b>281,477</b>

# Almanor

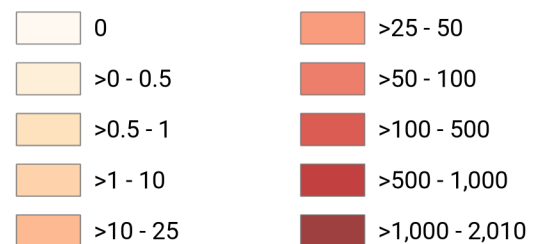
## Debris Generated by Census Tract



**Study Region:** Almanor  
**Scenario:** almanor2011cfmellbge\_m6p69\_se



### Debris Generated (in tons)



# Almanor

## Displaced Households by Census Tract



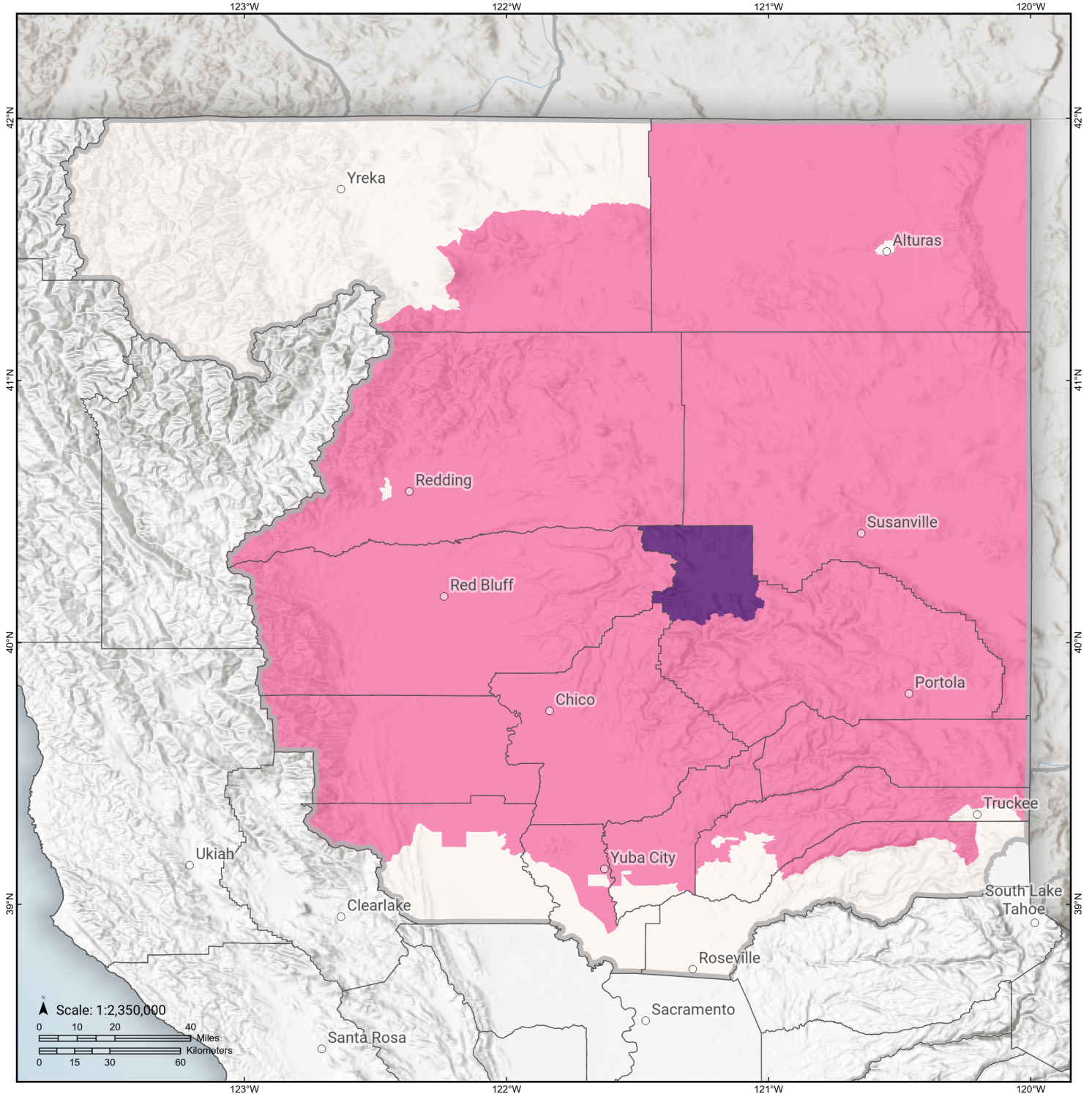
**Study Region:** Almanor  
**Scenario:** almanor2011cfmellbge\_m6p69\_se

### Displaced Households



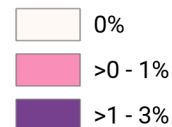
# Almanor

## Loss Ratio by Census Tract



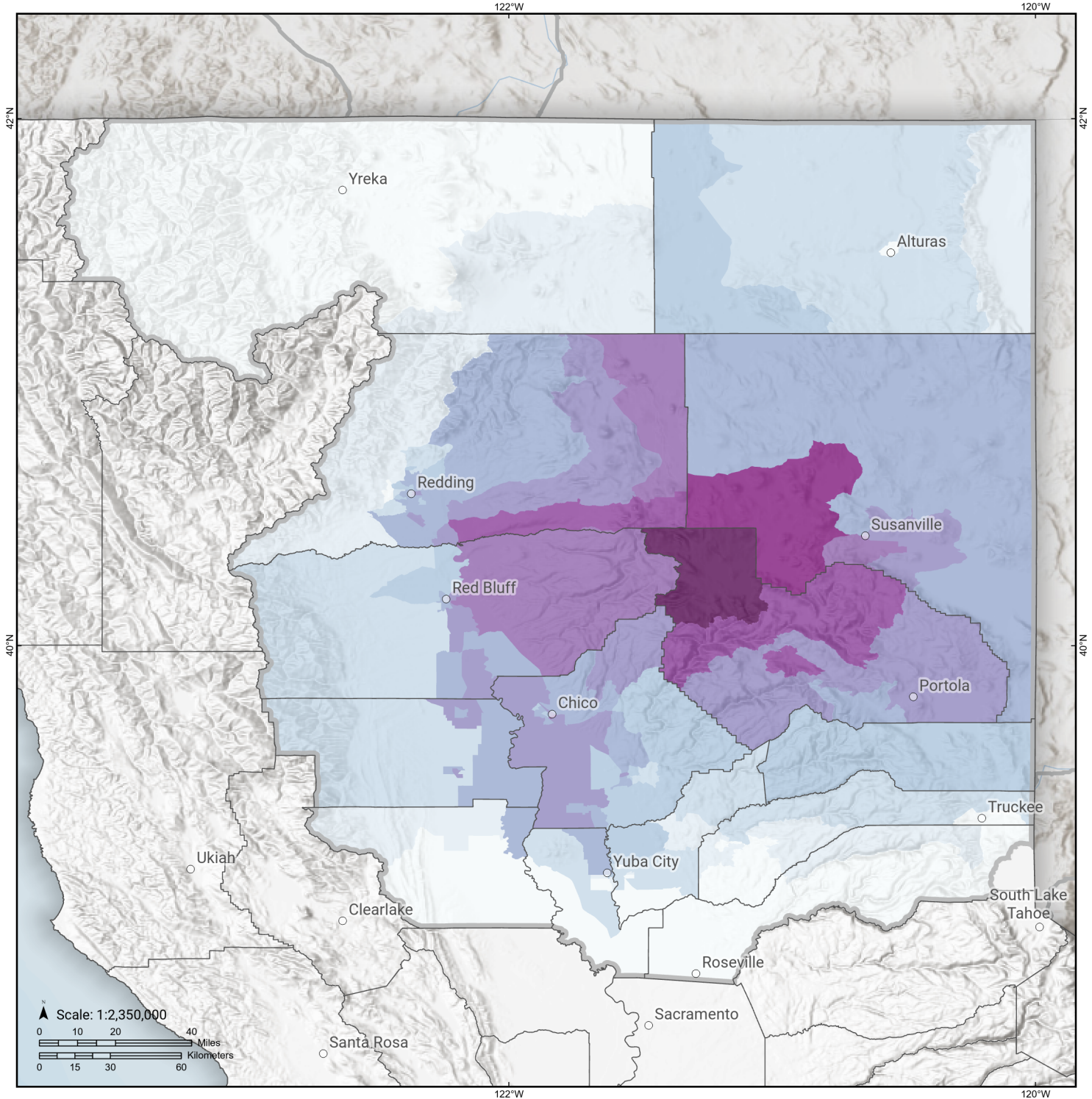
**Study Region:** Almanor  
**Scenario:** almanor2011cfmellbge\_m6p69\_se

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



# Almanor

## Total Building Related Economic Loss by Census Tract



**Study Region:** Almanor  
**Scenario:** almanor2011cfmellbge\_m6p69\_se



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



## Building Damage by Count by General Occupancy

May 02, 2024

	# of Buildings					Total
	None	Slight	Moderate	Extensive	Complete	
<b>California</b>						
<b>Butte</b>						
<i>Agriculture</i>	509	1	0	0	0	510
<i>Commercial</i>	6,380	5	0	0	0	6,385
<i>Education</i>	172	0	0	0	0	172
<i>Government</i>	147	0	0	0	0	147
<i>Industrial</i>	1,521	1	0	0	0	1,522
<i>Religion</i>	530	1	0	0	0	531
<i>Other Residential</i>	21,469	28	1	0	0	21,498
<i>Single Family</i>	50,281	2	0	0	0	50,283
<b>Colusa</b>						
<i>Agriculture</i>	142	0	0	0	0	142
<i>Commercial</i>	794	0	0	0	0	794
<i>Education</i>	33	0	0	0	0	33
<i>Government</i>	32	0	0	0	0	32
<i>Industrial</i>	113	0	0	0	0	113
<i>Religion</i>	58	0	0	0	0	58
<i>Other Residential</i>	954	0	0	0	0	954
<i>Single Family</i>	5,954	0	0	0	0	5,954
<b>Glenn</b>						

	# of Buildings					Total
	None	Slight	Moderate	Extensive	Complete	
<i>Agriculture</i>	1,364	1	0	0	0	1,365
<i>Commercial</i>	884	1	0	0	0	885
<i>Education</i>	35	0	0	0	0	35
<i>Government</i>	99	0	0	0	0	99
<i>Industrial</i>	254	0	0	0	0	254
<i>Religion</i>	89	0	0	0	0	89
<i>Other Residential</i>	2,149	3	0	0	0	2,152
<i>Single Family</i>	7,417	0	0	0	0	7,417
<b>Lassen</b>						
<i>Agriculture</i>	37	0	0	0	0	37
<i>Commercial</i>	898	13	2	0	0	913
<i>Education</i>	40	0	0	0	0	40
<i>Government</i>	22	0	0	0	0	22
<i>Industrial</i>	139	1	0	0	0	140
<i>Religion</i>	70	1	0	0	0	71
<i>Other Residential</i>	2,591	32	3	0	0	2,627
<i>Single Family</i>	9,496	66	0	0	0	9,562
<b>Modoc</b>						
<i>Agriculture</i>	449	0	0	0	0	449
<i>Commercial</i>	532	0	0	0	0	532
<i>Education</i>	20	0	0	0	0	20
<i>Government</i>	16	0	0	0	0	16
<i>Industrial</i>	76	0	0	0	0	76
<i>Religion</i>	36	0	0	0	0	36
<i>Other Residential</i>	1,994	0	0	0	0	1,994

		# of Buildings					
		None	Slight	Moderate	Extensive	Complete	Total
<b>Nevada</b>	<i>Single Family</i>	3,740	0	0	0	0	3,740
	<i>Agriculture</i>	132	0	0	0	0	132
	<i>Commercial</i>	2,835	0	0	0	0	2,835
	<i>Education</i>	108	0	0	0	0	108
	<i>Government</i>	60	0	0	0	0	60
	<i>Industrial</i>	1,161	0	0	0	0	1,161
	<i>Religion</i>	189	0	0	0	0	189
	<i>Other Residential</i>	6,384	0	0	0	0	6,384
<b>Placer</b>	<i>Single Family</i>	43,280	0	0	0	0	43,280
	<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
	<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
<b>Plumas</b>	<i>Single Family</i>	134,719	0	0	0	0	134,719
	<i>Agriculture</i>	80	3	1	0	0	84
	<i>Commercial</i>	1,114	78	21	1	0	1,215
	<i>Education</i>	25	1	0	0	0	26
	<i>Government</i>	45	0	0	0	0	45
	<i>Industrial</i>	173	8	3	0	0	184

	# of Buildings					Total
	None	Slight	Moderate	Extensive	Complete	
<i>Religion</i>	27	2	1	0	0	30
<i>Other Residential</i>	4,627	354	49	2	0	5,032
<i>Single Family</i>	8,864	962	51	0	0	9,877
<b>Shasta</b>						
<i>Agriculture</i>	3,230	5	0	0	0	3,235
<i>Commercial</i>	5,251	3	0	0	0	5,254
<i>Education</i>	136	0	0	0	0	136
<i>Government</i>	87	0	0	0	0	87
<i>Industrial</i>	1,038	0	0	0	0	1,038
<i>Religion</i>	66	0	0	0	0	66
<i>Other Residential</i>	16,893	53	3	0	0	16,949
<i>Single Family</i>	51,806	9	0	0	0	51,815
<b>Sierra</b>						
<i>Agriculture</i>	7	0	0	0	0	7
<i>Commercial</i>	141	0	0	0	0	141
<i>Education</i>	14	0	0	0	0	14
<i>Government</i>	16	0	0	0	0	16
<i>Industrial</i>	66	0	0	0	0	66
<i>Religion</i>	12	0	0	0	0	12
<i>Other Residential</i>	153	0	0	0	0	153
<i>Single Family</i>	1,858	0	0	0	0	1,858
<b>Siskiyou</b>						
<i>Agriculture</i>	201	0	0	0	0	201
<i>Commercial</i>	1,591	0	0	0	0	1,591
<i>Education</i>	76	0	0	0	0	76

		# of Buildings					
		None	Slight	Moderate	Extensive	Complete	Total
<b>Sutter</b>	<i>Government</i>	244	0	0	0	0	244
	<i>Industrial</i>	480	0	0	0	0	480
	<i>Religion</i>	127	0	0	0	0	127
	<i>Other Residential</i>	5,095	0	0	0	0	5,095
	<i>Single Family</i>	17,794	0	0	0	0	17,794
	<i>Agriculture</i>	1,125	0	0	0	0	1,125
	<i>Commercial</i>	2,052	0	0	0	0	2,052
	<i>Education</i>	62	0	0	0	0	62
	<i>Government</i>	77	0	0	0	0	77
	<i>Industrial</i>	636	0	0	0	0	636
<b>Tehama</b>	<i>Religion</i>	154	0	0	0	0	154
	<i>Other Residential</i>	3,112	1	0	0	0	3,113
	<i>Single Family</i>	24,512	0	0	0	0	24,512
	<i>Agriculture</i>	299	0	0	0	0	299
	<i>Commercial</i>	1,269	1	0	0	0	1,270
	<i>Education</i>	57	0	0	0	0	57
	<i>Government</i>	50	0	0	0	0	50
	<i>Industrial</i>	552	0	0	0	0	552
	<i>Religion</i>	110	0	0	0	0	110
	<i>Other Residential</i>	3,984	7	0	0	0	3,991
<b>Yuba</b>	<i>Single Family</i>	21,219	3	0	0	0	21,222
	<i>Agriculture</i>	92	0	0	0	0	92

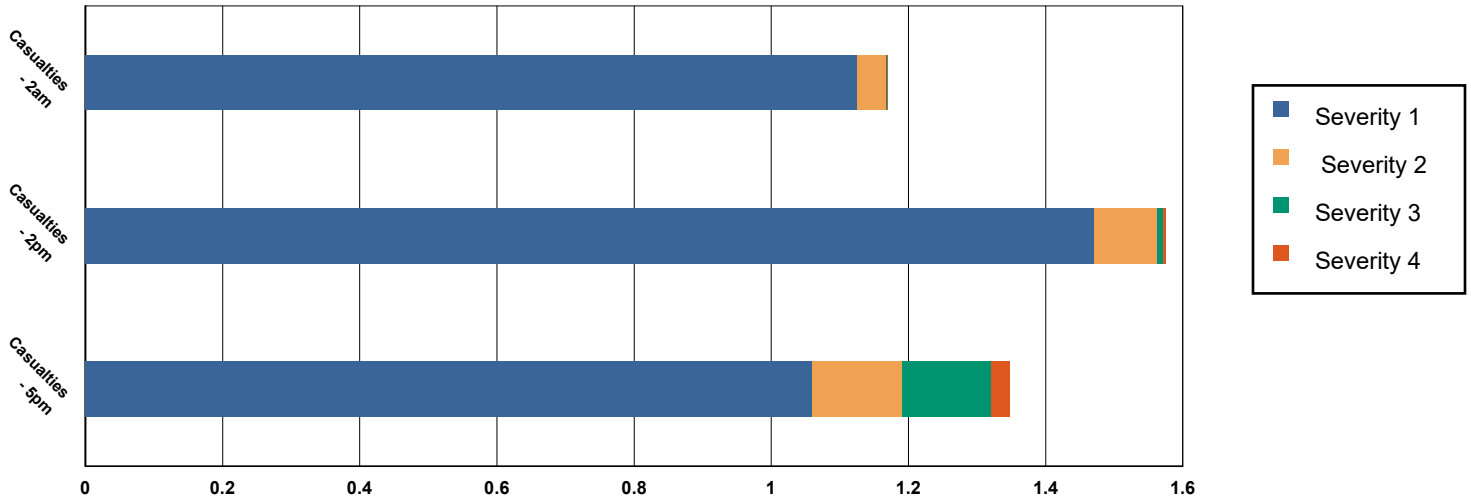
	# of Buildings					Total
	None	Slight	Moderate	Extensive	Complete	
<i>Commercial</i>	1,199	0	0	0	0	1,199
<i>Education</i>	54	0	0	0	0	54
<i>Government</i>	591	0	0	0	0	591
<i>Industrial</i>	404	0	0	0	0	404
<i>Religion</i>	98	0	0	0	0	98
<i>Other Residential</i>	7,021	0	0	0	0	7,021
<i>Single Family</i>	18,867	0	0	0	0	18,867
<b>Total</b>	<b>546,665</b>	<b>1,648</b>	<b>138</b>	<b>4</b>	<b>0</b>	<b>548,455</b>
<b>Region Total</b>	<b>546,665</b>	<b>1,648</b>	<b>138</b>	<b>4</b>	<b>0</b>	<b>548,455</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 02, 2024

### Region Total Casualties



### Injury Severity Level

Severity 1      Severity 2      Severity 3      Severity 4      Total

**California**

**Butte**

#### Casualties - 2am

	Severity 1	Severity 2	Severity 3	Severity 4	Total
<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

#### Total Casualties - 2am

0      0      0      0      0

#### Casualties - 2pm

	Severity 1	Severity 2	Severity 3	Severity 4	Total
<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>Butte</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>Colusa</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>Glenn</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>Glenn</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>Lassen</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>Lassen</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>Modoc</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>Nevada</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>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

	Injury Severity Level				Total
	Severity 1	Severity 2	Severity 3	Severity 4	
<b>California</b>					
<b>Placer</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>Plumas</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>	1	0	0	0	1
<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
<i>Commercial</i>	1	0	0	0	1
<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>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</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>Plumas</b>					
<b>Total Casualties - 5pm</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>
<b>Shasta</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>Sierra</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

	Injury Severity Level				Total
	Severity 1	Severity 2	Severity 3	Severity 4	
<b>California</b>					
<b>Sierra</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>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>Siskiyou</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>Siskiyou</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>Sutter</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>Tehama</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>Tehama</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>Yuba</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

	Injury Severity Level				
	Severity 1	Severity 2	Severity 3	Severity 4	Total
<b>California</b>					
<b>Yuba</b>					
<b>Casualties - 5pm</b>					
<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 02, 2024

All values are in thousands of tons.

	Brick, Wood & Others	Concrete & Steel	Total
<b>California</b>			
Butte	0	0	0
Colusa	0	0	0
Glenn	0	0	0
Lassen	0	0	0
Modoc	0	0	0
Nevada	0	0	0
Placer	0	0	0
Plumas	2	2	4
Shasta	0	0	0
Sierra	0	0	0
Siskiyou	0	0	0
Sutter	0	0	0
Tehama	0	0	0
Yuba	0	0	0
<b>Total</b>	<b>3</b>	<b>2</b>	<b>5</b>
<b>Region Total</b>	<b>3</b>	<b>2</b>	<b>5</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 2, 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>										
Colusa	1	12	8	2	0.00	0	0	0	0	23
Shasta	110	2,056	1,275	273	0.01	15	27	21	16	3,793
Siskiyou	0	1	1	0	0.00	0	0	0	0	1
Tehama	24	584	375	57	0.00	3	2	2	3	1,051
Plumas	4,748	39,667	18,543	358	0.53	1,430	1,086	876	1,380	68,087
Butte	83	1,618	1,056	133	0.00	11	14	16	18	2,950
Nevada	0	2	1	0	0.00	0	0	0	0	3
Yuba	0	19	13	2	0.00	0	0	0	0	35
Glenn	17	214	149	45	0.00	1	2	2	2	432

	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	
Lassen	240	3,425	1,919	121	0.06	58	128	100	81	6,072
Sutter	7	220	144	28	0.00	1	1	1	1	403
Placer	0	0	0	0	0.00	0	0	0	0	1
Modoc	0	4	3	1	0.00	0	0	0	0	7
Sierra	0	5	4	0	0.00	0	0	0	0	10
<b>Total</b>	<b>5,230</b>	<b>47,827</b>	<b>23,491</b>	<b>1,020</b>	<b>0.04</b>	<b>1,520</b>	<b>1,259</b>	<b>1,018</b>	<b>1,502</b>	<b>82,868</b>
<b>Region Total</b>	<b>5,230</b>	<b>47,827</b>	<b>23,491</b>	<b>1,020</b>	<b>0.04</b>	<b>1,520</b>	<b>1,259</b>	<b>1,018</b>	<b>1,502</b>	<b>82,868</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 02, 2024

All values are in thousands of dollars

	Highway	Railway	Light Rail	Bus Facility	Ports	Ferries	Airport	Total
<b>California</b>								
<b>Butte</b>								
Segments	0	0	0					0
Bridges	1	0	0					1
Tunnels	0	0	0					0
Facilities		26	0	0	0	0	231	256
<b>Total</b>	<b>1</b>	<b>26</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>231</b>	<b>257</b>
<b>Colusa</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>Glenn</b>								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		0	0	0	37	0	102	139

	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>37</b>	<b>0</b>	<b>102</b>	<b>139</b>
<b>Lassen</b>								
Segments	0	0	0					0
Bridges	1	3	0					4
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	639	639
<b>Total</b>	<b>1</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>639</b>	<b>643</b>
<b>Modoc</b>								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	68	68
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>68</b>	<b>68</b>
<b>Nevada</b>								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		3	0	0	0	0	11	14
<b>Total</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>14</b>
<b>Placer</b>								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		3	0	0	0	0	6	9

	Highway	Railway	Light Rail	Bus Facility	Ports	Ferries	Airport	Total
<b>Total</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>9</b>
<b>Plumas</b>								
Segments	0	0	0					0
Bridges	542	829	0					1,371
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	4,111	4,111
<b>Total</b>	<b>542</b>	<b>829</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,111</b>	<b>5,482</b>
<b>Shasta</b>								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		26	0	22	0	0	229	277
<b>Total</b>	<b>0</b>	<b>26</b>	<b>0</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>229</b>	<b>277</b>
<b>Sierra</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>Siskiyou</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>Sutter</b>								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	129	129
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>129</b>	<b>129</b>
<b>Tehama</b>								
Segments	0	0	0					0
Bridges	4	0	0					4
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	102	102
<b>Total</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>102</b>	<b>106</b>
<b>Yuba</b>								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		0	0	2	0	0	6	8
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>8</b>
<b>Total</b>	<b>549</b>	<b>893</b>	<b>0</b>	<b>27</b>	<b>37</b>	<b>0</b>	<b>5,701</b>	<b>7,206</b>
<b>Region Total</b>	<b>549</b>	<b>893</b>	<b>0</b>	<b>27</b>	<b>37</b>	<b>0</b>	<b>5,701</b>	<b>7,206</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 02, 2024

All values are in thousands of dollars

	Potable Water	Waste Water	Oil Systems	Natural Gas	Electric Power	Communication	Total
<b>California</b>							
<b>Butte</b>							
Facilities	28	492	0	0	47,559	3	48,082
Pipelines	69	34	0	0			103
<b>Total</b>	<b>97</b>	<b>526</b>	<b>0</b>	<b>0</b>	<b>47,559</b>	<b>3</b>	<b>48,185</b>
<b>Colusa</b>							
Facilities	0	8	0	3	339	0	349
Pipelines	12	6	0	0			18
<b>Total</b>	<b>12</b>	<b>14</b>	<b>0</b>	<b>3</b>	<b>339</b>	<b>0</b>	<b>368</b>
<b>Glenn</b>							
Facilities	0	123	0	0	2	0	125
Pipelines	27	14	0	0			41
<b>Total</b>	<b>27</b>	<b>137</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>166</b>
<b>Lassen</b>							
Facilities	0	1,524	0	0	11,515	3	13,043

	Potable Water	Waste Water	Oil Systems	Natural Gas	Electric Power	Communication	Total
<i>Pipelines</i>	234	117	0	0			351
<b>Total</b>	234	1,642	0	0	11,515	3	13,394
<b>Modoc</b>							
<i>Facilities</i>	0	3	0	0	0	0	3
<i>Pipelines</i>	27	14	0	0			41
<b>Total</b>	27	16	0	0	0	0	44
<b>Nevada</b>							
<i>Facilities</i>	0	13	0	0	140	0	153
<i>Pipelines</i>	15	8	0	0			23
<b>Total</b>	15	21	0	0	140	0	176
<b>Placer</b>							
<i>Facilities</i>	0	0	0	0	57	0	57
<i>Pipelines</i>	9	4	0	0			13
<b>Total</b>	9	4	0	0	57	0	70
<b>Plumas</b>							
<i>Facilities</i>	28	37,559	0	0	568,003	29	605,618
<i>Pipelines</i>	785	394	0	0			1,179
<b>Total</b>	813	37,953	0	0	568,003	29	606,797
<b>Shasta</b>							
<i>Facilities</i>	29	863	0	75	39,342	2	40,311
<i>Pipelines</i>	112	56	0	0			168

	Potable Water	Waste Water	Oil Systems	Natural Gas	Electric Power	Communication	Total
<b>Total</b>	141	919	0	75	39,342	2	40,479
<b>Sierra</b>							
<i>Facilities</i>	0	0	0	0	551	0	551
<i>Pipelines</i>	14	7	0	0			22
<b>Total</b>	14	7	0	0	551	0	573
<b>Siskiyou</b>							
<i>Facilities</i>	0	3	0	0	5	0	7
<i>Pipelines</i>	31	15	0	0			46
<b>Total</b>	31	18	0	0	5	0	54
<b>Sutter</b>							
<i>Facilities</i>	0	126	0	0	757	0	883
<i>Pipelines</i>	20	10	0	0			31
<b>Total</b>	20	136	0	0	757	0	914
<b>Tehama</b>							
<i>Facilities</i>	0	1,770	0	75	630	1	2,476
<i>Pipelines</i>	81	41	0	0			122
<b>Total</b>	81	1,811	0	75	630	1	2,598
<b>Yuba</b>							
<i>Facilities</i>	0	5	0	0	792	0	797
<i>Pipelines</i>	10	5	0	0			14
<b>Total</b>	10	10	0	0	792	0	812

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	Potable Water	Waste Water	Oil Systems	Natural Gas	Electric Power	Communication	Total
<b>Total</b>	1,531	43,214	0	152	669,693	38	714,629
<b>Region Total</b>	1,531	43,214	0	152	669,693	38	714,629

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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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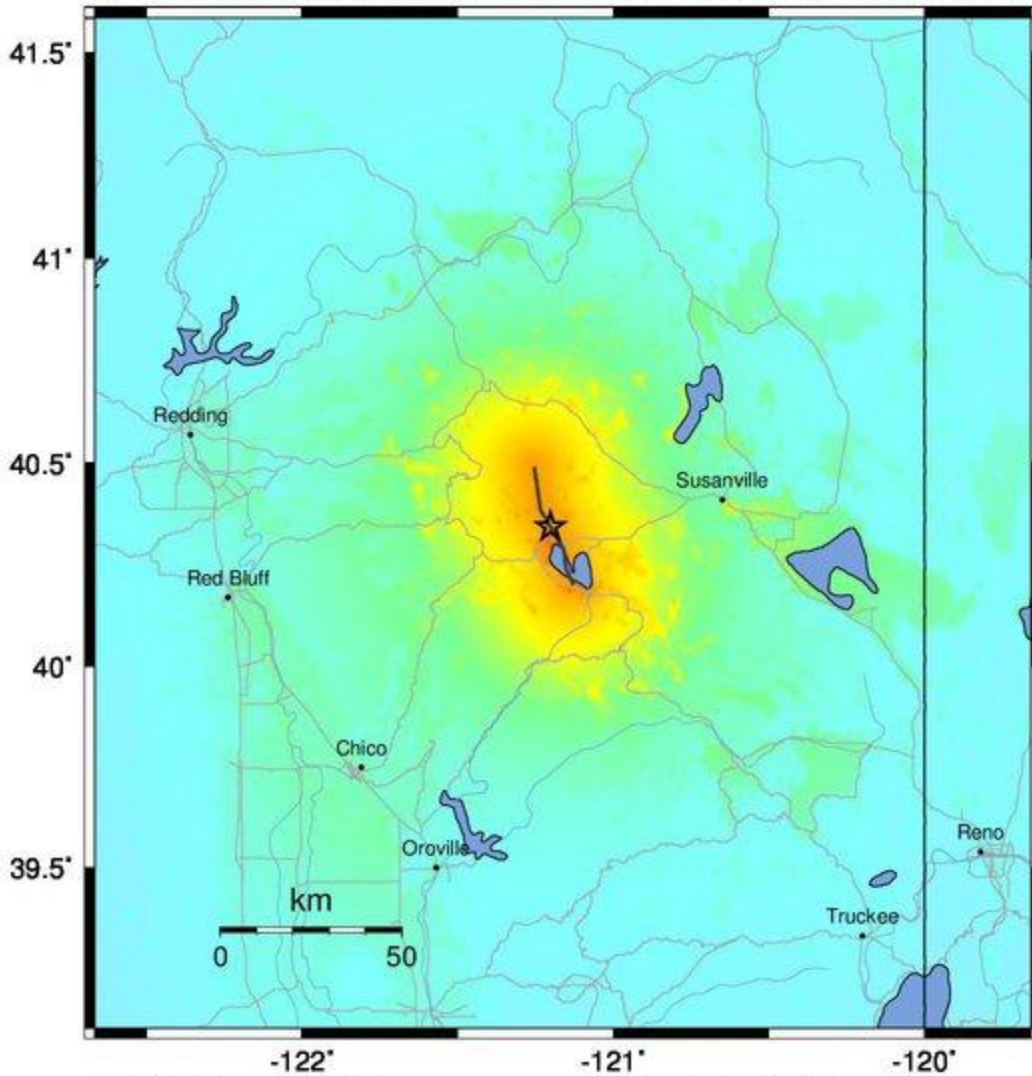
## Shelter Summary Report

May 02, 2024

	# of Displaced Households	# of People Needing Short Term Shelter
<b>California</b>		
Butte	0	0
Colusa	0	0
Glenn	0	0
Lassen	0	0
Modoc	0	0
Nevada	0	0
Placer	0	0
Plumas	1	0
Shasta	0	0
Sierra	0	0
Siskiyou	0	0
Sutter	0	0
Tehama	0	0
Yuba	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.

-- Earthquake Planning Scenario --  
**ShakeMap for Almanor - Median ground motions Scenario**  
 Scenario Date: May 16, 2017 08:32:06 AM MDT M 6.7 N40.34 W121.20 Depth: 6.4km



PLANNING SCENARIO ONLY -- Map Version 14 Processed 2017-05-16 12:55:21 PM MDT

PERCEIVED SHAKING	Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	none	none	none	Very light	Light	Moderate	Mod./Heavy	Heavy	Very Heavy
PEAK ACC.(%g)	<0.05	0.3	2.8	6.2	12	22	40	75	>139
PEAK VEL.(cm/s)	<0.02	0.1	1.4	4.7	9.6	20	41	86	>178
INSTRUMENTAL INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+

Scale based upon Worden et al. (2012)