
Hazus: Earthquake Global Risk Report

Region Name: cedarmtnmahoganynt

Earthquake Scenario: cedarmtnmahoganymnts_m7p13_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 9 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 32,621.54 square miles and contains 147 census tracts. There are over 212 thousand households in the region which has a total population of 533,598 people. The distribution of population by Total Region and County is provided in Appendix B.

There are an estimated 243 thousand buildings in the region with a total building replacement value (excluding contents) of 117,695 (millions of dollars). Approximately 90.00 % of the buildings (and 63.00% of the building value) are associated with residential housing.

The replacement value of the transportation and utility lifeline systems is estimated to be 29,501 and 39,518 (millions of dollars) , respectively.

Building and Lifeline Inventory

Building Inventory

Hazus estimates that there are 243 thousand buildings in the region which have an aggregate total replacement value of 117,695 (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 80% 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 27 hospitals in the region with a total bed capacity of 1,538 beds. There are 409 schools, 285 fire stations, 63 police stations and 9 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 69,019.00 (millions of dollars). This inventory includes over 2,672.52 miles of highways, 2,389 bridges, 91,264.49 miles of pipes.

Table 1: Transportation System Lifeline Inventory

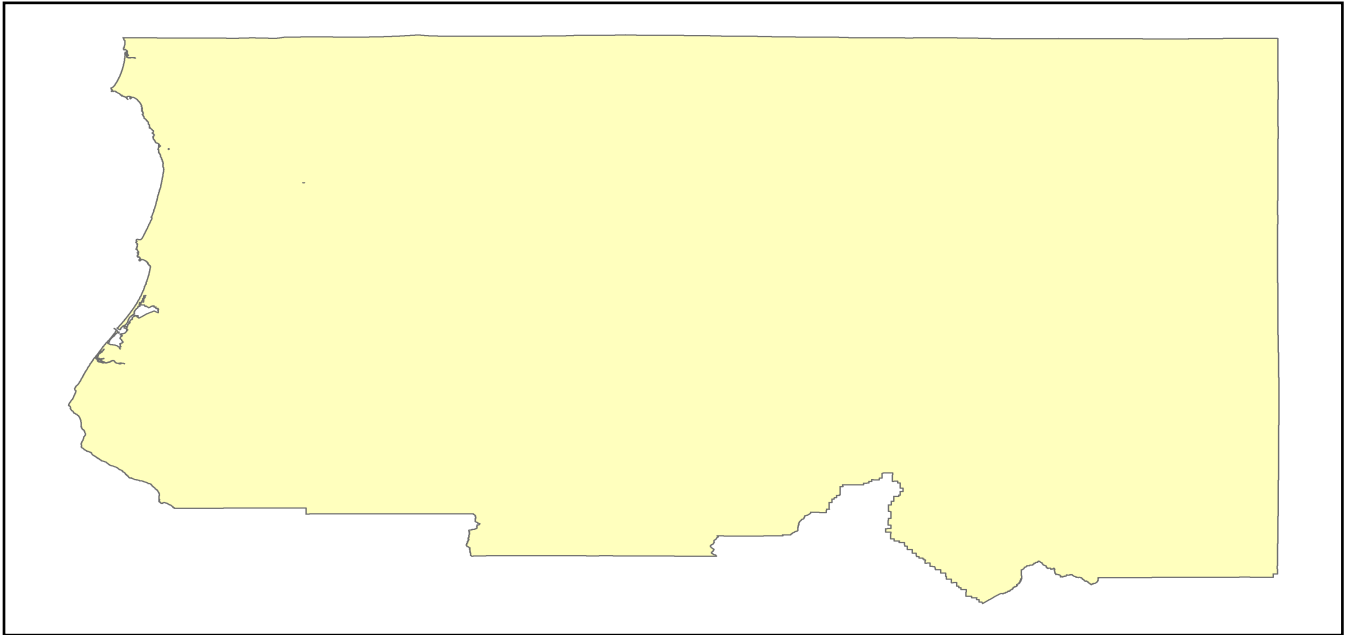
System	Component	# Locations/ # Segments	Replacement value (millions of dollars)
Highway	Bridges	2,389	5476.6966
	Segments	569	17386.2166
	Tunnels	3	40.8928
	Subtotal		22903.8060
Railways	Bridges	407	2315.8300
	Facilities	2	5.3260
	Segments	572	3654.9101
	Tunnels	0	0.0000
	Subtotal		5976.0661
Light Rail	Bridges	0	0.0000
	Facilities	0	0.0000
	Segments	0	0.0000
	Tunnels	0	0.0000
	Subtotal		0.0000
Bus	Facilities	5	11.3696
	Subtotal		11.3696
Ferry	Facilities	0	0.0000
	Subtotal		0.0000
Port	Facilities	23	87.6724
	Subtotal		87.6724
Airport	Facilities	48	265.3422
	Runways	49	256.8561
	Subtotal		522.1983
		Total	29,501.10

Table 2: Utility System Lifeline Inventory

System	Component	# Locations / Segments	Replacement value (millions of dollars)
Potable Water	Distribution Lines	NA	1823.0433
	Facilities	3	117.8820
	Pipelines	0	0.0000
		Subtotal	1940.9253
Waste Water	Distribution Lines	NA	1093.8260
	Facilities	31	5330.5058
	Pipelines	0	0.0000
		Subtotal	6424.3318
Natural Gas	Distribution Lines	NA	729.2173
	Facilities	3	123.7305
	Pipelines	95	3639.6392
		Subtotal	4492.5870
Oil Systems	Facilities	0	0.0000
	Pipelines	0	0.0000
		Subtotal	0.0000
Electrical Power	Facilities	65	26651.9727
		Subtotal	26651.9727
Communication	Facilities	76	8.9680
		Subtotal	8.9680
	Total		39,518.80

Earthquake Scenario

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



Scenario Name	cedarmtnmahoganymtns_m7p13_se
Type of Earthquake	User-defined
Fault Name	NA
Historical Epicenter ID #	NA
Probabilistic Return Period	NA
Longitude of Epicenter	NA
Latitude of Epicenter	NA
Earthquake Magnitude	7.13
Depth (km)	NA
Rupture Length (Km)	NA
Rupture Orientation (degrees)	NA
Attenuation Function	NA

Direct Earthquake Damage

Building Damage

Hazus estimates that about 254 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

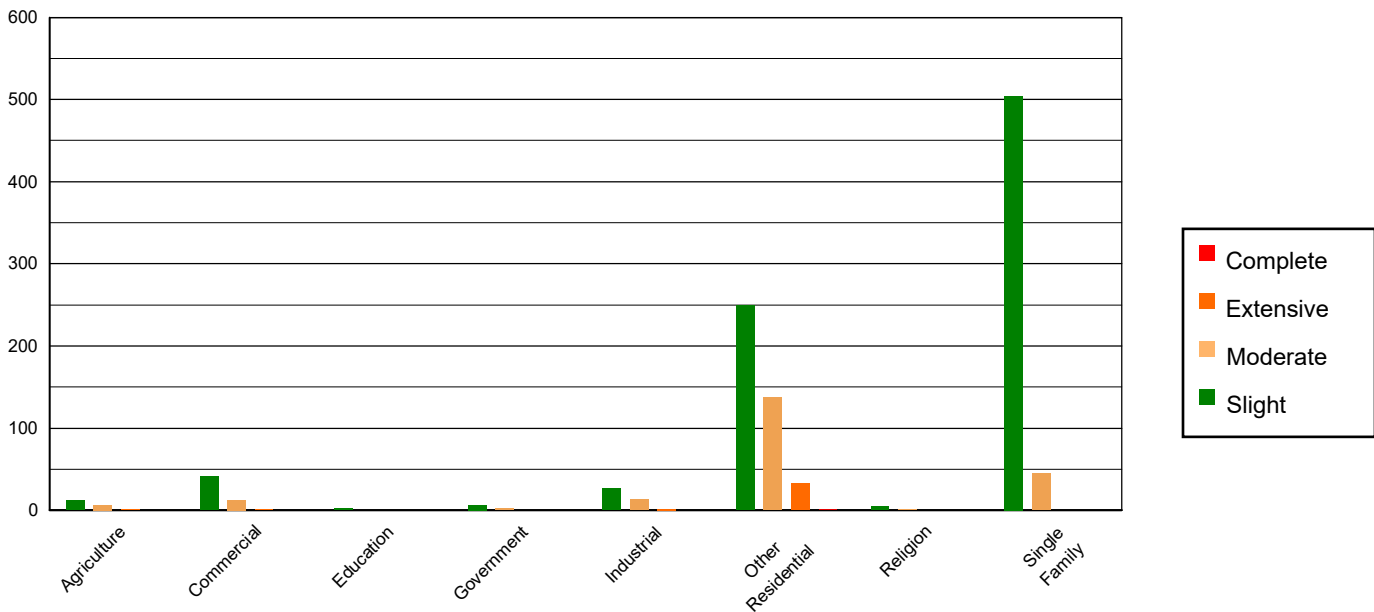


Table 3: Expected Building Damage by Occupancy

	None		Slight		Moderate		Extensive		Complete	
	Count	(%)	Count	(%)	Count	(%)	Count	(%)	Count	(%)
Agriculture	4574.54	1.89	11.89	1.40	5.98	2.75	0.58	1.60	0.01	0.93
Commercial	15572.63	6.44	41.09	4.85	12.35	5.69	0.92	2.53	0.01	1.29
Education	536.15	0.22	2.41	0.28	0.43	0.20	0.01	0.01	0.00	0.00
Government	567.66	0.23	6.59	0.78	2.62	1.21	0.14	0.38	0.00	0.03
Industrial	3287.05	1.36	26.88	3.17	13.57	6.25	1.49	4.07	0.02	2.63
Other Residential	52541.39	21.72	249.04	29.39	136.92	63.06	33.09	90.68	0.55	95.06
Religion	592.81	0.25	5.01	0.59	1.14	0.52	0.04	0.11	0.00	0.05
Single Family	164231.28	67.89	504.37	59.53	44.12	20.32	0.22	0.61	0.00	0.00
Total	241,904		847		217		36		1	

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

	None		Slight		Moderate		Extensive		Complete	
	Count	(%)	Count	(%)	Count	(%)	Count	(%)	Count	(%)
Wood	194541.91	80.42	591.26	69.78	54.29	25.00	0.28	0.77	0.00	0.00
Steel	5739.61	2.37	27.42	3.24	19.76	9.10	2.81	7.71	0.03	5.25
Concrete	5720.03	2.36	25.20	2.97	7.65	3.52	0.77	2.10	0.11	18.55
Precast	3661.59	1.51	12.95	1.53	4.55	2.09	0.19	0.52	0.00	0.24
RM	7660.69	3.17	18.66	2.20	7.67	3.53	0.30	0.82	0.00	0.00
URM	662.06	0.27	3.13	0.37	0.57	0.26	0.03	0.10	0.00	0.11
MH	23917.62	9.89	168.66	19.91	122.65	56.49	32.11	87.99	0.44	75.86
Total	241,904		847		217		36		1	

*Note:

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

Essential Facility Damage

Before the earthquake, the region had 1,538 hospital beds available for use. On the day of the earthquake, the model estimates that only 1,533 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	27	0	0	27
Schools	409	4	0	404
EOCs	9	0	0	9
PoliceStations	63	1	0	62
FireStations	285	2	0	280

Transportation Lifeline Damage

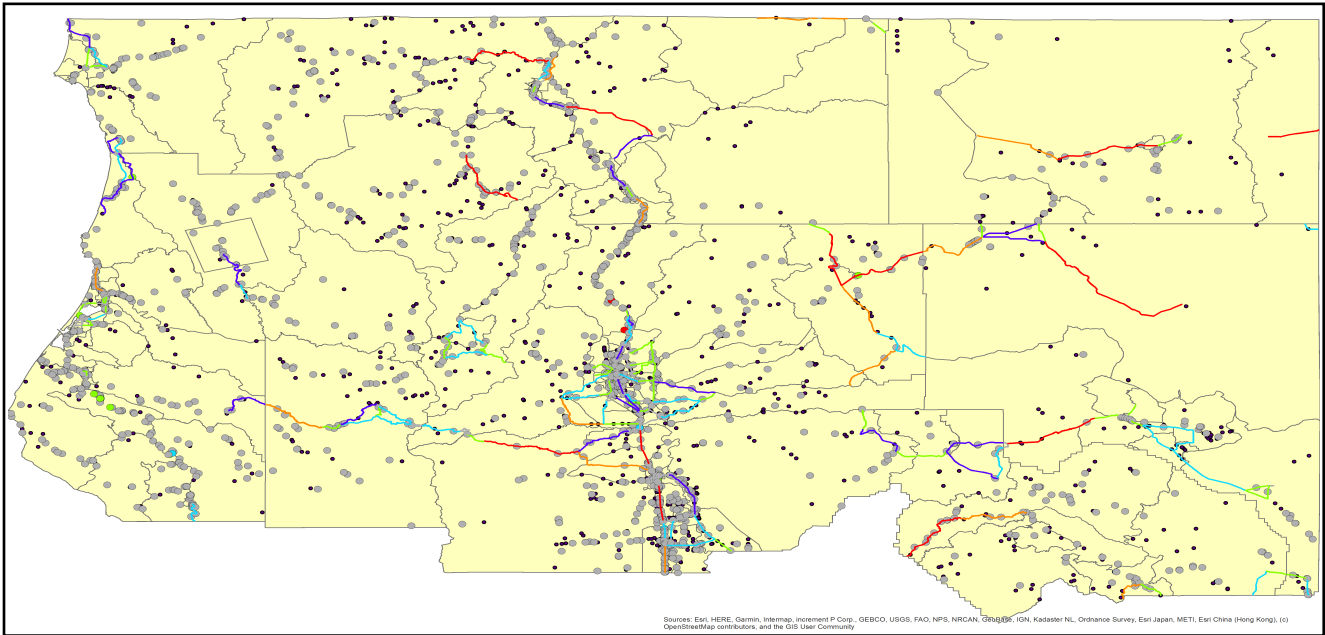


Table 6: Expected Damage to the Transportation Systems

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	569	0	0	569	569
	Bridges	2,389	0	0	2,389	2,389
	Tunnels	3	0	0	3	3
Railways	Segments	572	0	0	572	572
	Bridges	407	0	0	407	407
	Tunnels	0	0	0	0	0
	Facilities	2	0	0	2	2
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	5	0	0	5	5
Ferry	Facilities	0	0	0	0	0
Port	Facilities	23	0	0	23	23
Airport	Facilities	48	0	0	48	48
	Runways	49	0	0	49	49

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	3	0	0	3	3
Waste Water	31	0	0	31	31
Natural Gas	3	0	0	3	3
Oil Systems	0	0	0	0	0
Electrical Power	65	0	0	65	65
Communication	76	0	0	76	76

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

System	Total Pipelines Length (miles)	Number of Leaks	Number of Breaks
Potable Water	56,639	594	149
Waste Water	33,984	298	75
Natural Gas	642	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	212,320	7	0	0	0	0
Electric Power		466	239	69	3	1

Induced Earthquake Damage

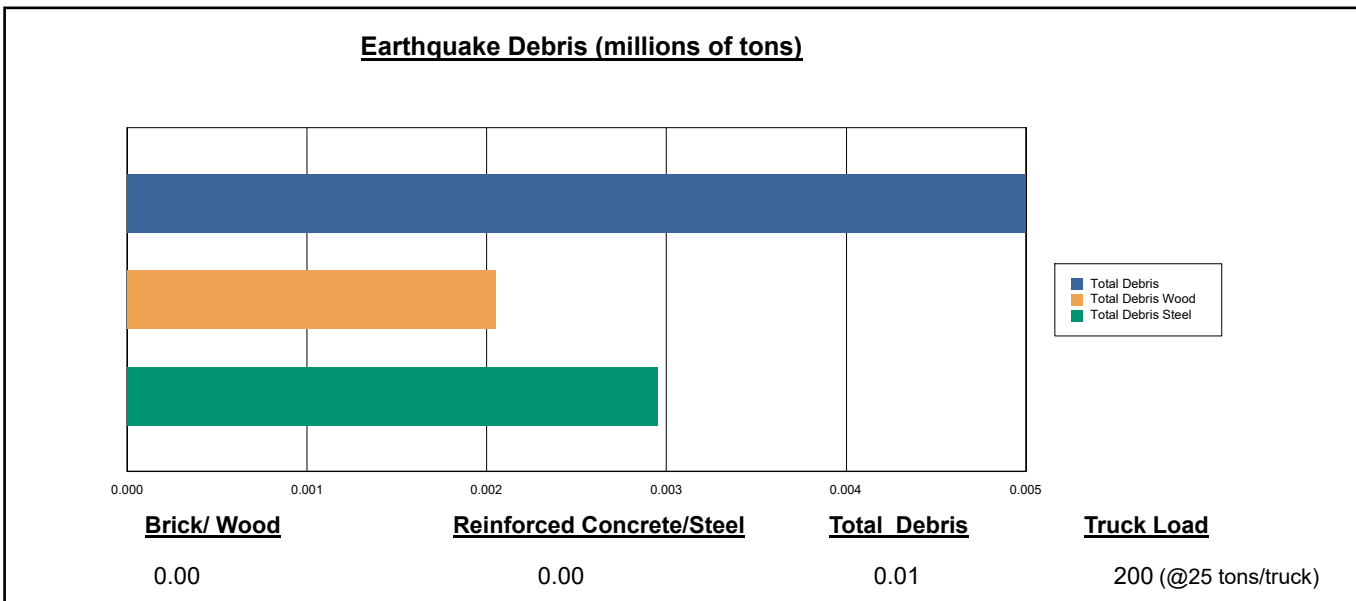
Fire Following Earthquake

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.

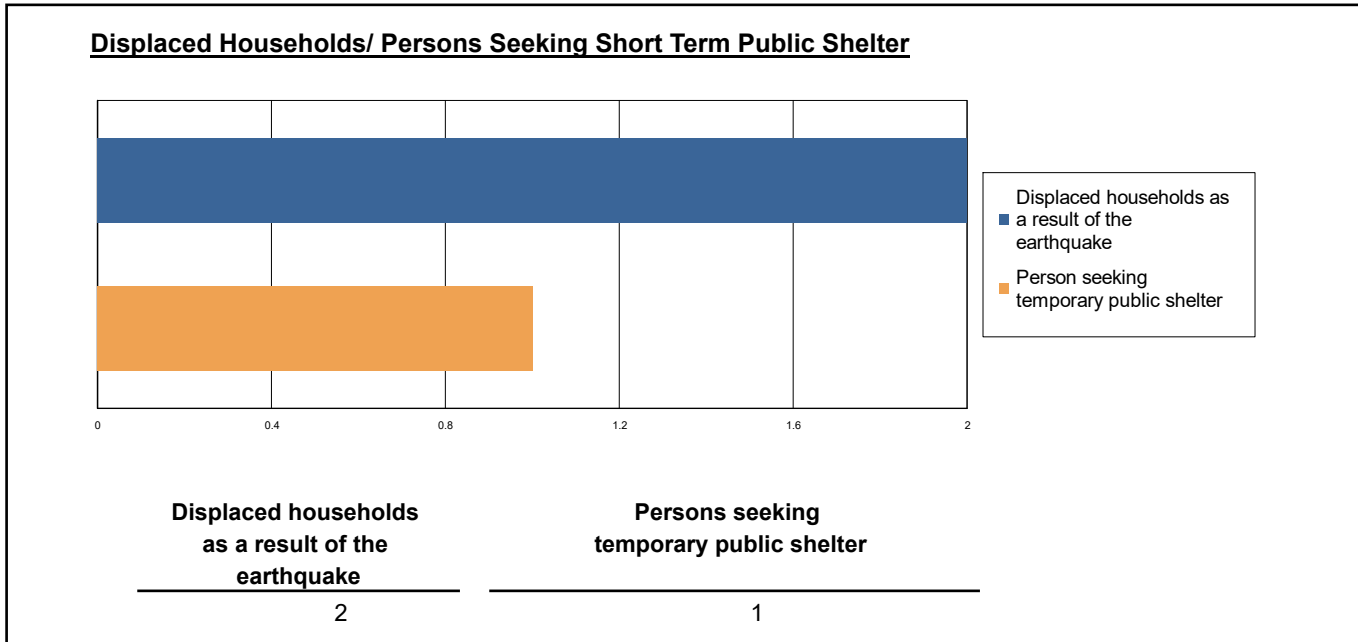
The model estimates that a total of 5,000 tons of debris will be generated. Of the total amount, Brick/Wood comprises 41.00% of the total, with the remainder being Reinforced Concrete/Steel. If the debris tonnage is converted to an estimated number of truckloads, it will require 200 truckloads (@25 tons/truck) 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 2 households to be displaced due to the earthquake. Of these, 1 people (out of a total population of 533,598) 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
2 AM	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	0.03	0.00	0.00	0.00
	Other-Residential	1.65	0.17	0.01	0.01
	Single Family	0.66	0.02	0.00	0.00
	Total	2	0	0	0
2 PM	Commercial	1.04	0.09	0.00	0.00
	Commuting	0.00	0.00	0.00	0.00
	Educational	0.25	0.02	0.00	0.00
	Hotels	0.00	0.00	0.00	0.00
	Industrial	0.21	0.02	0.00	0.00
	Other-Residential	0.62	0.06	0.00	0.00
	Single Family	0.25	0.01	0.00	0.00
	Total	2	0	0	0
5 PM	Commercial	0.69	0.06	0.00	0.00
	Commuting	0.01	0.02	0.03	0.01
	Educational	0.00	0.00	0.00	0.00
	Hotels	0.00	0.00	0.00	0.00
	Industrial	0.13	0.01	0.00	0.00
	Other-Residential	0.59	0.06	0.00	0.00
	Single Family	0.24	0.01	0.00	0.00
	Total	2	0	0	0

Economic Loss

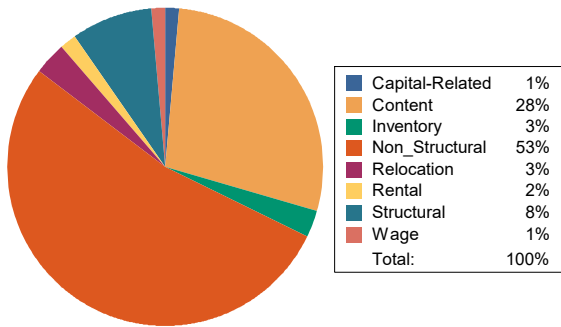
The total economic loss estimated for the earthquake is 247.53 (millions of dollars), which includes building and lifeline related losses based on the region's available inventory. The following three sections provide more detailed information about these losses.

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 57.00 (millions of dollars); 8 % 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 41 % 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)

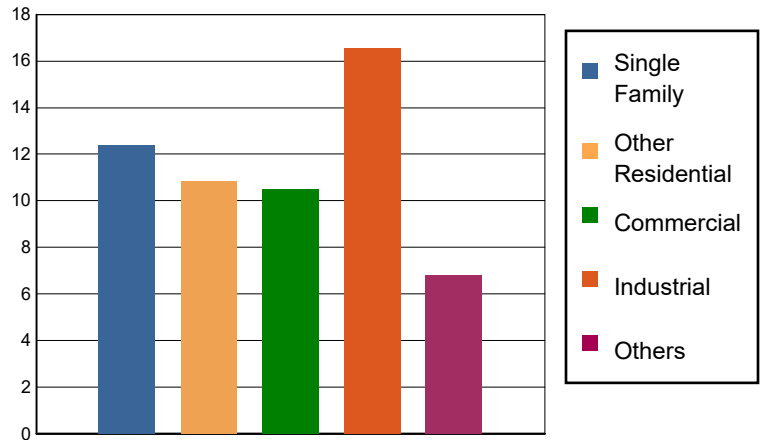


Table 11: Building-Related Economic Loss Estimates
(Millions of dollars)

Category	Area	Single Family	Other Residential	Commercial	Industrial	Others	Total
Income Losses							
	Wage	0.0000	0.0206	0.4110	0.2343	0.1313	0.7972
	Capital-Related	0.0000	0.0087	0.5665	0.1416	0.0169	0.7337
	Rental	0.1034	0.3517	0.3216	0.1129	0.0724	0.9620
	Relocation	0.2988	0.5821	0.3301	0.3100	0.2953	1.8163
	Subtotal	0.4022	0.9631	1.6292	0.7988	0.5159	4.3092
Capital Stock Losses							
	Structural	0.9575	1.1871	0.5860	1.3428	0.7371	4.8105
	Non_Structural	7.5705	6.9432	4.9021	7.7216	3.1308	30.2682
	Content	3.4316	1.7449	3.1002	5.7951	1.8997	15.9715
	Inventory	0.0000	0.0000	0.2624	0.8652	0.5101	1.6377
	Subtotal	11.9596	9.8752	8.8507	15.7247	6.2777	52.6879
	Total	12.36	10.84	10.48	16.52	6.79	57.00

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	17386.2166	0.0000	0.00
	Bridges	5476.6966	0.0698	0.00
	Tunnels	40.8928	0.0000	0.00
	Subtotal	22903.8060	0.0698	
Railways	Segments	3654.9101	0.0000	0.00
	Bridges	2315.8300	0.4724	0.02
	Tunnels	0.0000	0.0000	0.00
	Facilities	5.3260	0.1349	2.53
	Subtotal	5976.0661	0.6073	
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
	Subtotal	0.0000	0.0000	
Bus	Facilities	11.3696	0.1229	1.08
	Subtotal	11.3696	0.1229	
Ferry	Facilities	0.0000	0.0000	0.00
	Subtotal	0.0000	0.0000	
Port	Facilities	87.6724	0.0367	0.04
	Subtotal	87.6724	0.0367	
Airport	Facilities	265.3422	3.8001	1.43
	Runways	256.8561	0.0000	0.00
	Subtotal	522.1983	3.8001	
Total		29,501.11	4.64	

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	117.8820	0.0562	0.05
	Distribution Lines	1823.0433	2.6734	0.15
	Subtotal	1940.9253	2.7296	
Waste Water	Pipelines	0.0000	0.0000	0.00
	Facilities	5330.5058	8.4807	0.16
	Distribution Lines	1093.8260	1.3429	0.12
	Subtotal	6424.3318	9.8236	
Natural Gas	Pipelines	3639.6392	0.0000	0.00
	Facilities	123.7305	0.7356	0.59
	Distribution Lines	729.2173	0.4601	0.06
	Subtotal	4492.5870	1.1957	
Oil Systems	Pipelines	0.0000	0.0000	0.00
	Facilities	0.0000	0.0000	0.00
	Subtotal	0.0000	0.0000	
Electrical Power	Facilities	26651.9727	172.1285	0.65
	Subtotal	26651.9727	172.1285	
Communication	Facilities	8.9680	0.0187	0.21
	Subtotal	8.9680	0.0187	
	Total	39,518.78	185.90	

Appendix A: County Listing for the Region

Del Norte,CA

Humboldt,CA

Lassen,CA

Modoc,CA

Plumas,CA

Shasta,CA

Siskiyou,CA

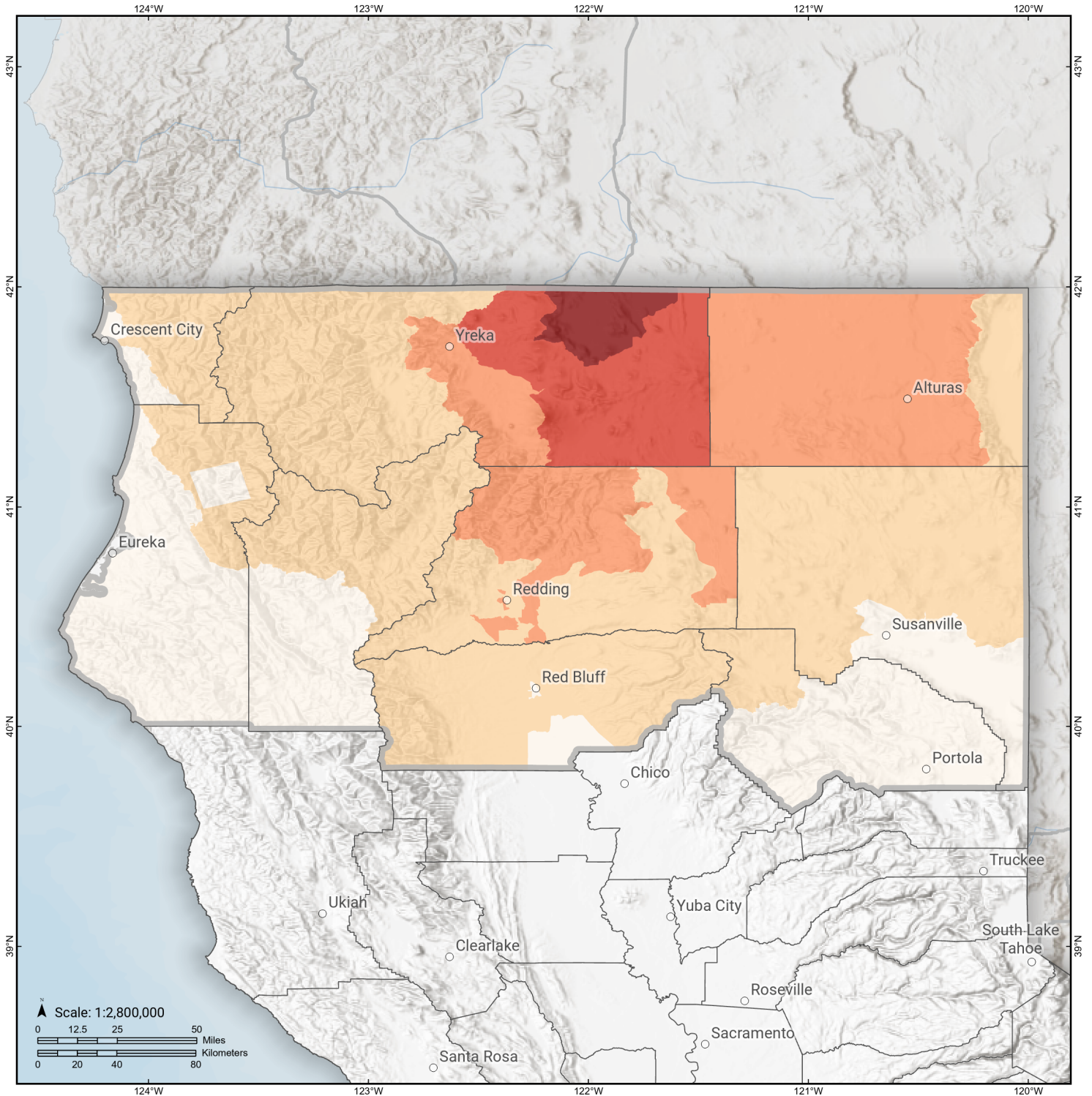
Tehama,CA

Trinity,CA

Appendix B: Regional Population and Building Value Data

State	County Name	Population	Building Value (millions of dollars)		
			Residential	Non-Residential	Total
California	Del Norte	27,743	5,004	1,876	6,881
	Humboldt	136,463	19,361	8,683	28,044
	Lassen	32,730	4,033	2,008	6,042
	Modoc	8,700	1,435	1,468	2,904
	Plumas	19,790	6,128	2,276	8,405
	Shasta	182,155	21,572	15,715	37,288
	Siskiyou	44,076	6,856	4,758	11,615
	Tehama	65,829	7,705	5,113	12,818
	Trinity	16,112	2,209	1,485	3,694
Total Region		533,598	74,303	43,382	117,691

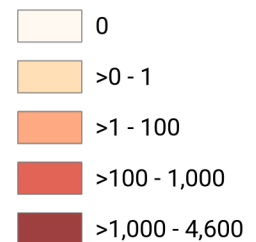
Cedar Mtn-Mahogany Mtn Debris Generated by Census Tract



Study Region: Cedar Mtn-Mahogany Mtn
Scenario: cedarmtnmahoganymnts_m7p13_se



Debris Generated (in tons)

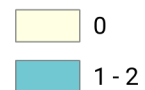


Cedar Mtn-Mahogany Mtn Displaced Households by Census Tract

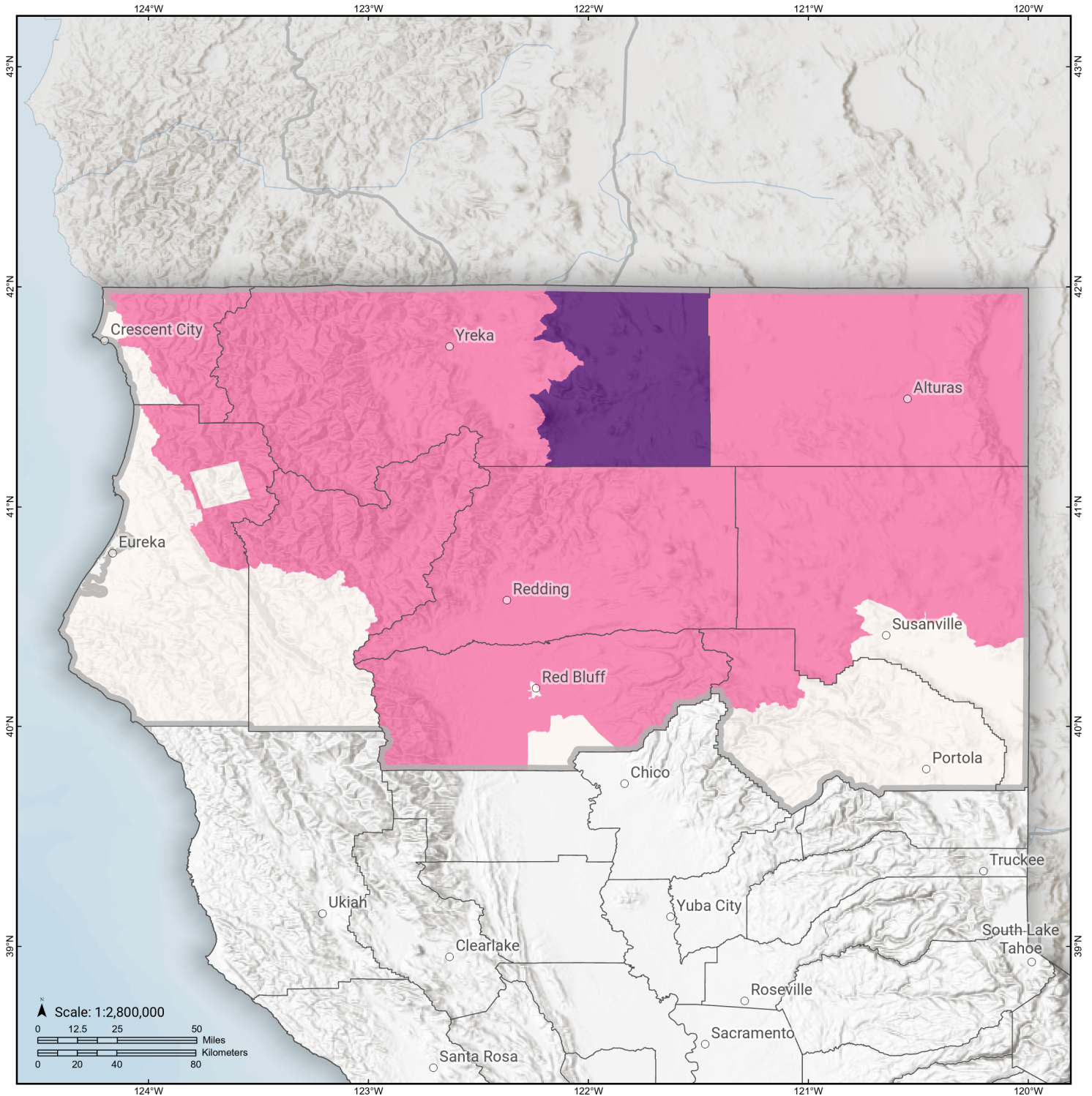


Study Region: Cedar Mtn-Mahogany Mtn
Scenario: cedarmtnmahoganymnts_m7p13_se

Displaced Households

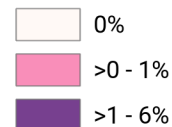


Cedar Mtn-Mahogany Mtn Loss Ratio by Census Tract



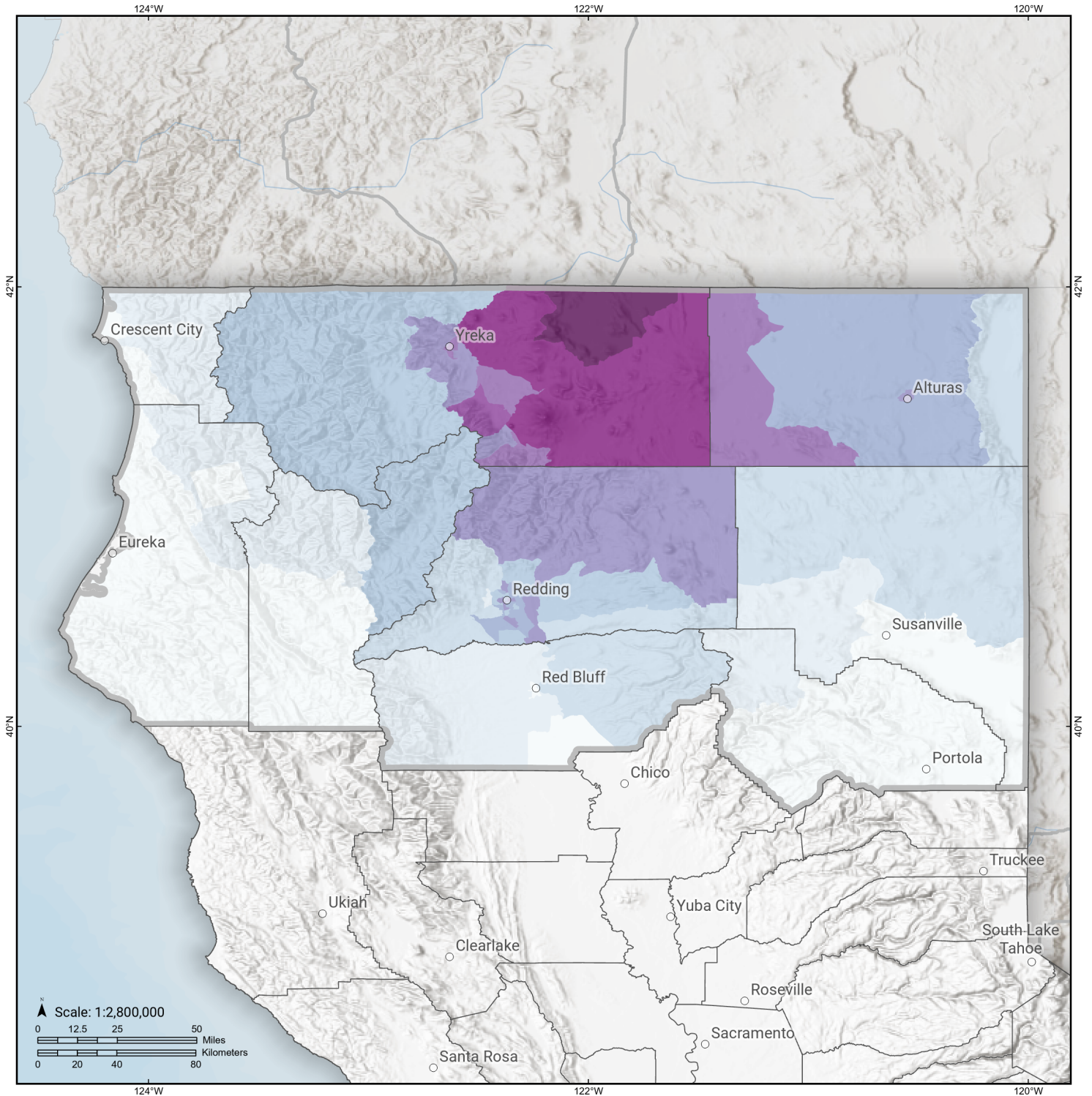
Study Region: Cedar Mtn-Mahogany Mtn
Scenario: cedarmtnmahoganymnts_m7p13_se

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



Cedar Mtn-Mahogany Mtn

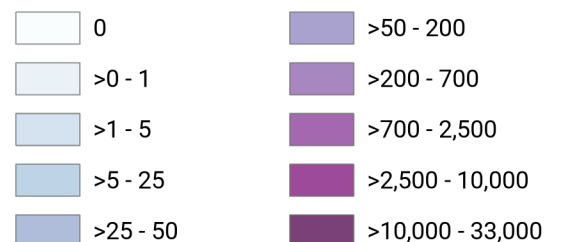
Total Building Related Economic Loss by Census Tract



Study Region: Cedar Mtn-Mahogany Mtn
Scenario: cedarmtnmahoganymnts_m7p13_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	
California						
Del Norte						
<i>Agriculture</i>	134	0	0	0	0	134
<i>Commercial</i>	729	0	0	0	0	729
<i>Education</i>	31	0	0	0	0	31
<i>Government</i>	18	0	0	0	0	18
<i>Industrial</i>	61	0	0	0	0	61
<i>Religion</i>	53	0	0	0	0	53
<i>Other Residential</i>	3,861	0	0	0	0	3,861
<i>Single Family</i>	6,117	0	0	0	0	6,117
Humboldt						
<i>Agriculture</i>	150	0	0	0	0	150
<i>Commercial</i>	3,118	0	0	0	0	3,118
<i>Education</i>	127	0	0	0	0	127
<i>Government</i>	87	0	0	0	0	87
<i>Industrial</i>	740	0	0	0	0	740
<i>Religion</i>	61	0	0	0	0	61
<i>Other Residential</i>	12,058	0	0	0	0	12,058
<i>Single Family</i>	38,359	0	0	0	0	38,359
Lassen						

	# of Buildings					Total
	None	Slight	Moderate	Extensive	Complete	
<i>Agriculture</i>	37	0	0	0	0	37
<i>Commercial</i>	913	0	0	0	0	913
<i>Education</i>	40	0	0	0	0	40
<i>Government</i>	22	0	0	0	0	22
<i>Industrial</i>	140	0	0	0	0	140
<i>Religion</i>	71	0	0	0	0	71
<i>Other Residential</i>	2,627	0	0	0	0	2,627
<i>Single Family</i>	9,562	0	0	0	0	9,562
Modoc						
<i>Agriculture</i>	448	1	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>	1,986	8	0	0	0	1,994
<i>Single Family</i>	3,739	1	0	0	0	3,740
Plumas						
<i>Agriculture</i>	84	0	0	0	0	84
<i>Commercial</i>	1,215	0	0	0	0	1,215
<i>Education</i>	26	0	0	0	0	26
<i>Government</i>	45	0	0	0	0	45
<i>Industrial</i>	184	0	0	0	0	184
<i>Religion</i>	30	0	0	0	0	30
<i>Other Residential</i>	5,032	0	0	0	0	5,032

		# of Buildings					
		None	Slight	Moderate	Extensive	Complete	Total
Shasta	<i>Single Family</i>	9,877	0	0	0	0	9,877
	<i>Agriculture</i>	3,234	1	0	0	0	3,235
	<i>Commercial</i>	5,253	1	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>	16,937	12	0	0	0	16,949
Siskiyou	<i>Single Family</i>	51,815	0	0	0	0	51,815
	<i>Agriculture</i>	185	10	6	1	0	201
	<i>Commercial</i>	1,538	40	12	1	0	1,591
	<i>Education</i>	73	2	0	0	0	76
	<i>Government</i>	235	7	3	0	0	244
	<i>Industrial</i>	439	26	14	1	0	480
	<i>Religion</i>	121	5	1	0	0	127
	<i>Other Residential</i>	4,696	229	137	33	1	5,095
Tehama	<i>Single Family</i>	17,247	503	44	0	0	17,794
	<i>Agriculture</i>	299	0	0	0	0	299
	<i>Commercial</i>	1,270	0	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

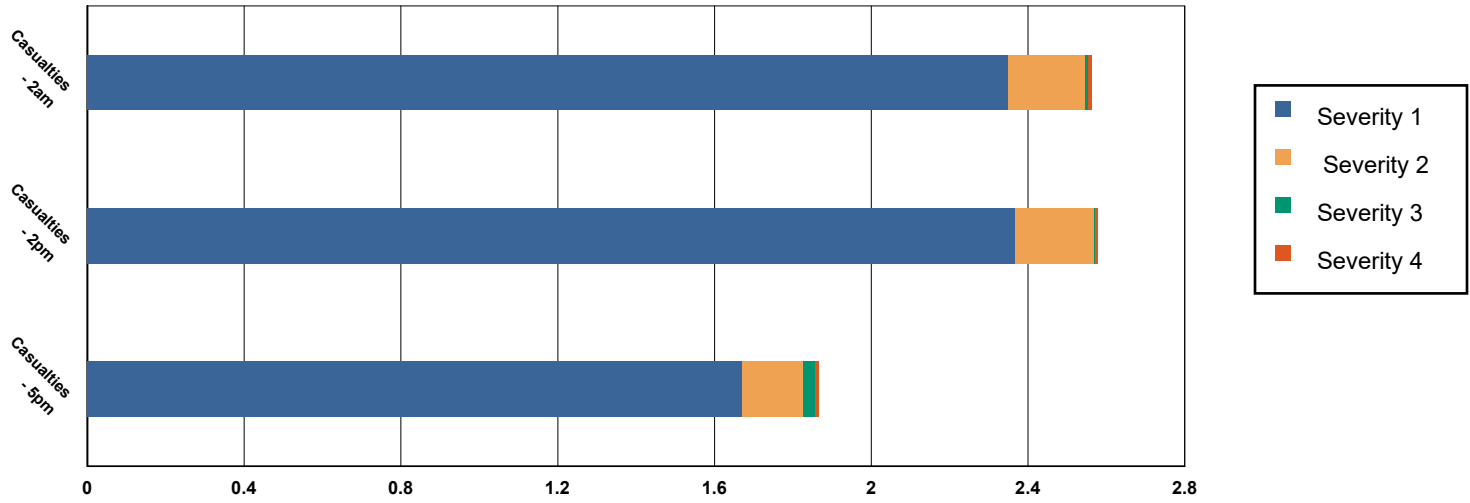
	# of Buildings					Total
	None	Slight	Moderate	Extensive	Complete	
<i>Religion</i>	110	0	0	0	0	110
<i>Other Residential</i>	3,991	0	0	0	0	3,991
<i>Single Family</i>	21,222	0	0	0	0	21,222
Trinity						
<i>Agriculture</i>	4	0	0	0	0	4
<i>Commercial</i>	1,005	0	0	0	0	1,005
<i>Education</i>	26	0	0	0	0	26
<i>Government</i>	8	0	0	0	0	8
<i>Industrial</i>	58	0	0	0	0	58
<i>Religion</i>	45	0	0	0	0	45
<i>Other Residential</i>	1,354	0	0	0	0	1,354
<i>Single Family</i>	6,294	0	0	0	0	6,294
Total	241,904	847	217	36	1	243,005
Region Total	241,904	847	217	36	1	243,005

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
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California

Del Norte

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	
California					
Del Norte					
Total Casualties - 2pm	0	0	0	0	0
Casualties - 5pm					
<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 - 5pm	0	0	0	0	0
Humboldt					
Casualties - 2am					
<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					
<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 - 2pm	0	0	0	0	0
Casualties - 5pm					
<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 - 5pm	0	0	0	0	0
Lassen					
Casualties - 2am					
<i>Commuting</i>	0	0	0	0	0

	Injury Severity Level				Total
	Severity 1	Severity 2	Severity 3	Severity 4	
California					
Lassen					
Casualties - 2am					
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					
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 - 2pm	0	0	0	0	0
Casualties - 5pm					
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 - 5pm	0	0	0	0	0
Modoc					
Casualties - 2am					
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					
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	
California					
Modoc					
Casualties - 2pm					
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0
Total Casualties - 2pm	0	0	0	0	0
Casualties - 5pm					
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 - 5pm	0	0	0	0	0
Plumas					
Casualties - 2am					
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					
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 - 2pm	0	0	0	0	0
Casualties - 5pm					
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 - 5pm	0	0	0	0	0

	Injury Severity Level				Total
	Severity 1	Severity 2	Severity 3	Severity 4	
California					
Shasta					
Casualties - 2am					
<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					
<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 - 2pm	0	0	0	0	0
Casualties - 5pm					
<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 - 5pm	0	0	0	0	0
Siskiyou					
Casualties - 2am					
<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>	2	0	0	0	2
<i>Single Family</i>	1	0	0	0	1
Total Casualties - 2am	2	0	0	0	3
Casualties - 2pm					
<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

	Injury Severity Level				Total
	Severity 1	Severity 2	Severity 3	Severity 4	
California					
Siskiyou					
Casualties - 2pm					
<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
Total Casualties - 2pm	2	0	0	0	3
Casualties - 5pm					
<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>	1	0	0	0	1
<i>Single Family</i>	0	0	0	0	0
Total Casualties - 5pm	2	0	0	0	2
Tehama					
Casualties - 2am					
<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					
<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 - 2pm	0	0	0	0	0
Casualties - 5pm					
<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	
California					
Tehama					
Total Casualties - 5pm	0	0	0	0	0
Trinity					
Casualties - 2am					
<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					
<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 - 2pm	0	0	0	0	0
Casualties - 5pm					
<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 - 5pm	0	0	0	0	0
Region Total	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
California			
Del Norte	0	0	0
Humboldt	0	0	0
Lassen	0	0	0
Modoc	0	0	0
Plumas	0	0	0
Shasta	0	0	0
Siskiyou	2	3	6
Tehama	0	0	0
Trinity	0	0	0
Total	2	3	6
Region Total	2	3	6

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 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	
California										
Humboldt	0	0	0	0	0.00	0	0	0	0	0
Del Norte	0	0	0	0	0.00	0	0	0	0	0
Plumas	0	0	0	0	0.00	0	0	0	0	1
Shasta	21	1,010	665	122	0.00	1	5	4	4	1,833
Siskiyou	4,765	28,897	15,063	1,439	0.29	1,813	727	792	956	54,452
Tehama	0	4	3	0	0.00	0	0	0	0	8
Trinity	0	14	11	2	0.00	0	0	0	0	27
Modoc	25	340	228	74	0.01	3	1	1	2	674
Lassen	0	2	2	0	0.00	0	0	0	0	4

	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	
Total	4,811	30,268	15,972	1,638	0.03	1,817	734	797	962	56,999
Region Total	4,811	30,268	15,972	1,638	0.03	1,817	734	797	962	56,999

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
California								
Del Norte								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		0	0	2	0	0	11	14
Total	0	0	0	2	0	0	11	14
Humboldt								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		0	0	5	37	0	49	90
Total	0	0	0	5	37	0	49	90
Lassen								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	125	125

	Highway	Railway	Light Rail	Bus Facility	Ports	Ferries	Airport	Total
Total	0	0	0	0	0	0	125	125
Modoc								
Segments	0	0	0					0
Bridges	2	37	0					38
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	427	427
Total	2	37	0	0	0	0	427	466
Plumas								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	34	34
Total	0	0	0	0	0	0	34	34
Shasta								
Segments	0	0	0					0
Bridges	4	0	0					4
Tunnels	0	0	0					0
Facilities		26	0	22	0	0	229	277
Total	4	26	0	22	0	0	229	281
Siskiyou								
Segments	0	0	0					0
Bridges	62	436	0					498
Tunnels	0	0	0					0
Facilities		109	0	94	0	0	2,795	2,997

	Highway	Railway	Light Rail	Bus Facility	Ports	Ferries	Airport	Total
Total	62	545	0	94	0	0	2,795	3,495
Tehama								
Segments	0	0	0					0
Bridges	1	0	0					1
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	11	11
Total	1	0	0	0	0	0	11	12
Trinity								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	119	119
Total	0	0	0	0	0	0	119	119
Total	70	607	0	123	37	0	3,800	4,637
Region Total	70	607	0	123	37	0	3,800	4,637

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
California							
Del Norte							
Facilities	0	0	0	0	0	0	0
Pipelines	8	4	0	0			12
Total	8	4	0	0	0	0	12
Humboldt							
Facilities	0	18	0	0	10	0	28
Pipelines	33	16	0	0			49
Total	33	35	0	0	10	0	77
Lassen							
Facilities	0	3	0	0	952	0	954
Pipelines	52	26	0	0			78
Total	52	29	0	0	952	0	1,032
Modoc							
Facilities	0	123	0	658	0	0	781

	Potable Water	Waste Water	Oil Systems	Natural Gas	Electric Power	Communication	Total
<i>Pipelines</i>	115	58	0	0			172
Total	115	181	0	658	0	0	954
Plumas							
<i>Facilities</i>	0	5	0	0	662	0	668
<i>Pipelines</i>	22	11	0	0			34
Total	22	16	0	0	662	0	701
Shasta							
<i>Facilities</i>	56	2,385	0	75	89,060	3	91,579
<i>Pipelines</i>	121	61	0	0			182
Total	177	2,446	0	75	89,060	3	91,761
Siskiyou							
<i>Facilities</i>	0	5,939	0	0	74,731	15	80,685
<i>Pipelines</i>	2,254	1,132	0	0			3,387
Total	2,254	7,072	0	0	74,731	15	84,072
Tehama							
<i>Facilities</i>	0	8	0	3	392	0	402
<i>Pipelines</i>	40	20	0	0			60
Total	40	28	0	3	392	0	462
Trinity							
<i>Facilities</i>	0	0	0	0	6,323	0	6,323
<i>Pipelines</i>	28	14	0	0			43

	Potable Water	Waste Water	Oil Systems	Natural Gas	Electric Power	Communication	Total
Total	28	14	0	0	6,323	0	6,365
Total	2,730	9,824	0	736	172,129	19	185,436
Region Total	2,730	9,824	0	736	172,129	19	185,436

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.

Hazus Quick Assessment Report

Estimated Economic Loss (\$ Billions)

Category	Description	Range
General Building Stock	Building Damage	0.00 - 0.10
	Building Contents	< 0.1
	Business Interruption	< 0.1
Infrastructure	Lifelines Damage	
Total		0.00 - 0.10

Preliminary Damage Assessment (PDA) Estimates

Description	Residential	Commercial	Other	Total
Affected	750	40	50	840
Minor	180	10	20	210
Major	30	< 10	< 10	30
Destroyed	< 10	0	0	< 10
Total	960	50	70	1,080

Estimated Casualties : Night Time

Severity Level	Description	# Persons
Level 1	Medical Aid	< 10
Level 2	Hospital Care	< 10
Level 3	Life-threatening	< 10
Level 4	Fatalities	< 10

Estimated Shelter Needs

Type	Households	People
Displaced Households	1 - 6	3 - 15
Public Shelter	0	0

Comments :

*Hazus damage estimates are presented using FEMA Preliminary Damage Assessment (PDA) categories. These estimates should be used for planning purposes and may not reflect actual observed damages from the PDA process.

Disclaimer:

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.

Earthquake Information

Location :

Origin Time:

Magnitude : 7.13

Epicenter Latitude/Longitude :
/

Depth & Type : /U

Name :
NA

Ground Motion /Attenuation :

Maximum PGA: 0.00

Information Sources:

Comments :

Population and Building Exposure

Population: 533,598

Building Exposure : (\$ Millions)

Residential	74,309
Commercial	22,842
Other	20,543
Total	117,694

Counties :

Major Metro Area :

Hazus Quick Assessment Report

Estimated Economic Loss (\$ Billions)

Category	Description	Range
General Building Stock	Building Damage	0.00 - 0.10
	Building Contents	< 0.1
	Business Interruption	< 0.1
Infrastructure	Lifelines Damage	
Total		0.00 - 0.10

Preliminary Damage Assessment (PDA) Estimates

Description	Residential	Commercial	Other	Total
Affected	750	40	50	840
Minor	180	10	20	210
Major	30	< 10	< 10	30
Destroyed	< 10	0	0	< 10
Total	960	50	70	1,080

Estimated Casualties : Day Time

Severity Level	Description	# Persons
Level 1	Medical Aid	< 10
Level 2	Hospital Care	< 10
Level 3	Life-threatening	< 10
Level 4	Fatalities	< 10

Estimated Shelter Needs

Type	Households	People
Displaced Households	1 - 6	3 - 15
Public Shelter	0	0

Comments :

*Hazus damage estimates are presented using FEMA Preliminary Damage Assessment (PDA) categories. These estimates should be used for planning purposes and may not reflect actual observed damages from the PDA process.

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Earthquake Information

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Origin Time:

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/

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Name :
NA

Ground Motion /Attenuation :

Maximum PGA: 0.00

Information Sources:

Comments :

Population and Building Exposure

Population: 533,598

Building Exposure : (\$ Millions)

Residential	74,309
Commercial	22,842
Other	20,543
Total	117,694

Counties :

Major Metro Area :

Hazus Quick Assessment Report

Estimated Economic Loss (\$ Billions)

Category	Description	Range
General Building Stock	Building Damage	0.00 - 0.10
	Building Contents	< 0.1
	Business Interruption	< 0.1
Infrastructure	Lifelines Damage	
Total		0.00 - 0.10

Preliminary Damage Assessment (PDA) Estimates

Description	Residential	Commercial	Other	Total
Affected	750	40	50	840
Minor	180	10	20	210
Major	30	< 10	< 10	30
Destroyed	< 10	0	0	< 10
Total	960	50	70	1,080

Estimated Casualties : Commute Time

Severity Level	Description	# Persons
Level 1	Medical Aid	< 10
Level 2	Hospital Care	< 10
Level 3	Life-threatening	< 10
Level 4	Fatalities	< 10

Estimated Shelter Needs

Type	Households	People
Displaced Households	1 - 6	3 - 15
Public Shelter	0	0

Comments :

*Hazus damage estimates are presented using FEMA Preliminary Damage Assessment (PDA) categories. These estimates should be used for planning purposes and may not reflect actual observed damages from the PDA process.

Disclaimer:

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Earthquake Information

Location :

Origin Time:

Magnitude : 7.13

Epicenter Latitude/Longitude :

/

Depth & Type : /U

Name :

NA

Ground Motion /Attenuation :

Maximum PGA: 0.00

Information Sources:

Comments :

Population and Building Exposure

Population: 533,598

Building Exposure : (\$ Millions)

Residential	74,309
Commercial	22,842
Other	20,543
Total	117,694

Counties :

Major Metro Area :

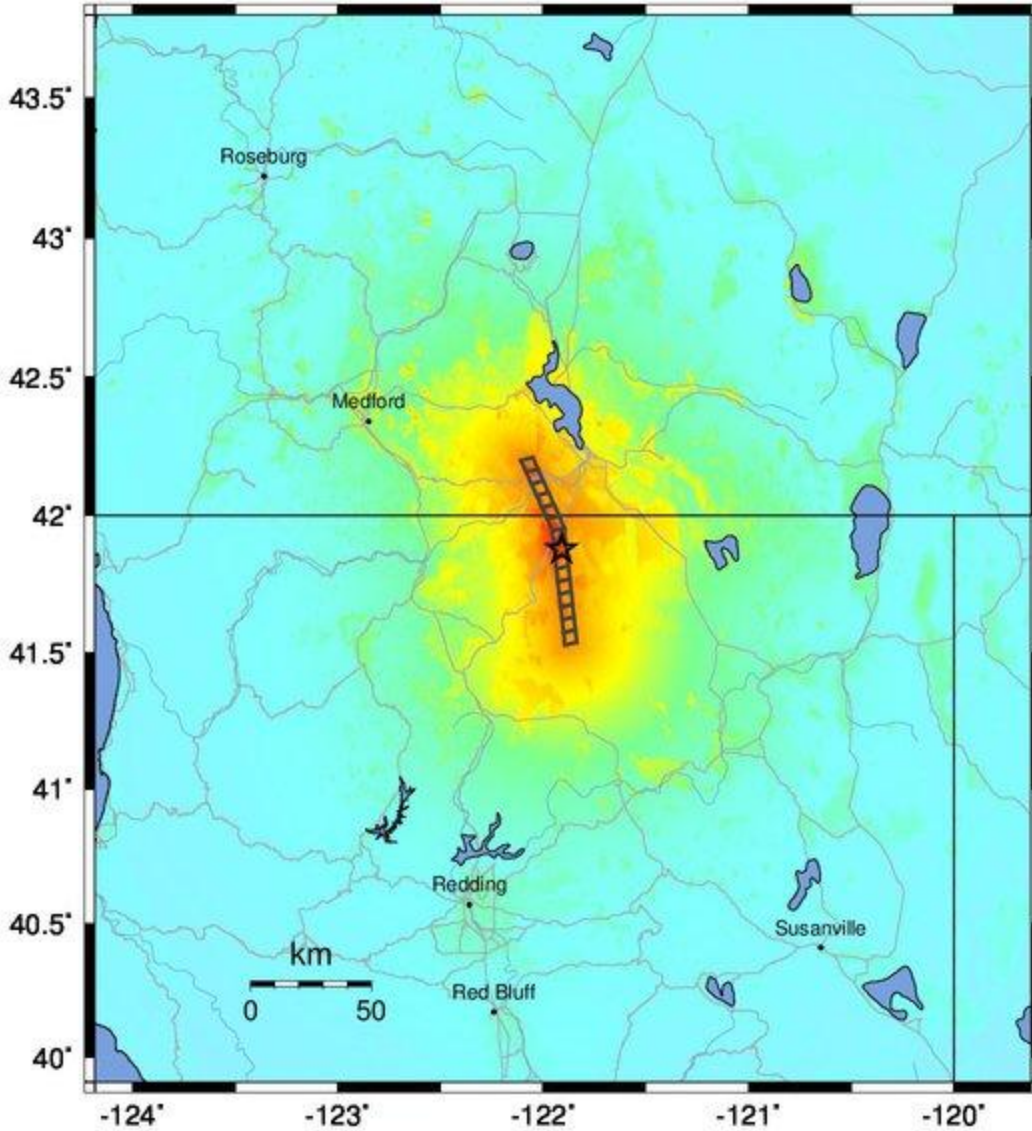
Shelter Summary Report

May 02, 2024

	# of Displaced Households	# of People Needing Short Term Shelter
California		
Del Norte	0	0
Humboldt	0	0
Lassen	0	0
Modoc	0	0
Plumas	0	0
Shasta	0	0
Siskiyou	3	2
Tehama	0	0
Trinity	0	0
Total	3	2
Region Total	3	2

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 Cedar Mtn-Mahogany Mtn - Median ground motions Scenario
 Scenario Date: May 16, 2017 08:31:49 AM MDT M 7.1 N41.88 W121.91 Depth: 6.1km



-124° -123° -122° -121° -120°
 PLANNING SCENARIO ONLY -- Map Version 10 Processed 2017-05-16 02:39:36 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)