

Hazus: Earthquake Global Risk Report

Region Name: HoneyLake

Earthquake Scenario: honeylake2011cfmshaw_m7p03_se

Print Date: May 06, 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 17 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 36,645.94 square miles and contains 391 census tracts. There are over 588 thousand households in the region which has a total population of 1,539,955 people. The distribution of population by Total Region and County is provided in Appendix B.

There are an estimated 655 thousand buildings in the region with a total building replacement value (excluding contents) of 335,083 (millions of dollars). Approximately 90.00 % of the buildings (and 68.00% of the building value) are associated with residential housing.

The replacement value of the transportation and utility lifeline systems is estimated to be 45,886 and 75,467 (millions of dollars) , respectively.

Building and Lifeline Inventory

Building Inventory

Hazus estimates that there are 655 thousand buildings in the region which have an aggregate total replacement value of 335,083 (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 44 hospitals in the region with a total bed capacity of 3,200 beds. There are 827 schools, 477 fire stations, 103 police stations and 20 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 121,353.00 (millions of dollars). This inventory includes over 3,995.42 miles of highways, 3,664 bridges, 115,696.79 miles of pipes.

Table 1: Transportation System Lifeline Inventory

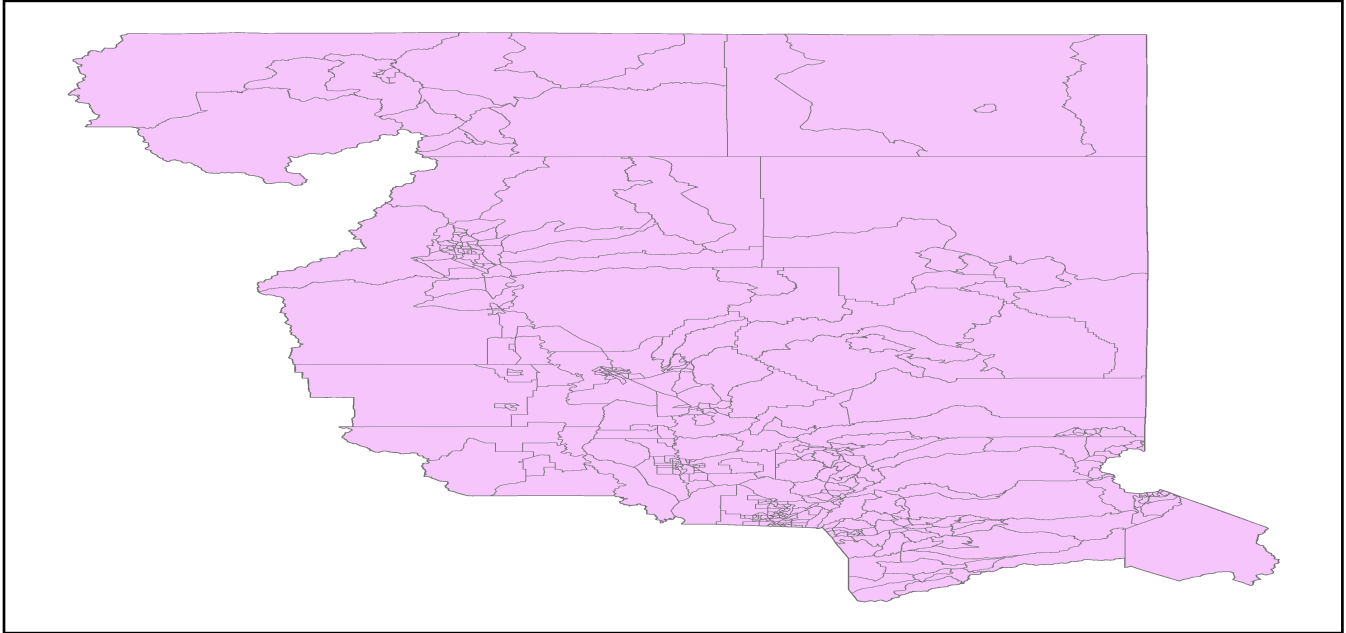
System	Component	# Locations/ # Segments	Replacement value (millions of dollars)
Highway	Bridges	3,664	8483.2166
	Segments	1,147	26595.6074
	Tunnels	7	40.7535
	Subtotal		35119.5775
Railways	Bridges	732	4165.0800
	Facilities	8	21.3040
	Segments	730	5880.6669
	Tunnels	0	0.0000
	Subtotal		10067.0509
Light Rail	Bridges	0	0.0000
	Facilities	0	0.0000
	Segments	0	0.0000
	Tunnels	0	0.0000
	Subtotal		0.0000
Bus	Facilities	7	15.6379
	Subtotal		15.6379
Ferry	Facilities	0	0.0000
	Subtotal		0.0000
Port	Facilities	1	3.8118
	Subtotal		3.8118
Airport	Facilities	53	312.9600
	Runways	58	367.3161
	Subtotal		680.2761
		Total	45,886.40

Table 2: Utility System Lifeline Inventory

System	Component	# Locations / Segments	Replacement value (millions of dollars)
Potable Water	Distribution Lines	NA	2304.0331
	Facilities	5	196.4700
	Pipelines	0	0.0000
		Subtotal	2500.5031
Waste Water	Distribution Lines	NA	1382.4198
	Facilities	56	9629.3008
	Pipelines	0	0.0000
		Subtotal	11011.7206
Natural Gas	Distribution Lines	NA	921.6132
	Facilities	4	164.9741
	Pipelines	410	6599.1499
		Subtotal	7685.7372
Oil Systems	Facilities	1	0.1180
	Pipelines	0	0.0000
		Subtotal	0.1180
Electrical Power	Facilities	131	54258.8591
		Subtotal	54258.8591
Communication	Facilities	90	10.6200
		Subtotal	10.6200
	Total		75,467.60

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	honeylake2011cfmshaw_m7p03_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	7.03
Depth (km)	NA
Rupture Length (Km)	NA
Rupture Orientation (degrees)	NA
Attenuation Function	NA

Direct Earthquake Damage

Building Damage

Hazus estimates that about 1,312 buildings will be at least moderately damaged. This is over 0.00 % of the buildings in the region. There are an estimated 14 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

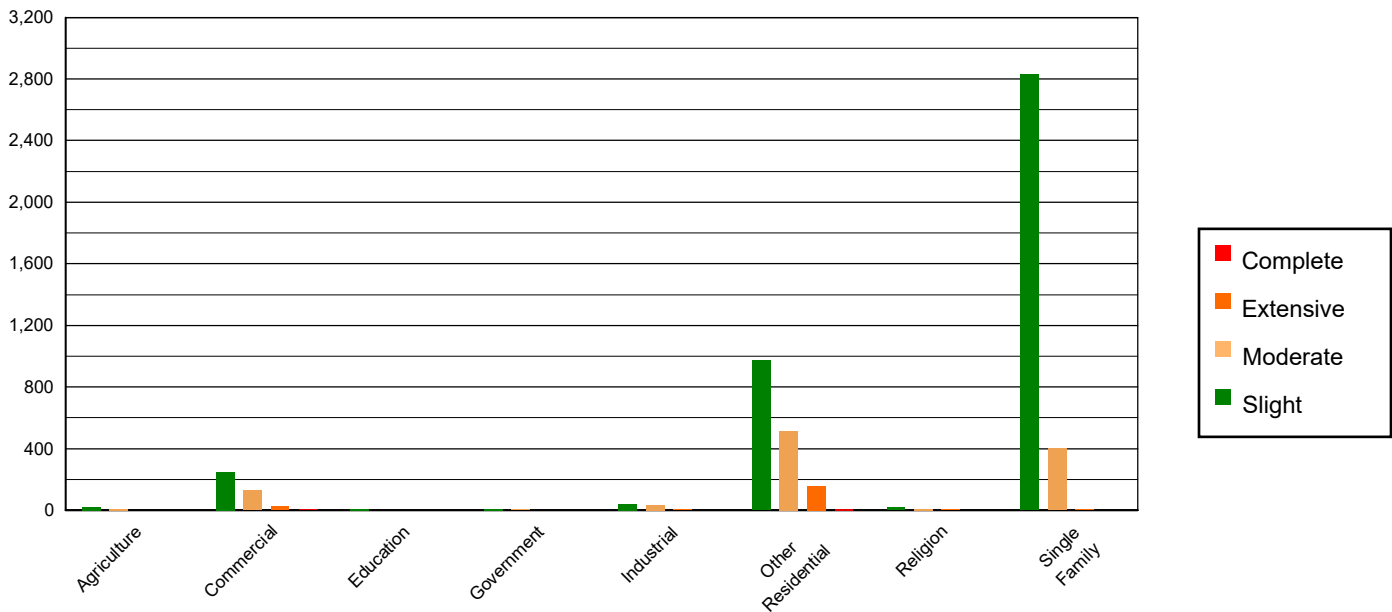


Table 3: Expected Building Damage by Occupancy

	None		Slight		Moderate		Extensive		Complete	
	Count	(%)	Count	(%)	Count	(%)	Count	(%)	Count	(%)
Agriculture	8113.23	1.25	19.35	0.47	7.66	0.70	0.75	0.38	0.01	0.05
Commercial	39378.63	6.06	248.93	6.01	130.19	11.83	26.73	13.55	3.53	24.64
Education	1210.49	0.19	7.11	0.17	2.32	0.21	0.08	0.04	0.00	0.00
Government	1987.80	0.31	6.99	0.17	3.91	0.36	0.29	0.15	0.00	0.01
Industrial	10699.51	1.65	40.47	0.98	31.65	2.88	5.07	2.57	0.29	2.05
Other Residential	101705.63	15.64	971.88	23.46	513.60	46.67	158.67	80.46	10.21	71.28
Religion	2149.70	0.33	17.02	0.41	9.59	0.87	2.43	1.23	0.27	1.86
Single Family	484892.40	74.58	2830.73	68.33	401.67	36.50	3.19	1.62	0.02	0.11
Total	650,137		4,142		1,101		197		14	

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

	None		Slight		Moderate		Extensive		Complete	
	Count	(%)	Count	(%)	Count	(%)	Count	(%)	Count	(%)
Wood	548954.24	84.44	3475.89	83.91	497.71	45.22	5.02	2.54	0.06	0.44
Steel	14008.82	2.15	77.69	1.88	61.98	5.63	14.04	7.12	1.22	8.53
Concrete	13930.84	2.14	102.90	2.48	60.39	5.49	19.12	9.70	2.54	17.71
Precast	9505.88	1.46	54.32	1.31	42.24	3.84	5.39	2.73	0.11	0.76
RM	17681.78	2.72	98.64	2.38	62.96	5.72	6.11	3.10	0.04	0.28
URM	1664.84	0.26	29.21	0.71	18.08	1.64	11.64	5.90	3.60	25.11
MH	44390.98	6.83	303.83	7.33	357.23	32.46	135.89	68.91	6.76	47.18
Total	650,137		4,142		1,101		197		14	

*Note:

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

Essential Facility Damage

Before the earthquake, the region had 3,200 hospital beds available for use. On the day of the earthquake, the model estimates that only 3,170 hospital beds (99.00%) 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	44	0	0	44
Schools	827	6	0	811
EOCs	20	0	0	20
PoliceStations	103	0	0	101
FireStations	477	2	0	468

Transportation Lifeline Damage

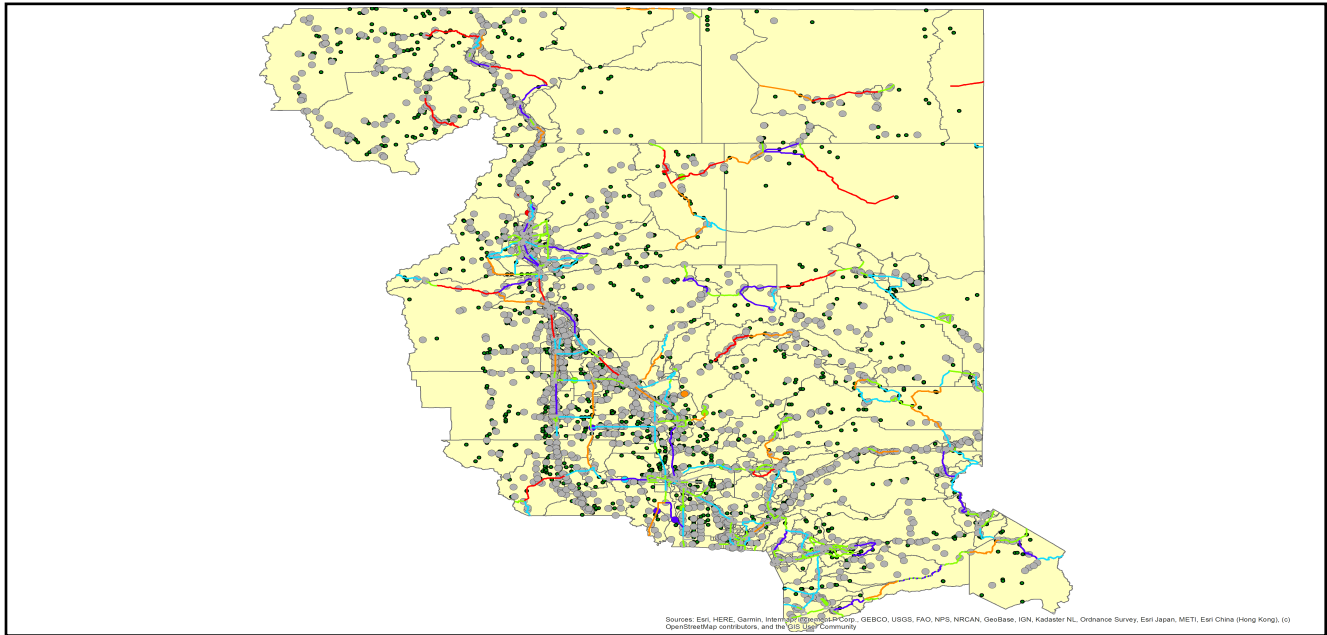


Table 6: Expected Damage to the Transportation Systems

System	Component	Number of Locations_				
		Locations/ Segments	With at Least Mod. Damage	With Complete Damage	With Functionality > 50 %	
					After Day 1	After Day 7
Highway	Segments	1,147	0	0	1,147	1,147
	Bridges	3,664	0	0	3,664	3,664
	Tunnels	7	0	0	7	7
Railways	Segments	730	0	0	730	730
	Bridges	732	0	0	732	732
	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	7	0	0	7	7
Ferry	Facilities	0	0	0	0	0
Port	Facilities	1	0	0	1	1
Airport	Facilities	53	1	0	53	53
	Runways	58	0	0	58	58

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	5	0	0	5	5
Waste Water	56	0	0	55	56
Natural Gas	4	0	0	4	4
Oil Systems	1	0	0	1	1
Electrical Power	131	2	0	130	131
Communication	90	1	0	90	90

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

System	Total Pipelines Length (miles)	Number of Leaks	Number of Breaks
Potable Water	71,583	968	242
Waste Water	42,950	486	122
Natural Gas	1,164	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	588,402	97	25	0	0	0
Electric Power		2,695	1,624	616	49	4

Induced Earthquake Damage

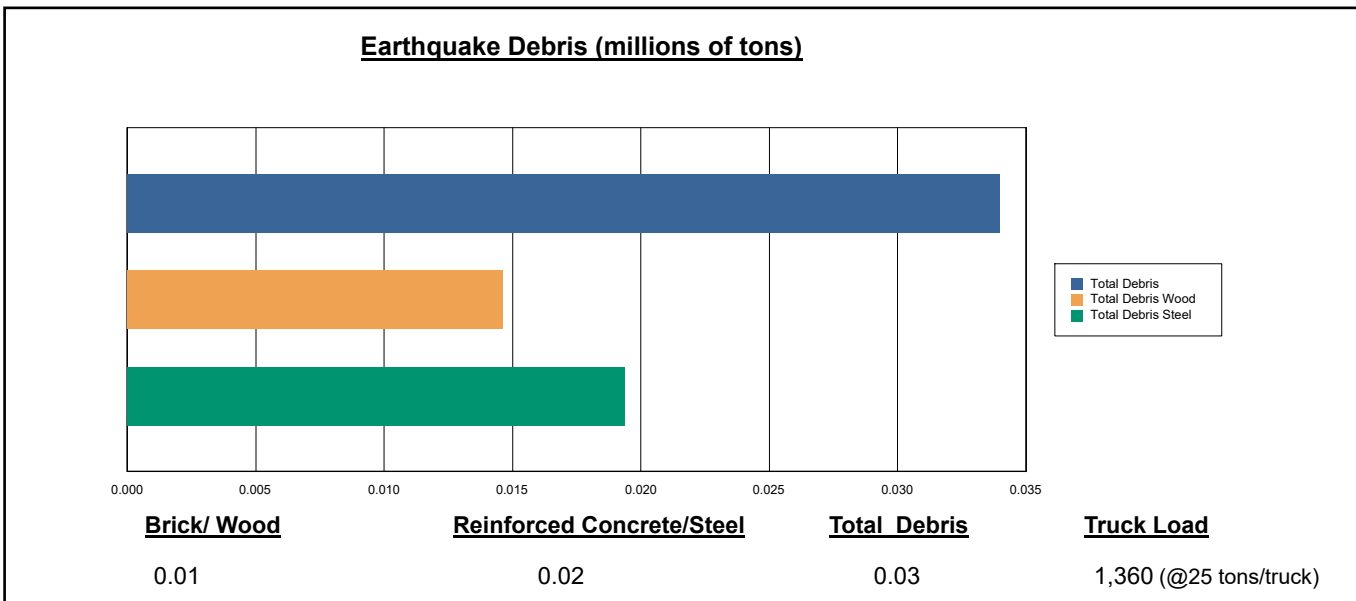
Fire Following Earthquake

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.

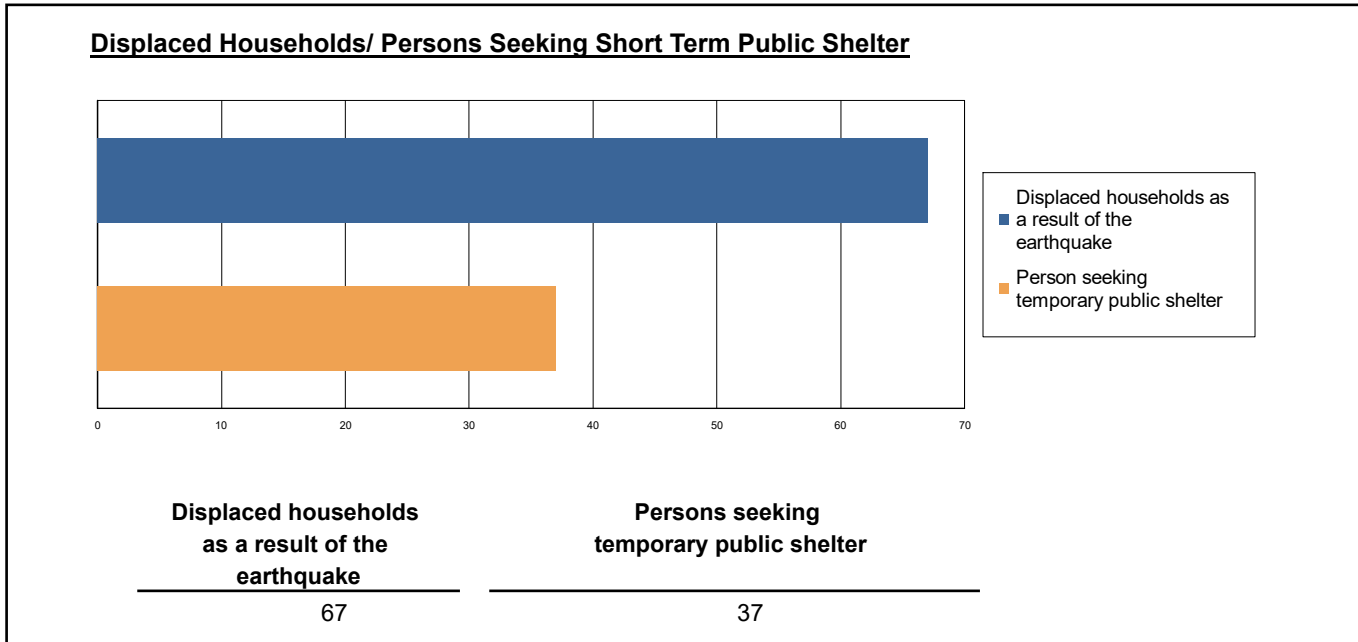
The model estimates that a total of 34,000 tons of debris will be generated. Of the total amount, Brick/Wood comprises 43.00% of the total, with the remainder being Reinforced Concrete/Steel. If the debris tonnage is converted to an estimated number of truckloads, it will require 1,360 truckloads (@25 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 67 households to be displaced due to the earthquake. Of these, 37 people (out of a total population of 1,539,955) 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	0.13	0.02	0.00	0.01
	Commuting	0.01	0.01	0.01	0.00
	Educational	0.00	0.00	0.00	0.00
	Hotels	0.00	0.00	0.00	0.00
	Industrial	0.05	0.01	0.00	0.00
	Other-Residential	11.97	1.77	0.15	0.29
	Single Family	4.95	0.25	0.00	0.00
	Total	17	2	0	0
2 PM	Commercial	10.84	1.79	0.19	0.36
	Commuting	0.05	0.07	0.11	0.02
	Educational	3.50	0.42	0.02	0.05
	Hotels	0.00	0.00	0.00	0.00
	Industrial	0.38	0.04	0.00	0.00
	Other-Residential	4.89	0.71	0.06	0.11
	Single Family	1.96	0.10	0.00	0.00
	Total	22	3	0	1
5 PM	Commercial	7.04	1.14	0.12	0.22
	Commuting	0.68	1.07	1.62	0.32
	Educational	0.17	0.01	0.00	0.00
	Hotels	0.00	0.00	0.00	0.00
	Industrial	0.24	0.03	0.00	0.00
	Other-Residential	4.44	0.67	0.06	0.11
	Single Family	1.82	0.09	0.00	0.00
	Total	14	3	2	1

Economic Loss

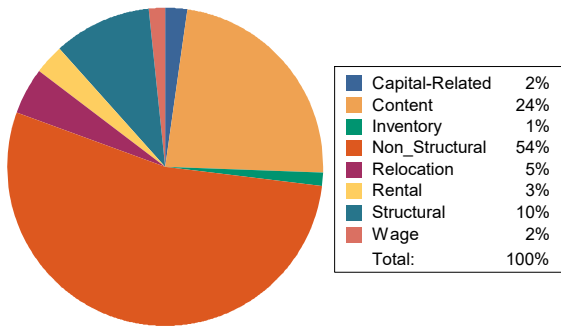
The total economic loss estimated for the earthquake is 601.42 (millions of dollars), which includes building and lifeline related losses based on the region's available inventory. The following three sections provide more detailed information about these losses.

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 269.57 (millions of dollars); 12 % 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 55 % 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)

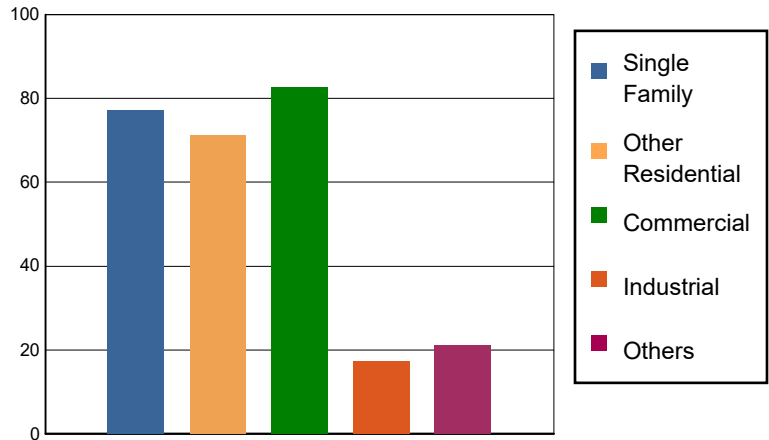


Table 11: Building-Related Economic Loss Estimates
(Millions of dollars)

Category	Area	Single Family	Other Residential	Commercial	Industrial	Others	Total
Income Losses							
	Wage	0.0000	0.3778	3.8714	0.1210	0.4036	4.7738
	Capital-Related	0.0000	0.1605	5.3229	0.0735	0.0974	5.6543
	Rental	0.8074	2.8216	3.9566	0.1265	0.2074	7.9195
	Relocation	2.6469	3.0759	5.1196	0.7952	1.4985	13.1361
	Subtotal	3.4543	6.4358	18.2705	1.1162	2.2069	31.4837
Capital Stock Losses							
	Structural	6.9644	7.1095	8.6942	1.7078	2.3201	26.7960
	Non_Structural	46.6058	45.2096	34.3460	7.9194	10.1892	144.2700
	Content	20.1674	12.3864	19.2168	5.8788	5.7458	63.3952
	Inventory	0.0000	0.0000	2.2049	0.6976	0.7217	3.6242
	Subtotal	73.7376	64.7055	64.4619	16.2036	18.9768	238.0854
	Total	77.19	71.14	82.73	17.32	21.18	269.57

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	26595.6074	0.0000	0.00
	Bridges	8483.2166	2.9672	0.03
	Tunnels	40.7535	0.0000	0.00
	Subtotal	35119.5775	2.9672	
Railways	Segments	5880.6669	0.0000	0.00
	Bridges	4165.0800	2.5017	0.06
	Tunnels	0.0000	0.0000	0.00
	Facilities	21.3040	0.1140	0.54
	Subtotal	10067.0509	2.6157	
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	15.6379	0.1122	0.72
	Subtotal	15.6379	0.1122	
Ferry	Facilities	0.0000	0.0000	0.00
	Subtotal	0.0000	0.0000	
Port	Facilities	3.8118	0.0367	0.96
	Subtotal	3.8118	0.0367	
Airport	Facilities	312.9600	8.7287	2.79
	Runways	367.3161	0.0000	0.00
	Subtotal	680.2761	8.7287	
Total		45,886.35	14.46	

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	196.4700	0.4057	0.21
	Distribution Lines	2304.0331	4.3567	0.19
	Subtotal	2500.5031	4.7624	
Waste Water	Pipelines	0.0000	0.0000	0.00
	Facilities	9629.3008	35.4986	0.37
	Distribution Lines	1382.4198	2.1885	0.16
	Subtotal	11011.7206	37.6871	
Natural Gas	Pipelines	6599.1499	0.0000	0.00
	Facilities	164.9741	0.1551	0.09
	Distribution Lines	921.6132	0.7498	0.08
	Subtotal	7685.7372	0.9049	
Oil Systems	Pipelines	0.0000	0.0000	0.00
	Facilities	0.1180	0.0001	0.08
	Subtotal	0.1180	0.0001	
Electrical Power	Facilities	54258.8591	273.9234	0.50
	Subtotal	54258.8591	273.9234	
Communication	Facilities	10.6200	0.1092	1.03
	Subtotal	10.6200	0.1092	
	Total	75,467.56	317.39	

Appendix A: County Listing for the Region

Alpine,CA

Amador,CA

Butte,CA

Colusa,CA

El Dorado,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	Alpine	1,204	721	139	861
	Amador	40,474	5,608	2,517	8,125
	Butte	211,632	25,875	16,639	42,514
	Colusa	21,839	2,244	2,024	4,268
	El Dorado	191,185	34,907	9,704	44,611
	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	
Total Region		1,539,955	227,143	107,923	335,074

Building Inspection Tagging (Counts)

Total Economic Loss
Total:

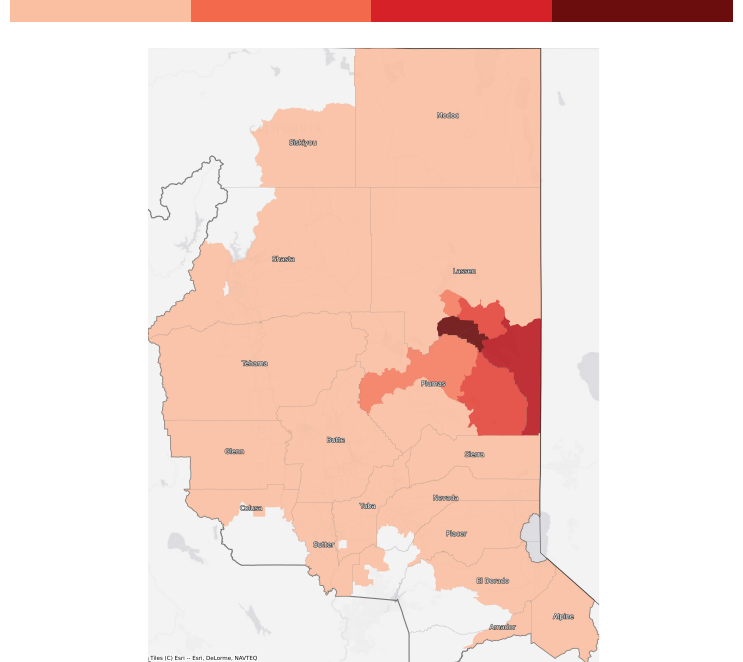
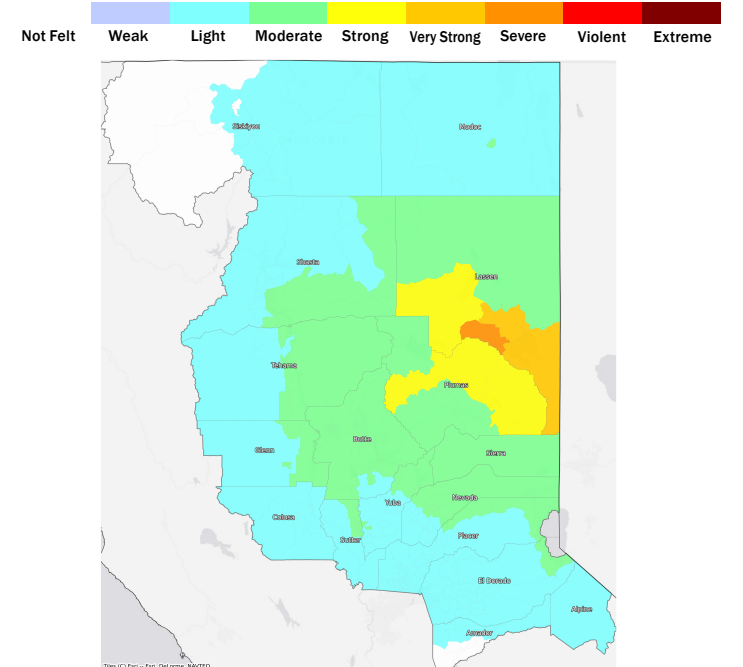
Top Counties	State	Total

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

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

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

Top Counties	State	Displaced	Needing Shelter

Economic Impacts by Census Tract

Ground Shaking

Debris
**Total Tons:
Total Truckloads:**

Type	Tons

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

Honey Lake

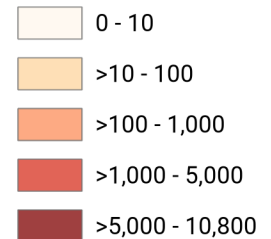
Debris Generated by Census Tract



Study Region: Honey Lake
Scenario: honeylake2011cfmshaw_m7p03_se



Debris Generated (in tons)



Honey Lake

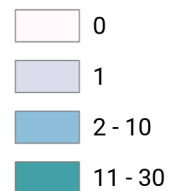
Displaced Households by Census Tract



Study Region: Honey Lake
Scenario: honeylake2011cfmshaw_m7p03_se



Displaced Households

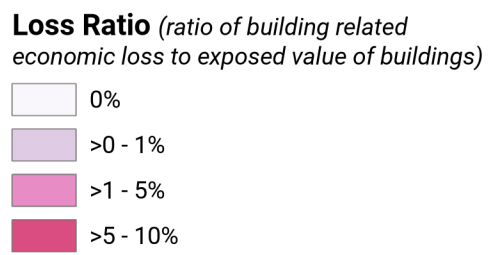


Honey Lake

Loss Ratio by Census Tract

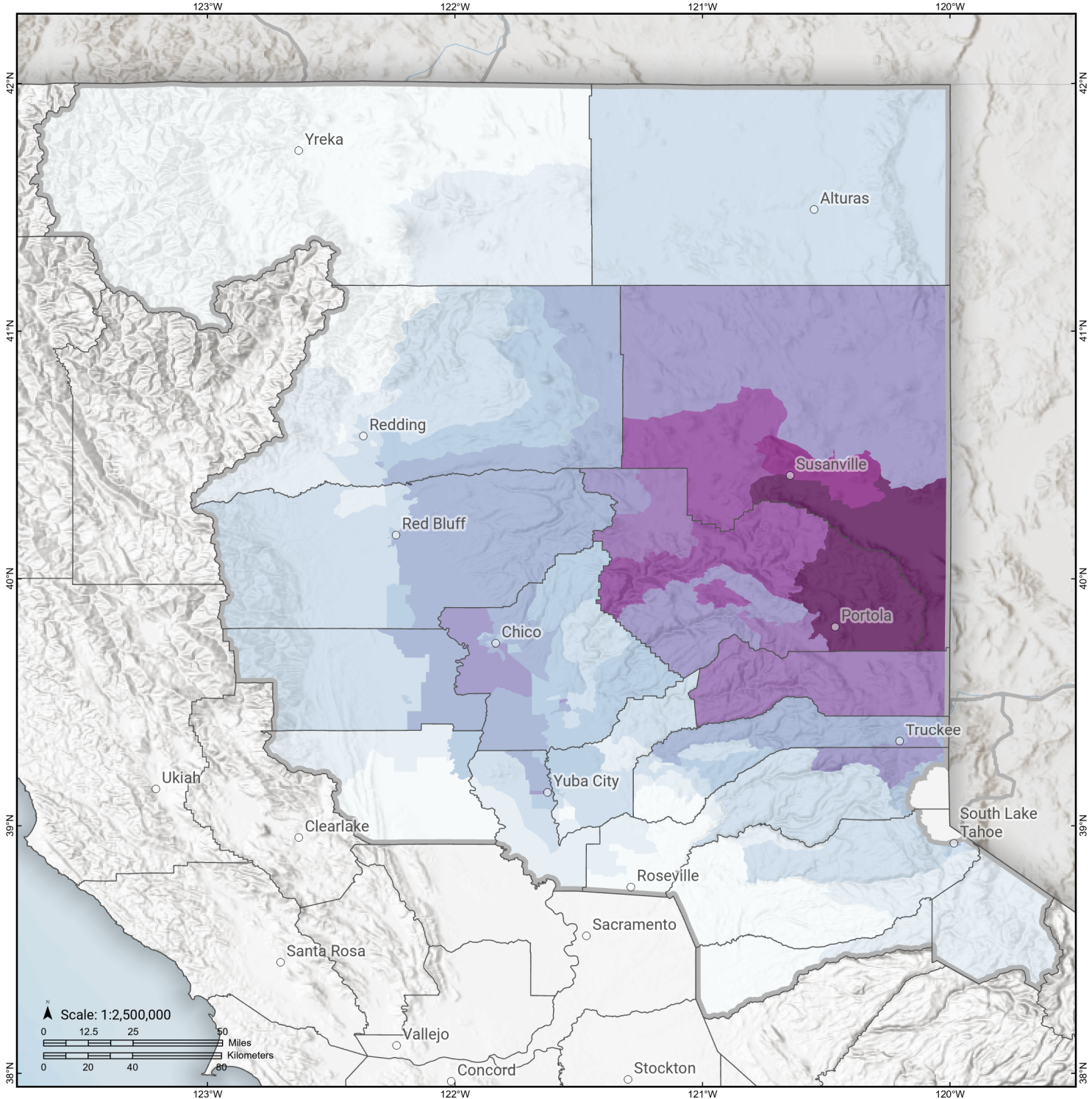


Study Region: Honey Lake
Scenario: honeylake2011cfmshaw_m7p03_se



Honey Lake

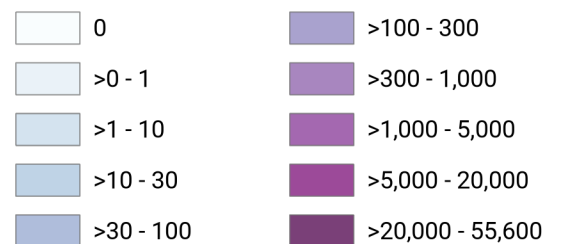
Total Building Related Economic Loss by Census Tract



Study Region: Honey Lake
Scenario: honeylake2011cfmshaw_m7p03_se



Economic Loss (in thousands of USD \$)



Building Damage by Count by General Occupancy

May 06, 2024

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

	# of Buildings					Total
	None	Slight	Moderate	Extensive	Complete	
<i>Agriculture</i>	509	0	0	0	0	510
<i>Commercial</i>	6,381	4	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>	21,484	13	0	0	0	21,498
<i>Single Family</i>	50,283	0	0	0	0	50,283
Colusa						
<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
El Dorado						
<i>Agriculture</i>	161	0	0	0	0	161
<i>Commercial</i>	4,768	0	0	0	0	4,768
<i>Education</i>	128	0	0	0	0	128
<i>Government</i>	100	0	0	0	0	100
<i>Industrial</i>	1,199	0	0	0	0	1,199
<i>Religion</i>	180	0	0	0	0	180
<i>Other Residential</i>	10,420	0	0	0	0	10,420

		# of Buildings					
		None	Slight	Moderate	Extensive	Complete	Total
Glenn	<i>Single Family</i>	71,424	0	0	0	0	71,424
	<i>Agriculture</i>	1,364	1	0	0	0	1,365
	<i>Commercial</i>	885	0	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>	2,150	2	0	0	0	2,152
Lassen	<i>Single Family</i>	7,417	0	0	0	0	7,417
	<i>Agriculture</i>	18	12	7	1	0	37
	<i>Commercial</i>	576	188	119	26	4	913
	<i>Education</i>	31	7	2	0	0	40
	<i>Government</i>	12	6	4	0	0	22
	<i>Industrial</i>	78	28	29	5	0	140
	<i>Religion</i>	44	15	9	2	0	71
	<i>Other Residential</i>	1,302	687	470	158	10	2,627
Modoc	<i>Single Family</i>	6,593	2,569	397	3	0	9,562
	<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

	# of Buildings					Total
	None	Slight	Moderate	Extensive	Complete	
<i>Religion</i>	36	0	0	0	0	36
<i>Other Residential</i>	1,994	0	0	0	0	1,994
<i>Single Family</i>	3,740	0	0	0	0	3,740
Nevada						
<i>Agriculture</i>	132	0	0	0	0	132
<i>Commercial</i>	2,834	1	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>	1,160	1	0	0	0	1,161
<i>Religion</i>	189	0	0	0	0	189
<i>Other Residential</i>	6,379	5	0	0	0	6,384
<i>Single Family</i>	43,276	4	0	0	0	43,280
Placer						
<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
<i>Single Family</i>	134,719	0	0	0	0	134,719
Plumas						
<i>Agriculture</i>	78	5	1	0	0	84
<i>Commercial</i>	1,150	53	11	0	0	1,215
<i>Education</i>	26	0	0	0	0	26

		# of Buildings					
		None	Slight	Moderate	Extensive	Complete	Total
Shasta	<i>Government</i>	44	1	0	0	0	45
	<i>Industrial</i>	171	10	2	0	0	184
	<i>Religion</i>	28	1	0	0	0	30
	<i>Other Residential</i>	4,730	258	43	1	0	5,032
	<i>Single Family</i>	9,618	255	4	0	0	9,877
	<i>Agriculture</i>	3,235	0	0	0	0	3,235
	<i>Commercial</i>	5,254	0	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
Sierra	<i>Religion</i>	66	0	0	0	0	66
	<i>Other Residential</i>	16,947	2	0	0	0	16,949
	<i>Single Family</i>	51,815	0	0	0	0	51,815
	<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>	152	1	0	0	0	153
Siskiyou	<i>Single Family</i>	1,856	2	0	0	0	1,858
	<i>Agriculture</i>	201	0	0	0	0	201

	# of Buildings					Total
	None	Slight	Moderate	Extensive	Complete	
<i>Commercial</i>	1,591	0	0	0	0	1,591
<i>Education</i>	76	0	0	0	0	76
<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
Sutter						
<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
<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
Tehama						
<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
<i>Religion</i>	110	0	0	0	0	110
<i>Other Residential</i>	3,989	2	0	0	0	3,991

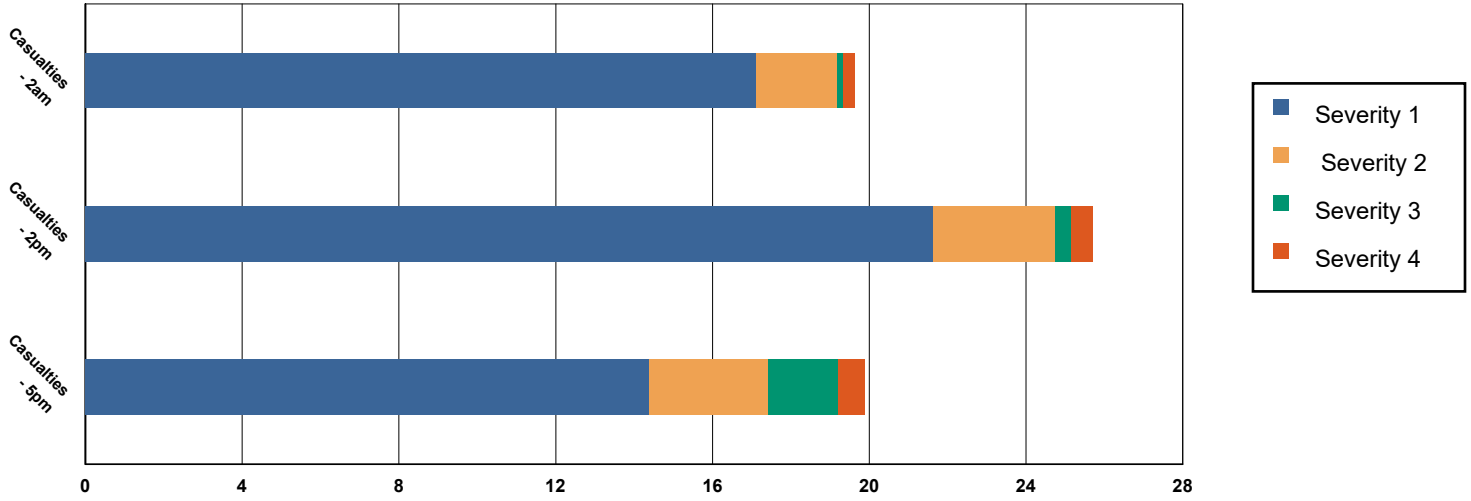
	# of Buildings					Total
	None	Slight	Moderate	Extensive	Complete	
Yuba						
<i>Single Family</i>	21,221	1	0	0	0	21,222
<i>Agriculture</i>	92	0	0	0	0	92
<i>Commercial</i>	1,199	0	0	0	0	1,199
<i>Education</i>	54	0	0	0	0	54
<i>Government</i>	591	0	0	0	0	591
<i>Industrial</i>	404	0	0	0	0	404
<i>Religion</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
Total	650,137	4,142	1,101	197	14	655,592
Region Total	650,137	4,142	1,101	197	14	655,592

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 06, 2024

Region Total Casualties



Injury Severity Level

Severity 1	Severity 2	Severity 3	Severity 4	Total
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California

Alpine

Casualties - 2am

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

Total Casualties - 2am

0	0	0	0	0
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Casualties - 2pm

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

	Injury Severity Level				Total
	Severity 1	Severity 2	Severity 3	Severity 4	
California					
Alpine					
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
Amador					
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
Butte					
Casualties - 2am					
<i>Commuting</i>	0	0	0	0	0

	Injury Severity Level				Total
	Severity 1	Severity 2	Severity 3	Severity 4	
California					
Butte					
Casualties - 2am					
<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
Colusa					
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

	Injury Severity Level				Total
	Severity 1	Severity 2	Severity 3	Severity 4	
California					
Colusa					
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
El Dorado					
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					
Glenn					
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
<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>	11	2	0	0	14
<i>Single Family</i>	5	0	0	0	5
Total Casualties - 2am	16	2	0	0	19
Casualties - 2pm					
<i>Commuting</i>	0	0	0	0	0
<i>Commercial</i>	10	2	0	0	13
<i>Educational</i>	3	0	0	0	4
<i>Hotels</i>	0	0	0	0	0

Injury Severity Level

	Severity 1	Severity 2	Severity 3	Severity 4	Total
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California

Lassen

Casualties - 2pm

<i>Industrial</i>	0	0	0	0	0
<i>Other-Residential</i>	5	1	0	0	6
<i>Single Family</i>	2	0	0	0	2
Total Casualties - 2pm	21	3	0	1	25

Casualties - 5pm

<i>Commuting</i>	1	1	2	0	4
<i>Commercial</i>	7	1	0	0	8
<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>	4	1	0	0	5
<i>Single Family</i>	2	0	0	0	2
Total Casualties - 5pm	14	3	2	1	19

Modoc

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					
Modoc					
Total Casualties - 5pm	0	0	0	0	0
Nevada					
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
Placer					
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

	Injury Severity Level				Total
	Severity 1	Severity 2	Severity 3	Severity 4	
California					
Placer					
Casualties - 2pm					
<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
Plumas					
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	1	0	0	0	1
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	1	0	0	0	1
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

	Injury Severity Level				Total
	Severity 1	Severity 2	Severity 3	Severity 4	
California					
Plumas					
Casualties - 5pm					
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0
Total Casualties - 5pm	1	0	0	0	1
Shasta					
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
Sierra					
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

	Injury Severity Level				Total
	Severity 1	Severity 2	Severity 3	Severity 4	
California					
Sierra					
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>	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

	Injury Severity Level				Total
	Severity 1	Severity 2	Severity 3	Severity 4	
California					
Siskiyou					
Casualties - 5pm					
<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
Sutter					
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
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

	Injury Severity Level				Total
	Severity 1	Severity 2	Severity 3	Severity 4	
California					
Tehama					
Casualties - 2am					
<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
Yuba					
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

	Injury Severity Level				Total
	Severity 1	Severity 2	Severity 3	Severity 4	
California					
Yuba					
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 06, 2024

All values are in thousands of tons.

	Brick, Wood & Others	Concrete & Steel	Total
California			
Alpine	0	0	0
Amador	0	0	0
Butte	0	0	0
Colusa	0	0	0
El Dorado	0	0	0
Glenn	0	0	0
Lassen	14	19	33
Modoc	0	0	0
Nevada	0	0	0
Placer	0	0	0
Plumas	1	1	2
Shasta	0	0	0
Sierra	0	0	0
Siskiyou	0	0	0
Sutter	0	0	0
Tehama	0	0	0
Yuba	0	0	0
Total	15	20	35

	Brick, Wood & Others	Concrete & Steel	Total
Region Total	15	20	35

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 6, 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										
Colusa	1	11	8	1	0.00	0	0	0	0	21
Shasta	4	224	157	34	0.00	0	1	0	1	422
Siskiyou	0	0	0	0	0.00	0	0	0	0	0
Tehama	6	248	164	25	0.00	1	0	0	1	445
Plumas	1,682	16,885	8,533	463	0.22	523	490	425	550	29,551
Butte	62	1,352	920	120	0.00	8	12	14	15	2,502
Nevada	23	559	315	27	0.00	2	3	3	5	936
Yuba	1	54	38	6	0.00	0	0	0	0	99
Glenn	14	156	111	39	0.00	1	1	1	1	324

	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	
Alpine	0	0	0	0	0.00	0	0	0	0	0
Lassen	24,983	123,774	52,528	2,838	2.46	12,600	5,145	4,326	7,341	233,535
Sutter	9	347	225	41	0.00	1	1	1	1	626
Placer	3	251	142	9	0.00	0	1	1	2	411
El Dorado	1	139	84	5	0.00	0	0	0	0	229
Amador	0	0	0	0	0.00	0	0	0	0	0
Modoc	0	13	9	2	0.00	0	0	0	0	24
Sierra	8	257	162	15	0.03	1	1	1	1	446
Total	26,796	144,270	63,395	3,624	0.16	13,136	5,655	4,774	7,920	269,571
Region Total	26,796	144,270	63,395	3,624	0.16	13,136	5,655	4,774	7,920	269,571

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 06, 2024

All values are in thousands of dollars

	Highway	Railway	Light Rail	Bus Facility	Ports	Ferries	Airport	Total
California								
Alpine								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	51	51
Total	0	0	0	0	0	0	51	51
Amador								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
Butte								
Segments	0	0	0					0
Bridges	1	0	0					1
Tunnels	0	0	0					0
Facilities		26	0	0	0	0	231	256

	Highway	Railway	Light Rail	Bus Facility	Ports	Ferries	Airport	Total
Total	1	26	0	0	0	0	231	257
Colusa								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	6	6
Total	0	0	0	0	0	0	6	6
El Dorado								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		0	0	45	0	0	77	122
Total	0	0	0	45	0	0	77	122
Glenn								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		0	0	0	37	0	102	139
Total	0	0	0	0	37	0	102	139
Lassen								
Segments	0	0	0					0
Bridges	2,740	2,404	0					5,144
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	5,296	5,296

	Highway	Railway	Light Rail	Bus Facility	Ports	Ferries	Airport	Total
Total	2,740	2,404	0	0	0	0	5,296	10,439
Modoc								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	204	204
Total	0	0	0	0	0	0	204	204
Nevada								
Segments	0	0	0					0
Bridges	2	0	0					2
Tunnels	0	0	0					0
Facilities		26	0	0	0	0	102	128
Total	2	26	0	0	0	0	102	129
Placer								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		34	0	21	0	0	68	124
Total	0	34	0	21	0	0	68	124
Plumas								
Segments	0	0	0					0
Bridges	222	96	0					317
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	1,887	1,887

	Highway	Railway	Light Rail	Bus Facility	Ports	Ferries	Airport	Total
Total	222	96	0	0	0	0	1,887	2,204
Shasta								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		26	0	22	0	0	229	277
Total	0	26	0	22	0	0	229	277
Sierra								
Segments	0	0	0					0
Bridges	0	2	0					3
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	217	217
Total	0	2	0	0	0	0	217	220
Siskiyou								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		3	0	2	0	0	17	22
Total	0	3	0	2	0	0	17	22
Sutter								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	129	129

	Highway	Railway	Light Rail	Bus Facility	Ports	Ferries	Airport	Total
Total	0	0	0	0	0	0	129	129
Tehama								
Segments	0	0	0					0
Bridges	1	0	0					1
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	102	102
Total	1	0	0	0	0	0	102	103
Yuba								
Segments	0	0	0					0
Bridges	0	0	0					0
Tunnels	0	0	0					0
Facilities		0	0	22	0	0	11	33
Total	0	0	0	22	0	0	11	33
Total	2,967	2,616	0	112	37	0	8,729	14,460
Region Total	2,967	2,616	0	112	37	0	8,729	14,460

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 06, 2024

All values are in thousands of dollars

	Potable Water	Waste Water	Oil Systems	Natural Gas	Electric Power	Communication	Total
California							
Alpine							
Facilities	0	0	0	0	0	0	0
Pipelines	2	1	0	0			2
Total	2	1	0	0	0	0	2
Amador							
Facilities	0	3	0	0	17	0	20
Pipelines	4	2	0	0			5
Total	4	4	0	0	17	0	25
Butte							
Facilities	28	492	0	0	47,559	3	48,082
Pipelines	76	38	0	0			114
Total	104	530	0	0	47,559	3	48,196
Colusa							
Facilities	0	8	0	3	339	0	349

	Potable Water	Waste Water	Oil Systems	Natural Gas	Electric Power	Communication	Total
<i>Pipelines</i>	23	11	0	0			34
Total	23	19	0	3	339	0	384
El Dorado							
<i>Facilities</i>	1	10	0	0	4,172	0	4,183
<i>Pipelines</i>	24	12	0	0			35
Total	24	22	0	0	4,172	0	4,218
Glenn							
<i>Facilities</i>	0	123	0	0	2	0	125
<i>Pipelines</i>	30	15	0	0			44
Total	30	138	0	0	2	0	170
Lassen							
<i>Facilities</i>	0	23,736	0	0	56,697	87	80,520
<i>Pipelines</i>	3,167	1,591	0	0			4,758
Total	3,167	25,327	0	0	56,697	87	85,278
Modoc							
<i>Facilities</i>	0	123	0	3	0	0	126
<i>Pipelines</i>	52	26	0	0			78
Total	52	149	0	3	0	0	204
Nevada							
<i>Facilities</i>	0	500	0	0	2,654	1	3,155
<i>Pipelines</i>	46	23	0	0			69

	Potable Water	Waste Water	Oil Systems	Natural Gas	Electric Power	Communication	Total
Total	46	522	0	0	2,654	1	3,223
Placer							
<i>Facilities</i>	0	26	0	0	12,148	0	12,174
<i>Pipelines</i>	51	26	0	0			76
Total	51	51	0	0	12,148	0	12,250
Plumas							
<i>Facilities</i>	348	8,988	0	0	103,108	14	112,459
<i>Pipelines</i>	579	291	0	0			869
Total	927	9,279	0	0	103,108	14	113,328
Shasta							
<i>Facilities</i>	29	622	0	75	18,921	2	19,649
<i>Pipelines</i>	86	43	0	0			130
Total	115	666	0	75	18,921	2	19,778
Sierra							
<i>Facilities</i>	0	0	0	0	12,088	0	12,088
<i>Pipelines</i>	56	28	0	0			84
Total	56	28	0	0	12,088	0	12,172
Siskiyou							
<i>Facilities</i>	0	3	0	0	5	0	7
<i>Pipelines</i>	32	16	0	0			48
Total	32	19	0	0	5	0	55

	Potable Water	Waste Water	Oil Systems	Natural Gas	Electric Power	Communication	Total
Sutter							
<i>Facilities</i>	0	246	0	0	1,299	0	1,545
<i>Pipelines</i>	28	14	0	0			43
Total	28	260	0	0	1,299	0	1,588
Tehama							
<i>Facilities</i>	0	369	0	75	630	1	1,074
<i>Pipelines</i>	79	39	0	0			118
Total	79	408	0	75	630	1	1,193
Yuba							
<i>Facilities</i>	0	251	0	0	14,285	0	14,536
<i>Pipelines</i>	25	13	0	0			38
Total	25	264	0	0	14,285	0	14,573
Total	4,762	37,687	0	155	273,923	109	316,637
Region Total	4,762	37,687	0	155	273,923	109	316,637

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.

Hazus Quick Assessment Report

Estimated Economic Loss (\$ Billions)

Category	Description	Range
General Building Stock	Building Damage	0.10 - 0.30
	Building Contents	< 0.1
	Business Interruption	0.00 - 0.10
Infrastructure	Lifelines Damage	
Total		0.10 - 0.50

Preliminary Damage Assessment (PDA) Estimates

Description	Residential	Commercial	Other	Total
Affected	3,800	250	90	4,140
Minor	920	130	50	1,100
Major	160	30	< 10	190
Destroyed	10	< 10	< 10	10
Total	4,890	410	140	5,440

Estimated Casualties : Night Time

Severity Level	Description	# Persons
Level 1	Medical Aid	10 - 30
Level 2	Hospital Care	< 10
Level 3	Life-threatening	< 10
Level 4	Fatalities	< 10

Estimated Shelter Needs

Type	Households	People
Displaced Households	30 - 130	75 - 325
Public Shelter	20	40

Comments :

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Earthquake Information

Location :

Origin Time:

Magnitude : 7.03

Epicenter Latitude/Longitude :
/

Depth & Type : /U

Name :
NA

Ground Motion /Attenuation :

Maximum PGA: 0.00

Information Sources:

Comments :

Population and Building Exposure

Population: 1,539,955

Building Exposure : (\$ Millions)

Residential	227,151
Commercial	57,128
Other	50,803
Total	335,082

Counties : See Appendix

Major Metro Area :

Hazus Quick Assessment Report

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Estimated Casualties : Commute Time

Severity Level	Description	# Persons
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Epicenter Latitude/Longitude :
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Depth & Type : /U

Name :
NA

Ground Motion /Attenuation :

Maximum PGA: 0.00

Information Sources:

Comments :

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Building Exposure : (\$ Millions)

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Commercial	57,128
Other	50,803
Total	335,082

Counties : See Appendix

Major Metro Area :

Shelter Summary Report

May 06, 2024

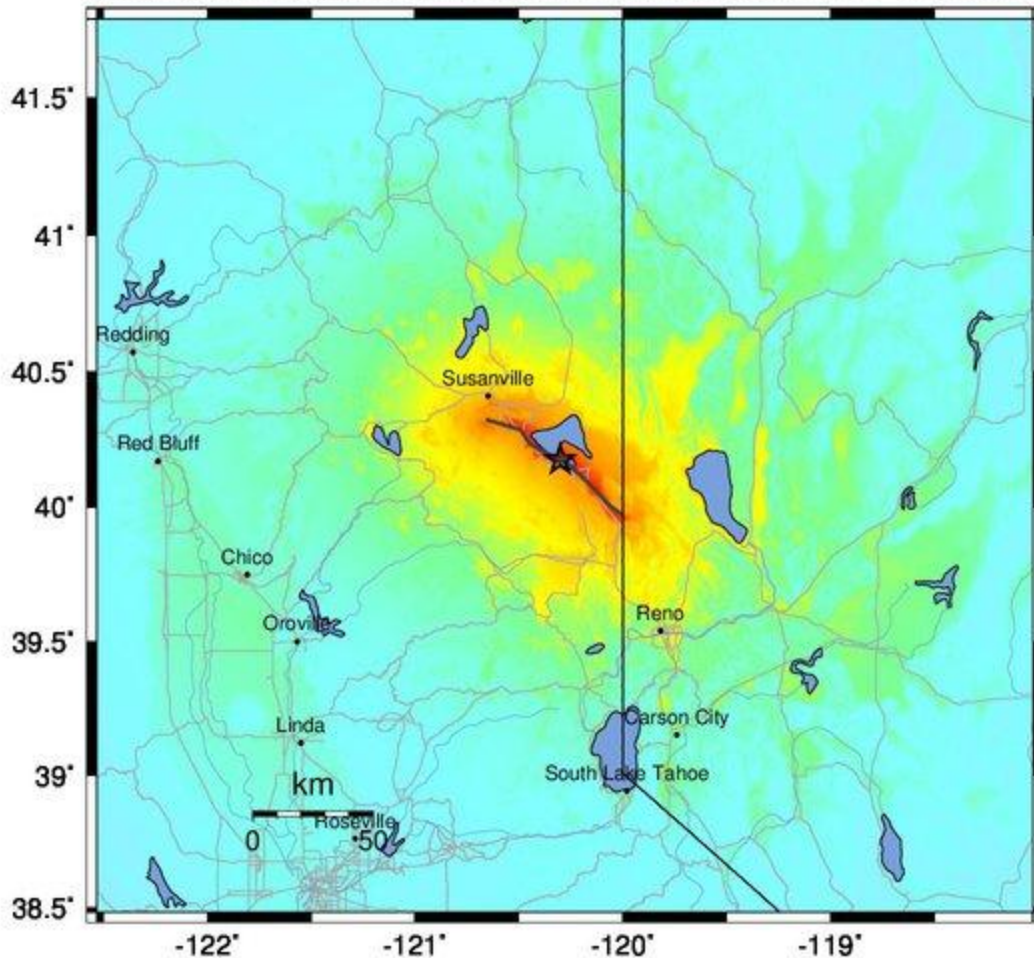
	# of Displaced Households	# of People Needing Short Term Shelter
California		
Alpine	0	0
Amador	0	0
Butte	0	0
Colusa	0	0
El Dorado	0	0
Glenn	0	0
Lassen	67	37
Modoc	0	0
Nevada	0	0
Placer	0	0
Plumas	0	0
Shasta	0	0
Sierra	0	0
Siskiyou	0	0
Sutter	0	0
Tehama	0	0
Yuba	0	0
Total	67	38
Region Total	67	38

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 Honey Lake - Median ground motions Scenario

Scenario Date: May 16, 2017 08:32:08 AM MDT M 7.0 N40.18 W120.30 Depth: 6.2km



PLANNING SCENARIO ONLY -- Map Version 14 Processed 2017-05-16 07:39:46 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)