Hazus: Earthquake Global Risk Report

Region Name: SoCalShakeOut

Earthquake Scenario: sclegacyardentsentry2015_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 15 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 82,867.57 square miles and contains 5,938 census tracts. There are over 8,599 thousand households in the region which has a total population of 25,855,212 peopleF. The distribution of population by Total Region and County is provided in Appendix B.

There are an estimated 7,375 thousand buildings in the region with a total building replacement value (excluding contents) of (millions of dollars). Approximately 90.00 % of the buildings (and % of the building value) are associated with residential housing.

The replacement value of the transportation and utility lifeline systems is estimated to be 313,975 and 227,545 (millions of dollars) , respectively.

Building and Lifeline Inventory

Building Inventory

Hazus estimates that there are 7,375 thousand buildings in the region which have an aggregate total replacement value of (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 87% 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 369 hospitals in the region with a total bed capacity of 68,087 beds. There are 8,398 schools, 1,526 fire stations, 525 police stations and 134 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 541,520.00 (millions of dollars). This inventory includes over 14,041.12 miles of highways, 13,404 bridges, 300,868.46 miles of pipes.

Table 1: Transportation System Lifeline Inventory

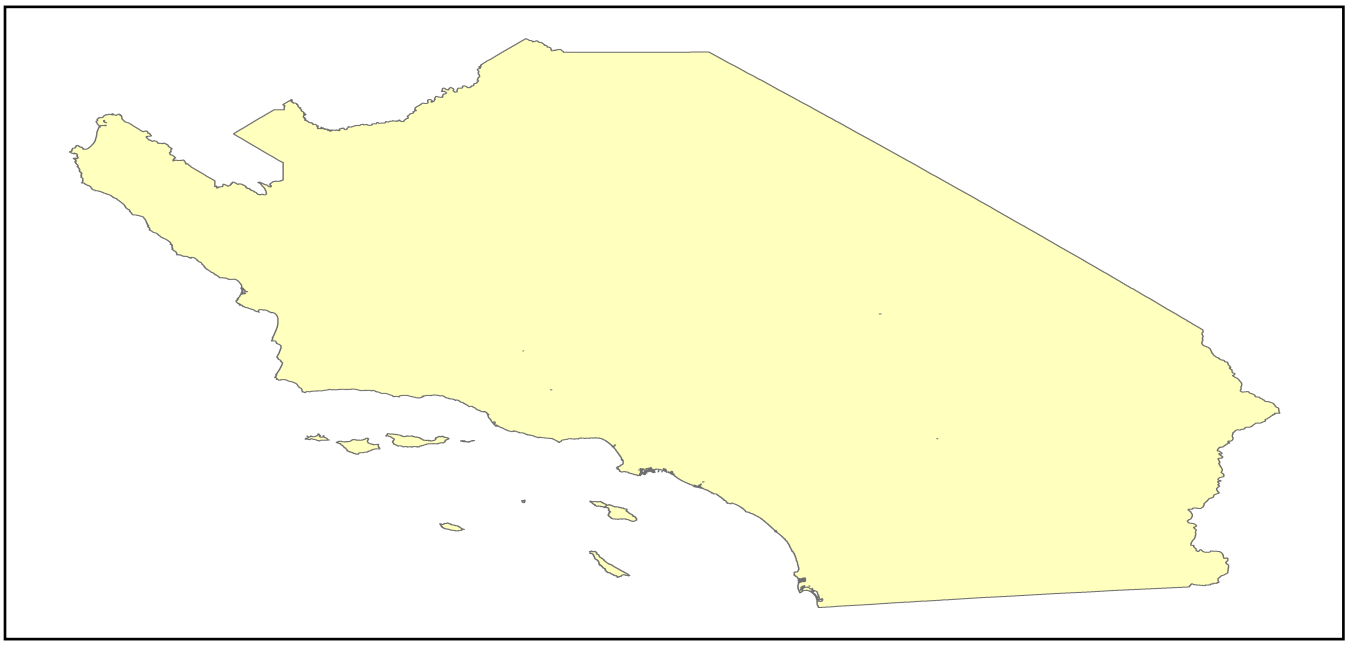
System	Component	# Locations/ # Segments	Replacement value (millions of dollars)
Highway	Bridges	13,404	72063.0196
	Segments	10,797	140091.5881
	Tunnels	65	586.0681
		Subtotal	**212740.6758**
Railways	Bridges	2,319	13195.1100
	Facilities	126	335.5380
	Segments	2,222	70327.2831
	Tunnels	0	0.0000
		Subtotal	**83857.9311**
Light Rail	Bridges	51	13.2750
	Facilities	149	3200.8000
	Segments	8	5399.1047
	Tunnels	0	0.0000
		Subtotal	**8613.1797**
Bus	Facilities	55	119.7095
		Subtotal	**119.7095**
Ferry	Facilities	22	29.2820
		Subtotal	**29.2820**
Port	Facilities	357	1360.8285
		Subtotal	**1360.8285**
Airport	Facilities	181	5013.8658
	Runways	206	2239.9548
		Subtotal	**7253.8206**
		Total	**313,975.40**

Table 2: Utility System Lifeline Inventory

System	Component	# Locations / Segments	Replacement value (millions of dollars)
Potable Water	Distribution Lines	NA	5976.3859
	Facilities	53	2082.5820
	Pipelines	0	0.0000
		Subtotal	**8058.9679**
Waste Water	Distribution Lines	NA	3585.8315
	Facilities	149	25620.8182
	Pipelines	0	0.0000
		Subtotal	**29206.6497**
Natural Gas	Distribution Lines	NA	2390.5543
	Facilities	45	1617.5273
	Pipelines	455	21452.9073
		Subtotal	**25460.9889**
Oil Systems	Facilities	69	8.1420
	Pipelines	0	0.0000
		Subtotal	**8.1420**
Electrical Power	Facilities	704	164743.9548
		Subtotal	**164743.9548**
Communication	Facilities	562	66.3160
		Subtotal	**66.3160**
		Total	**227,545.00**

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	sclegacyardentsentry2015_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	7.80
Depth (km)	NA
Rupture Length (Km)	NA
Rupture Orientation (degrees)	NA
Attenuation Function	NA

Direct Earthquake Damage

Building Damage

Hazus estimates that about 368,743 buildings will be at least moderately damaged. This is over 5.00 % of the buildings in the region. There are an estimated 28,165 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

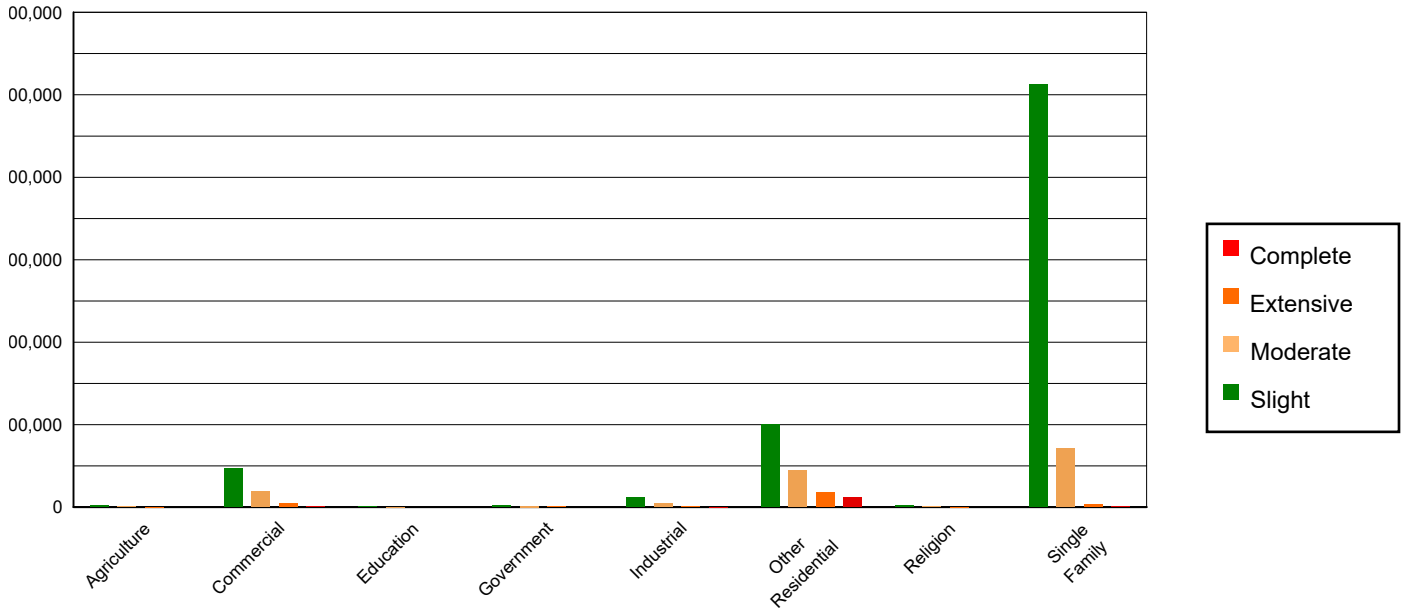


Table 3: Expected Building Damage by Occupancy

	None		Slight		Moderate		Extensive		Complete	
	Count	(%)	Count	(%)	Count	(%)	Count	(%)	Count	(%)
Agriculture	18280.63	0.32	4060.44	0.30	1498.75	0.53	343.44	0.62	96.74	0.34
Commercial	360506.55	6.38	94594.59	6.97	37160.97	13.05	8747.16	15.68	2531.73	8.99
Education	12144.37	0.21	1366.05	0.10	454.69	0.16	96.73	0.17	14.16	0.05
Government	28352.83	0.50	4217.71	0.31	2699.92	0.95	743.93	1.33	183.61	0.65
Industrial	94434.81	1.67	23641.63	1.74	9673.64	3.40	2193.40	3.93	451.53	1.60
Other Residential	791063.27	14.00	199746.67	14.72	88632.42	31.12	35852.97	64.28	22996.66	81.65
Religion	18561.60	0.33	4882.86	0.36	2289.89	0.80	650.76	1.17	192.89	0.68
Single Family	4326851.74	76.58	1024263.73	75.49	142389.26	50.00	7150.42	12.82	1697.83	6.03
Total	**5,650,196**		**1,356,774**		**284,800**		**55,779**		**28,165**	

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

	None		Slight		Moderate		Extensive		Complete	
	Count	(%)	Count	(%)	Count	(%)	Count	(%)	Count	(%)
Wood	5074991.90	89.82	1196218.83	88.17	167486.70	58.81	6806.04	12.20	820.59	2.91
Steel	81695.65	1.45	29174.37	2.15	20914.79	7.34	6202.78	11.12	1394.95	4.95
Concrete	94147.23	1.67	26204.76	1.93	12759.29	4.48	3861.79	6.92	562.99	2.00
Precast	49039.70	0.87	12718.29	0.94	4679.53	1.64	659.20	1.18	130.28	0.46
RM	258834.67	4.58	39659.34	2.92	15524.95	5.45	5620.46	10.08	1926.29	6.84
URM	8234.86	0.15	9286.86	0.68	9992.62	3.51	3236.06	5.80	1924.31	6.83
MH	83251.79	1.47	43511.23	3.21	53441.65	18.76	29392.48	52.69	21405.76	76.00
Total	**5,650,196**		**1,356,774**		**284,800**		**55,779**		**28,165**	

*Note:
RM Reinforced Masonry
URM Unreinforced Masonry
MH Manufactured Housing

Essential Facility Damage

Before the earthquake, the region had 68,087 hospital beds available for use. On the day of the earthquake, the model estimates that only 49,430 hospital beds (73.00%) are available for use by patients already in the hospital and those injured by the earthquake. After one week, 86.00% of the beds will be back in service. By 30 days, 97.00% 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	369	38	2	284
Schools	8,398	926	53	6,179
EOCs	134	19	1	99
PoliceStations	525	54	6	411
FireStations	1,526	112	5	1,201

Transportation Lifeline Damage

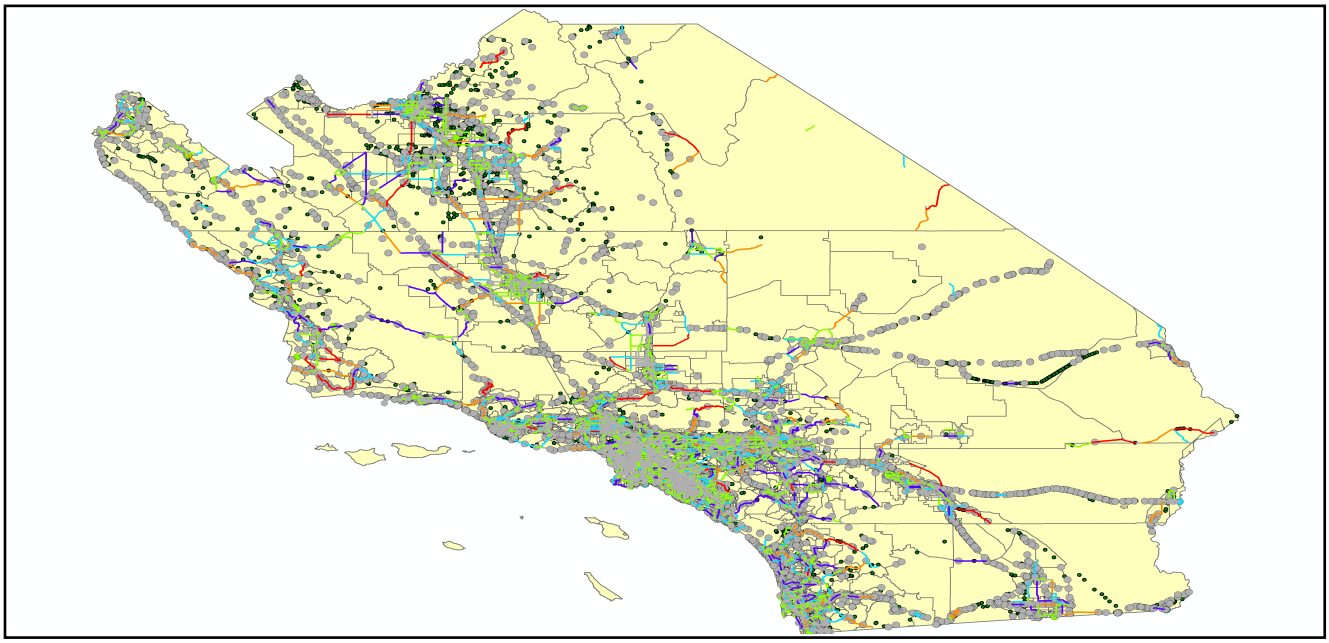


Table 6: Expected Damage to the Transportation Systems

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	10,797	0	0	10,797	10,797
	Bridges	13,404	435	23	12,994	13,233
	Tunnels	65	0	0	65	65
Railways	Segments	2,222	0	0	2,222	2,222
	Bridges	2,319	66	0	2,253	2,314
	Tunnels	0	0	0	0	0
	Facilities	126	5	0	125	126
Light Rail	Segments	8	0	0	8	8
	Bridges	51	0	0	51	51
	Tunnels	0	0	0	0	0
	Facilities	149	0	0	149	149
Bus	Facilities	55	5	0	55	55
Ferry	Facilities	22	0	0	22	22
Port	Facilities	357	0	0	357	357
Airport	Facilities	181	7	0	181	181
	Runways	206	0	0	206	206

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	53	9	0	42	53
Waste Water	149	14	0	102	149
Natural Gas	45	8	0	35	45
Oil Systems	69	0	0	69	69
Electrical Power	704	313	29	468	615
Communication	562	81	0	506	562

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

System	Total Pipelines Length (miles)	Number of Leaks	Number of Breaks
Potable Water	185,678	516724	129181
Waste Water	111,407	259564	64891
Natural Gas	3,785	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	8,599,247	6,762,731	6,722,457	6,640,389	6,179,904	5,211,754
Electric Power		642,384	446,553	211,975	28,457	816

Induced Earthquake Damage

Fire Following Earthquake

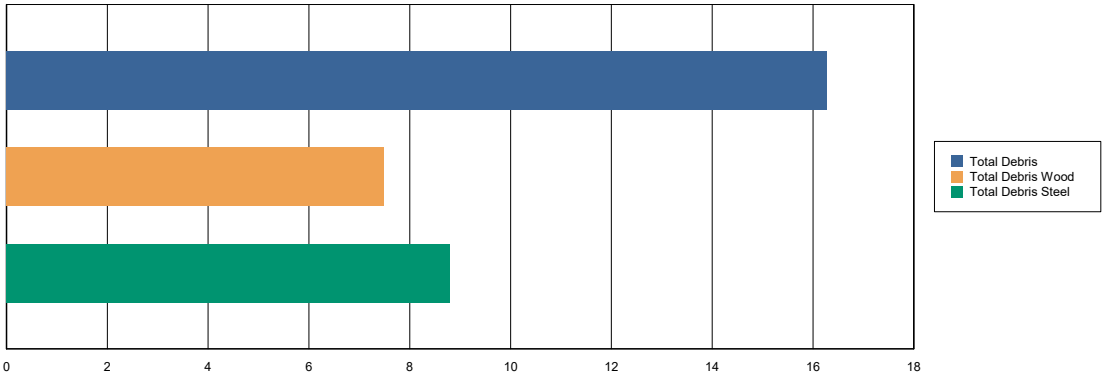
Fires often occur after an earthquake. Because of the number of fires and the lack of water to fight the fires, they can often burn out of control. Hazus uses a Monte Carlo simulation model to estimate the number of ignitions and the amount of burnt area. For this scenario, the model estimates that there will be 117 ignitions that will burn about 1.64 sq. mi 0.00 % of the region's total area.) The model also estimates that the fires will displace about 17,610 people and burn about 1,996 (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 16,284,000 tons of debris will be generated. Of the total amount, Brick/Wood comprises 46.00% 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 651,360 truckloads (@25 tons/truck) to remove the debris generated by the earthquake.

Earthquake Debris (millions of tons)



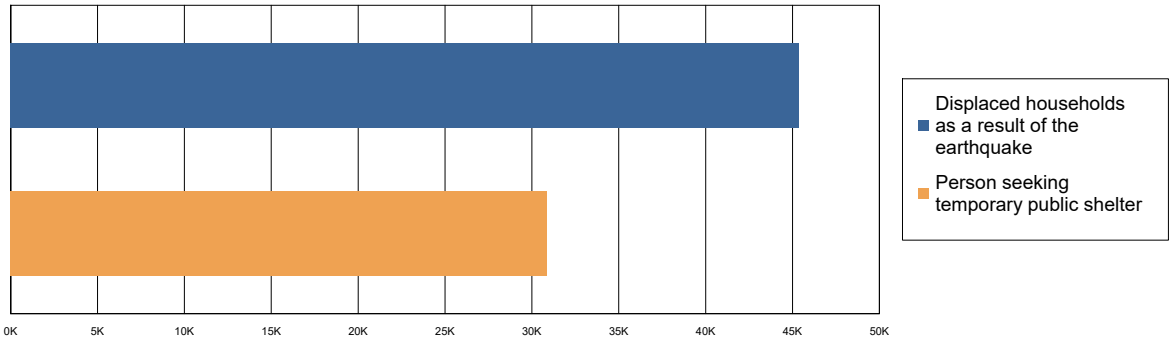
Brick/ Wood	Reinforced Concrete/Steel	Total Debris	Truck Load
7.49	8.79	16.28	651,360 (@25 tons/truck)

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 45,376 households to be displaced due to the earthquake. Of these, 30,875 people (out of a total population of 25,855,212) will seek temporary shelter in public shelters.

Displaced Households/ Persons Seeking Short Term Public Shelter



Displaced households as a result of the earthquake	Persons seeking temporary public shelter
45,376	30,875

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	110.04	21.59	2.74	5.36
	Commuting	1.65	2.29	3.75	0.73
	Educational	0.00	0.00	0.00	0.00
	Hotels	4.82	0.71	0.06	0.13
	Industrial	99.09	18.19	2.12	4.12
	Other-Residential	7890.24	1519.97	113.95	202.56
	Single Family	3334.72	325.59	30.46	59.88
	Total	**11,441**	**1,888**	**153**	**273**
2 PM	Commercial	7721.22	1541.96	198.99	386.06
	Commuting	14.81	20.61	33.75	6.59
	Educational	3100.20	585.32	73.18	141.14
	Hotels	0.93	0.14	0.01	0.02
	Industrial	727.82	134.11	15.73	30.33
	Other-Residential	2554.44	501.44	38.90	67.90
	Single Family	986.15	104.21	10.46	19.64
	Total	**15,106**	**2,888**	**371**	**652**
5 PM	Commercial	5542.44	1123.60	147.56	282.24
	Commuting	263.17	366.46	599.90	117.11
	Educational	607.69	113.10	14.49	27.78
	Hotels	1.44	0.21	0.02	0.04
	Industrial	454.89	83.82	9.83	18.96
	Other-Residential	2901.00	560.26	43.81	76.63
	Single Family	1246.95	128.83	12.75	23.94
	Total	**11,018**	**2,376**	**828**	**547**

Economic Loss

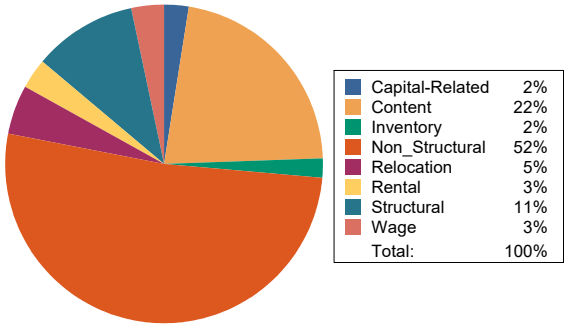
The total economic loss estimated for the earthquake is 160,991.81 (millions of dollars), which includes building and lifeline related losses based on the region's available inventory. The following three sections provide more detailed information about these losses.

Building-Related Losses

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

The total building-related losses were 115,185.56 (millions of dollars); 14 % 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 46 % 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)

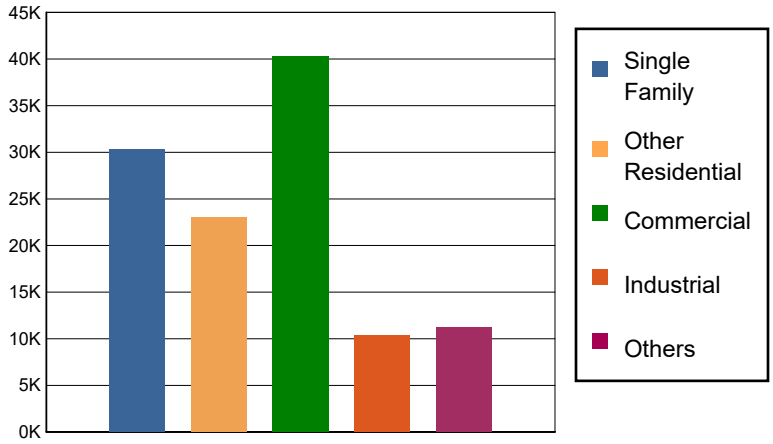


Table 11: Building-Related Economic Loss Estimates

(Millions of dollars)

Category	Area	Single Family	Other Residential	Commercial	Industrial	Others	Total
Income Losses							
	Wage	0.0000	496.1820	2754.3794	120.0047	325.2777	3,695.8438
	Capital-Related	0.0000	211.0071	2490.8848	75.9831	88.5026	2,866.3776
	Rental	337.3996	1135.9230	1589.8234	60.2265	164.4978	3,287.8703
	Relocation	1087.5691	1056.4760	2249.6007	295.9139	1159.1175	5,848.6772
	Subtotal	**1424.9687**	**2899.5881**	**9084.6883**	**552.1282**	**1737.3956**	**15698.7689**
Capital Stock Losses							
	Structural	3078.0318	2680.6953	4366.5398	1065.0505	1251.9718	12,442.2892
	Non_Structural	19027.6960	14058.4166	16081.7656	4827.2503	5385.8004	59,380.9289
	Content	6830.7156	3369.4476	9014.3445	3371.4073	2659.2090	25,245.1240
	Inventory	0.0000	0.0000	1695.5849	514.3529	208.5113	2,418.4491
	Subtotal	**28936.4434**	**20108.5595**	**31158.2348**	**9778.0610**	**9505.4925**	**99486.7912**
	Total	**30361.41**	**23008.15**	**40242.92**	**10330.19**	**11242.89**	**115185.56**

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	140091.5881	0.0000	0.00
	Bridges	72063.0196	1369.1042	1.90
	Tunnels	586.0681	2.9441	0.50
	Subtotal	**212740.6758**	**1372.0483**	
Railways	Segments	70327.2831	0.0000	0.00
	Bridges	13195.1100	272.5353	2.07
	Tunnels	0.0000	0.0000	0.00
	Facilities	335.5380	44.6914	13.32
	Subtotal	**83857.9311**	**317.2267**	
Light Rail	Segments	5399.1047	0.0000	0.00
	Bridges	13.2750	0.0156	0.12
	Tunnels	0.0000	0.0000	0.00
	Facilities	3200.8000	306.4250	9.57
	Subtotal	**8613.1797**	**306.4406**	
Bus	Facilities	119.7095	15.7687	13.17
	Subtotal	**119.7095**	**15.7687**	
Ferry	Facilities	29.2820	1.8918	6.46
	Subtotal	**29.2820**	**1.8918**	
Port	Facilities	1360.8285	96.8663	7.12
	Subtotal	**1360.8285**	**96.8663**	
Airport	Facilities	5013.8658	577.9116	11.53
	Runways	2239.9548	0.0000	0.00
	Subtotal	**7253.8206**	**577.9116**	
	Total	**313,975.43**	**2,688.15**	

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	2082.5820	197.3806	9.48
	Distribution Lines	5976.3859	2325.2561	38.91
	Subtotal	**8058.9679**	**2522.6367**	
Waste Water	Pipelines	0.0000	0.0000	0.00
	Facilities	25620.8182	1684.5258	6.57
	Distribution Lines	3585.8315	1168.0356	32.57
	Subtotal	**29206.6497**	**2852.5614**	
Natural Gas	Pipelines	21452.9073	0.0000	0.00
	Facilities	1617.5273	146.2980	9.04
	Distribution Lines	2390.5543	400.1603	16.74
	Subtotal	**25460.9889**	**546.4583**	
Oil Systems	Pipelines	0.0000	0.0000	0.00
	Facilities	8.1420	0.3672	4.51
	Subtotal	**8.1420**	**0.3672**	
Electrical Power	Facilities	164743.9548	37186.3252	22.57
	Subtotal	**164743.9548**	**37186.3252**	
Communication	Facilities	66.3160	9.7083	14.64
	Subtotal	**66.3160**	**9.7083**	
	Total	**227,545.02**	**43,118.06**	

Appendix A: County Listing for the Region

Fresno,CA

Imperial,CA

Inyo,CA

Kern,CA

Kings,CA

Los Angeles,CA

Monterey,CA

Orange,CA

Riverside,CA

San Bernardino,CA

San Diego,CA

San Luis Obispo,CA

Santa Barbara,CA

Tulare,CA

Ventura,CA

Appendix B: Regional Population and Building Value Data

State	County Name	Population	Building Value (millions of dollars)		
			Residential	Non-Residential	Total
California					
	Fresno	1,008,654	98,532	61,772	160,304
	Imperial	179,702	20,945	12,603	33,548
	Inyo	19,016	2,951	1,970	4,921
	Kern	909,235	87,567	59,168	146,736
	Kings	152,486	13,719	7,861	21,581
	Los Angeles	10,014,009	950,697	566,995	1,517,692
	Monterey	439,035	47,655	28,750	76,405
	Orange	3,186,989	363,381	176,806	540,188
	Riverside	2,418,185	281,482	137,249	418,731
	San Bernardino	2,181,654	225,045	152,557	377,602
	San Diego	3,298,634	375,834	193,238	569,072
	San Luis Obispo	282,424	41,720	20,896	62,616
	Santa Barbara	448,229	49,971	28,481	78,452
	Tulare	473,117	43,262	31,210	74,472
	Ventura	843,843	99,299	52,072	151,371
Total Region		**25,855,212**	**2,702,060**	**1,531,628**	**4,233,691**

Building Damage by Count by General Occupancy

RiskMAP
Increasing Resilience Together

May 02, 2024

	# of Buildings					
	None	Slight	Moderate	Extensive	Complete	Total
California						
Fresno						
Agriculture	3,003	331	76	11	0	3,421
Commercial	19,968	869	197	19	1	21,054
Education	594	7	1	0	0	602
Government	273	15	3	0	0	291
Industrial	4,977	291	72	8	0	5,348
Religion	1,410	75	20	2	0	1,507
Other Residential	38,677	1,845	414	36	1	40,973
Single Family	222,221	4,168	36	0	0	226,425
Imperial						
Agriculture	86	35	16	1	0	138
Commercial	2,617	809	205	15	0	3,646
Education	88	10	1	0	0	99
Government	155	37	10	1	0	202
Industrial	384	144	47	5	0	580
Religion	207	68	18	2	0	295
Other Residential	3,134	1,592	1,822	895	75	7,518
Single Family	27,398	7,752	255	1	0	35,405
Inyo						

		# of Buildings					
		None	Slight	Moderate	Extensive	Complete	Total
	Agriculture	*32*	*0*	*0*	*0*	*0*	*32*
	Commercial	*721*	*0*	*0*	*0*	*0*	*721*
	Education	*41*	*0*	*0*	*0*	*0*	*41*
	Government	*101*	*0*	*0*	*0*	*0*	*101*
	Industrial	*257*	*0*	*0*	*0*	*0*	*257*
	Religion	*57*	*0*	*0*	*0*	*0*	*57*
	Other Residential	*4,048*	*2*	*0*	*0*	*0*	*4,050*
	Single Family	*4,446*	*0*	*0*	*0*	*0*	*4,446*
Kern							
	Agriculture	*2,894*	*1,113*	*492*	*115*	*31*	*4,645*
	Commercial	*10,986*	*3,047*	*1,117*	*323*	*94*	*15,567*
	Education	*401*	*45*	*14*	*2*	*0*	*462*
	Government	*305*	*90*	*38*	*9*	*1*	*443*
	Industrial	*3,979*	*1,343*	*573*	*129*	*24*	*6,047*
	Religion	*1,010*	*287*	*149*	*56*	*22*	*1,524*
	Other Residential	*36,344*	*9,365*	*5,471*	*2,757*	*584*	*54,520*
	Single Family	*162,410*	*39,670*	*2,975*	*81*	*3*	*205,139*
Kings							
	Agriculture	*230*	*58*	*16*	*2*	*0*	*306*
	Commercial	*1,830*	*331*	*125*	*29*	*3*	*2,318*
	Education	*96*	*6*	*1*	*0*	*0*	*103*
	Government	*61*	*9*	*2*	*0*	*0*	*72*
	Industrial	*418*	*97*	*34*	*5*	*0*	*555*
	Religion	*162*	*33*	*12*	*3*	*0*	*210*
	Other Residential	*3,262*	*728*	*285*	*63*	*4*	*4,342*

	# of Buildings					
	None	Slight	Moderate	Extensive	Complete	Total
Single Family	*32,231*	*3,914*	*98*	*1*	*0*	*36,245*
Los Angeles						
Agriculture	*1,188*	*485*	*261*	*81*	*17*	*2,032*
Commercial	*124,862*	*42,859*	*18,819*	*3,873*	*448*	*190,861*
Education	*4,594*	*601*	*231*	*55*	*6*	*5,486*
Government	*1,891*	*709*	*340*	*81*	*9*	*3,031*
Industrial	*35,451*	*10,953*	*5,267*	*1,283*	*172*	*53,126*
Religion	*6,552*	*2,507*	*1,265*	*289*	*38*	*10,651*
Other Residential	*366,035*	*87,558*	*20,050*	*6,217*	*1,810*	*481,671*
Single Family	*1,397,562*	*367,457*	*36,522*	*1,472*	*127*	*1,803,140*
Monterey						
Agriculture	*1,551*	*182*	*69*	*13*	*1*	*1,815*
Commercial	*9,104*	*109*	*29*	*4*	*0*	*9,246*
Education	*238*	*1*	*0*	*0*	*0*	*239*
Government	*183*	*2*	*0*	*0*	*0*	*185*
Industrial	*1,805*	*35*	*9*	*1*	*0*	*1,850*
Religion	*567*	*9*	*3*	*0*	*0*	*580*
Other Residential	*19,194*	*407*	*195*	*12*	*0*	*19,809*
Single Family	*90,443*	*431*	*3*	*0*	*0*	*90,876*
Orange						
Agriculture	*862*	*195*	*62*	*14*	*2*	*1,135*
Commercial	*53,270*	*11,367*	*3,067*	*576*	*59*	*68,340*
Education	*1,744*	*119*	*21*	*5*	*1*	*1,890*
Government	*485*	*122*	*38*	*5*	*0*	*650*
Industrial	*14,066*	*3,552*	*1,040*	*123*	*14*	*18,795*

	# of Buildings					
	None	Slight	Moderate	Extensive	Complete	Total
Religion	*1,554*	*363*	*112*	*25*	*3*	*2,057*
Other Residential	*60,911*	*16,155*	*7,867*	*762*	*22*	*85,718*
Single Family	*617,153*	*87,193*	*1,837*	*28*	*1*	*706,212*
Riverside						
Agriculture	*1,081*	*442*	*151*	*29*	*10*	*1,713*
Commercial	*23,880*	*14,768*	*5,776*	*1,383*	*550*	*46,357*
Education	*709*	*211*	*59*	*9*	*2*	*990*
Government	*2,140*	*2,304*	*2,037*	*563*	*132*	*7,175*
Industrial	*3,836*	*1,821*	*601*	*116*	*36*	*6,409*
Religion	*666*	*408*	*179*	*48*	*18*	*1,319*
Other Residential	*36,716*	*33,970*	*25,265*	*13,093*	*13,757*	*122,799*
Single Family	*345,019*	*218,263*	*39,676*	*1,927*	*569*	*605,455*
San Bernardino						
Agriculture	*848*	*643*	*229*	*62*	*33*	*1,815*
Commercial	*15,421*	*14,491*	*6,465*	*2,309*	*1,355*	*40,041*
Education	*543*	*294*	*118*	*24*	*5*	*985*
Government	*536*	*404*	*176*	*82*	*41*	*1,238*
Industrial	*4,108*	*3,247*	*1,480*	*444*	*195*	*9,474*
Religion	*800*	*745*	*447*	*218*	*110*	*2,320*
Other Residential	*31,473*	*30,286*	*19,792*	*10,770*	*6,500*	*98,821*
Single Family	*219,951*	*241,059*	*59,725*	*3,635*	*997*	*525,367*
San Diego						
Agriculture	*2,162*	*25*	*4*	*0*	*0*	*2,190*
Commercial	*61,711*	*617*	*40*	*1*	*0*	*62,369*
Education	*1,926*	*6*	*0*	*0*	*0*	*1,932*

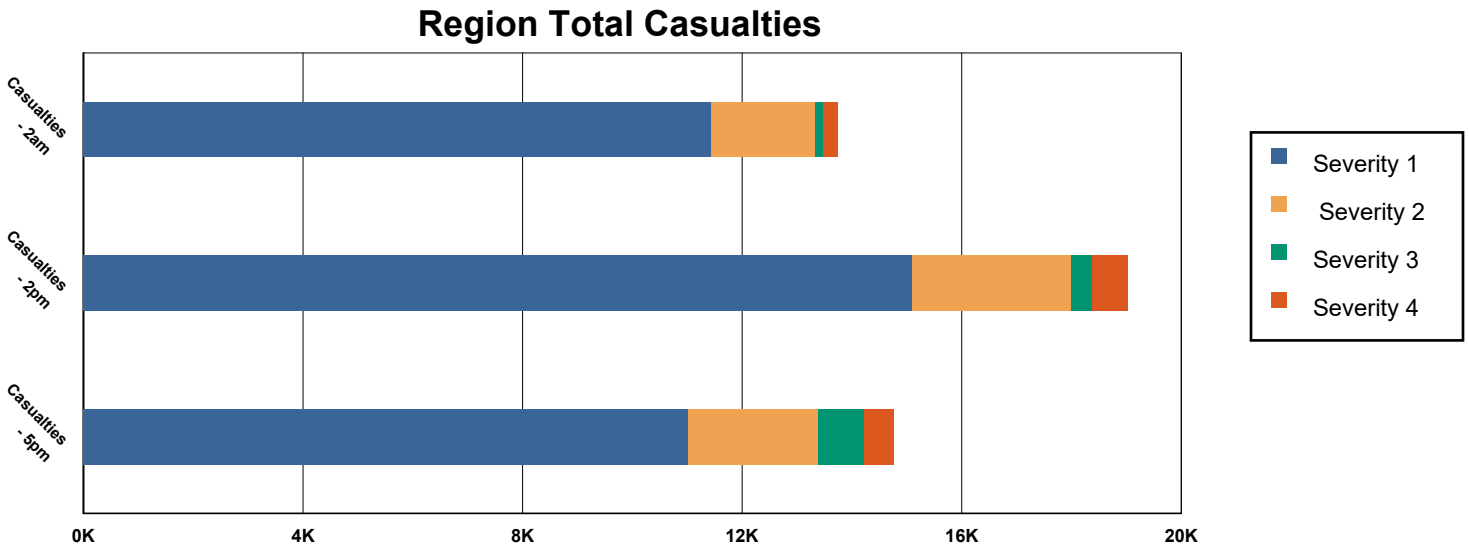
	# of Buildings					
	None	Slight	Moderate	Extensive	Complete	Total
Government	*20,584*	*321*	*19*	*0*	*0*	*20,924*
Industrial	*14,187*	*119*	*7*	*0*	*0*	*14,313*
Religion	*3,026*	*35*	*2*	*0*	*0*	*3,063*
Other Residential	*124,527*	*2,706*	*318*	*7*	*0*	*127,559*
Single Family	*758,971*	*4,004*	*45*	*1*	*0*	*763,020*
San Luis Obispo						
Agriculture	*292*	*88*	*32*	*7*	*1*	*421*
Commercial	*7,402*	*1,432*	*444*	*85*	*11*	*9,375*
Education	*166*	*14*	*2*	*0*	*0*	*182*
Government	*151*	*27*	*7*	*1*	*0*	*185*
Industrial	*1,926*	*462*	*140*	*24*	*5*	*2,556*
Religion	*280*	*57*	*19*	*4*	*0*	*360*
Other Residential	*13,185*	*3,760*	*2,242*	*801*	*228*	*20,216*
Single Family	*72,838*	*12,227*	*570*	*4*	*0*	*85,639*
Santa Barbara						
Agriculture	*374*	*69*	*18*	*2*	*0*	*464*
Commercial	*8,352*	*1,186*	*255*	*25*	*2*	*9,820*
Education	*283*	*14*	*2*	*0*	*0*	*299*
Government	*209*	*25*	*5*	*0*	*0*	*239*
Industrial	*2,311*	*407*	*108*	*13*	*1*	*2,840*
Religion	*527*	*76*	*17*	*2*	*0*	*621*
Other Residential	*17,168*	*4,712*	*2,104*	*124*	*3*	*24,111*
Single Family	*89,414*	*9,389*	*179*	*1*	*0*	*98,982*
Tulare						
Agriculture	*3,214*	*289*	*49*	*2*	*0*	*3,555*

		# of Buildings					
		None	Slight	Moderate	Extensive	Complete	Total
	Commercial	*8,363*	*424*	*80*	*5*	*0*	*8,873*
	Education	*265*	*3*	*0*	*0*	*0*	*269*
	Government	*433*	*25*	*3*	*0*	*0*	*461*
	Industrial	*2,003*	*120*	*23*	*2*	*0*	*2,148*
	Religion	*786*	*35*	*6*	*0*	*0*	*827*
	Other Residential	*18,186*	*1,475*	*348*	*12*	*0*	*20,022*
	Single Family	*108,960*	*3,055*	*19*	*0*	*0*	*112,034*
Ventura							
	Agriculture	*464*	*104*	*25*	*4*	*0*	*598*
	Commercial	*12,019*	*2,284*	*543*	*99*	*8*	*14,953*
	Education	*456*	*35*	*6*	*0*	*0*	*497*
	Government	*847*	*129*	*22*	*2*	*0*	*1,001*
	Industrial	*4,729*	*1,051*	*272*	*42*	*4*	*6,097*
	Religion	*958*	*185*	*41*	*3*	*0*	*1,187*
	Other Residential	*18,203*	*5,186*	*2,461*	*301*	*11*	*26,163*
	Single Family	*177,834*	*25,683*	*450*	*0*	*0*	*203,968*
Total		**5,650,196**	**1,356,774**	**284,800**	**55,779**	**28,165**	**7,375,713**
Region Total		**5,650,196**	**1,356,774**	**284,800**	**55,779**	**28,165**	**7,375,713**

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



	Injury Severity Level				
	Severity 1	Severity 2	Severity 3	Severity 4	Total
California					
Fresno					
Casualties - 2am					
Hotels	0	0	0	0	0
Educational	0	0	0	0	0
Industrial	0	0	0	0	0
Commercial	0	0	0	0	0
Other-Residential	12	1	0	0	13
Single Family	7	0	0	0	7
Commuting	0	0	0	0	0
Total Casualties - 2am	**20**	**1**	**0**	**0**	**21**
Casualties - 2pm					
Commercial	26	2	0	0	28
Other-Residential	4	0	0	0	4
Industrial	2	0	0	0	2
Single Family	2	0	0	0	2
Hotels	0	0	0	0	0
Commuting	0	0	0	0	0
Educational	5	0	0	0	6

	Injury Severity Level				
	Severity 1	Severity 2	Severity 3	Severity 4	Total
California					
Fresno					
Total Casualties - 2pm	**39**	**3**	**0**	**0**	**43**
Casualties - 5pm					
Educational	1	0	0	0	1
Commuting	0	0	0	0	1
Hotels	0	0	0	0	0
Industrial	1	0	0	0	1
Single Family	3	0	0	0	3
Other-Residential	4	0	0	0	5
Commercial	18	2	0	0	20
Total Casualties - 5pm	**27**	**2**	**0**	**0**	**30**
Imperial					
Casualties - 2am					
Commercial	0	0	0	0	0
Other-Residential	36	5	0	0	41
Educational	0	0	0	0	0
Single Family	16	0	0	0	17
Commuting	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	0	0	0	0	0
Total Casualties - 2am	**53**	**5**	**0**	**0**	**58**
Casualties - 2pm					
Educational	5	0	0	0	6
Industrial	1	0	0	0	2
Hotels	0	0	0	0	0
Other-Residential	12	2	0	0	14
Single Family	5	0	0	0	5
Commercial	20	1	0	0	21
Commuting	0	0	0	0	0
Total Casualties - 2pm	**43**	**4**	**0**	**0**	**48**
Casualties - 5pm					
Single Family	6	0	0	0	6
Other-Residential	13	2	0	0	15
Commercial	13	1	0	0	14
Commuting	1	1	3	0	6
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	1	0	0	0	1
Total Casualties - 5pm	**34**	**4**	**3**	**1**	**42**
Inyo					
Casualties - 2am					
Single Family	0	0	0	0	0

	Injury Severity Level				
	Severity 1	Severity 2	Severity 3	Severity 4	Total
California					
Inyo					
Casualties - 2am					
Commercial	0	0	0	0	0
Commuting	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Other-Residential	0	0	0	0	0
Industrial	0	0	0	0	0
Total Casualties - 2am	**0**	**0**	**0**	**0**	**0**
Casualties - 2pm					
Industrial	0	0	0	0	0
Hotels	0	0	0	0	0
Commercial	0	0	0	0	0
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0
Commuting	0	0	0	0	0
Educational	0	0	0	0	0
Total Casualties - 2pm	**0**	**0**	**0**	**0**	**0**
Casualties - 5pm					
Other-Residential	0	0	0	0	0
Single Family	0	0	0	0	0
Commercial	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Commuting	0	0	0	0	0
Industrial	0	0	0	0	0
Total Casualties - 5pm	**0**	**0**	**0**	**0**	**0**
Kern					
Casualties - 2am					
Commercial	4	1	0	0	5
Commuting	0	0	0	0	0
Educational	0	0	0	0	0
Single Family	75	2	0	0	77
Other-Residential	253	46	4	8	311
Hotels	0	0	0	0	0
Industrial	5	1	0	0	6
Total Casualties - 2am	**337**	**50**	**4**	**8**	**400**
Casualties - 2pm					
Educational	52	7	1	1	61
Commuting	0	0	0	0	1
Single Family	23	1	0	0	24
Hotels	0	0	0	0	0
Other-Residential	87	16	1	3	107

	Injury Severity Level				
	Severity 1	Severity 2	Severity 3	Severity 4	Total
California					
Kern					
Casualties - 2pm					
Commercial	301	61	8	16	387
Industrial	35	7	1	2	45
Total Casualties - 2pm	**499**	**93**	**12**	**21**	**624**
Casualties - 5pm					
Single Family	27	1	0	0	28
Commercial	215	45	6	12	277
Other-Residential	93	17	2	3	115
Commuting	3	5	8	2	18
Educational	7	1	0	0	8
Hotels	0	0	0	0	0
Industrial	22	4	1	1	28
Total Casualties - 5pm	**368**	**73**	**16**	**17**	**474**
Kings					
Casualties - 2am					
Industrial	0	0	0	0	0
Other-Residential	12	1	0	0	13
Educational	0	0	0	0	0
Commuting	0	0	0	0	0
Commercial	0	0	0	0	0
Single Family	7	0	0	0	7
Hotels	0	0	0	0	0
Total Casualties - 2am	**19**	**1**	**0**	**0**	**21**
Casualties - 2pm					
Single Family	2	0	0	0	2
Other-Residential	4	0	0	0	4
Commercial	16	2	0	0	19
Educational	3	0	0	0	3
Commuting	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	2	0	0	0	2
Total Casualties - 2pm	**27**	**3**	**0**	**1**	**31**
Casualties - 5pm					
Single Family	2	0	0	0	2
Commercial	13	2	0	0	15
Commuting	0	0	0	0	1
Other-Residential	4	0	0	0	5
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	1	0	0	0	1
Total Casualties - 5pm	**21**	**3**	**1**	**1**	**25**

	Injury Severity Level				
	Severity 1	Severity 2	Severity 3	Severity 4	Total
California					
Los Angeles					
Casualties - 2am					
Hotels	2	0	0	0	3
Industrial	43	7	1	1	52
Educational	0	0	0	0	0
Single Family	954	50	2	3	1,008
Commuting	0	0	1	0	1
Other-Residential	1,827	235	16	28	2,106
Commercial	40	6	0	1	47
Total Casualties - 2am	**2,866**	**298**	**19**	**34**	**3,217**
Casualties - 2pm					
Industrial	315	50	5	9	380
Other-Residential	563	74	5	9	651
Commercial	2,735	403	37	70	3,245
Commuting	2	3	5	1	11
Educational	1,147	177	18	34	1,376
Single Family	265	15	1	1	281
Hotels	0	0	0	0	0
Total Casualties - 2pm	**5,027**	**721**	**70**	**125**	**5,944**
Casualties - 5pm					
Other-Residential	691	90	6	11	798
Industrial	197	32	3	6	237
Commuting	40	55	90	18	203
Single Family	351	19	1	1	372
Commercial	1,946	294	28	53	2,322
Hotels	1	0	0	0	1
Educational	274	44	5	9	332
Total Casualties - 5pm	**3,499**	**534**	**134**	**98**	**4,265**
Monterey					
Casualties - 2am					
Other-Residential	3	0	0	0	3
Commuting	0	0	0	0	0
Commercial	0	0	0	0	0
Single Family	1	0	0	0	1
Hotels	0	0	0	0	0
Educational	0	0	0	0	0
Industrial	0	0	0	0	0
Total Casualties - 2am	**3**	**0**	**0**	**0**	**4**
Casualties - 2pm					
Commuting	0	0	0	0	0
Commercial	6	1	0	0	6
Single Family	0	0	0	0	0
Hotels	0	0	0	0	0

	Injury Severity Level				
	Severity 1	Severity 2	Severity 3	Severity 4	Total
California					
Monterey					
Casualties - 2pm					
Educational	1	0	0	0	1
Industrial	0	0	0	0	0
Other-Residential	1	0	0	0	1
Total Casualties - 2pm	**8**	**1**	**0**	**0**	**8**
Casualties - 5pm					
Commercial	4	0	0	0	5
Other-Residential	1	0	0	0	1
Industrial	0	0	0	0	0
Hotels	0	0	0	0	0
Educational	0	0	0	0	0
Commuting	0	0	0	0	0
Single Family	0	0	0	0	0
Total Casualties - 5pm	**6**	**1**	**0**	**0**	**7**
Orange					
Casualties - 2am					
Hotels	0	0	0	0	0
Commuting	0	0	0	0	0
Educational	0	0	0	0	0
Industrial	9	1	0	0	10
Other-Residential	226	24	2	3	254
Commercial	5	1	0	0	6
Single Family	166	3	0	0	169
Total Casualties - 2am	**406**	**28**	**2**	**3**	**440**
Casualties - 2pm					
Industrial	66	8	1	1	76
Other-Residential	63	7	0	1	71
Commuting	0	0	1	0	1
Commercial	351	44	4	8	406
Single Family	44	1	0	0	45
Hotels	0	0	0	0	0
Educational	151	18	2	3	173
Total Casualties - 2pm	**674**	**77**	**7**	**13**	**772**
Casualties - 5pm					
Hotels	0	0	0	0	0
Educational	30	3	0	0	33
Commuting	6	7	12	2	28
Single Family	59	1	0	0	61
Commercial	250	32	3	6	291
Other-Residential	83	9	1	1	93
Industrial	41	5	0	1	47

	Injury Severity Level				
	Severity 1	Severity 2	Severity 3	Severity 4	Total
California					
Orange					
Total Casualties - 5pm	**469**	**57**	**17**	**10**	**553**
Riverside					
Casualties - 2am					
Industrial	9	2	0	0	12
Commercial	22	5	1	1	29
Other-Residential	2,856	634	43	74	3,608
Educational	0	0	0	0	0
Commuting	1	1	1	0	3
Single Family	773	90	10	19	892
Hotels	1	0	0	0	2
Total Casualties - 2am	**3,662**	**733**	**55**	**95**	**4,544**
Casualties - 2pm					
Commercial	1,486	335	47	92	1,961
Other-Residential	1,004	225	16	27	1,272
Educational	403	80	10	20	513
Single Family	253	32	3	7	294
Commuting	5	6	11	2	24
Hotels	0	0	0	0	0
Industrial	69	14	2	4	89
Total Casualties - 2pm	**3,220**	**692**	**89**	**151**	**4,152**
Casualties - 5pm					
Industrial	43	9	1	2	55
Other-Residential	1,027	228	16	27	1,299
Educational	35	4	0	1	40
Single Family	291	36	4	7	338
Hotels	0	0	0	0	0
Commercial	1,022	232	33	64	1,350
Commuting	81	108	183	35	407
Total Casualties - 5pm	**2,500**	**617**	**237**	**137**	**3,491**
San Bernardino					
Casualties - 2am					
Hotels	1	0	0	0	1
Single Family	1,250	179	19	38	1,486
Commercial	35	9	1	3	49
Commuting	1	1	2	0	4
Educational	0	0	0	0	0
Other-Residential	2,501	553	48	88	3,190
Industrial	29	7	1	2	39
Total Casualties - 2am	**3,817**	**750**	**72**	**130**	**4,769**
Casualties - 2pm					
Industrial	212	52	7	14	285

	Injury Severity Level				
	Severity 1	Severity 2	Severity 3	Severity 4	Total
California					
San Bernardino					
Casualties - 2pm					
Hotels	0	0	0	0	0
Commuting	7	10	16	3	37
Other-Residential	767	171	16	28	981
Educational	1,288	300	43	83	1,713
Single Family	369	56	6	12	443
Commercial	2,599	673	101	197	3,570
Total Casualties - 2pm	**5,243**	**1,262**	**189**	**336**	**7,031**
Casualties - 5pm					
Other-Residential	926	206	19	33	1,183
Commercial	1,936	502	76	145	2,660
Single Family	477	71	8	15	572
Educational	253	61	9	18	341
Hotels	0	0	0	0	0
Commuting	129	186	297	58	670
Industrial	133	32	5	9	178
Total Casualties - 5pm	**3,854**	**1,059**	**413**	**279**	**5,605**
San Diego					
Casualties - 2am					
Commercial	0	0	0	0	0
Other-Residential	8	0	0	0	8
Commuting	0	0	0	0	0
Educational	0	0	0	0	0
Single Family	6	0	0	0	6
Industrial	0	0	0	0	0
Hotels	0	0	0	0	0
Total Casualties - 2am	**14**	**0**	**0**	**0**	**15**
Casualties - 2pm					
Hotels	0	0	0	0	0
Educational	3	0	0	0	3
Commuting	0	0	0	0	0
Commercial	29	1	0	0	30
Other-Residential	3	0	0	0	3
Single Family	2	0	0	0	2
Industrial	1	0	0	0	1
Total Casualties - 2pm	**37**	**1**	**0**	**0**	**38**
Casualties - 5pm					
Other-Residential	3	0	0	0	3
Commercial	17	0	0	0	18
Commuting	0	0	0	0	0
Single Family	2	0	0	0	2
Educational	1	0	0	0	1

	Injury Severity Level				
	Severity 1	Severity 2	Severity 3	Severity 4	Total
California					
San Diego					
Casualties - 5pm					
Hotels	0	0	0	0	0
Industrial	0	0	0	0	1
Total Casualties - 5pm	**23**	**1**	**0**	**0**	**24**
San Luis Obispo					
Casualties - 2am					
Commercial	1	0	0	0	1
Other-Residential	63	10	1	1	75
Industrial	1	0	0	0	1
Single Family	17	0	0	0	17
Commuting	0	0	0	0	0
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Total Casualties - 2am	**81**	**11**	**1**	**1**	**94**
Casualties - 2pm					
Single Family	5	0	0	0	5
Educational	5	0	0	0	6
Other-Residential	20	3	0	0	24
Hotels	0	0	0	0	0
Commuting	0	0	0	0	0
Commercial	49	8	1	2	60
Industrial	6	1	0	0	8
Total Casualties - 2pm	**86**	**13**	**1**	**2**	**103**
Casualties - 5pm					
Industrial	4	1	0	0	5
Other-Residential	23	4	0	0	27
Commuting	1	2	3	1	7
Single Family	6	0	0	0	6
Commercial	32	5	1	1	39
Hotels	0	0	0	0	0
Educational	1	0	0	0	1
Total Casualties - 5pm	**67**	**12**	**4**	**2**	**85**
Santa Barbara					
Casualties - 2am					
Industrial	1	0	0	0	1
Commercial	0	0	0	0	0
Other-Residential	32	3	0	0	36
Commuting	0	0	0	0	0
Educational	0	0	0	0	0
Single Family	15	0	0	0	15
Hotels	0	0	0	0	0

	Injury Severity Level				
	Severity 1	Severity 2	Severity 3	Severity 4	Total
California					
Santa Barbara					
Total Casualties - 2am	**48**	**3**	**0**	**0**	**52**
Casualties - 2pm					
Commercial	24	2	0	0	27
Single Family	4	0	0	0	4
Other-Residential	10	1	0	0	11
Commuting	0	0	0	0	0
Educational	10	1	0	0	10
Hotels	0	0	0	0	0
Industrial	4	0	0	0	4
Total Casualties - 2pm	**52**	**4**	**0**	**0**	**56**
Casualties - 5pm					
Other-Residential	12	1	0	0	13
Single Family	5	0	0	0	5
Commercial	17	1	0	0	19
Commuting	0	0	1	0	1
Educational	3	0	0	0	3
Industrial	2	0	0	0	3
Hotels	0	0	0	0	0
Total Casualties - 5pm	**39**	**3**	**1**	**0**	**44**
Tulare					
Casualties - 2am					
Commercial	0	0	0	0	0
Commuting	0	0	0	0	0
Single Family	5	0	0	0	5
Educational	0	0	0	0	0
Hotels	0	0	0	0	0
Industrial	0	0	0	0	0
Other-Residential	7	0	0	0	7
Total Casualties - 2am	**12**	**0**	**0**	**0**	**12**
Casualties - 2pm					
Industrial	1	0	0	0	1
Hotels	0	0	0	0	0
Commercial	10	1	0	0	11
Other-Residential	2	0	0	0	2
Educational	2	0	0	0	2
Commuting	0	0	0	0	0
Single Family	1	0	0	0	1
Total Casualties - 2pm	**17**	**1**	**0**	**0**	**18**
Casualties - 5pm					
Other-Residential	2	0	0	0	3
Commercial	7	0	0	0	8

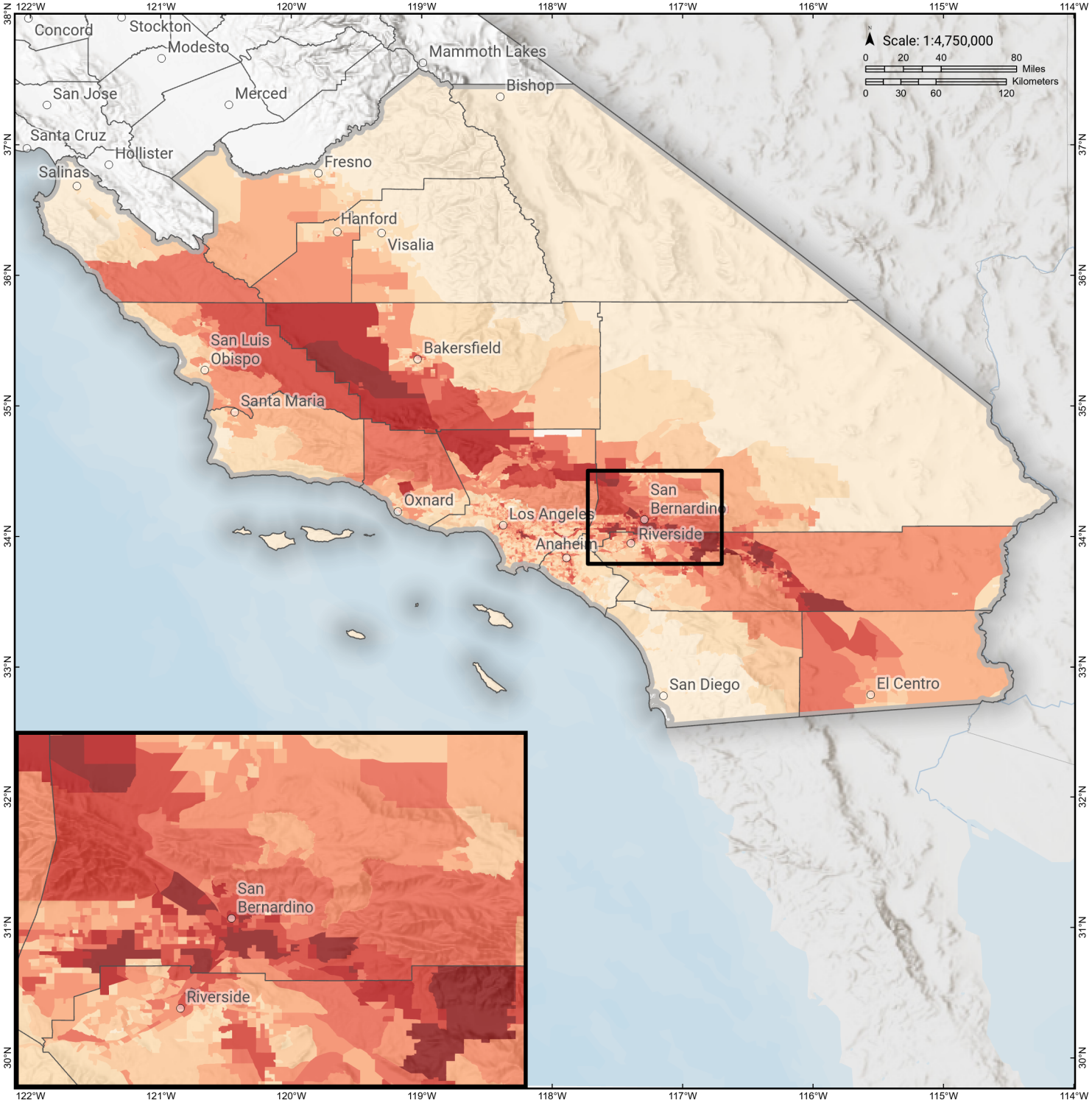
	Injury Severity Level				
	Severity 1	Severity 2	Severity 3	Severity 4	Total
California					
Tulare					
Casualties - 5pm					
Single Family	2	0	0	0	2
Hotels	0	0	0	0	0
Commuting	0	0	0	0	1
Educational	0	0	0	0	0
Industrial	1	0	0	0	1
Total Casualties - 5pm	**12**	**1**	**0**	**0**	**13**
Ventura					
Casualties - 2am					
Educational	0	0	0	0	0
Commuting	0	0	0	0	0
Single Family	44	0	0	0	44
Hotels	0	0	0	0	0
Industrial	2	0	0	0	2
Commercial	1	0	0	0	1
Other-Residential	54	5	0	1	60
Total Casualties - 2am	**100**	**6**	**0**	**1**	**107**
Casualties - 2pm					
Industrial	12	1	0	0	14
Educational	25	2	0	0	28
Commuting	0	0	0	0	0
Hotels	0	0	0	0	0
Other-Residential	15	2	0	0	17
Commercial	69	7	1	1	78
Single Family	12	0	0	0	12
Total Casualties - 2pm	**133**	**13**	**1**	**2**	**149**
Casualties - 5pm					
Commuting	1	1	2	0	5
Other-Residential	20	2	0	0	22
Commercial	52	6	0	1	59
Hotels	0	0	0	0	0
Educational	3	0	0	0	3
Single Family	16	0	0	0	16
Industrial	8	1	0	0	9
Total Casualties - 5pm	**98**	**10**	**3**	**2**	**113**
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.

Southern California ShakeOut

Debris Generated by Census Tract

California Department of Conservation
California Geological Survey



Study Region: Southern California ShakeOut – M 7.8 on the Southern San Andreas Fault (2012 update)
Scenario: sclegacyardentsentry2015_se

Debris Generated *(in tons)*

- 0
- >0 - 100
- >100 - 500
- >500 - 1,000
- >1,000 - 2,000
- >2,000 - 5,000
- >5,000 - 10,000
- >10,000 - 25,000
- >25,000 - 50,000
- >50,000 - 236,000

Debris Summary Report

May 02, 2024

All values are in thousands of tons.

	Brick, Wood & Others	Concrete & Steel	Total
California			
Fresno	20	32	52
Imperial	49	43	92
Inyo	0	0	0
Kern	253	437	690
Kings	12	20	32
Los Angeles	2,498	3,049	5,548
Monterey	4	7	11
Orange	273	498	771
Riverside	1,991	1,823	3,815
San Bernardino	2,225	2,585	4,810
San Diego	14	7	21
San Luis Obispo	75	79	154
Santa Barbara	33	41	74
Tulare	10	13	23
Ventura	74	117	191
Total	**7,532**	**8,752**	**16,284**
Region Total	**7,532**	**8,752**	**16,284**

Study Region : SoCalShakeOut

Scenario : sclegacyardentsentry2015_se

	Brick, Wood & Others	Concrete & Steel	Total

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					Income Losses				
	Cost Structural Damage	Cost Non-struct. Damage	Cost Contents Damage	Inventory Loss	Loss Ratio %	Relocation Loss	Capital Related Loss	Wages Losses	Rental Income Loss	Total Loss
California										
Inyo	3	88	52	7	0.00	0	1	1	1	153
Imperial	74,381	367,421	151,826	25,480	1.32	25,795	11,996	13,166	11,974	682,038
San Bernardino	3,828,379	17,805,375	7,122,700	821,385	5.73	1,929,574	763,295	1,103,420	1,014,396	34,388,525
Riverside	2,614,623	12,918,186	4,914,638	281,395	3.71	1,218,416	488,568	575,573	657,916	23,669,316
Fresno	47,415	284,172	157,367	28,387	0.21	14,138	12,449	12,975	9,679	566,582
Kings	27,527	148,944	72,139	8,923	0.82	10,215	8,370	10,244	5,939	292,300
San Luis Obispo	103,687	554,830	240,427	22,312	1.05	41,708	33,208	33,467	23,870	1,053,508
Tulare	23,298	169,518	95,360	21,053	0.26	5,677	4,430	5,104	3,851	328,291
Santa Barbara	66,108	460,427	227,800	25,307	0.67	23,031	13,321	16,999	14,907	847,899

Study Region : SoCalShakeOut

Scenario : sclegacyardentsentry2015_se

	Capital Stock Losses					Income Losses				
	Cost Structural Damage	Cost Non-struct. Damage	Cost Contents Damage	Inventory Loss	Loss Ratio %	Relocation Loss	Capital Related Loss	Wages Losses	Rental Income Loss	Total Loss
Kern	511,734	2,035,284	928,714	166,368	1.74	183,698	102,431	120,510	90,016	4,138,754
Ventura	169,943	1,022,831	491,647	54,930	0.79	50,829	36,478	43,001	33,789	1,903,448
Monterey	12,033	42,002	23,821	7,254	0.07	2,637	980	1,037	1,131	90,896
Orange	662,095	3,709,707	1,786,001	162,334	0.81	235,047	176,886	206,455	163,682	7,102,205
San Diego	22,332	347,282	188,531	14,118	0.06	4,010	2,838	6,055	5,702	590,867
Los Angeles	4,278,731	19,514,862	8,844,100	779,199	1.57	2,103,904	1,211,129	1,547,837	1,251,017	39,530,778
Total	**12,442,289**	**59,380,929**	**25,245,124**	**2,418,449**	**1.25**	**5,848,677**	**2,866,378**	**3,695,844**	**3,287,870**	**115,185,562**
Region Total	**12,442,289**	**59,380,929**	**25,245,124**	**2,418,449**	**1.25**	**5,848,677**	**2,866,378**	**3,695,844**	**3,287,870**	**115,185,562**

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								
Fresno								
Segments	0	0	0					0
Bridges	3,803	182	0					3,985
Tunnels	0	0	0					0
Facilities		1,167	0	89	0	0	5,604	6,860
Total	**3,803**	**1,349**	**0**	**89**	**0**	**0**	**5,604**	**10,845**
Imperial								
Segments	0	0	0					0
Bridges	14,092	115,179	0					129,272
Tunnels	0	0	0					0
Facilities		983	0	0	0	0	6,806	7,790
Total	**14,092**	**116,162**	**0**	**0**	**0**	**0**	**6,806**	**137,061**
Inyo								
Segments	0	0	0					0
Bridges	3	0	0					3
Tunnels	0	0	0					0
Facilities		0	0	0	0	0	575	575

	Highway	Railway	Light Rail	Bus Facility	Ports	Ferries	Airport	Total
Total	**3**	**0**	**0**	**0**	**0**	**0**	**575**	**577**
Kern								
Segments	0	0	0					0
Bridges	33,477	2,623	0					36,100
Tunnels	47	0	0					47
Facilities		2,063	0	950	0	0	14,079	17,092
Total	**33,524**	**4,686**	**0**	**950**	**0**	**0**	**14,079**	**53,239**
Kings								
Segments	0	0	0					0
Bridges	1,997	246	0					2,243
Tunnels	0	0	0					0
Facilities		1,192	0	476	0	0	3,002	4,670
Total	**1,997**	**1,438**	**0**	**476**	**0**	**0**	**3,002**	**6,913**
Los Angeles								
Segments	0	0	0					0
Bridges	318,486	26,651	16					345,152
Tunnels	2,268	0	0					2,268
Facilities		14,688	268,798	4,280	62,892	961	309,930	661,548
Total	**320,754**	**41,338**	**268,813**	**4,280**	**62,892**	**961**	**309,930**	**1,008,969**
Monterey								
Segments	0	0	0					0
Bridges	2,513	226	0					2,739
Tunnels	0	0	0					0
Facilities		109	0	703	110	0	2,338	3,261

	Highway	Railway	Light Rail	Bus Facility	Ports	Ferries	Airport	Total
Total	**2,514**	**335**	**0**	**703**	**110**	**0**	**2,338**	**6,000**
Orange								
Segments	0	0	0					0
Bridges	46,436	1,312	0					47,749
Tunnels	92	0	0					92
Facilities		2,170	0	0	4,736	402	46,111	53,419
Total	**46,528**	**3,482**	**0**	**0**	**4,736**	**402**	**46,111**	**101,259**
Riverside								
Segments	0	0	0					0
Bridges	326,233	65,829	0					392,063
Tunnels	0	0	0					0
Facilities		3,853	0	5,701	0	0	54,757	64,311
Total	**326,233**	**69,683**	**0**	**5,701**	**0**	**0**	**54,757**	**456,374**
San Bernardino								
Segments	0	0	0					0
Bridges	593,599	58,870	0					652,468
Tunnels	499	0	0					499
Facilities		13,375	0	1,533	0	0	76,043	90,952
Total	**594,098**	**72,245**	**0**	**1,533**	**0**	**0**	**76,043**	**743,919**
San Diego								
Segments	0	0	0					0
Bridges	2,420	27	0					2,447
Tunnels	1	0	0					1
Facilities		1,151	37,627	21	15,528	164	39,006	93,497

	Highway	Railway	Light Rail	Bus Facility	Ports	Ferries	Airport	Total
Total	**2,421**	**1,178**	**37,627**	**21**	**15,528**	**164**	**39,006**	**95,945**
San Luis Obispo								
Segments	0	0	0					0
Bridges	12,024	419	0					12,443
Tunnels	0	0	0					0
Facilities		1,086	0	480	2,838	0	5,600	10,004
Total	**12,024**	**1,506**	**0**	**480**	**2,838**	**0**	**5,600**	**22,447**
Santa Barbara								
Segments	0	0	0					0
Bridges	3,498	218	0					3,716
Tunnels	3	0	0					3
Facilities		1,380	0	871	3,132	164	6,644	12,190
Total	**3,501**	**1,598**	**0**	**871**	**3,132**	**164**	**6,644**	**15,909**
Tulare								
Segments	0	0	0					0
Bridges	1,403	265	0					1,668
Tunnels	0	0	0					0
Facilities		0	0	427	0	0	1,452	1,879
Total	**1,403**	**265**	**0**	**427**	**0**	**0**	**1,452**	**3,547**
Ventura								
Segments	0	0	0					0
Bridges	9,120	488	0					9,607
Tunnels	33	0	0					33
Facilities		1,474	0	239	7,630	202	5,963	15,508

	Highway	Railway	Light Rail	Bus Facility	Ports	Ferries	Airport	Total
Total	9,153	1,961	0	239	7,630	202	5,963	25,149
Total	1,372,048	317,227	306,441	15,769	96,866	1,892	577,912	2,688,154
Region Total	1,372,048	317,227	306,441	15,769	96,866	1,892	577,912	2,688,154

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							
Fresno							
Facilities	0	6,097	3	467	581,312	97	587,977
Pipelines	34,433	17,297	0	0			51,730
Total	34,433	23,394	3	467	581,312	97	639,707
Imperial							
Facilities	10,920	185,610	0	0	2,621,244	226	2,818,000
Pipelines	61,666	30,976	0	0			92,642
Total	72,586	216,586	0	0	2,621,244	226	2,910,643
Inyo							
Facilities	0	0	0	0	10,861	0	10,862
Pipelines	1,513	760	0	0			2,273
Total	1,513	760	0	0	10,861	0	13,134
Kern							
Facilities	17,396	57,022	84	61,185	7,366,752	881	7,503,319

	Potable Water	Waste Water	Oil Systems	Natural Gas	Electric Power	Communication	Total
Pipelines	293,226	147,295	0	0			440,521
Total	310,622	204,317	84	61,185	7,366,752	881	7,943,840
Kings							
Facilities	0	0	3	12,418	315,293	29	327,743
Pipelines	34,461	17,310	0	0			51,771
Total	34,461	17,310	3	12,418	315,293	29	379,514
Los Angeles							
Facilities	51,553	208,173	231	38,031	11,778,382	1,980	12,078,350
Pipelines	499,138	250,730	0	0			749,867
Total	550,691	458,902	231	38,031	11,778,382	1,980	12,828,218
Monterey							
Facilities	0	1,107	0	0	75,143	67	76,316
Pipelines	19,599	9,845	0	0			29,444
Total	19,599	10,952	0	0	75,143	67	105,760
Orange							
Facilities	5,861	63,071	14	4,247	287,605	141	360,939
Pipelines	47,795	24,008	0	0			71,803
Total	53,656	87,079	14	4,247	287,605	141	432,742
Riverside							
Facilities	53,436	441,267	0	8,447	4,482,560	2,879	4,988,589
Pipelines	546,313	274,427	0	0			820,739

	Potable Water	Waste Water	Oil Systems	Natural Gas	Electric Power	Communication	Total
Total	599,749	715,694	0	8,447	4,482,560	2,879	5,809,328
San Bernardino							
Facilities	46,671	386,313	0	10,258	6,650,829	1,935	7,096,007
Pipelines	532,415	267,446	0	0			799,860
Total	579,086	653,758	0	10,258	6,650,829	1,935	7,895,867
San Diego							
Facilities	697	48,480	1	1,590	384,019	97	434,883
Pipelines	17,296	8,688	0	0			25,984
Total	17,993	57,168	1	1,590	384,019	97	460,867
San Luis Obispo							
Facilities	1,009	80,868	11	0	1,816,586	459	1,898,934
Pipelines	163,077	81,918	0	0			244,994
Total	164,086	162,786	11	0	1,816,586	459	2,143,928
Santa Barbara							
Facilities	0	81,725	9	5,974	89,242	481	177,431
Pipelines	21,837	10,969	0	0			32,806
Total	21,837	92,694	9	5,974	89,242	481	210,237
Tulare							
Facilities	348	7,464	0	0	139,625	69	147,506
Pipelines	14,334	7,200	0	0			21,535
Total	14,683	14,664	0	0	139,625	69	169,041

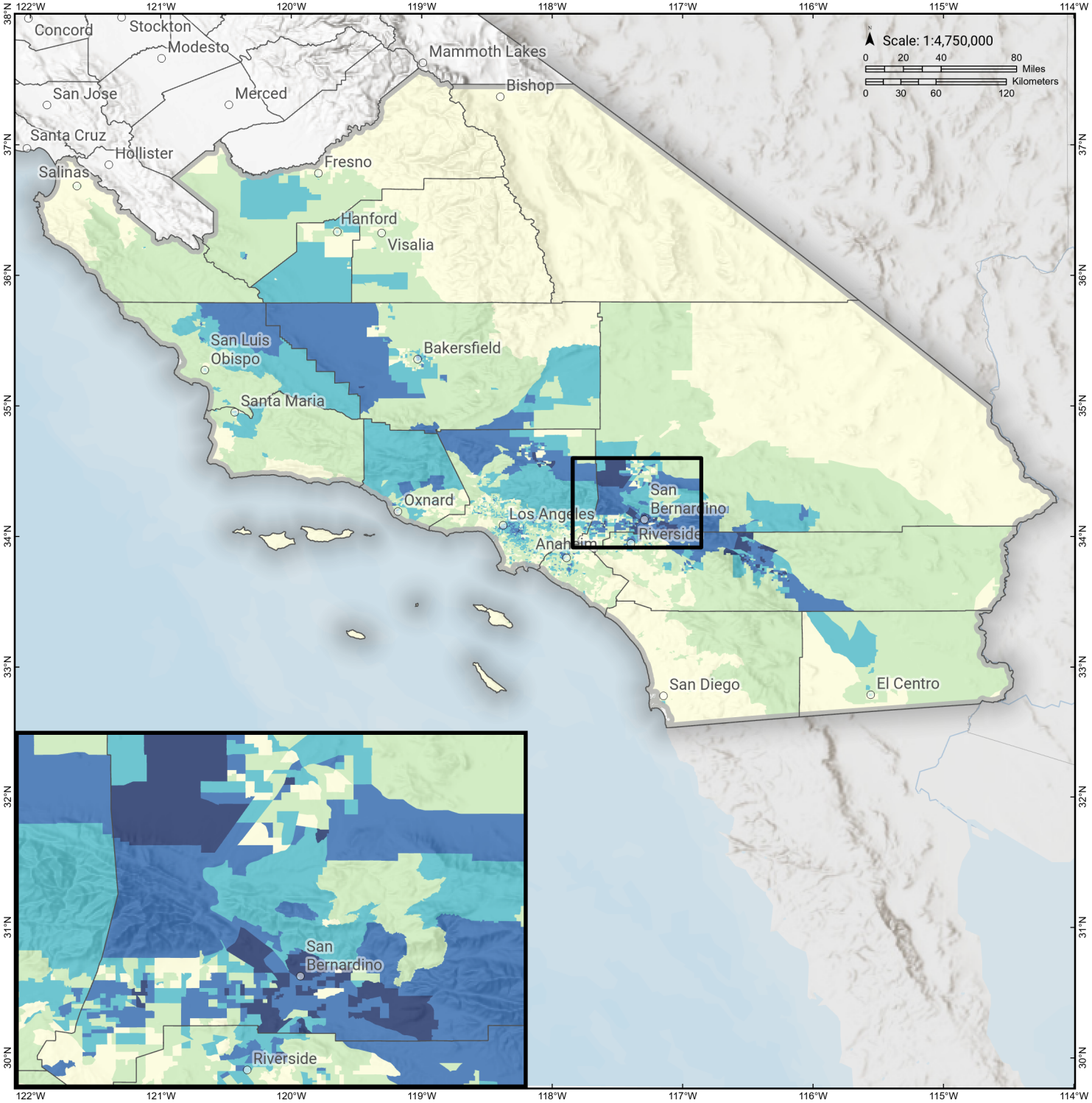
	Potable Water	Waste Water	Oil Systems	Natural Gas	Electric Power	Communication	Total
Ventura							
Facilities	9,489	117,330	11	3,680	586,872	367	717,748
Pipelines	38,156	19,167	0	0			57,322
Total	47,644	136,496	11	3,680	586,872	367	775,070
Total	**2,522,637**	**2,852,561**	**367**	**146,298**	**37,186,325**	**9,708**	**42,717,897**
Region Total	**2,522,637**	**2,852,561**	**367**	**146,298**	**37,186,325**	**9,708**	**42,717,897**

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.

Southern California ShakeOut

Displaced Households by Census Tract

California Department of Conservation
California Geological Survey

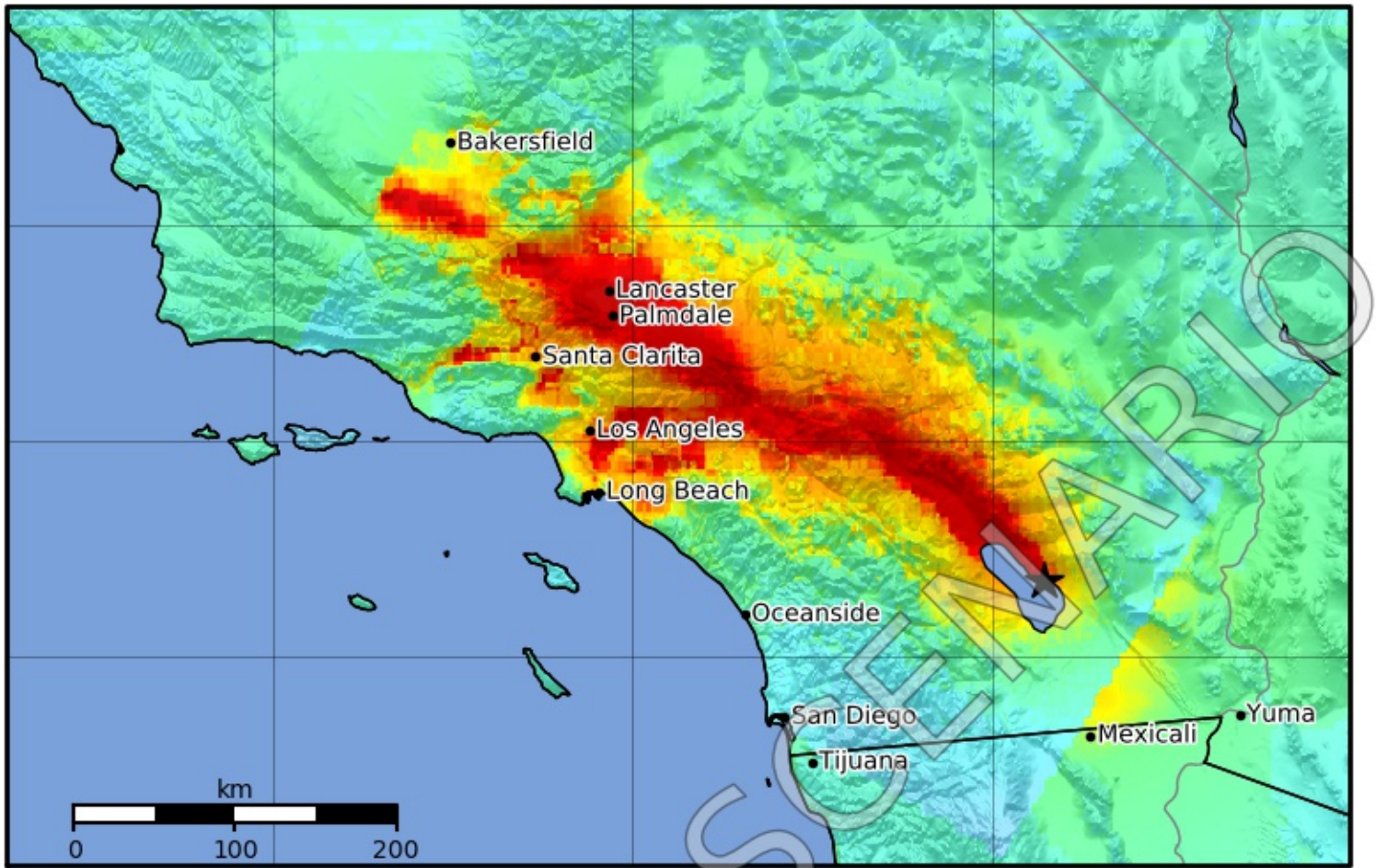


Study Region: Southern California ShakeOut – M 7.8 on the Southern San Andreas Fault (2012 update)
Scenario: sclegacyardentsentry2015_se

Displaced Households

- 0
- 1
- 2 - 10
- 11 - 100
- 101 - 510

Macroseismic Intensity Map
USGS ShakeMap: Ardent Sentry 2015 Scenario
Feb 27, 2015 00:00:00 UTC M7.8 N33.35 W115.71 Depth: 7.6km
ID:sclegacyardentsentry2015_se



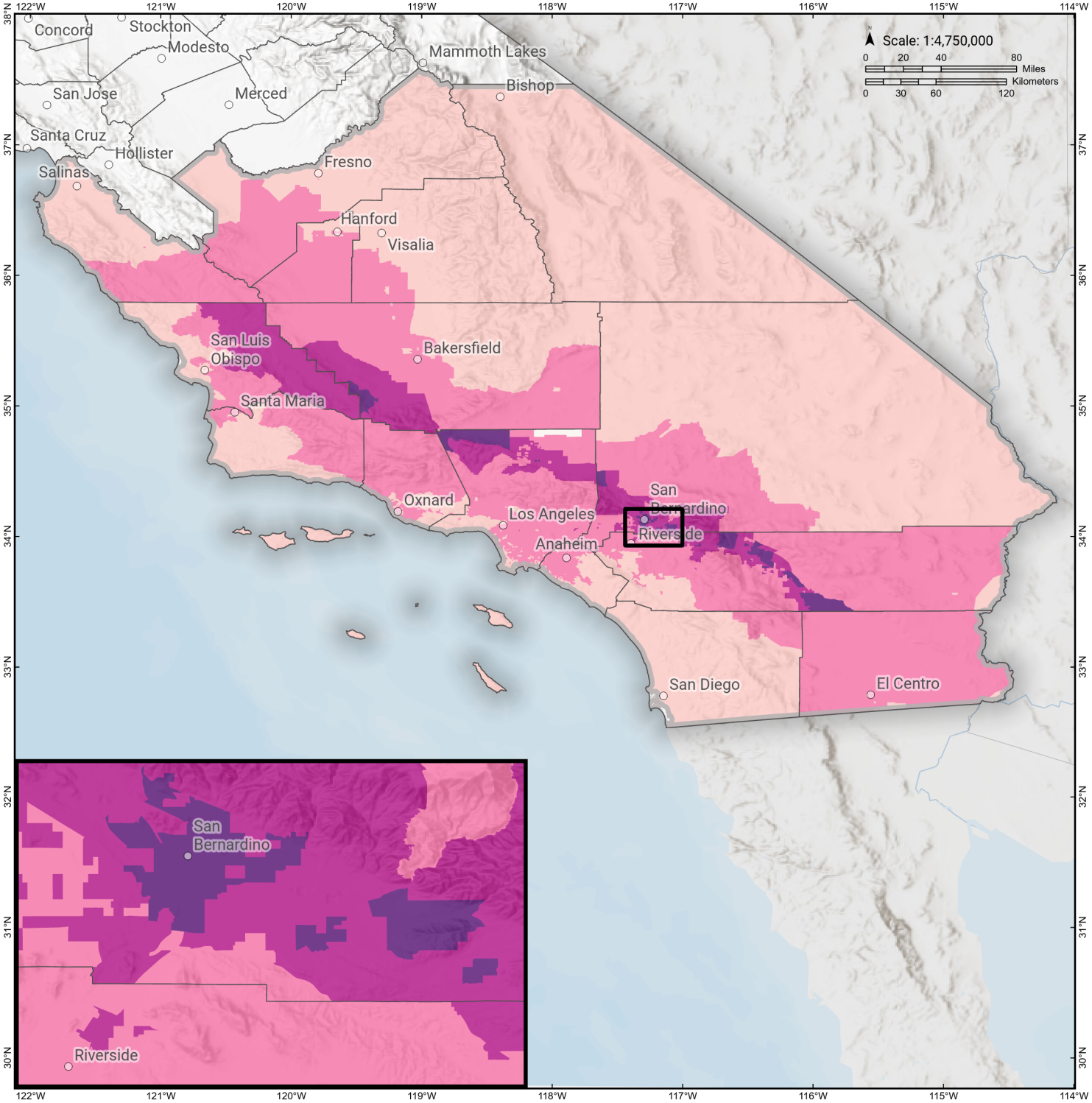
SHAKING	Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
DAMAGE	None	None	None	Very light	Light	Moderate	Moderate/heavy	Heavy	Very heavy
PGA(%g)	<0.1	0.49	2.35	6.73	12.6	23.7	44.4	83.3	>156
PGV(cm/s)	<0.07	0.37	1.93	5.8	11.3	21.9	42.5	82.5	>160
INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+

Scale based on Wald et al. (1999)
Version 1: Processed 2019-08-11T18:16:33Z
△ Seismic Instrument ○ Reported Intensity ★ Epicenter

Southern California ShakeOut

Loss Ratio by Census Tract

California Department of Conservation
California Geological Survey



Study Region: Southern California ShakeOut – M 7.8 on the Southern San Andreas Fault (2012 update)
Scenario: sclegacyardentsentry2015_se

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

- 0%
- >0 - 1%
- >1 - 10%
- >10 - 25%
- >25 - 50%

Hazus Quick Assessment Report

Estimated Economic Loss ($ Billions)

Category	Description	Range
General Building Stock	Building Damage	35.90 - 143.60
	Building Contents	4.40 - 17.70
	Business Interruption	7.80 - 31.40
Infrastructure	Lifelines Damage	
	Total	57.60 - 230.40

Preliminary Damage Assessment (PDA) Estimates

Description	Residential	Commercial	Other	Total
Affected		94,600	35,400	
Minor	231,000	37,200	15,300	283,500
Major	43,000	8,700	4,000	55,700
Destroyed	24,700	2,500	940	28,140
Total		143,000	55,640	

Estimated Casualties : Night Time

Severity Level	Description	# Persons
Level 1	Medical Aid	6,000 - 23,000
Level 2	Hospital Care	900 - 4,000
Level 3	Life-threatening	80 - 300
Level 4	Fatalities	140 - 500

Estimated Shelter Needs

Type	Households	People
Displaced Households	23,000 - 91,000	57,500 - 227,500
Public Shelter	12,350	30,880

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, goetechnical, and observed ground motion data.

Earthquake Information

Location :

Origin Time:

Magnitude : 7.80

Epicenter Latitude/Longitude :

/

Depth & Type : /U

Name :
NA

Ground Motion /Attenuation :

Maximum PGA: 1.00

Information Sources:

Comments :

Population and Building Exposure

Population: 25,855,212

Building Exposure : ($ Millions)

Residential	
Commercial	873,680
Other	657,954
Total	

Counties : See Appendix

Major Metro Area :

Time of report: May 02, 2024 10:23 am

Hazus Quick Assessment Report

Estimated Economic Loss ($ Billions)

Category	Description	Range
General Building Stock	Building Damage	35.90 - 143.60
	Building Contents	4.40 - 17.70
	Business Interruption	7.80 - 31.40
Infrastructure	Lifelines Damage	
	Total	57.60 - 230.40

Preliminary Damage Assessment (PDA) Estimates

Description	Residential	Commercial	Other	Total
Affected		94,600	35,400	
Minor	231,000	37,200	15,300	283,500
Major	43,000	8,700	4,000	55,700
Destroyed	24,700	2,500	940	28,140
Total		143,000	55,640	

Estimated Casualties : Day Time

Severity Level	Description	# Persons
Level 1	Medical Aid	8,000 - 30,000
Level 2	Hospital Care	1,400 - 6,000
Level 3	Life-threatening	190 - 700
Level 4	Fatalities	300 - 1,300

Estimated Shelter Needs

Type	Households	People
Displaced Households	23,000 - 91,000	57,500 - 227,500
Public Shelter	12,350	30,880

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 : 7.80

Epicenter Latitude/Longitude :

/

Depth & Type : /U

Name :
NA

Ground Motion /Attenuation :

Maximum PGA: 1.00

Information Sources:

Comments :

Population and Building Exposure

Population: 25,855,212

Building Exposure : ($ Millions)

Residential	
Commercial	873,680
Other	657,954
Total	

Counties : See Appendix

Major Metro Area :

Time of report: May 02, 2024 10:24 am

Hazus Quick Assessment Report

Estimated Economic Loss ($ Billions)

Category	Description	Range
General Building Stock	Building Damage	35.90 - 143.60
	Building Contents	4.40 - 17.70
	Business Interruption	7.80 - 31.40
Infrastructure	Lifelines Damage	
	Total	57.60 - 230.40

Preliminary Damage Assessment (PDA) Estimates

Description	Residential	Commercial	Other	Total
Affected		94,600	35,400	
Minor	231,000	37,200	15,300	283,500
Major	43,000	8,700	4,000	55,700
Destroyed	24,700	2,500	940	28,140
Total		143,000	55,640	

Estimated Casualties : Commute Time

Severity Level	Description	# Persons
Level 1	Medical Aid	6,000 - 22,000
Level 2	Hospital Care	1,200 - 5,000
Level 3	Life-threatening	400 - 1,700
Level 4	Fatalities	300 - 1,100

Estimated Shelter Needs

Type	Households	People
Displaced Households	23,000 - 91,000	57,500 - 227,500
Public Shelter	12,350	30,880

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, goetechnical, and observed ground motion data.

Earthquake Information

Location :

Origin Time:

Magnitude : 7.80

Epicenter Latitude/Longitude :

/

Depth & Type : /U

Name :
NA

Ground Motion /Attenuation :

Maximum PGA: 1.00

Information Sources:

Comments :

Population and Building Exposure

Population: 25,855,212

Building Exposure : ($ Millions)

Residential	
Commercial	873,680
Other	657,954
Total	

Counties : See Appendix

Major Metro Area :

Time of report: May 02, 2024 10:24 am

HAZUS™

FEMA

RiskMAP
Increasing Resilience Together

Shelter Summary Report

May 02, 2024

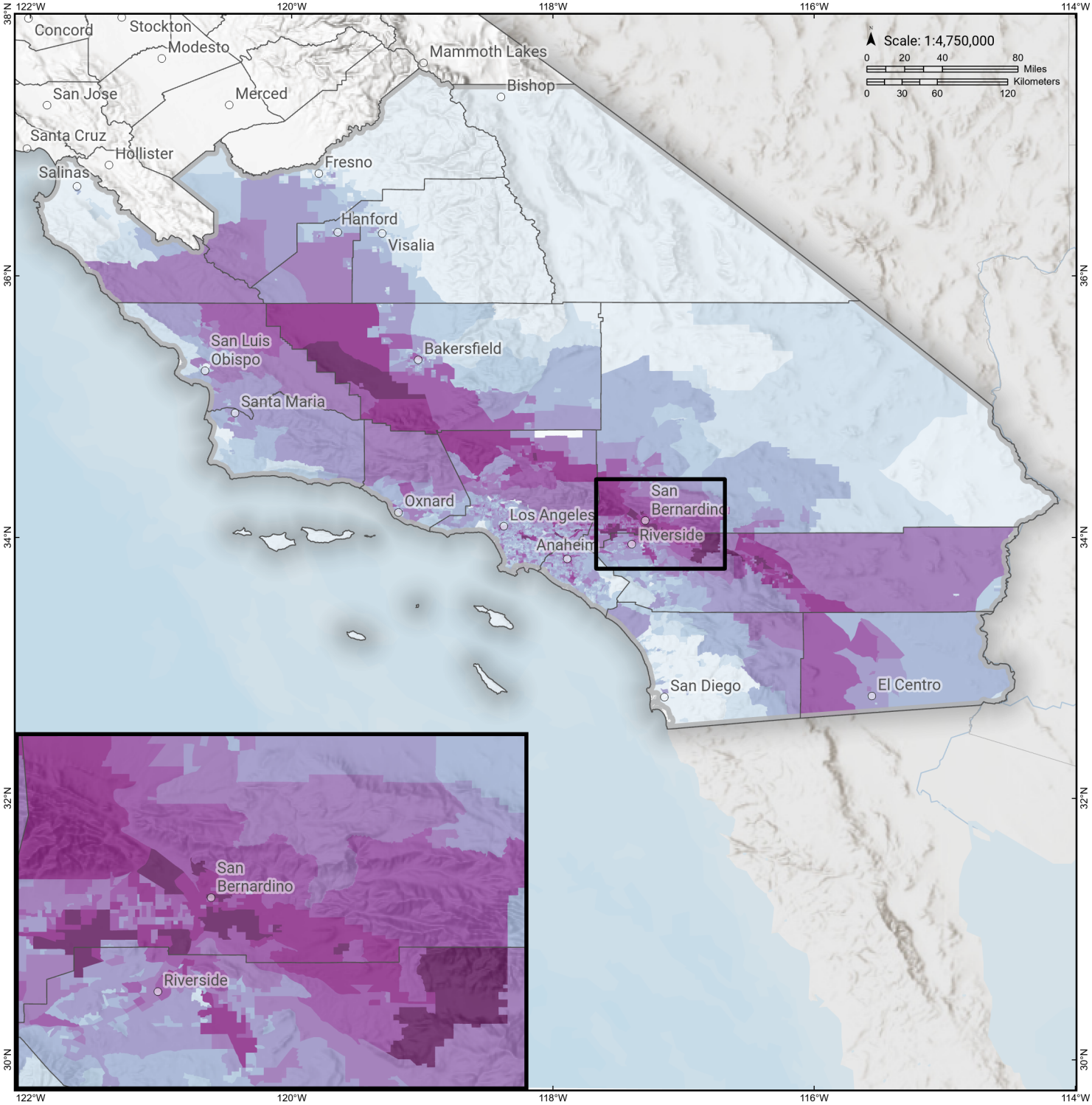
	# of Displaced Households	# of People Needing Short Term Shelter
California		
Fresno	41	31
Imperial	28	36
Inyo	0	0
Kern	912	730
Kings	37	26
Los Angeles	14,393	8,791
Monterey	4	3
Orange	992	666
Riverside	7,706	5,832
San Bernardino	20,732	14,451
San Diego	3	1
San Luis Obispo	140	69
Santa Barbara	83	58
Tulare	9	8
Ventura	296	174
Total	**45,376**	**30,876**
Region Total	**45,376**	**30,876**

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.

Southern California ShakeOut

Total Building Related Economic Loss by Census Tract

California Department of Conservation
California Geological Survey



Study Region: Southern California ShakeOut – M 7.8 on the Southern San Andreas Fault (2012 update)
Scenario: sclegacyardentsentry2015_se

Economic Loss *(in thousands of USD $)*

- 0
- >0 - 1,000
- >1,000 - 2,500
- >2,500 - 5,000
- >5,000 - 10,000
- >10,000 - 25,000
- >25,000 - 50,000
- >50,000 - 100,000
- >100,000 - 250,000
- >250,000 - 1,013,100