



Traffic Safety Facts California 2003-2007



This Report Contains Data From the Following Sources:

- Fatality Data - NCSA Fatality Analysis Reporting System (FARS): 2003-2006 Final File and 2007 Annual Report File (ARF)
- Observed Safety Belt Data - NCSA National Occupant Protection Use Survey (NOPUS) and the California State Survey
- Vehicle Miles of Travel Data and Motorcycle Registrations - Federal Highway Administration (FHWA)
- Population Data - U.S. Bureau of the Census



Table of Contents

3. Traffic Safety Performance Measures
4. Fatality Rates: California , U.S. and Best State
5. Alcohol-Related Fatalities: California , U.S. and Best State (Old Definition)
6. Alcohol-Impaired Driving Fatalities: California , U.S. and Best State (New Definition)
7. Fatalities Per 100 Million VMT: California , U.S.
7. Alcohol-Impaired Driving Fatalities Per 100 Million VMT: California , U.S.
8. Blood Alcohol Concentration (BAC) Reporting Rates For Drivers/Motorcycle Rider (Operators) Involved in Fatal Crashes: California , U.S. and Best State
9. Front Seat Passenger Vehicle Occupants, Aged 5 and Over, by Restraint Use: Fatalities and Observed California , U.S. and Best State
10. Front Seat Passenger Vehicle Occupant Fatalities, Aged 5 and Over, by Percent Restraint Use: California , U.S.
10. Front Seat Passenger Vehicle Occupants Observed, Aged 5 and Over, by Percent Restraint Use: California , U.S.
11. Passenger Vehicle Occupant Fatalities Aged 5 and Above by Restraint Use and Lives Saved Estimates
11. Passenger Vehicle Occupant Fatalities Aged Under 5 by Restraint Use and Lives Saved Estimates
12. Motorcyclist Fatalities by Helmet Use and Lives Saved Estimates
13. Fatalities by Person Type
14. Fatalities by Crash Type
15. Motorcyclist Fatalities by Age
15. Motorcyclist Fatalities Per 100,000 Registered Motorcycles
16. Fatalities by Person Type and Race/Hispanic Origin
17. Top 10 Counties for Fatalities
18. Top 10 Counties for Fatalities: Year to Year Percent Change
19. Top 10 Counties for Fatality Rates
20. Motor Vehicle Crash Fatality Maps:
Total Fatalities, Alcohol-Impaired Driving Fatalities, Single Vehicle Crash Fatalities
21. Motor Vehicle Crash Fatality Maps:
Large Truck Crash Fatalities, Speeding Involved Fatalities, Roadway Departure Fatalities
22. Motor Vehicle Crash Fatality Maps:
Intersection Fatalities, Passenger Car Occupants, Light Truck and Van Occupants
23. Motor Vehicle Crash Fatality Maps:
Motorcyclist Fatalities, Pedestrian Fatalities, Pedestrian Fatalities



Traffic Safety Performance (Core Outcome) Measures For California *

Core Outcome Measures		Year				
		2003	2004	2005	2006	2007
Traffic Fatalities	Total	4,224	4,120	4,333	4,240	3,974
	Rural	1,677	1,670	1,751	1,576	1,493
	Urban	2,547	2,450	2,582	2,663	2,481
	Unknown	0	0	0	1	0
Fatalities Per 100 Million Vehicle Miles Driven**	Total	1.31	1.25	1.32	1.29	
	Rural	2.56	2.50	2.80	2.60	
	Urban	0.99	0.93	0.97	1.00	
Passenger Vehicle Occupant Fatalities (All Seat Positions)	Total	2,937	2,786	2,897	2,762	2,595
	Restrained	1,451	1,469	1,604	1,557	1,495
	Unrestrained	1,033	1,009	974	920	857
	Unknown	453	308	319	285	243
Alcohol-Impaired Driving Fatalities (BAC=.08+)**		1,149	1,179	1,298	1,272	1,155
Speeding-Related Fatalities		1,511	1,333	1,473	1,404	1,464
Motorcyclist Fatalities	Total	383	432	469	506	517
	Helmeted	322	360	401	430	439
	Unhelmeted	54	59	56	67	68
	Unknown	7	13	12	9	10
Drivers Involved in Fatal Crashes	Total	5,688	5,639	5,769	5,774	5,465
	Aged Under 15	8	17	8	8	5
	Aged 15-20	719	703	737	719	603
	Aged Under 21	727	720	745	727	608
	Aged 21 and Over	4,790	4,766	4,836	4,867	4,691
	Unknown Age	171	153	188	180	166
Pedestrian Fatalities		704	684	742	719	640

*These Performance Measures Were Developed By The National Highway Traffic Safety Administration (NHTSA) and the Governors Highway Safety Association (GHSA) (See Publication: DOT HS 811 025)

**2007 State Vehicle Miles Traveled (VMT) Data is Not Yet Available

***Based on the BAC of All Involved Drivers and Motorcycle Riders (Operators) Only

[Back To The Table of Contents](#)



Fatality Rates: California , U.S. and Best State

Year		Fatalities	Total Vehicle Miles Traveled (Millions)	Fatalities Per 100 Million Vehicle Miles Traveled	Total Population	Fatalities Per 100,000 Population
2003	California	4,224	323,592	1.31	35,376,833	11.94
	US	42,884	2,890,450	1.48	290,447,644	14.76
	Best State*			0.83		7.18
2004	California	4,120	328,917	1.25	35,721,991	11.53
	US	42,836	2,964,788	1.44	293,191,511	14.61
	Best State*			0.87		7.40
2005	California	4,333	329,267	1.32	35,990,312	12.04
	US	43,510	2,989,430	1.46	295,895,897	14.70
	Best State*			0.80		6.86
2006	California	4,240	327,478	1.29	36,249,872	11.70
	US	42,708	3,014,116	1.42	298,754,819	14.30
	Best State*			0.78		6.32
2007	California	3,974			36,553,215	10.87
	US	41,059	2,996,409	1.37	301,621,157	13.61
	Best State*					6.47

*State (or States) With Lowest Rates: Lowest VMT and Population Rates Could Be in Different States

2007 National VMT is a Preliminary Estimate and Subject to Change

2007 State Vehicle Miles Traveled (VMT) Data is Not Yet Available

[Back To The Table of Contents](#)



Fatalities By The Highest Blood Alcohol Concentration (BAC) in the Crash**:
California , U.S. and Best State
(Old Definition)

Year		Total Fatalities in all Crashes	Highest BAC level in the Crash				
			BAC = .01+		BAC = .08+		Per 100 Million VMT
			Number	Percent	Number	Percent	
2003	California	4,224	1,629	39	1,377	33	0.43
	US	42,884	17,105	40	14,678	34	0.51
	Best State*			15		13	0.16
2004	California	4,120	1,667	40	1,390	34	0.42
	US	42,836	16,919	39	14,593	34	0.49
	Best State*			25		21	0.27
2005	California	4,333	1,769	41	1,505	35	0.46
	US	43,510	17,590	40	15,102	35	0.51
	Best State*			14		12	0.14
2006	California	4,240	1,762	42	1,495	35	0.46
	US	42,708	17,738	42	15,144	35	0.50
	Best State*			24		20	0.22
2007	California	3,974	1,616	41	1,353	34	
	US	41,059	17,036	41	14,575	35	0.49
	Best State*			23		19	

*State (or States) With Lowest Percents: Lowest Percents Could Be in Different States

**Based on the BAC of All Involved Drivers, Motorcycle Riders (Operators), Pedalcyclists and Pedestrians

2007 National VMT is a Preliminary Estimate and Subject to Change

2007 State Vehicle Miles Traveled (VMT) Data is Not Yet Available

[Back To The Table of Contents](#)



Alcohol-Impaired Driving Fatalities**:
California, U.S. and Best State
(New Definition)

Year		Total Fatalities in all Crashes	Alcohol-Impaired Driving Fatalities (BAC = .08+)		
			Number	Percent	Per 100 Million VMT
2003	California	4,224	1,149	27	0.36
	US	42,884	13,096	31	0.45
	Best State*			12	0.15
2004	California	4,120	1,179	29	0.36
	US	42,836	13,099	31	0.44
	Best State*			20	0.25
2005	California	4,333	1,298	30	0.39
	US	43,510	13,582	31	0.45
	Best State*			12	0.13
2006	California	4,240	1,272	30	0.39
	US	42,708	13,491	32	0.45
	Best State*			18	0.20
2007	California	3,974	1,155	29	
	US	41,059	12,998	32	0.43
	Best State*			17	

*State (or States) With Lowest Percents: Lowest Percents Could Be in Different States

**Based on the BAC of All Involved Drivers and Motorcycle Riders (Operators) Only

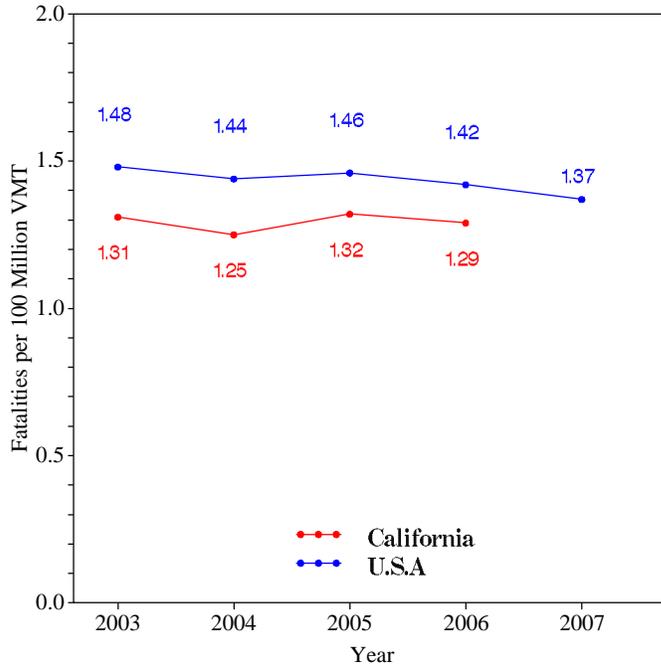
2007 National VMT is a Preliminary Estimate and Subject to Change

2007 State Vehicle Miles Traveled (VMT) Data is Not Yet Available

[Back To The Table of Contents](#)

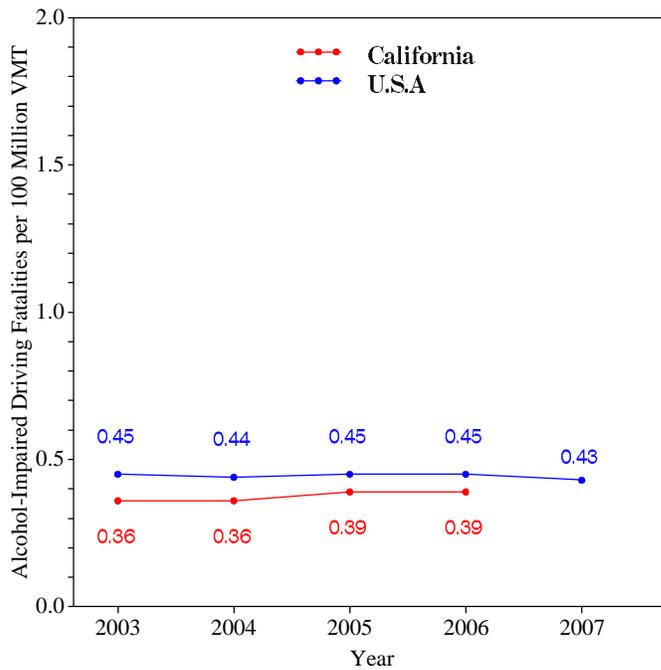


Fatalities per 100 Million VMT



[Back To The Table of Contents](#)

Alcohol-Impaired Driving Fatalities per 100 Million VMT



2007 National VMT is a Preliminary Estimate and Subject to Change
2007 State Vehicle Miles Traveled (VMT) Data is Not Yet Available

[Back To The Table of Contents](#)



**Blood Alcohol Concentration (BAC) Reporting Rates
For Drivers/Motorcycle Riders (Operators)
Involved in Fatal Crashes:
California , U.S. and Best State**

Year		Surviving Drivers/Motorcycle Riders			Killed Drivers/Motorcycle Riders			Total Drivers/Motorcycle Riders		
		Total	With Blood Alcohol Concentration (BAC) Results Reported to FARS		Total	With Blood Alcohol Concentration (BAC) Results Reported to FARS		Total	With Blood Alcohol Concentration (BAC) Results Reported to FARS	
			Number	Percent		Number	Percent		Number	Percent
2003	California	3,421	726	21	2,267	2,033	90	5,688	2,759	49
	US	31,738	8,196	26	26,779	18,836	70	58,517	27,032	46
	Best State*			76			98			83
2004	California	3,345	704	21	2,294	2,056	90	5,639	2,760	49
	US	31,524	8,215	26	26,871	18,275	68	58,395	26,490	45
	Best State*			80			97			82
2005	California	3,459	649	19	2,310	1,951	84	5,769	2,600	45
	US	31,729	7,415	23	27,491	18,773	68	59,220	26,188	44
	Best State*			77			98			84
2006	California	3,439	590	17	2,335	2,113	90	5,774	2,703	47
	US	30,498	7,482	25	27,348	18,911	69	57,846	26,393	46
	Best State*			81			99			85
2007	California	3,229	616	19	2,236	1,866	83	5,465	2,482	45
	US	29,201	6,765	23	26,480	16,991	64	55,681	23,756	43
	Best State*			82			96			84

*State (or States) With Highest Percents: Highest Percents Could Be in Different States

[Back To The Table of Contents](#)



Daytime Front Seat (Outboard Only) Passenger Vehicle Occupants, Aged 5 and Over, by Restraint Use: Fatalities and Observed California , U.S. and Best State

Table with 3 columns: Year, Restraint Category (California, US, Best State*), Fatalities - Restrained** (Percent), and Observed - Restrained*** (Percent). Rows are grouped by year from 2003 to 2007.

*State With Highest Percent. Fatal Crash and Observed Percents Can Be Different States

**Percent Based Only Where Restraint Use Was Known

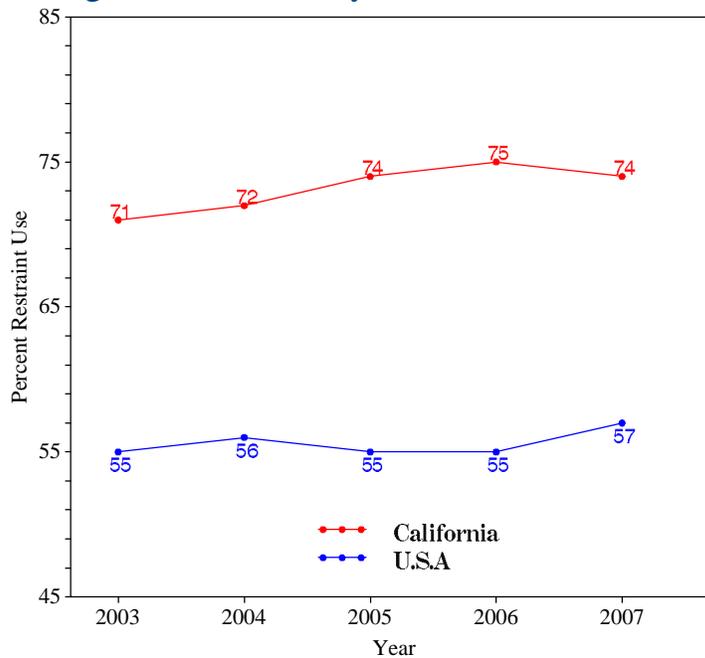
***USA Data: National Occupant Protection Use Survey. California Data: State Survey

Note: The Purpose of this Table is to Compare (as closely as possible) the Use of Restraint Systems by Fatally Injured Occupants with Occupants in all Driving Situations

Back To The Table of Contents



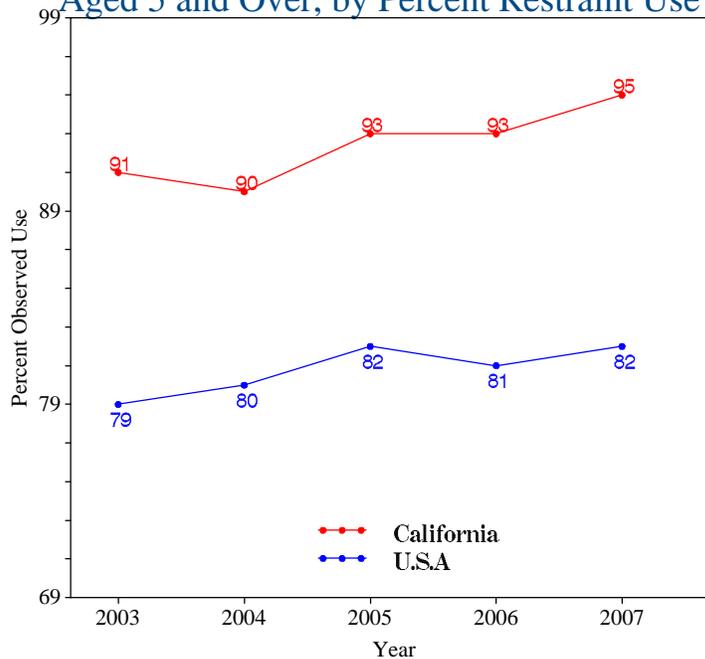
Daytime Front Seat (Outboard Only) Passenger Vehicle Occupant Fatalities, Aged 5 and Over, by Percent Restraint Use*



*Percent Based Only Where Restraint Use Was Known

[Back To The Table of Contents](#)

Daytime Front Seat (Outboard Only) Passenger Vehicle Occupants Observed, Aged 5 and Over, by Percent Restraint Use*



*USA Data: National Occupant Protection Use Survey. California Data: State Survey

[Back To The Table of Contents](#)



Passenger Vehicle Occupant Fatalities Aged 5 and Above by Restraint Use and Lives Saved Estimates

Year	Fatalities Aged 5 and Above					Lives Saved Estimates**	
	Total	Restrained	Unrestrained	Unknown Restraint Use	Percent Known Restrained*	Lives Saved at Current Belt Use	Potential Additional Lives Savable at 100% Usage
2003	2,885	1,416	1,019	450	58	1,776	302
2004	2,743	1,445	995	303	59	1,765	324
2005	2,847	1,578	955	314	62	1,951	267
2006	2,710	1,522	907	281	63	1,888	316
2007	2,546	1,461	845	240	63	1,791	196

*Percent Based Only Where Restraint Use Was Known

**Lives Saved Estimates

[Back To The Table of Contents](#)

Passenger Vehicle Occupant Fatalities Aged Under 5 by Restraint Use and Lives Saved Estimates

Year	Fatalities Aged Under 5					Lives Saved Estimates**	
	Total	Restrained	Unrestrained	Unknown Restraint Use	Percent Known Restrained*	Lives Saved at Current Belt and Child Seat Usage	Potential Additional Lives Savable at 100% Usage
2003	50	35	13	2	73	3	9
2004	40	24	11	5	69	36	9
2005	47	25	19	3	57	39	13
2006	50	34	13	3	72	52	9
2007	48	33	12	3	73	52	

*Percent Based Only Where Restraint Use Was Known

**Lives Saved Estimates

[Back To The Table of Contents](#)



Motorcyclist Fatalities by Helmet Use and Lives Saved Estimates

Year	Fatalities					Lives Saved Estimates**	
	Total	Helmeted	Unhelmeted	Unknown Helmet Use	Percent Known Helmet*	Lives Saved at Current Helmet Use	Potential Additional Lives Savable at 100% Usage
2003	383	322	54	7	86	195	20
2004	432	360	59	13	86	222	20
2005	469	401	56	12	88	242	22
2006	506	430	67	9	87	258	27
2007	517	439	68	10	87	266	26

*Percent Based Only Where Helmet Use Was Known

**Lives Saved Estimates

[Back To The Table of Contents](#)



Fatalities by Person Type

Person Type		2003		2004		2005		2006		2007	
		#	%*	#	%*	#	%*	#	%*	#	%*
Occupants	Passenger Car	1,876	44	1,738	42	1,801	42	1,737	41	1,618	41
	Light Truck - Pickup	460	11	420	10	418	10	464	11	401	10
	Light Truck - Utility	415	10	427	10	447	10	410	10	419	11
	Light Truck - Van	183	4	197	5	229	5	151	4	156	4
	Light Truck - Other	3	0	4	0	2	0	0	0	1	0
	Large Truck	41	1	50	1	41	1	43	1	46	1
	Bus	2	0	0	0	7	0	3	0	2	0
	Other/Unknown Occupants	24	1	32	1	32	1	36	1	34	1
	Total Occupants	3,004	71	2,868	70	2,977	69	2,844	67	2,677	67
Motorcyclists	Total Motorcyclists	383	9	432	10	469	11	506	12	517	13
Nonoccupants	Pedestrian	704	17	684	17	742	17	719	17	640	16
	Bicyclist and Other Cyclist	106	3	110	3	115	3	141	3	109	3
	Other/Unknown Nonoccupants	27	1	26	1	30	1	30	1	31	1
	Total Nonoccupants	837	20	820	20	887	20	890	21	780	20
Total	Total	4,224	100	4,120	100	4,333	100	4,240	100	3,974	100

*Sum of Percents May Not = 100 Due to Individual Cell Rounding

[Back To The Table of Contents](#)



Fatalities by Crash Type

Crash Type	2003	2004	2005	2006	2007
Total Fatalities (All Crashes)*	4,224	4,120	4,333	4,240	3,974
- (1) Single Vehicle	2,355	2,369	2,491	2,418	2,314
- (2) Involving a Large Truck	370	415	429	394	363
- (3) Involving Speeding	1,511	1,333	1,473	1,404	1,464
- (4) Involving a Rollover	1,265	1,269	1,247	1,192	1,150
- (5) Involving a Roadway Departure	2,116	2,159	2,200	2,159	2,023
- (6) Involving an Intersection (or Intersection Related)	904	865	936	855	845

(1) Crash Involved Only One Coded Vehicle

(2) Crash Involved at Least One Large Truck

(3) Crash Involved at Least One Vehicle Speeding

(4) Crash Involved at Least One Vehicle That Rolled Over

(5) Crash Involved at Least One Vehicle That Departed the Roadway (FHWA Definition)

(6) Crash Occured Within an Intersection or Within the Approach to an Intersection

*A Fatality Can Be in More Than One Category. Therefore Sum of the Individual Cells Will Not Equal the Total Due to Double Counting

[Back To The Table of Contents](#)



Motorcyclist Fatalities by Age

Year	Age						Total
	<20	20-29	30-39	40-49	50-59	>59	
2003	18	94	83	101	64	23	383
2004	32	114	102	96	62	26	432
2005	28	139	86	106	81	29	469
2006	27	136	95	132	89	27	506
2007	13	161	105	115	90	33	517

[Back To The Table of Contents](#)

Motorcyclist Fatalities Per 100,000 Registered Motorcycles

Year	Motorcyclist Fatalities	Total Motorcycle Registrations*	Motorcyclist Fatalities Per 100,000 Motorcycle Registrations
2003	383	562,176	68.13
2004	432	626,529	68.95
2005	469	675,336	69.45
2006	506	726,096	69.69
2007	517		

*Data Source: FHWA

*2007 Motorcycle Registrations are Not Yet Available

[Back To The Table of Contents](#)



Fatalities by Person Type and Race/Hispanic Origin

Person Type by Race/Hispanic Origin		2003	2004	2005	2006
Occupants (All Vehicle Types)	Hispanic	1,126	1,068	1,239	1,256
	White Non-Hispanic	1,711	1,693	1,661	1,574
	Black, Non-Hispanic	224	224	215	205
	American Indian, Non-Hispanic/Unknown	37	19	29	30
	Asian, Non-Hispanic/Unknown	227	200	211	185
	Pacific Islander, Non-Hispanic/Unknown	7	10	3	5
	Multiple Races, Non-Hispanic/Unknown	0	30	51	39
	All Other Non-Hispanic or Race	50	53	36	52
	Unknown Race and Unknown Hispanic	5	3	1	4
	Total	3,387	3,300	3,446	3,350
Non-Occupants (Pedestrians, Pedalcyclists and Other/Unknown NonOccupants)					
	Hispanic	325	293	360	350
	White Non-Hispanic	346	354	346	350
	Black, Non-Hispanic	60	63	67	84
	American Indian, Non-Hispanic/Unknown	5	6	4	6
	Asian, Non-Hispanic/Unknown	77	73	81	81
	Pacific Islander, Non-Hispanic/Unknown	1	1	1	3
	Multiple Races, Non-Hispanic/Unknown	0	10	13	0
	All Other Non-Hispanic or Race	22	18	14	14
	Unknown Race and Unknown Hispanic	1	2	1	2
Total	837	820	887	890	
Total	4,224	4,120	4,333	4,240	

2007 Race/Hispanic Origin Data is Not Yet Complete

[Back To The Table of Contents](#)



5 Year Trend For The Top 10 Counties of 2007 - Fatalities

Counties by 2007 Ranking		Fatalities					Percent of Total				
		2003	2004	2005	2006	2007	2003	2004	2005	2006	2007
1	Los Angeles County	812	753	750	799	756	19	18	17	19	19
2	San Bernardino County	363	406	427	405	358	9	10	10	10	9
3	Riverside County	304	321	333	356	321	7	8	8	8	8
4	San Diego County	295	299	309	303	292	7	7	7	7	7
5	Orange County	213	212	203	208	192	5	5	5	5	5
6	Fresno County	210	148	164	155	159	5	4	4	4	4
7	Kern County	178	145	178	202	156	4	4	4	5	4
8	Sacramento County	149	131	162	128	140	4	3	4	3	4
9	San Joaquin County	101	124	124	118	107	2	3	3	3	3
10	Alameda County	114	101	105	96	101	3	2	2	2	3
Sub Total 1.*	Top Ten Counties	2,739	2,640	2,765	2,772	2,582	65	64	64	65	65
Sub Total 2.**	All Other Counties	1,485	1,480	1,568	1,468	1,392	35	36	36	35	35
Total	All Counties	4,224	4,120	4,333	4,240	3,974	100	100	100	100	100

*This Sub Total is the Total for the Top Ten Counties

**This Sub Total is the Total for all Counties Outside the Top Ten

[Back To The Table of Contents](#)



5 Year Trend For The Top 10 Counties of 2007 - Fatalities Year to Year Percent Change

Counties by 2007 Ranking		Fatalities					Percent Change From Previous Year				
		2003	2004	2005	2006	2007	2004	2005	2006	2007	
1	Los Angeles County	812	753	750	799	756	-7	-0	7	-5	
2	San Bernardino County	363	406	427	405	358	12	5	-5	-12	
3	Riverside County	304	321	333	356	321	6	4	7	-10	
4	San Diego County	295	299	309	303	292	1	3	-2	-4	
5	Orange County	213	212	203	208	192	-0	-4	2	-8	
6	Fresno County	210	148	164	155	159	-30	11	-5	3	
7	Kern County	178	145	178	202	156	-19	23	13	-23	
8	Sacramento County	149	131	162	128	140	-12	24	-21	9	
9	San Joaquin County	101	124	124	118	107	23	0	-5	-9	
10	Alameda County	114	101	105	96	101	-11	4	-9	5	
Sub Total 1.*		Top Ten Counties	2,739	2,640	2,765	2,772	2,582	-4	5	0	-7
Sub Total 2.**		All Other Counties	1,485	1,480	1,568	1,468	1,392	-0	6	-6	-5
Total		All Counties	4,224	4,120	4,333	4,240	3,974	-2	5	-2	-6

*This Sub Total is the Total for the Top Ten Counties

**This Sub Total is the Total for all Counties Outside the Top Ten

[Back To The Table of Contents](#)



5 Year Trend For The Top 10 Counties of 2007 - Fatality Rates

Median Rate for all U.S. Counties: 21.77

Counties by 2007 Ranking		Fatalities Per 100,000 Population				
		2003	2004	2005	2006	2007
1	Alpine County	510.20	84.32	266.43	343.05	174.67
2	Trinity County	37.44	82.38	58.56	42.98	105.81
3	Inyo County	77.17	38.92	62.00	102.44	57.31
4	Colusa County	35.61	54.11	48.37	28.45	51.64
5	Glenn County	36.84	40.31	25.39	43.08	49.80
6	Amador County	29.83	32.22	50.23	34.01	38.78
7	Calaveras County	38.60	46.77	26.23	15.03	36.29
8	Del Norte County	36.02	35.53	35.03	52.37	34.46
9	Siskiyou County	29.41	27.10	20.24	40.61	33.86
10	Mariposa County	22.74	45.28	22.56	33.44	33.27
	Sub Rate 1.* Top Ten Counties	50.46	50.01	50.19	44.77	44.39
	Sub Rate 2.** All Other Counties	11.69	11.28	11.73	11.37	10.63
	Total Rate All Counties	11.94	11.53	12.04	11.70	10.87

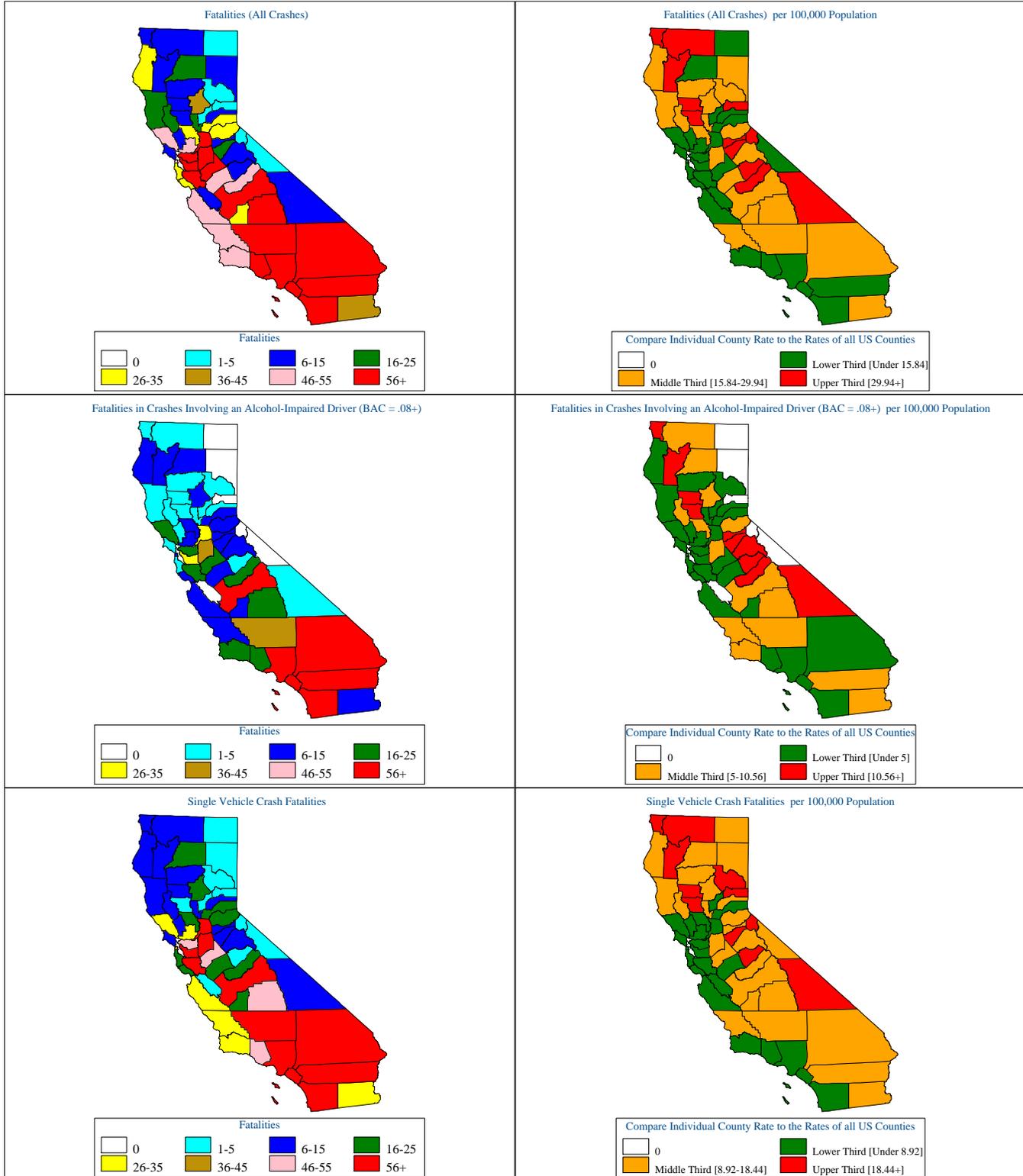
*This Sub Rate is the Rate for the Top Ten Counties

**This Sub Rate is the Rate for all Counties Outside the Top Ten

[Back To The Table of Contents](#)



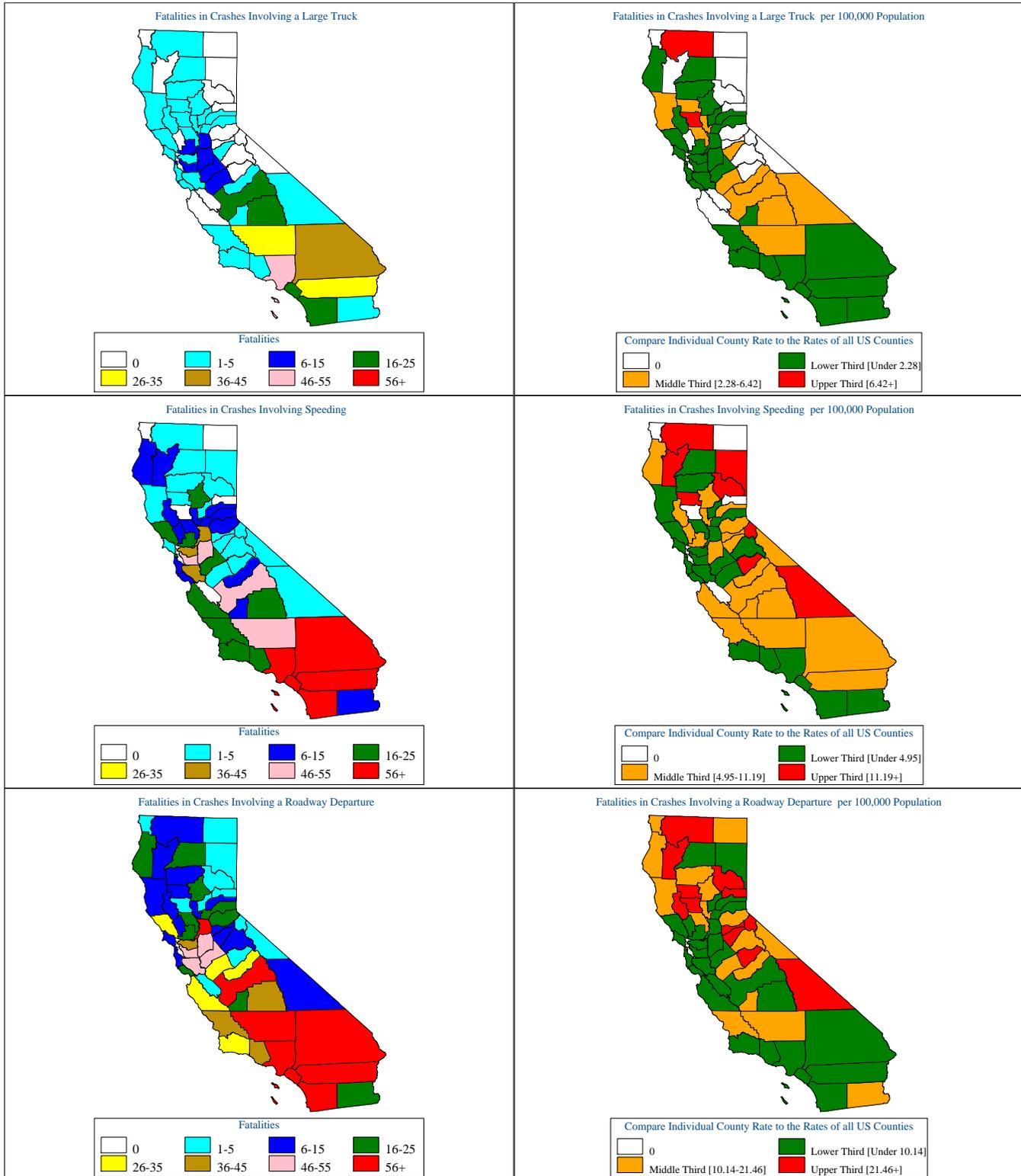
California Motor Vehicle Crash Fatality Maps for 2007



[Back To The Table of Contents](#)



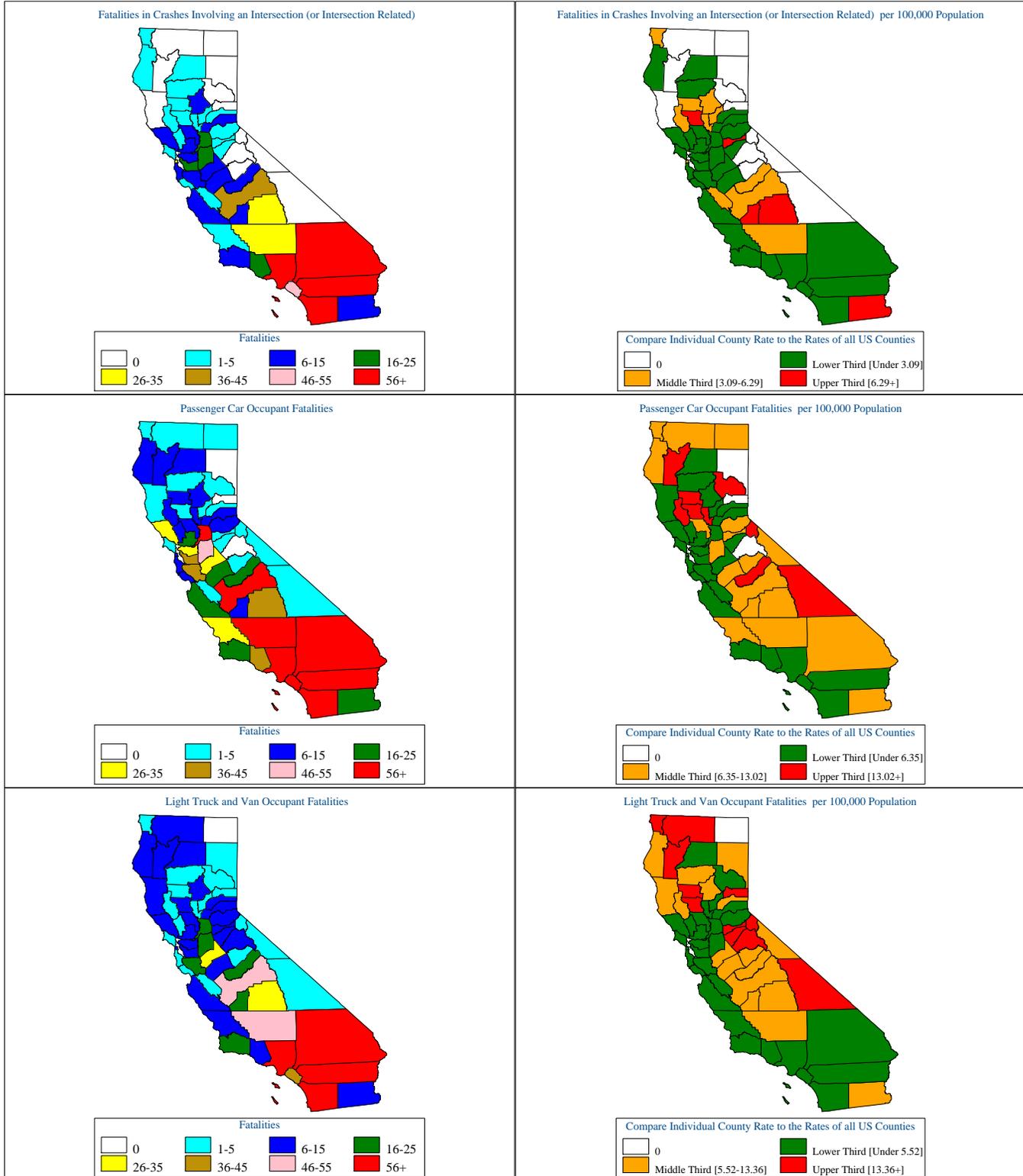
California Motor Vehicle Crash Fatality Maps for 2007



[Back To The Table of Contents](#)



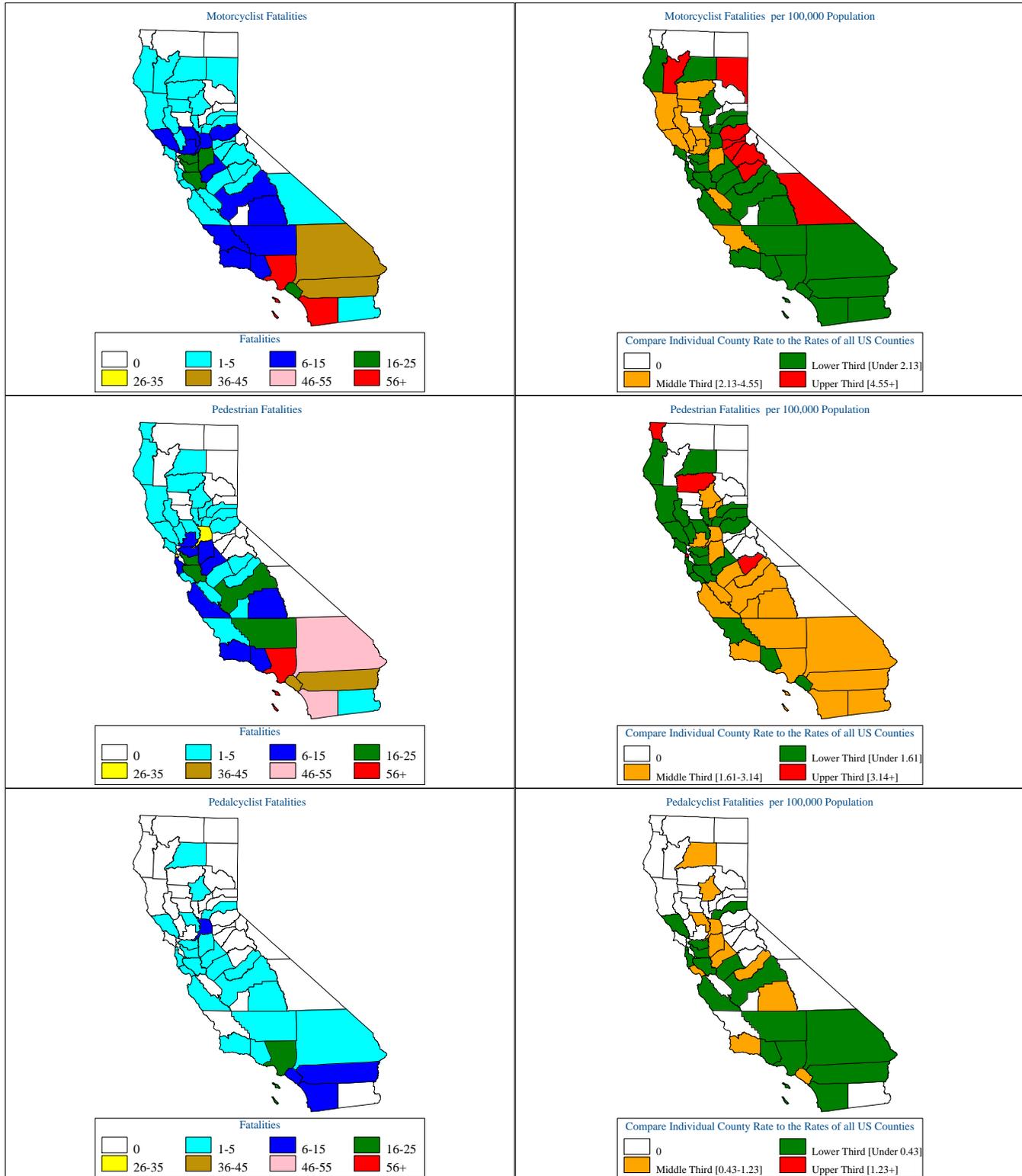
California Motor Vehicle Crash Fatality Maps for 2007



[Back To The Table of Contents](#)



California Motor Vehicle Crash Fatality Maps for 2007



[Back To The Table of Contents](#)