

SCAG Active Transportation Safety Program

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SCAG

Joint Active Transportation, Public Health and
Sustainability Subcommittee Meeting

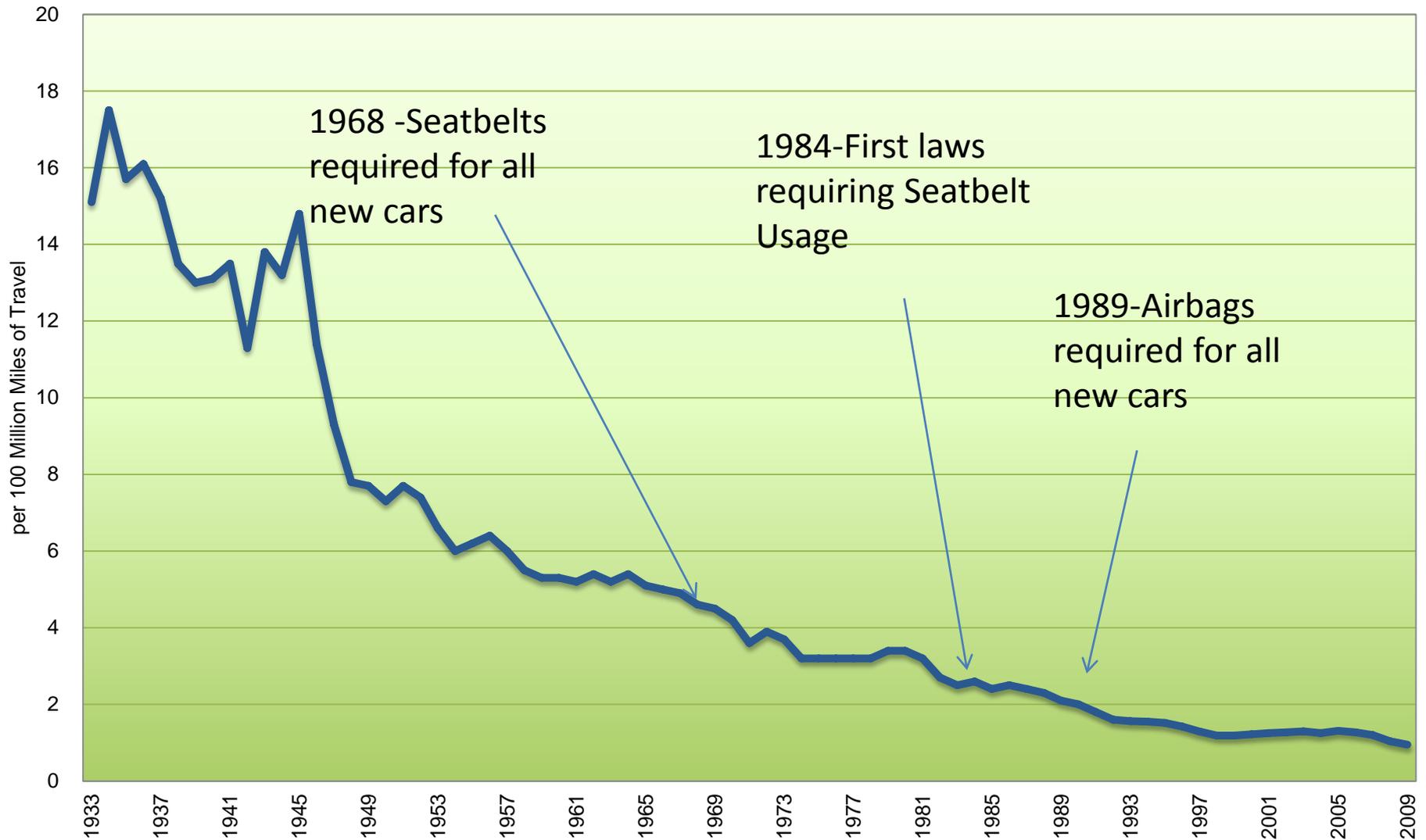


January 22nd 2013

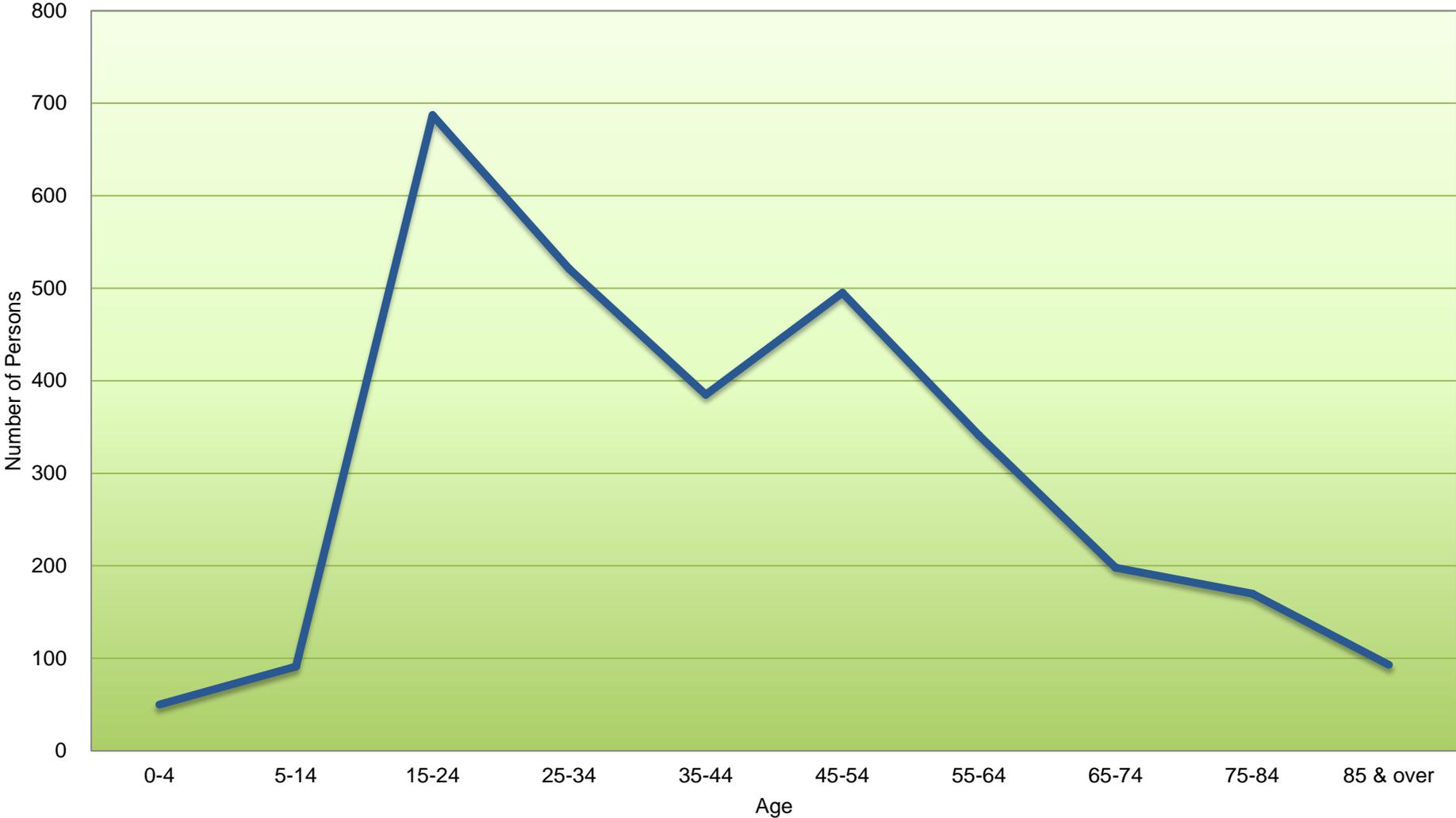


SOUTHERN CALIFORNIA
ASSOCIATION of GOVERNMENTS

US Fatalities/100 Million Miles Traveled



Persons Killed in Traffic Collisions by Age (2009) in California



Traffic Fatalities in SCAG Region (2010)

COUNTY	Driver Killed	Passenger Killed	Pedestrian Killed	Cyclist Killed	Motorcyclist Killed	Total Killed
Imperial	20	9	2	0	7	31
Los Angeles	241	105	198	24	71	568
Orange	51	20	32	3	20	106
Riverside	133	31	31	8	36	203
San Bernardino	121	59	33	8	26	221
Ventura	29	8	5	1	7	43
Regional Totals	595	232	301	44	167	1,172

Traffic Injuries in SCAG Region (2010)

COUNTY	Driver Injured	Passenger Injured	Pedestrian Injured	Cyclist Injured	Motorcyclist Injured	Total Injured
Imperial	402	285	36	29	22	772
Los Angeles	42,261	20,620	4,786	4,199	2,657	71,866
Orange	12,085	4,946	809	1,203	756	19,043
Riverside	7,040	3,554	370	334	507	11,298
San Bernardino	6,994	4,056	409	305	467	11,764
Ventura	3,178	1,263	212	279	208	4,932
Regional Totals	71,960	34,724	6,633	6,349	4,617	119,655

Drivers in Fatal Collisions by Movement Preceding Collision in California (2009)

	Head-On	Sideswipe	Rear End	Broadside	Hit Object	Overtuned	Auto/ Pedestrian	Other	TOTAL
MOVEMENT PRECEDING COLLISION									
Stopped	0.2%	0.2%	2.5%	0.9%	0.1%	0.1%	0.1%	0.1%	4%
Proceeding straight	8.2%	4.7%	7.1%	15.4%	6.0%	2.0%	11.1%	1.6%	56%
Ran off road	0.2%	0.2%	0.2%	0.1%	7.9%	2.6%	0.2%	0.2%	12%
Making right turn	0.0%	0.1%	0.1%	0.3%	0.1%	0.1%	0.5%	0.2%	1%
Making left turn	0.7%	0.1%	0.2%	4.0%	0.2%	0.1%	0.8%	0.2%	6%
Making U turn	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0%
Backing	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.1%	0.1%	0%
Slowing/stopping	0.1%	0.1%	0.7%	0.1%	0.0%	0.1%	0.0%	0.0%	1%
Passing other vehicle	0.5%	0.1%	0.1%	0.1%	0.2%	0.1%	0.1%	0.0%	1%
Changing lanes	0.0%	0.9%	0.6%	0.1%	0.2%	0.0%	0.1%	0.0%	2%
Parking maneuver	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0%
Entering traffic	0.0%	0.0%	0.1%	0.2%	0.0%	0.1%	0.1%	0.0%	0%
Other unsafe turning	0.3%	0.1%	0.2%	0.1%	1.6%	0.7%	0.1%	0.1%	3%
Crossed into opposing lane	3.0%	0.4%	0.0%	0.5%	0.2%	0.1%	0.0%	0.0%	4%
Parked	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0%
Merging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0%
Traveling wrong way	0.6%	0.1%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	1%
Other	0.1%	0.3%	0.2%	0.3%	3.5%	1.3%	0.2%	0.1%	6%
Not stated	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.2%	0.1%	0%
TOTAL	14.0%	7.4%	12.1%	22.6%	20.2%	7.3%	13.7%	2.7%	100.0%

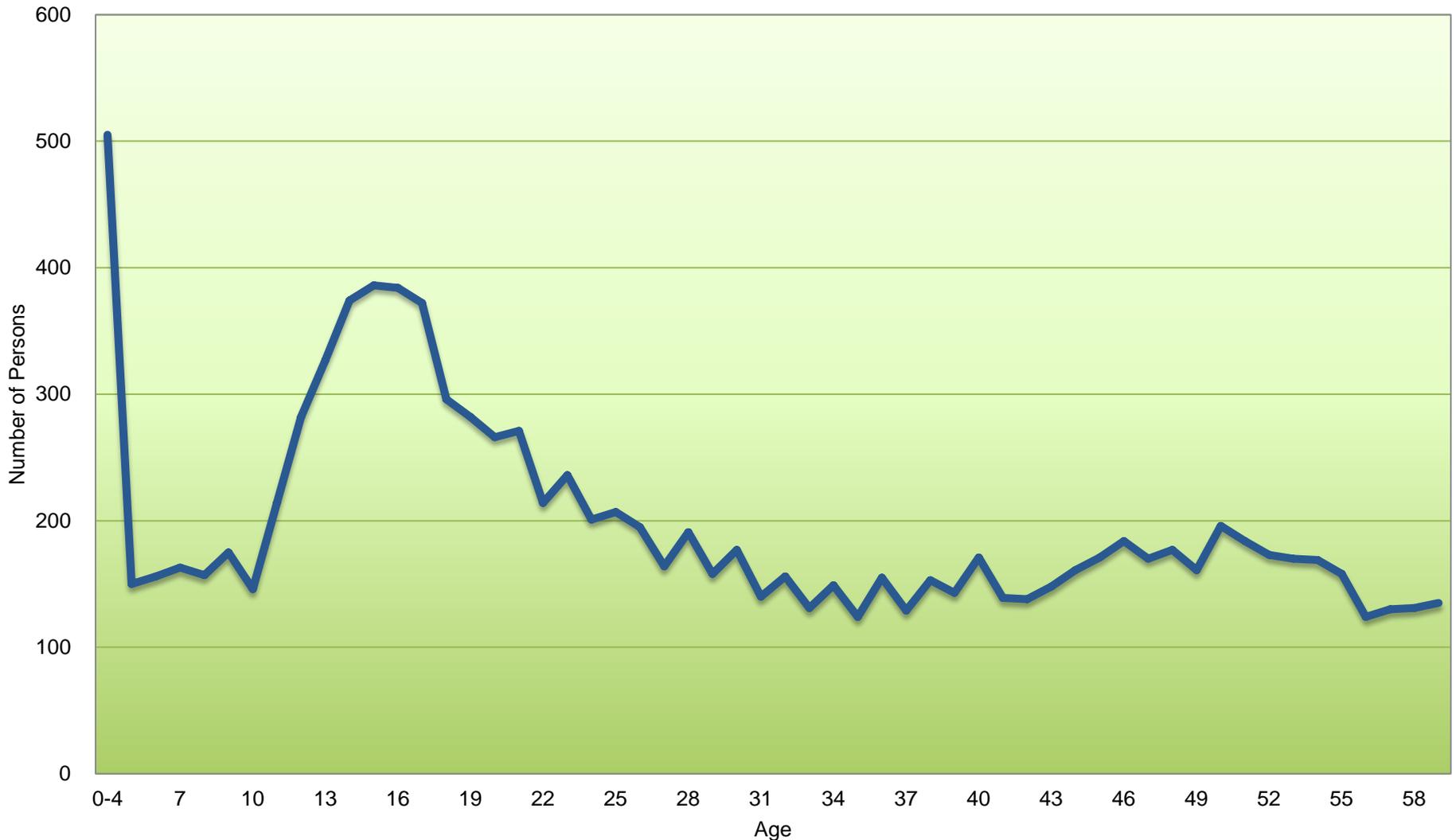
Drivers in Injury Collisions by Movement Preceding Collision in California (2009)

	Head-On	Sideswipe	Rear End	Broadside	Hit Object	Overtuned	Auto/ Pedestrian	Other	TOTAL
MOVEMENT PRECEDING COLLISION									
Stopped	0%	1%	13%	1%	0%	0%	0%	0%	16%
Proceeding straight	3%	5%	18%	18%	3%	1%	2%	1%	51%
Ran off road	0%	0%	0%	0%	2%	1%	0%	0%	3%
Making right turn	0%	0%	0%	1%	0%	0%	1%	0%	3%
Making left turn	2%	1%	0%	6%	0%	0%	1%	0%	10%
Making U turn	0%	0%	0%	1%	0%	0%	0%	0%	1%
Backing	0%	0%	0%	0%	0%	0%	0%	0%	1%
Slowing/stopping	0%	0%	5%	0%	0%	0%	0%	0%	6%
Passing other vehicle	0%	0%	0%	0%	0%	0%	0%	0%	0%
Changing lanes	0%	1%	1%	0%	0%	0%	0%	0%	3%
Parking maneuver	0%	0%	0%	0%	0%	0%	0%	0%	0%
Entering traffic	0%	0%	0%	1%	0%	0%	0%	0%	1%
Other unsafe turning	0%	0%	0%	0%	1%	0%	0%	0%	2%
Crossed into opposing lane	0%	0%	0%	0%	0%	0%	0%	0%	1%
Parked	0%	0%	0%	0%	0%	0%	0%	0%	0%
Merging	0%	0%	0%	0%	0%	0%	0%	0%	0%
Traveling wrong way	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	2%	0%	0%	0%	3%
Not stated	0%	0%	0%	0%	0%	0%	0%	0%	1%
TOTAL	6%	9%	39%	29%	8%	3%	4%	2%	100%

Fatalities in California by Primary Collision Factor

	2005	2006	2007	2008	2009
Persons killed by Primary Collision Factor					
Driving Or Bicycling Under Influence	23.47%	23.42%	22.89%	23.23%	23.05%
Improper Turning	20.07%	19.28%	20.09%	19.17%	19.90%
Unsafe Speed	15.85%	15.20%	17.34%	16.55%	15.02%
Pedestrian Violation	9.08%	9.44%	8.77%	10.47%	10.24%
Wrong Side Of Road	7.18%	7.60%	7.03%	6.85%	5.82%
Automobile Right-Of-Way	6.06%	6.43%	5.52%	6.20%	5.88%
Traffic Signals And Signs	5.23%	5.38%	5.70%	4.44%	5.43%
Unsafe Lane Change	2.21%	2.29%	2.47%	2.15%	2.99%
Unknown	2.16%	2.31%	1.79%	1.85%	2.70%
Pedestrian Right-Of-Way	1.84%	2.29%	2.09%	2.71%	2.60%
Other Than Driver	1.72%	1.57%	1.13%	1.68%	2.24%
Not Stated*	1.70%	1.60%	1.69%	2.12%	1.63%
Other Hazardous Violation	1.25%	1.19%	1.34%	0.79%	0.39%
Improper Passing	1.00%	1.07%	0.73%	0.71%	0.94%
Unsafe Starting Or Backing	0.42%	0.19%	0.53%	0.47%	0.33%
Other Improper Driving	0.37%	0.31%	0.33%	0.21%	0.29%
Impeding Traffic	0.05%	0.12%	0.18%	0.00%	0.20%
Following Too Closely	0.21%	0.14%	0.10%	0.12%	0.13%
Other Equipment	0.07%	0.02%	0.20%	0.15%	0.10%
Hazardous Parking	0.05%	0.10%	0.05%	0.12%	0.07%
Lights	0.02%	0.05%	0.00%	0.03%	0.07%

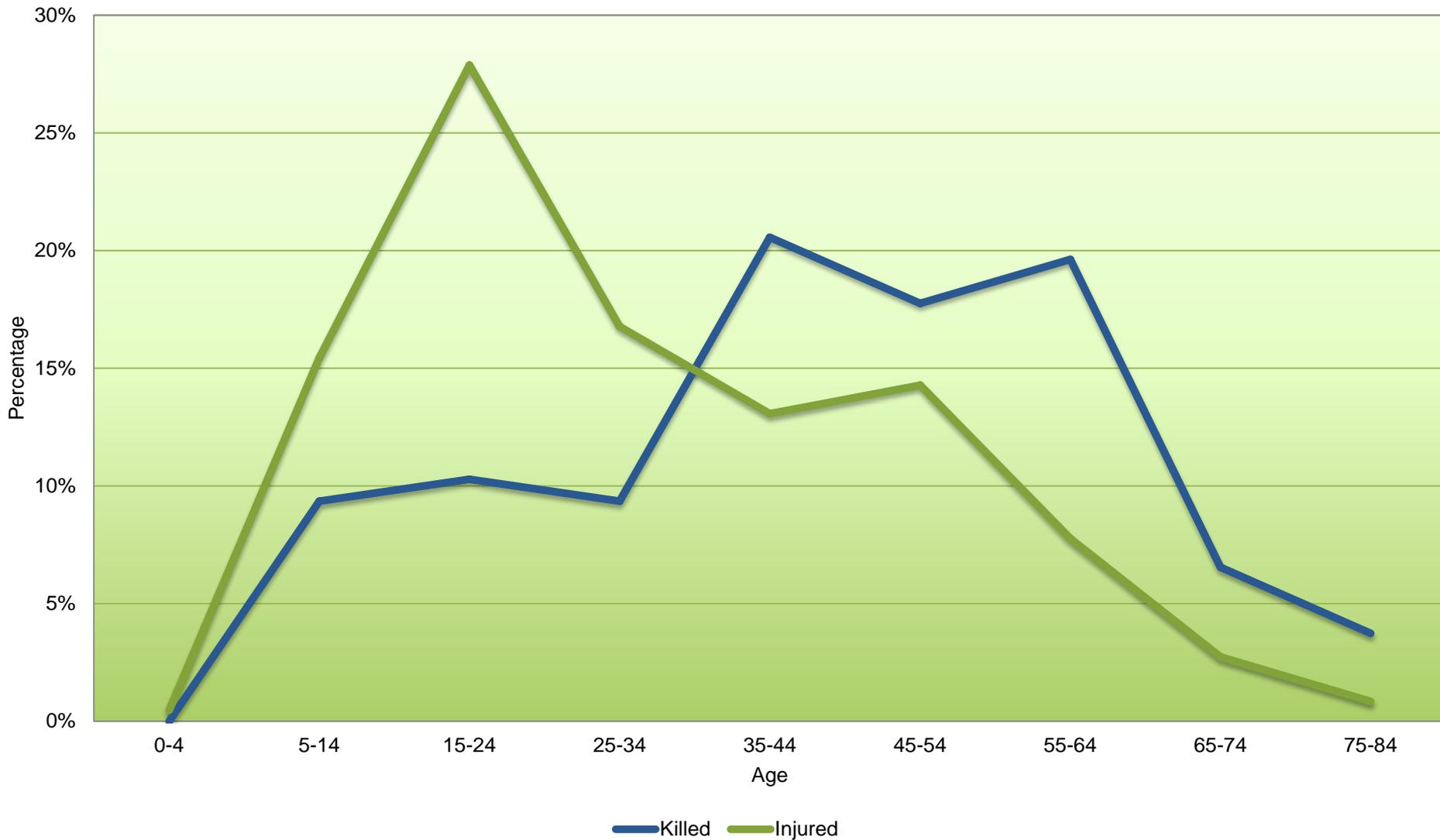
Pedestrians Injured by Age in California (2009)



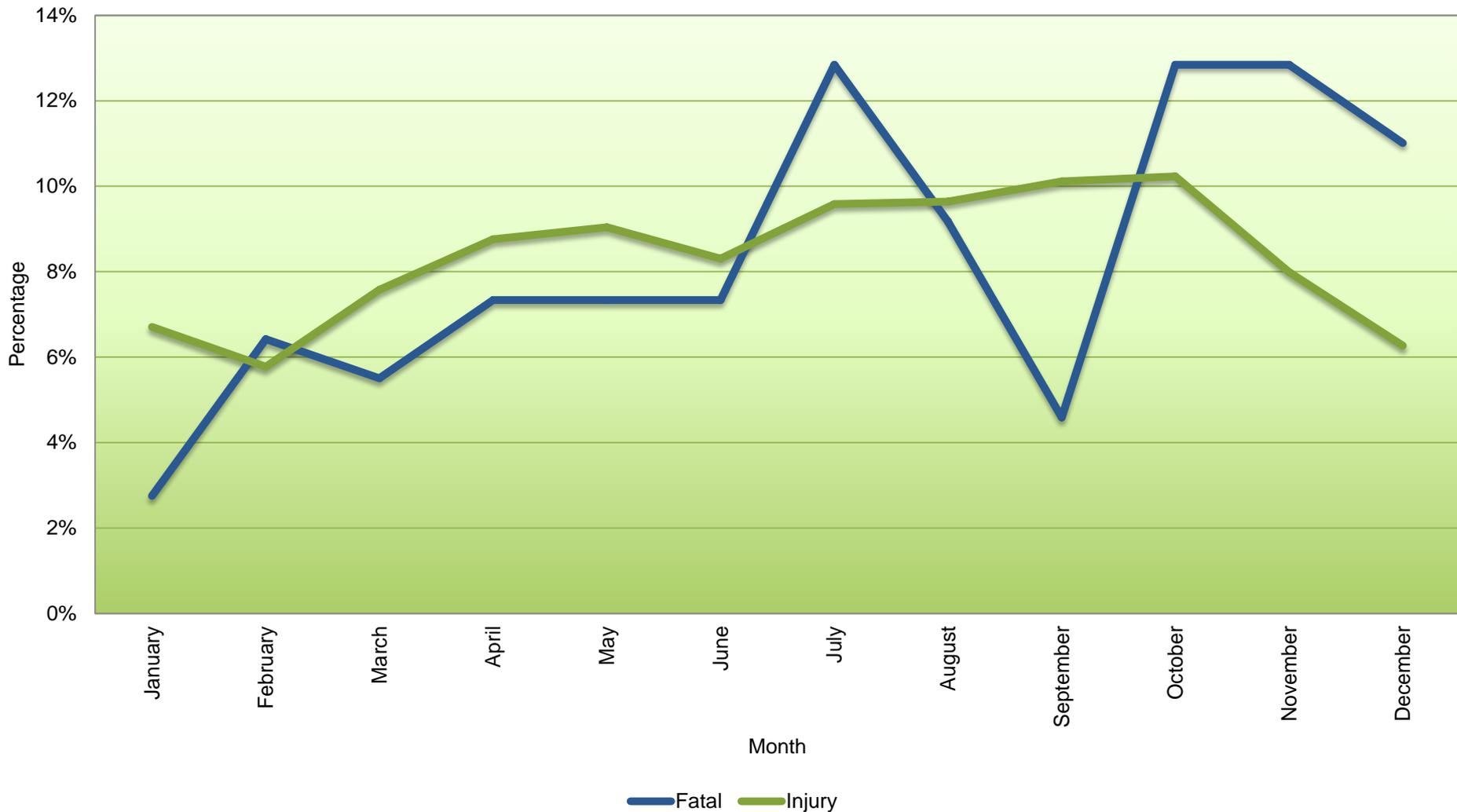
Pedestrians Injured by Age in California (2009)

	Crossing in crosswalk - at intersection	Crossing in crosswalk - not at intersection	Crossing - not in crosswalk	In roadway - includes shoulder	Not in roadway	Approach/leave school bus	Not Stated	TOTAL
0-4	2%	3%	6%	3%	5%		3%	4%
05-14	14%	15%	24%	10%	12%	18%	13%	16%
15-24	22%	25%	20%	24%	19%	18%	26%	22%
25-34	13%	11%	10%	18%	13%	9%	15%	13%
35-44	11%	12%	9%	15%	12%	9%	11%	11%
45-54	14%	11%	13%	15%	14%	36%	11%	14%
55-64	11%	10%	8%	8%	11%	9%	10%	9%
65 and over	13%	14%	9%	7%	13%		9%	11%
Total	44%	2%	27%	17%	8%	0%	1%	100%

Percentage of bicycle fatalities and injuries by age cohort (2009)



Percentage of Fatal and injury bicycle collisions/month in California (2009)



Hit and Run as a Percentage of all Collisions

- A. 11%
- B. 23%
- C. 32.8%
- D. 48%



Potential Active Transportation Safety Policies

- A. Establish a regional Safe Routes to School strategy
- B. Support activities that educate bicycle riders on rules/regulations and safety, particularly in sensitive communities
- C. Support legislation that increases penalties for hit and run violators
- D. Research innovative intersection treatments that may decrease injuries/fatalities

Questions?

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