Strategic Highway Safety Plan

Traffic Safety Facts **April 2022**



The 2020-2024 California Strategic Highway Safety Plan (SHSP) is a data-driven traffic safety plan that provides a framework for reducing traffic fatalities and serious injuries on all public roads. In summer 2020, state transportation leaders recognized a bolder and more focused approach was necessary to strengthen California's traffic safety efforts. This change, referred to as The Pivot, established a broader, more transparent, and collaborative approach to improving traffic safety by establishing four Guiding Principles and emphasizing improvements for the High Priority Areas.

Another component of The Pivot was to increase access to crash data for traffic safety professionals and partners. The fact sheets in this document highlight influential data findings related to each of the SHSP Challenge Areas and can be used to guide safety improvements. While these fact sheets provide a snapshot of unique statistical findings, access to more California crash data is available by visiting the SHSP Crash Data Dashboard (https://shsp.dot.ca.gov/). Utilizing this data can guide the targeted implementation of safety strategies with the greatest potential to save lives and prevent serious injuries.



CALIFORNIA® SAFE ROADS

Statewide

Since 2010, California roadway fatalities and serious injuries increased by

California Fatalities and Serious Injuries by Year

52%

16,158 15,000 10,000 5,000 2009 2010 2011 2014 2016 2017 2018 Fatalities Serious Injuries

In the 2017 National Household Travel Survey,

California's mode share per trip are pedestrians

WHEREAS

25% of statewide fatalities are pedestrians

Data Source: Fatality Analysis Reporting System (FARS) 2009-2018 for Fatalities and Statewide Integrated Traffic Records System (SWITRS) 2009-2018 for Serious Injuries

URBAN

92,588

(61%)

RURAL

60,335

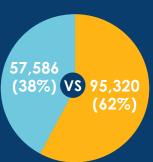
39% of fatalities and serious injuries occur in rural areas

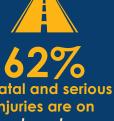
WHEREAS

17% of the state is considered rural as defined by population size. In 2018, rural areas contribute 14% of daily vehicle miles traveled

Data Source: California Public Roads (2018) statistical information derived from the highway performance monitoring system

of fatal and serious injuries are on state highways

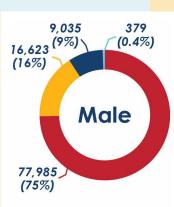




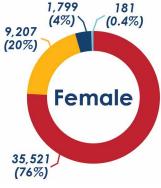
of fatal and serious injuries are on local roadways

In 2018, local roadways account for 45% of California's annual vehicle miles traveled

Data Source: California Public Roads (2018) statistical information derived from the highway performance monitoring system



of fatal and serious injury victims are male WHEREAS males make up 51% of the state's licensed drivers



31% of fatal and serious injury victims are female WHEREAS females make up 49% of the state's licensed drivers

*1% of fatal and serious injury victims do not have a gender identified.

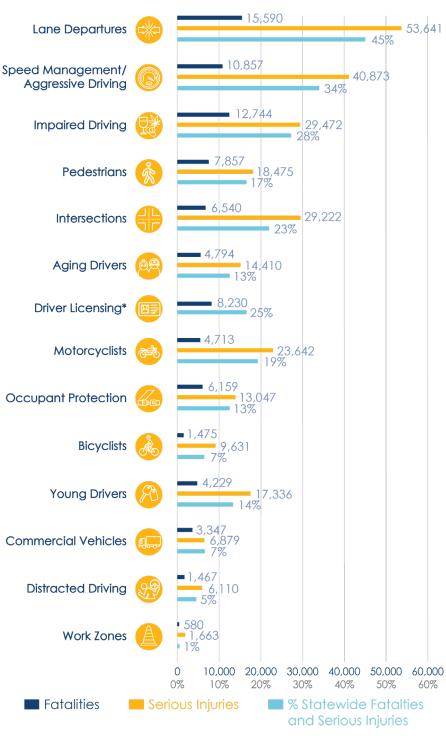


Data Source: Statewide Integrate Traffic Records System (SWITRS) 2009-2018



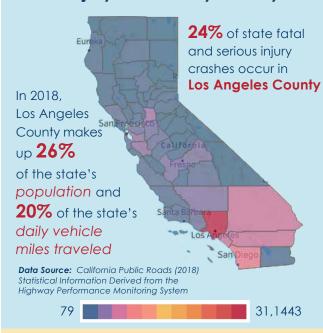
Statewide

Fatalities and Serious Injuries by Challenge Area

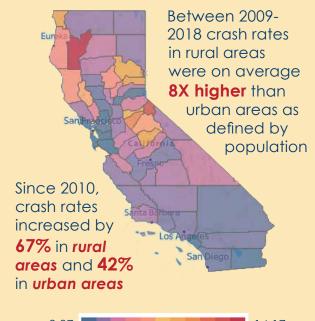


*Driver Licensing information based on FARS, which does not include serious injury data.

Number of Fatal and Serious Injury Crashes by County



Fatal and Serious Injury Crash Rate (Crashes per 100M Vehicle Miles Traveled)



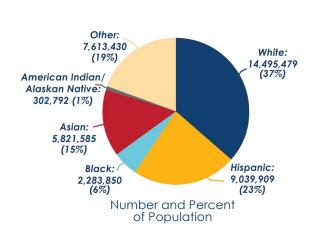
Crash Rate (# of Crashes/100 Million Vehicle Miles Traveled)

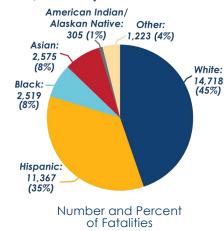


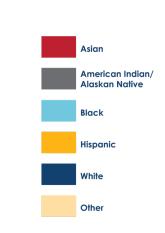
Statewide

Racial Equity in Traffic Fatalities

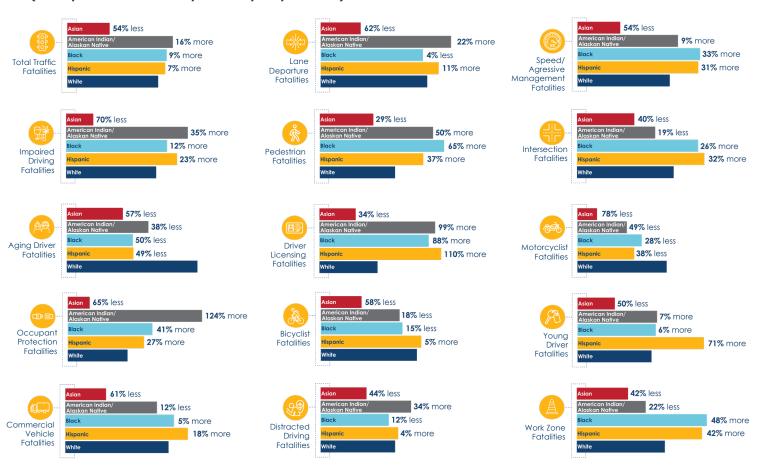
Distribution of California Traffic Fatalities by Race/Ethnicity







Fatality Rate by Race/Ethnicity Compared to White (Comparison of Fatality Rate by Population)



Data Source: US Census Bureau ACS and FARS (2009-2018)

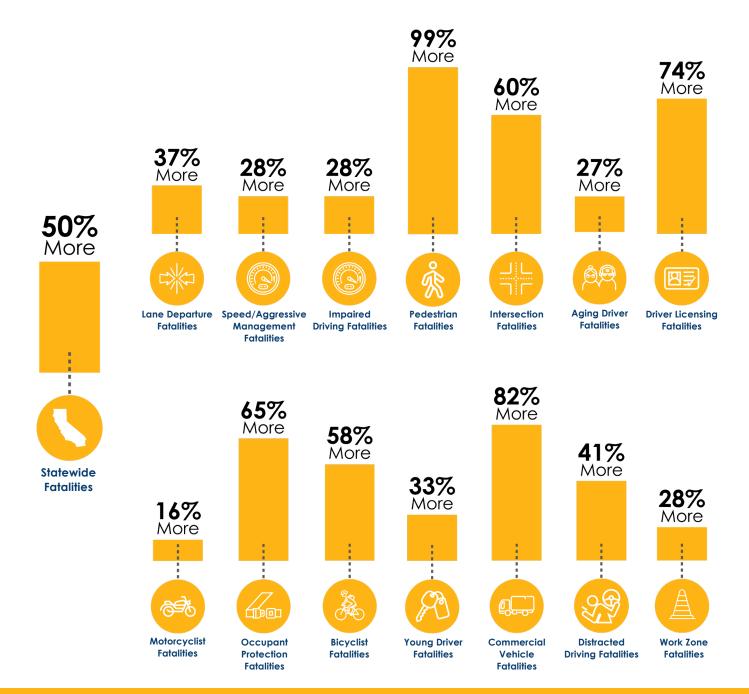
1. The race/ethnic groups presented above summarizes groups that could be consistently compared across the different data sets.
2. Fatality data from FARS is used on this sheet because racial data in FARS is victim specificity (rather than SWITRS, which is at the party level).

CALIFORNIA SAFE ROADS

Statewide

Income Equity in Traffic Fatalities

Increased Rate of Fatalities for Census Block Groups Locations with Household Income Less than \$50,000 Compared to Income Greater than \$50,000



Data Source: American Community Survey (ACS) collected by U.S. Census Bureau, FARS

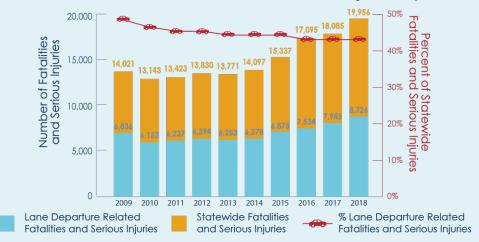
- 1. Income data is available for the Census Block Groups where a traffic fatality occurs and not the individual (i.e. this data represents the income information of the Census Block Groups where the crash occurs and not the income of the crash victim.)
- 2. The ACS 1-Year Estimates for 2018 were used to determine per-capita fatality rates.
- 3. FARS data was used because it has a greater percentage of located crashes than SWITRS.

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Lane Departures

Since 2010, **lane departure** related fatalities and serious injuries have increased by 42%

Lane Departure Related Fatalities and Serious Injuries and Percent of Statewide Fatalities and Serious Injuries by Year



Sideswipe

Head-on

Not Stated

Approximately of lane departure fatalities and serious injuries are related to Hit-Object crashes 483 217 Other Vehicle/Pedestrian 14,715 16,993 Overturned Hit object 1.033 **Broadside** 259 Read-end

780

34.685

Lane departure related fatalities and serious injuries peak between 3:00PM and 5:59PM, making up

of total lane departure related fatalities and serious injuries

15-24 year olds

make up the greatest number of lane departure fatalities and serious injuries for both males and females



Nearly

45%

of lane departure related fatalities and serious injuries occur on

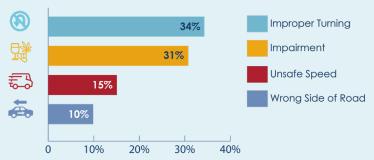
URBAN ROADWAYS

55%

of lane departure related fatalities and serious injuries occur on

RURAL ROADWAYS

Percent of Lane Departure Related Fatalities and Serious Injuries by Primary Collision Factor





Speed Management / Aggressive Driving



Since 2010, speeding and aggressive driving related fatalities and serious injuries increased by

52%

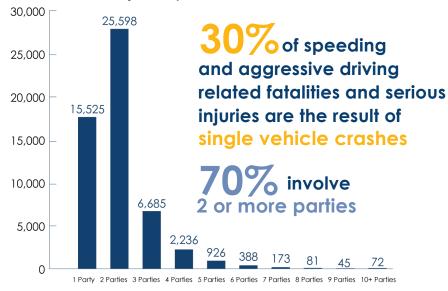
Speeding and Aggressive Driving Related Fatalities and Serious Injuries and Percent of Statewide Fatalities and Serious Injuries by Year



Speed/Agressive Driving Related Fatalities and Serious Injuries Statewide Fatalities and Serious Injuries

% Speed/Agressive Driving Related Fatalities and Serious Injuries

Number of Speeding and Aggressive Driving Related Fatalities and Serious Injuries by Number of Parties Involved



Almost 1/5

of speeding and aggressive driving related fatalities and serious injuries involve impaired drivers

This is the second highest primary collision factor behind unsafe speed

34%

of statewide fatalities and serious injuries are related to speeding and aggressive driving 2X as many males are killed or seriously injured in a speeding and aggressive driving-related crash than females





Impaired Driving



Impaired driving represents

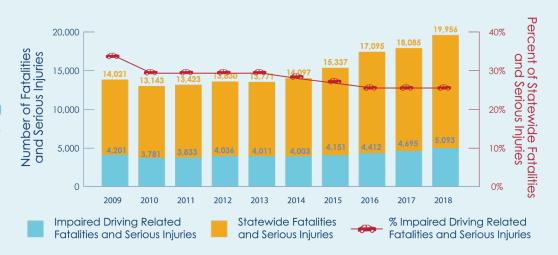
28%

of statewide fatalities and serious injuries

Since 2010, impaired driving related fatalities and serious injuries increased by

35%

Impaired Driving Related Fatalities and Serious Injuries and Percent of Statewide Fatalities and Serious Injuries by Year



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of impaired driving related fatalities and serious injuries are male

AND

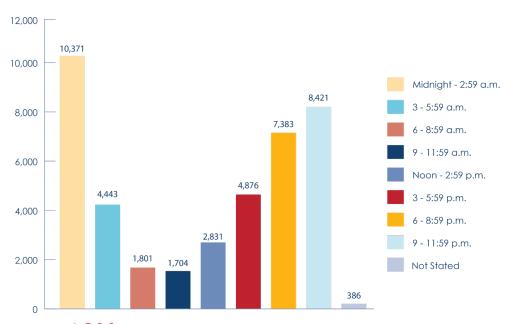


30%

of impaired driving related fatalities and serious injuries are female

*1% of impaired driving related fatalities and serious injuries did not have a gender identified

Impaired Driving Related Fatalities and Serious Injuries by Time of Day



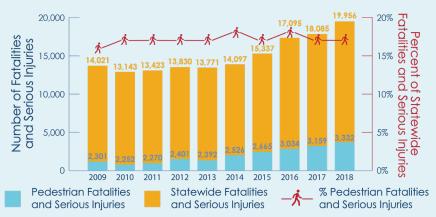
62% of impaired driving related fatalities and serious injuries occur between **6:00PM and 2:59AM**



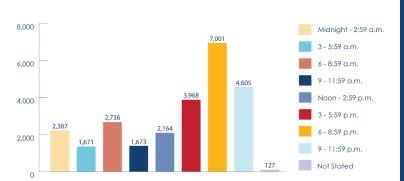
**

Since 2010, pedestrian fatalities and serious injuries have increased by

Pedestrian Fatalities and Serious Injuries and Percent of Statewide Fatalities and Serious Injuries by Year



of pedestrian fatalities and serious injuries occur when it is dark, with or without street lights present or functioning



44% of pedestrian fatalities and serious injuries occur between **6PM and Midnight**

14% of pedestrian fatalities involve impaired drivers

WHEREAS

39% of ALL fatalities involve an impaired driver





9%

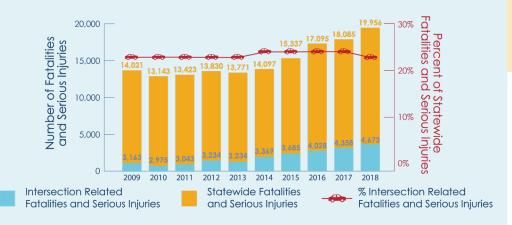
of pedestrian
fatalities and
serious injuries are
under the age of 15



CALIFORNIA SAFE ROADS Intersections

JIL)

Intersection Related Fatalities and Serious Injuries and Percent of Statewide Fatalities and Serious Injuries by Year

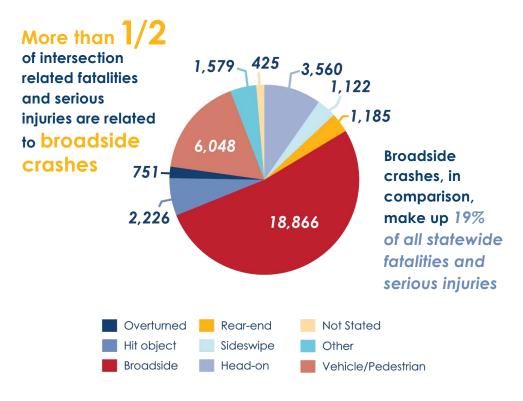


27%

of intersection related fatalities and serious injuries are related to vehicle failure to yield

21%
of intersection related
fatalities and serious injuries
are related to disobeying
traffic signals and signs

Intersection Related Fatalities and Serious Injuries by Crash Type



18%

of intersection related fatalities and serious injuries are motorcylist victims

32%

of intersection related fatalities and serious injuries are victims ages 65+

AND

27%

of victims are between the age of 0-14

of intersection related fatalities and serious injuries are pedestrian crashes



32%

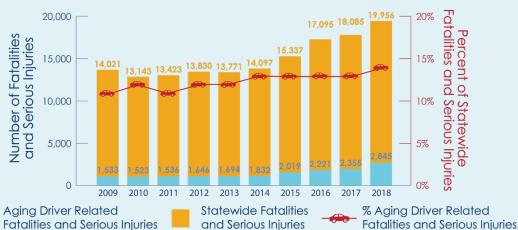
of intersection related fatalities and serious injuries occur between 6:00PM and midnight

CALIFORNIA SAFE ROADS Aging Drivers



Since 2010, **aging driver** related fatalities and serious injuries increased by **87%**

Aging Driver Related Fatalities and Serious Injuries and Percent of Statewide Fatalities and Serious Injuries by Year

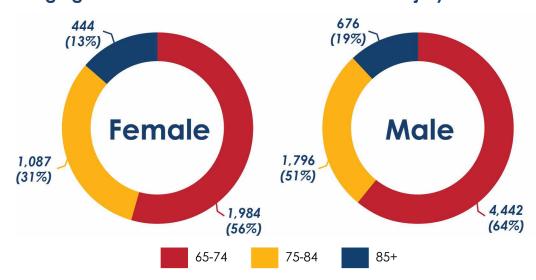


of aging drivers involved in a fatal or serious injury crash are at fault



61% of aging driver related fatalities and serious injuries are male of fatalities and serious injuries related to aging driver crashes are the aging driver themselves

Aging Drivers involved in Fatal and Serious Injury Crashes



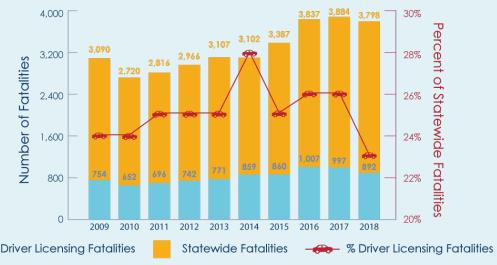


Driver Licensing

The Driver Licensing Challenge Area includes instances where an involved driver is unlicensed or does not carry a valid license for the vehicle that they are operating.



Driver Licensing Related Fatalities and Percent of Statewide Fatalities by Year



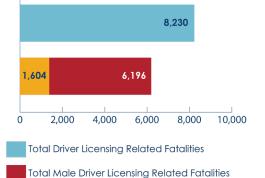
The data shows that people continue to drive after their privileges have been suspended or revoked, and drivers without valid licenses remains an issue associated with fatalities on California roadways.

Since 2010, driver licensing related fatalities increased by



Driver licensing related fatalities make up 23% of statewide fatalities in 2018

of driver licensing related fatalities are male



of male fatalities 26% are between the ages 15-24

Male Ages 15-24 Driver Licensing Related Fatalities

of male drivers in California do not have a valid license compared to



of driver licensing related fatalities are male driver victims



of driver licensing related fatalities are female passenger victims

Female victims are more likely to be passengers while males are more likely to be drivers

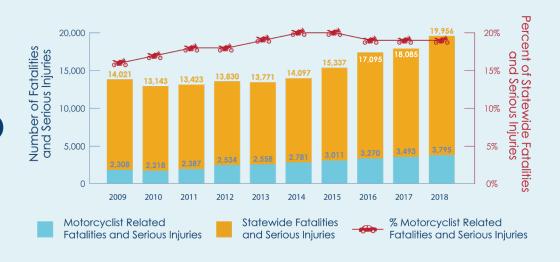
CALIFORNIA SAFE ROADS Motorcyclists



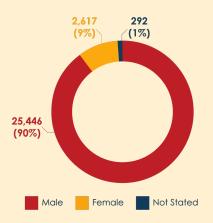
Since 2010, motorcyclist fatalities and serious injuries increased by

71%

Motorcyclist Fatalities and Serious Injuries and Percent of Statewide Fatalities and Serious Injuries by Year

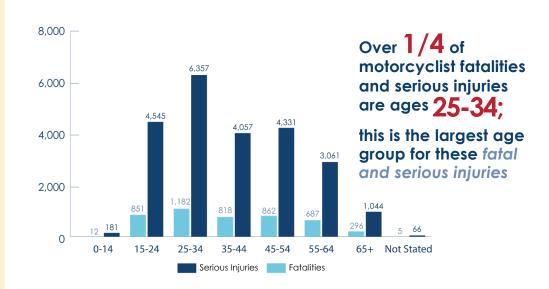


Motorcyclist Fatalities and Serious Injuries by Gender





Motorcyclist Fatalities and Serious Injuries by Age



of motorcyclist fatalities and serious injuries are non-intersection crashes

63% of motorcyclist crashes are multi-vehicle About 1/2 are the fault of each motorcyclists and motor vehicle drivers





Occupant Protection



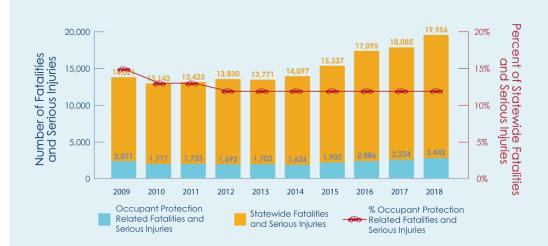
35% of occupant protection related fatalities are related to impairment

OF WHICH

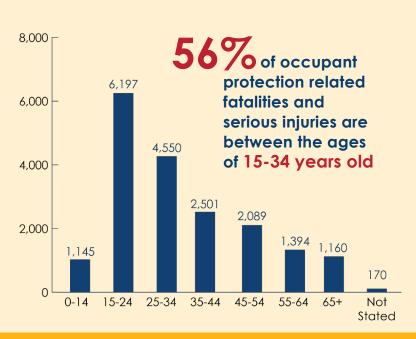
80%
are the impaired driver themselves



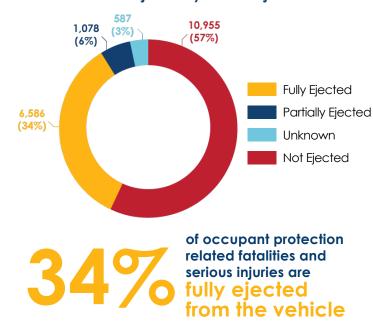
Occupant Protection Related Fatalities and Serious Injuries and Percent of Statewide Fatalities and Serious Injuries by Year



Occupant Protection Related Fatalities and Serious Injuries by Age



Occupant Protection Related Fatalities and Serious Injuries by Victim Ejection



CALIFORNIA SAFE ROADS Bicyclists



Bicyclist fatalities and serious injuries increased by

26%

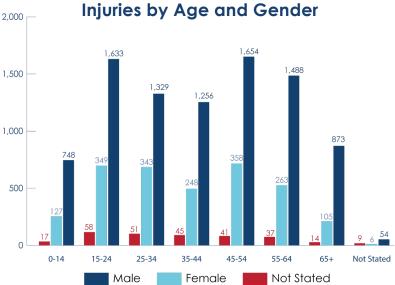
since 2010, with fatalities in particular increasing by

61%

Bicyclist Fatalities and Serious Injuries and Percent of Statewide Fatalities and Serious Injuries by Year



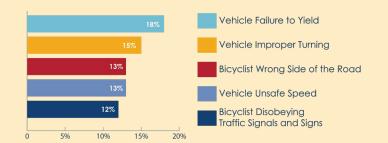
Bicyclist Fatalities and Serious



More than 1/4 of male bicyclist fatalities and serious injuries are 55+ years old



Percent of Bicyclist Fatalities and Serious Injuries by Primary Collision Factor



76%

of bicyclist fatalities and serious injuries occur in urban areas



81%

of bicyclist fatalities and serious injuries are male

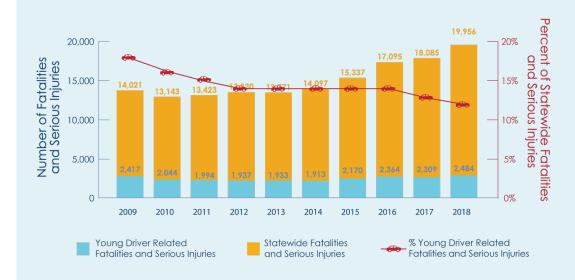






66%

of fatalities and serious injuries related to young driver crashes are male Young Driver Related Fatalities and Serious Injuries and Percent of Statewide Fatalities and Serious Injuries by Year



67%

of young drivers involved in a fatal or serious injury crash are at-fault

COMPARED TO

53% of drivers overall

of fatalities related to young driver crashes are the young drivers themselves







Commercial Vehicles



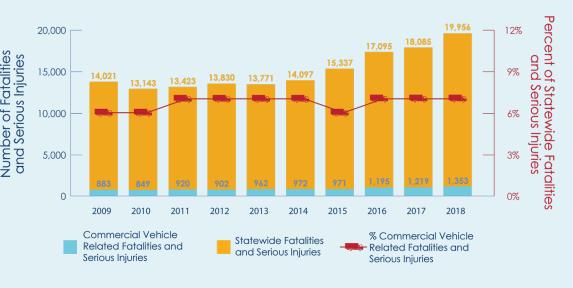
Since 2010, commercial vehicle related fatalities and serious injuries have increased

serious injuries have increased

35%

Aumber of Fatalities and Serious Injuries and Serious I

Commercial Vehicle Related Fatalities and Serious Injuries and Percent of Statewide Fatalities and Serious Injuries by Year

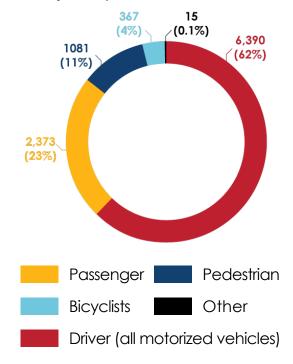


13%

of driver fatalities and serious injuries related to commercial vehicle crashes are motorcyclists

14%

of driver fatalities and serious injuries related to commercial vehicle crashes are commercial vehicle drivers Commercial Vehicle Related Fatalities and Serious Injuries by Victim Role





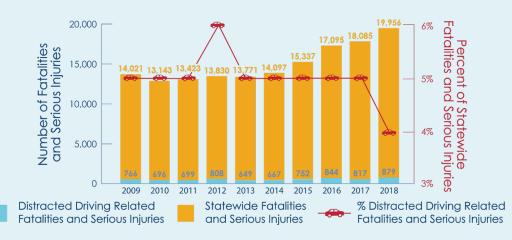
Commerical vehicle related fatalities and serious injuries occur in urban and rural areas, as defined by population,

EQUALLY



CALIFORNIA® SAFE ROADS **Distracted Driving**

Distracted Driving Related Fatalities and Serious Injuries and Percent of Statewide Fatalities and Serious Injuries by Year



serious injuries for both males and females

20-24 year

olds make up

the greatest number

of distracted driving

related fatalities and

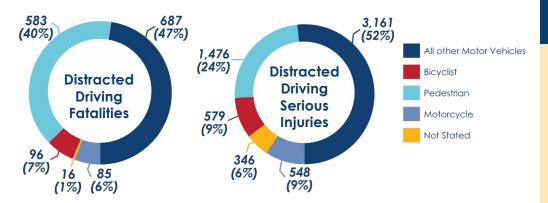
21%

of distracted driving

involve a pedestrian

related fatalities

of distracted driving related fatalities and serious injuries also had unsafe speed reported — the most common primary collision factor



of fatalities and serioues injuries related to distracted driving are bicyclists

Female drivers ages 15-24 are more than 2X as likely as all drivers to be involved in distracted driving related fatal crashes

of distracted driving related fatalities and serious injuries are female

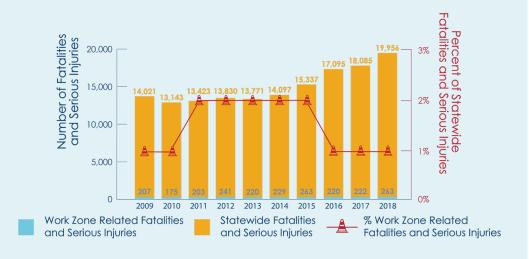
WHEREAS

of statewide fatalities and serious injuries are female



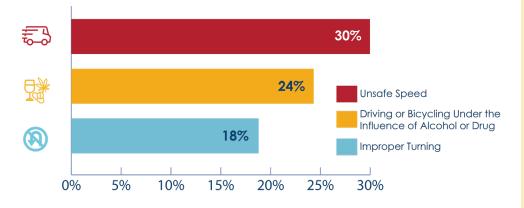


Work Zone Related Fatalities and Percent of Statewide Fatalities and Serious Injuries by Year



Over 1/2
of work zone related fatalities and serious injuries result from hit object and rear-end crashes

Percent of Work Zone Related Fatalities and Serious Injuries by Primary Collision Factor



56%
of fatalities and
46% of serious
injuries related to
work zones occur at
dark — with/or without
functioning street lights

of work zone related fatalities and serious injuries are male

AND

of these male victims are between the ages of 15-24



75% of work zone related fatalities and serious injuries occur on the state highway system