

Roadway Departure Safety Basics

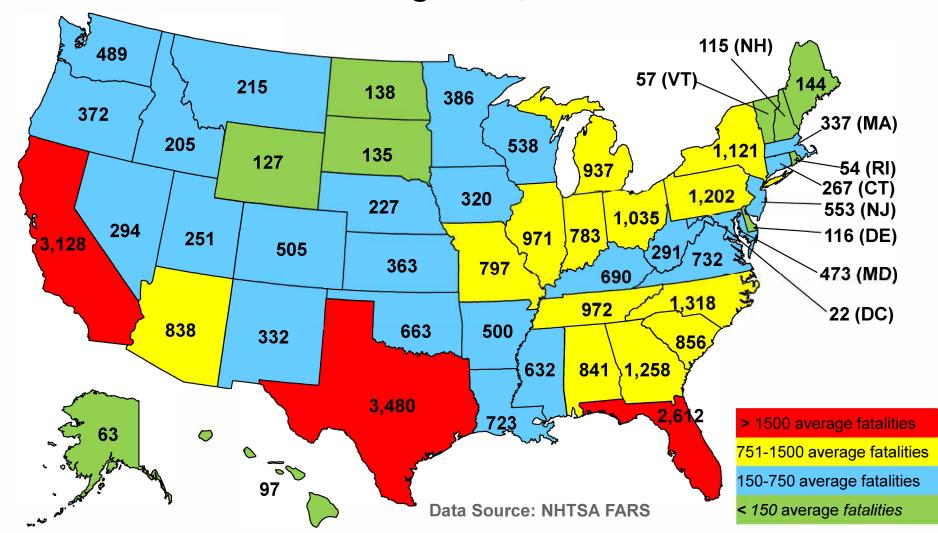
Ken Kochevar Safety Program Manager



Fatalities in the USA

(2013 - 2015 Average)

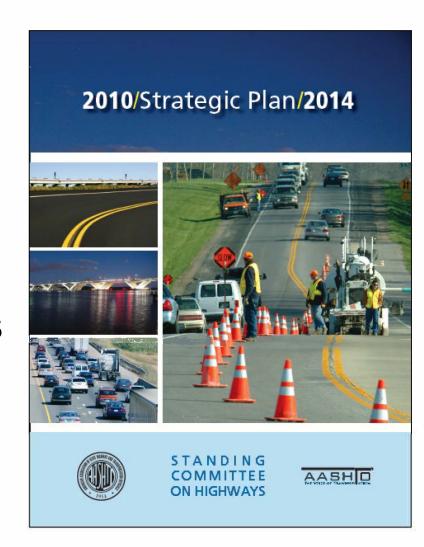
National Average – 33,576 Fatalities



AASHTO Strategic Plan

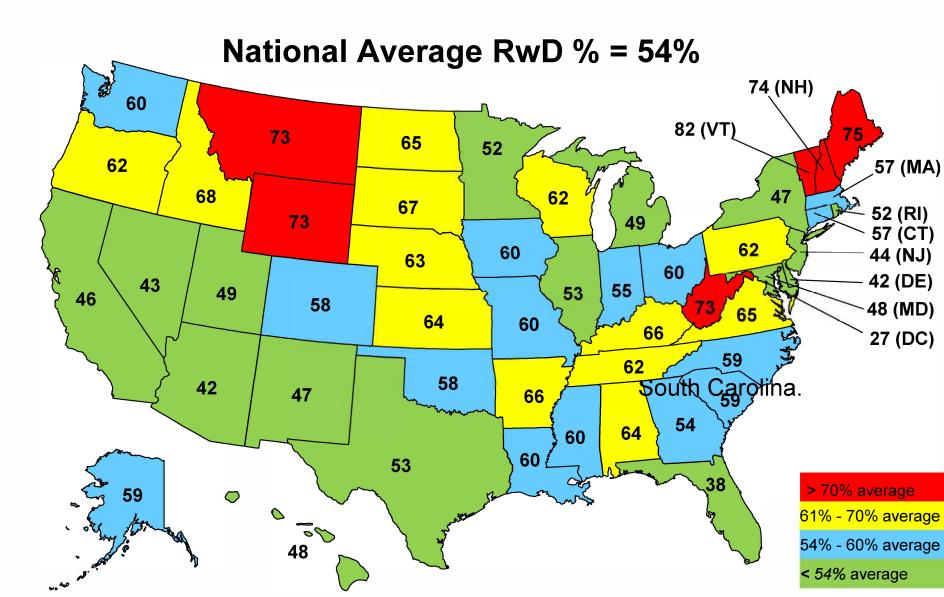
Strategic Objective

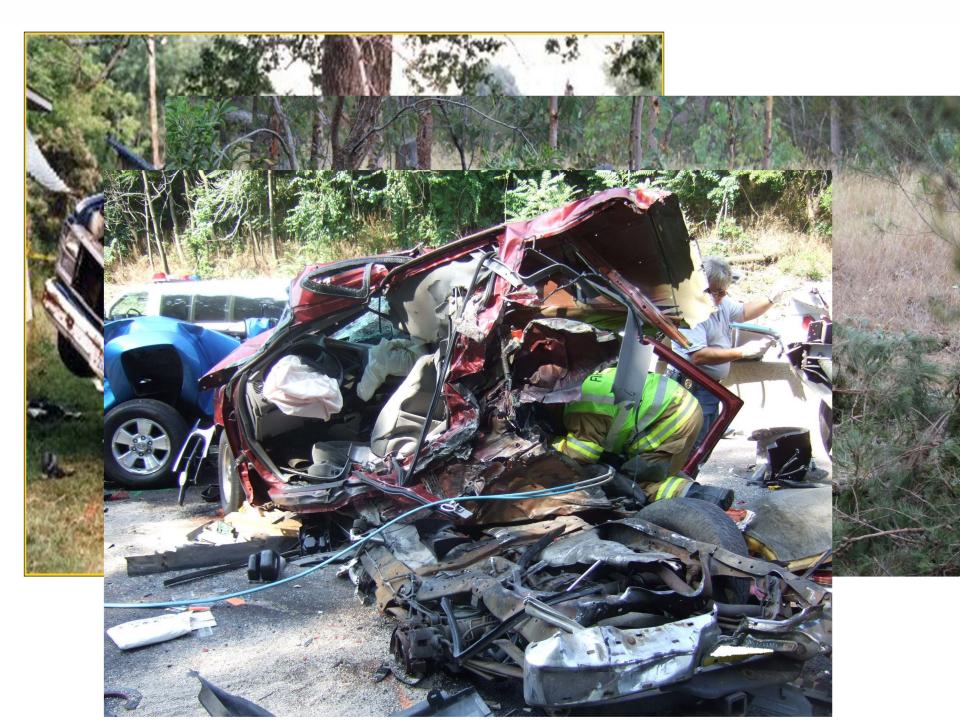
Promote highway-related strategies to assist in cutting fatalities by half by 2030 with a vision towards zero fatalities.



Roadway Departure Fatalities Percent

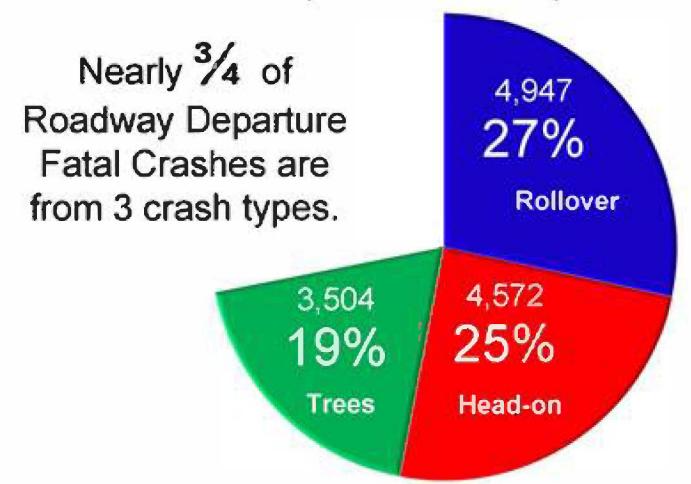
(2013 - 2015 Average)



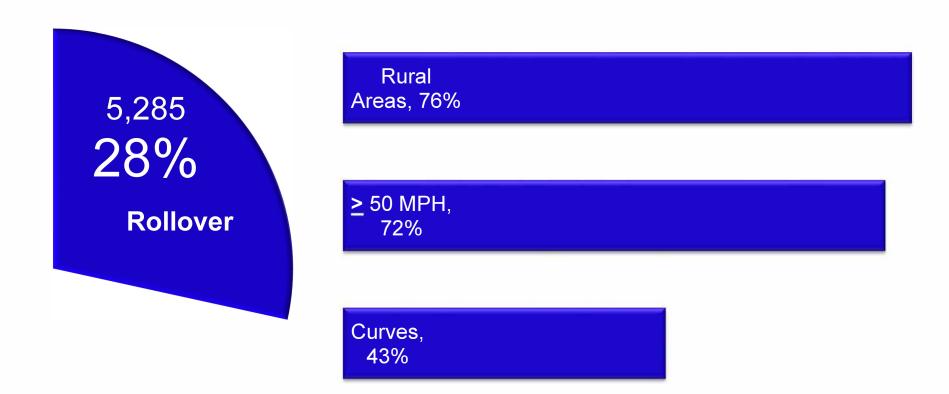


FHWA Roadway Departure Strategic Plan

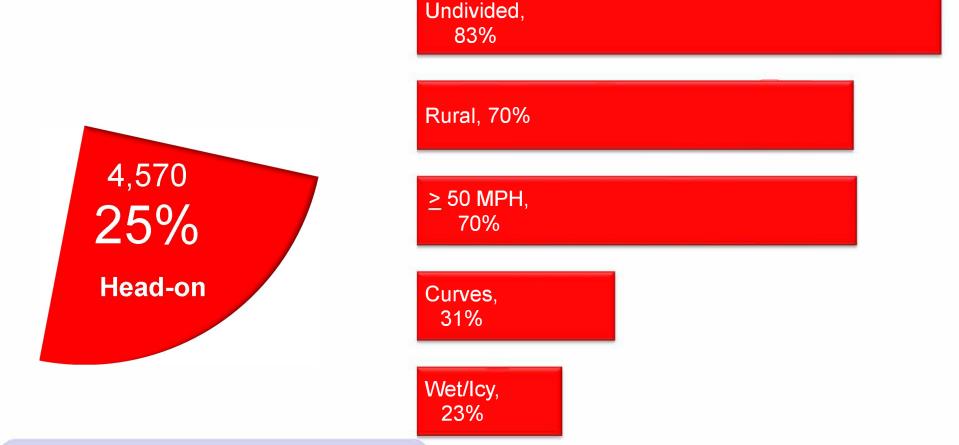
Roadway Departure Fatalities by Most Harmful Event (FARS 2012-2014)



Overturn Crashes

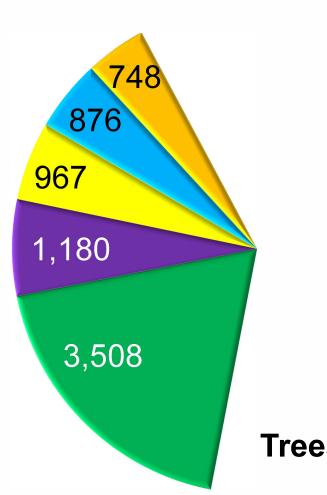


Opposite Direction Crashes



NCHRP Report 500, Volume 6 Reported that only 4.2% of head-ons involved a passing vehicle.

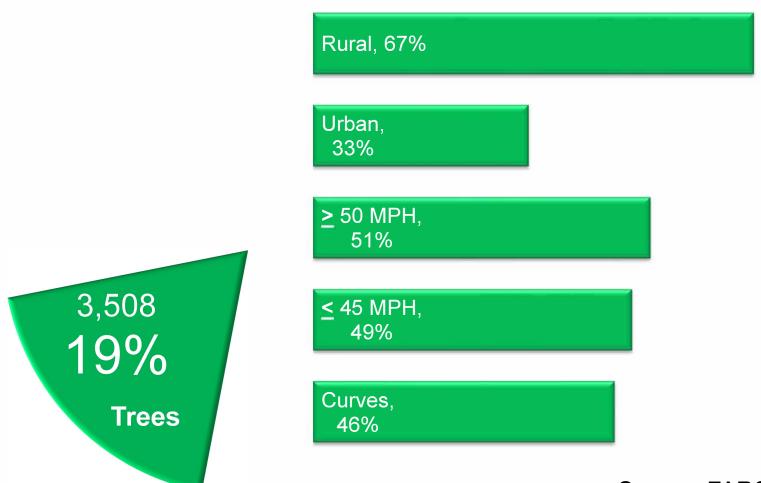
Fixed Object Fatal Crashes



- Trees, Shrubs
- Signs, Poles, Signals
- Other Fixed Object
- Barriers
- Roadside Topography

Trees are 48% of Fixed Object Fatalities

Tree Crashes

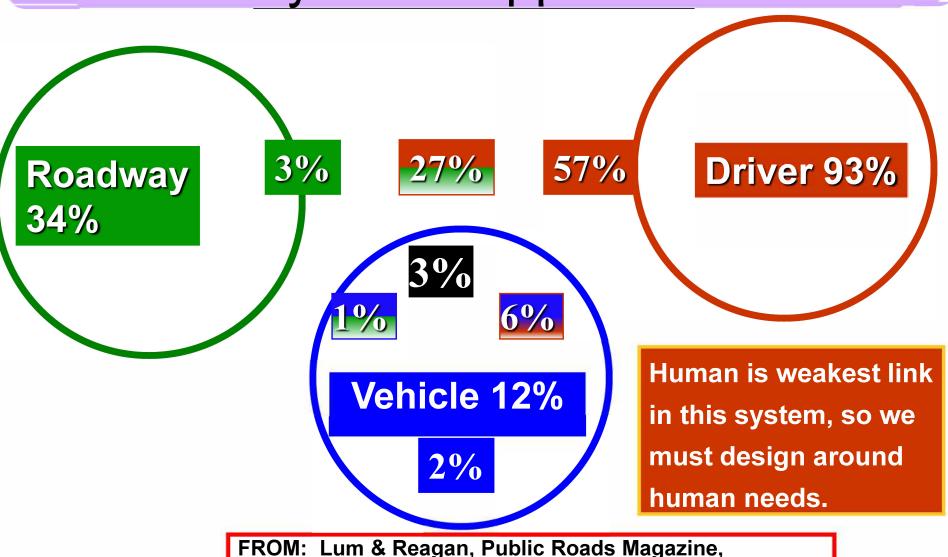


Trees are 48% of Fixed Object Fatalities

So, why do drivers leave the road?

- Roadway Condition
- Collision Avoidance
- Vehicle Component Failure
- Driver Error

Crashes Caused by Various Factors: Systems Approach



Winter 1995, "Interactive Highway Safety Design Module"

Questions and Discussion

