

# Roadway Departure Safety Basics

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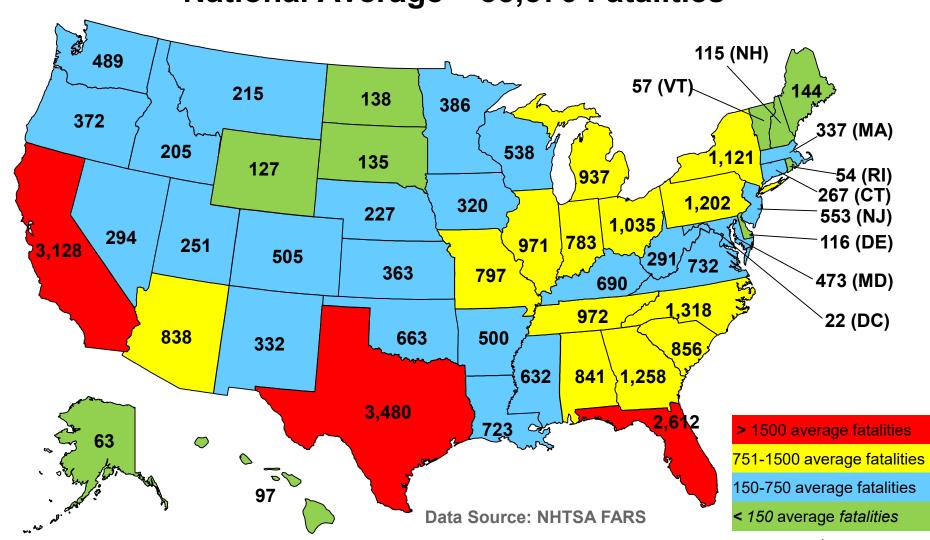




#### Fatalities in the USA

(2013 - 2015 Average)

#### National Average – 33,576 Fatalities

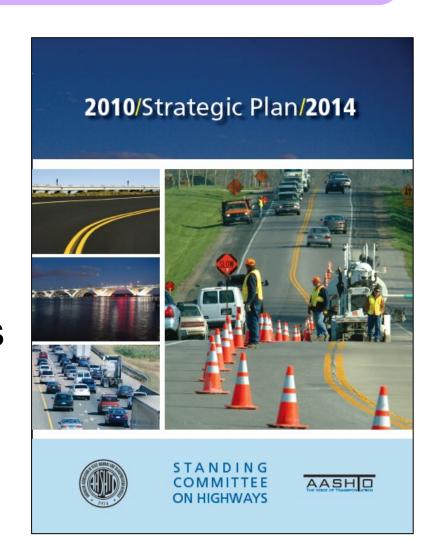




# **AASHTO Strategic Plan**

#### **Strategic Objective**

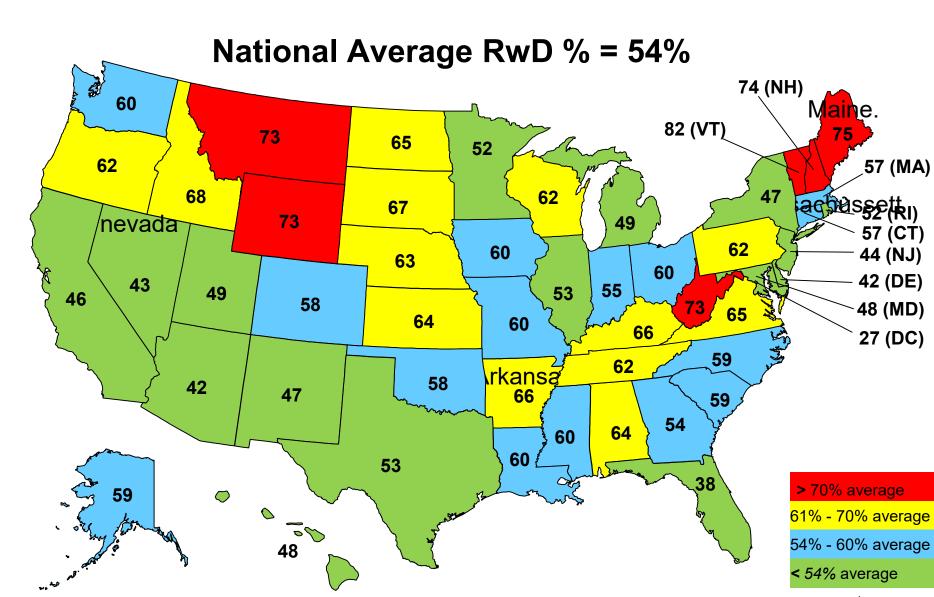
Promote highway-related strategies to assist in cutting fatalities by half by 2030 with a vision towards zero fatalities.





### Roadway Departure Fatalities Percent

(2013 - 2015 Average)

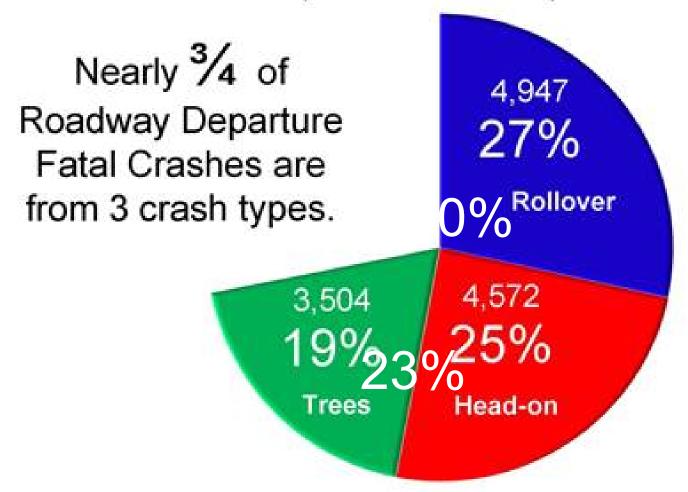






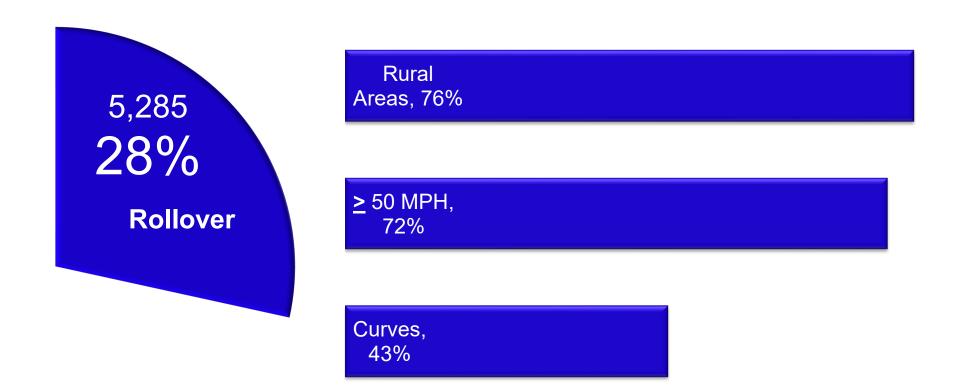
# FHWA Roadway Departure Strategic Plan

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





#### **Overturn Crashes**





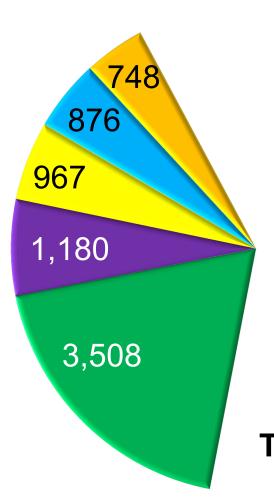
#### **Opposite Direction Crashes**



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



# Fixed Object Fatal Crashes

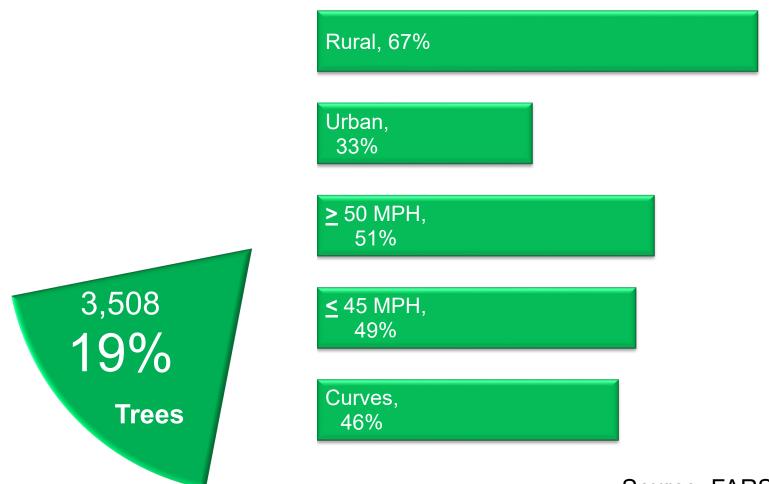


- Trees, Shrubs
- Signs, Poles, Signals
- Other Fixed Object
- Barriers
- Roadside Topography

**Trees are 48% of Fixed Object Fatalities** 



#### Tree Crashes

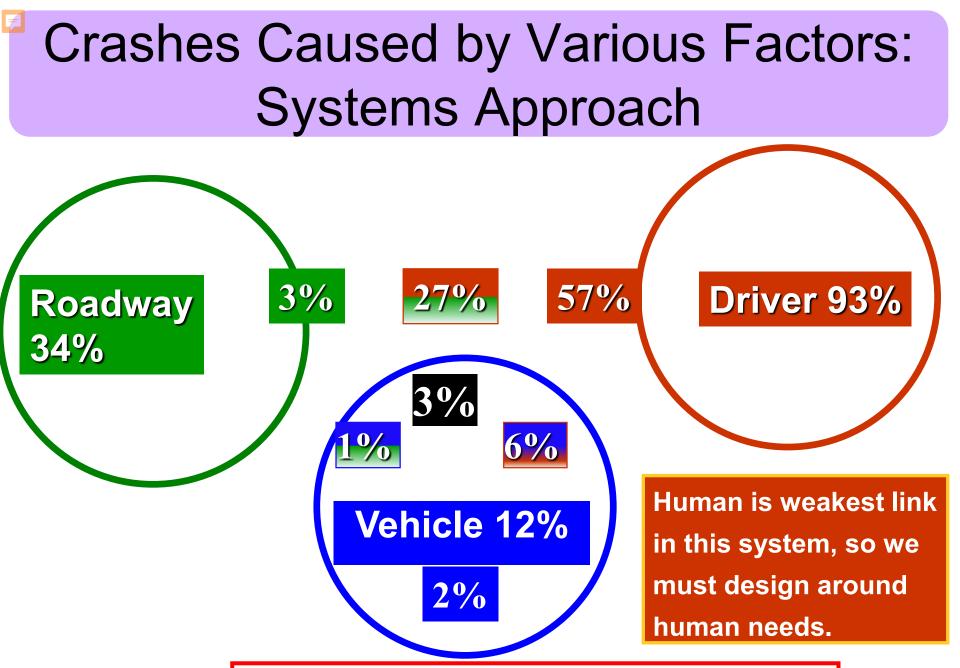


**Trees are 48% of Fixed Object Fatalities** 



# So, why do drivers leave the road?

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



FROM: Lum & Reagan, Public Roads Magazine,
Winter 1995, "Interactive Highway Safety Design Module"