

Pedestrian Safety in Arizona: Crash Data and Beyond



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Arizona Department of Transportation

Pedestrian Safety Forum

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AZ Stats-at-a-Glance

State – 30,000 miles

Local – 125,000 miles

Crash Stats:

2018* Fatalities **1012**

40% SHS – 60% Local

Ped fatalities **246**

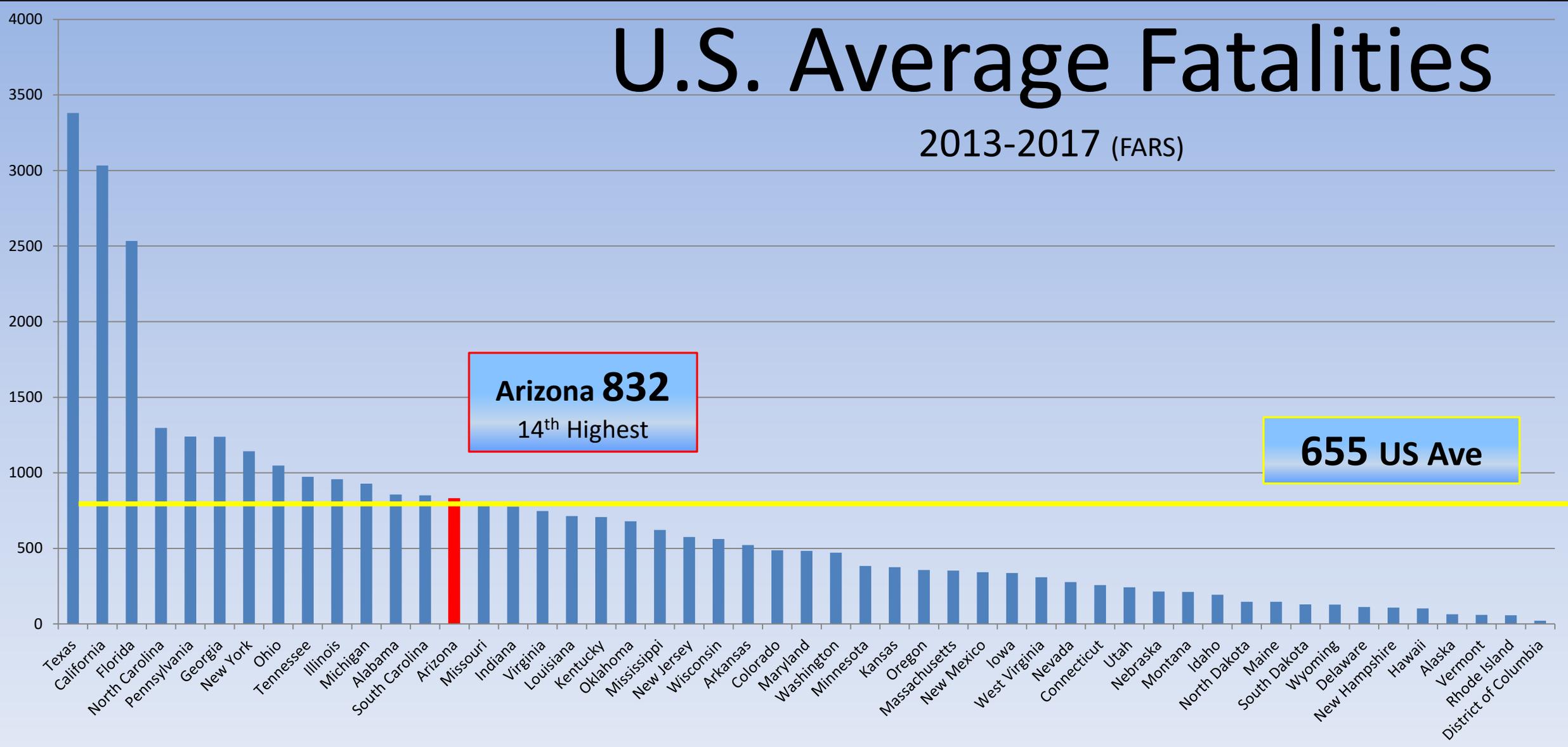
17% SHS – 83% Local

*2018 Arizona Crash Facts



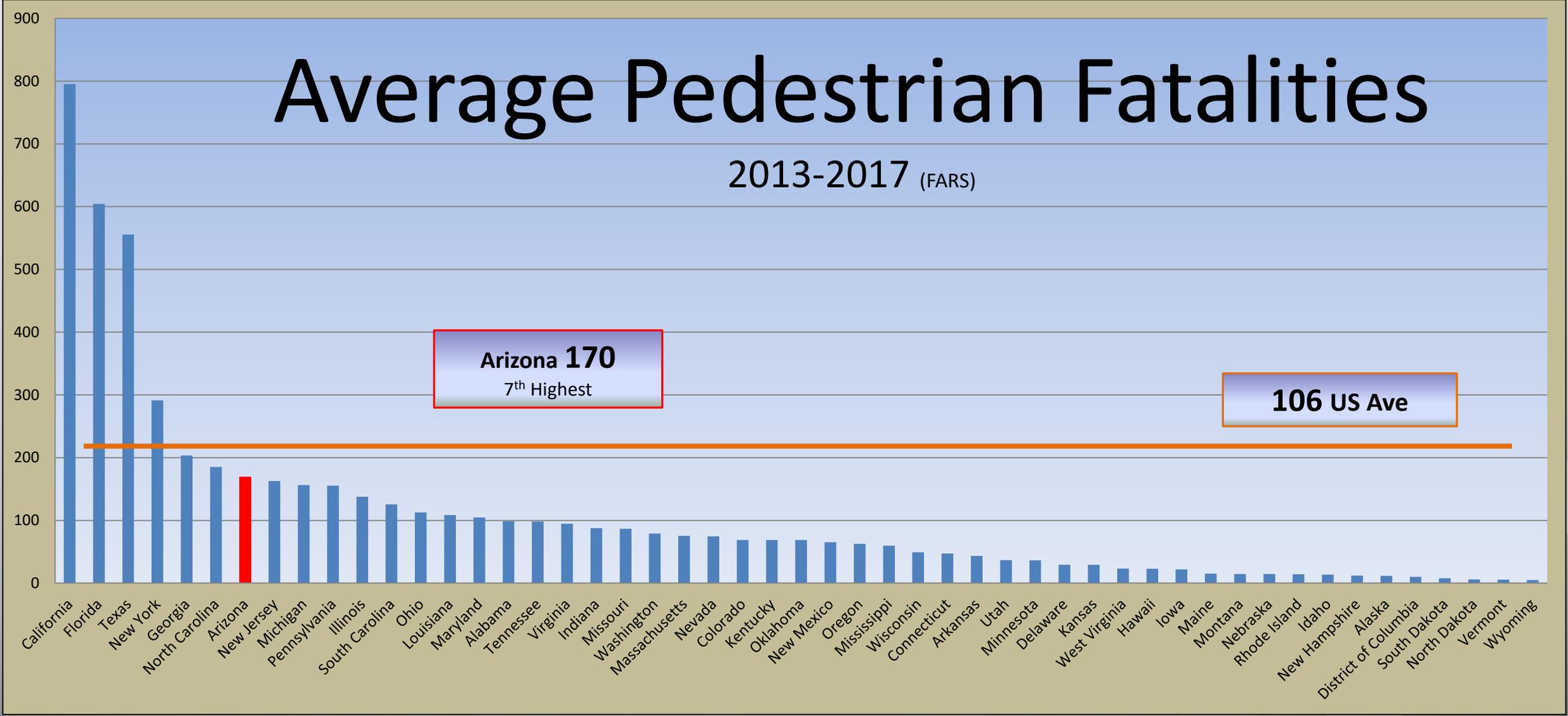
U.S. Average Fatalities

2013-2017 (FARS)



Average Pedestrian Fatalities

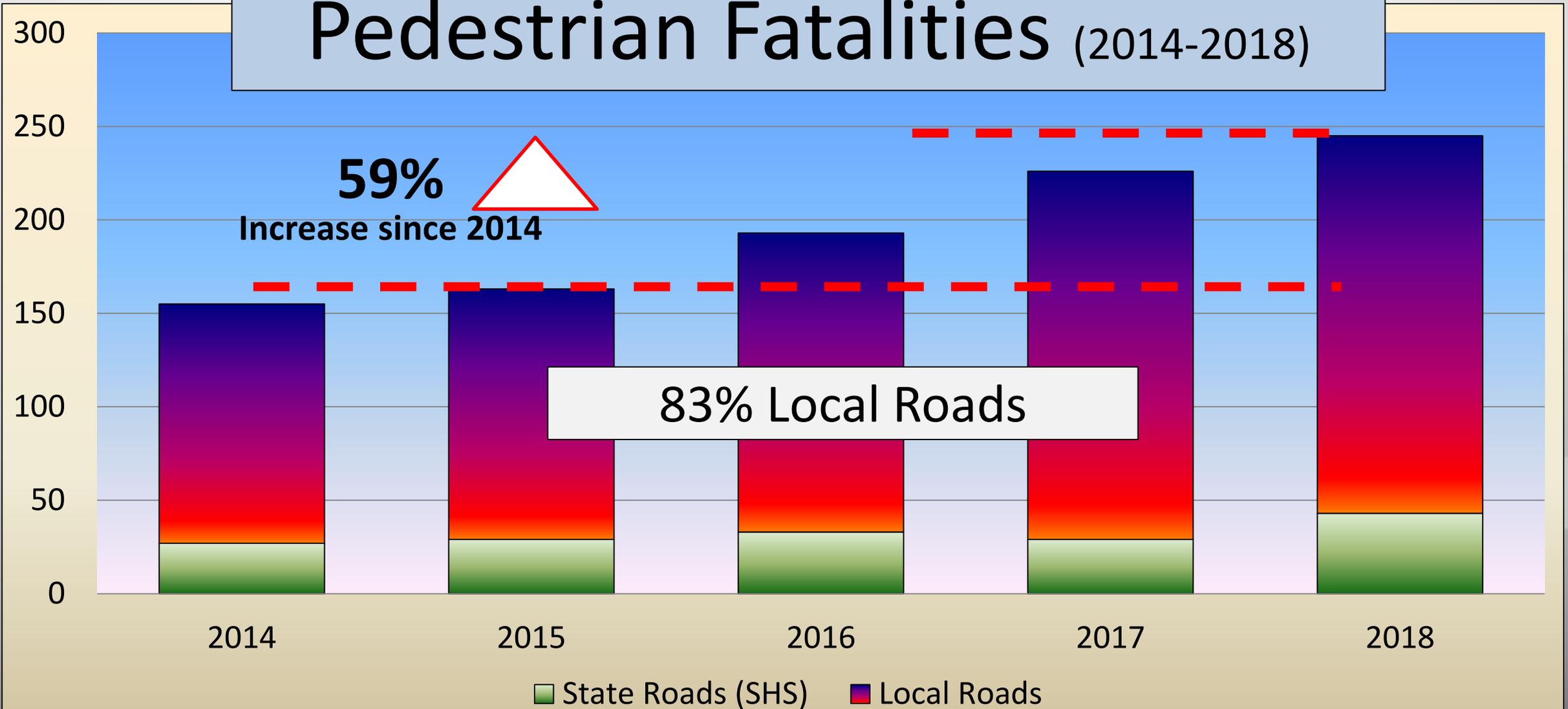
2013-2017 (FARS)



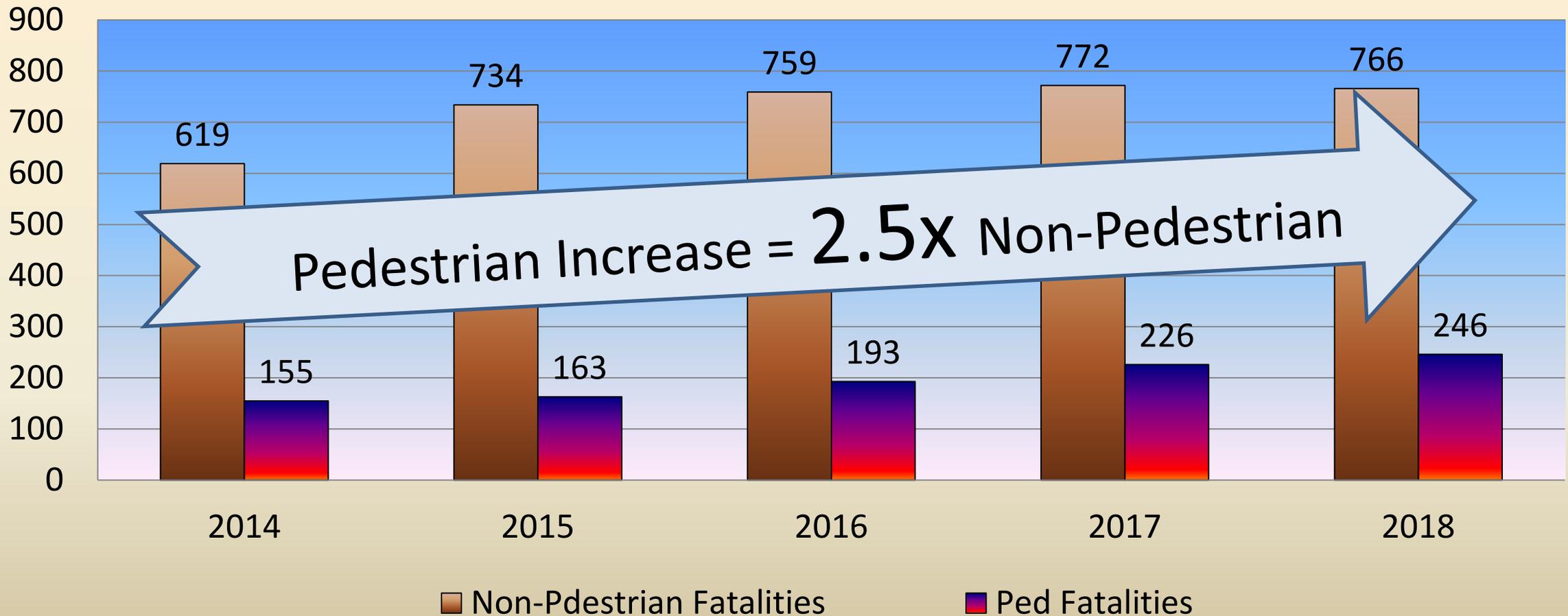
Arizona 170
7th Highest

106 US Ave

Pedestrian Fatalities (2014-2018)



Pedestrian Fatal Trends (2014-2018)





Data Problems

- Historically heavily behavior based causation
 - No exposure data
- Majority of crashes, injuries and deaths on local system
 - Random and widely dispersed (even locally)
 - Crash types fundamentally differ:
 - Local: **Crossing (perpendicular) crashes**
 - State: **Parallel crashes**

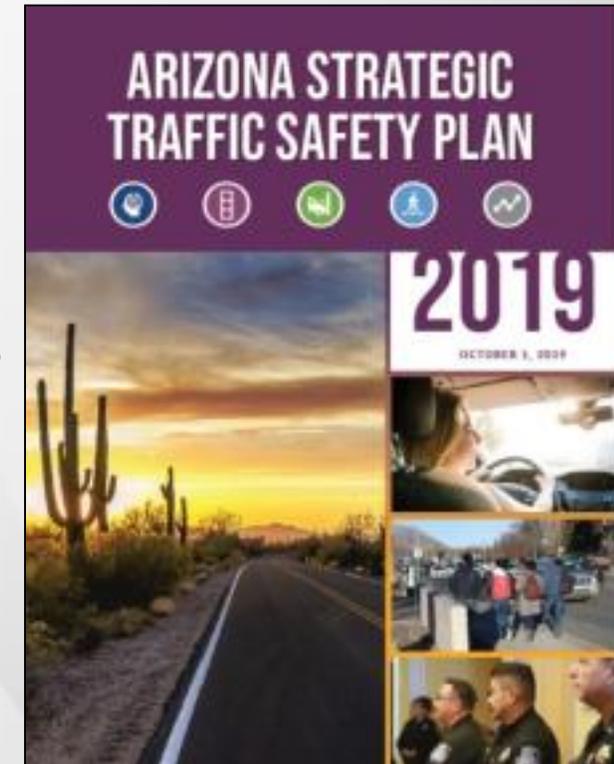
How Do We Change This? Strategic Traffic Safety Plan (STSP)

Comprehensive statewide plan of safety priorities for reducing fatalities and serious injuries on all public roads using **four E's of Safety: *Engineering, Enforcement, Education* and *Emergency Services*.**

Vision:

Toward Zero Deaths by Reducing Crashes for a Safer Arizona

Goal: Reduce Traffic Fatalities on Arizona's Roadways



2019 STSP Emphasis Areas:



INTERSECTION



**HIGHWAY SAFETY
(BEHAVIOR RELATED)**



LANE DEPARTURE



PEDESTRIAN



SAFETY-RELATED DATA

ARIZONA STRATEGIC TRAFFIC SAFETY PLAN



2019

OCTOBER 1, 2019





Pedestrian Emphasis Area

Purpose Statement:

Create a safer Arizona for all pedestrians through targeted engineering, enforcement, emergency response, and education (4-E's). Emphasize accountability for all road users including motorists and pedestrians.

Emphasis Area Goal:

Focus on the use of Arizona STEP (Safe Transportation for Every Pedestrian) Guide, statewide systemic safety improvement plan, FHWA proven safety countermeasures, targeted enforcement campaigns

Engineering Strategies

1. Identify and evaluate high pedestrian crash locations
2. Develop statewide systemic pedestrian safety improvements program
3. Promote statewide processes, practices, and procedures to incorporate pedestrian safety into roadway improvement funding prioritization processes
4. Promote pedestrian safety consideration during development review processes
5. Promote establishment of appropriate speed limits that consider the pedestrian environment and safety
6. Collect data on pedestrian volumes to help assess safety risk



Enforcement Strategies

Collaborate with state, local and tribal law enforcement agencies to:

1. Conduct targeted enforcement in high-pedestrian-activity and high-crash areas
2. Establish a Pedestrian Safety Task Force to conduct high-visibility pedestrian safety enforcement
3. Encourage consistent collection of detailed pedestrian crash reports



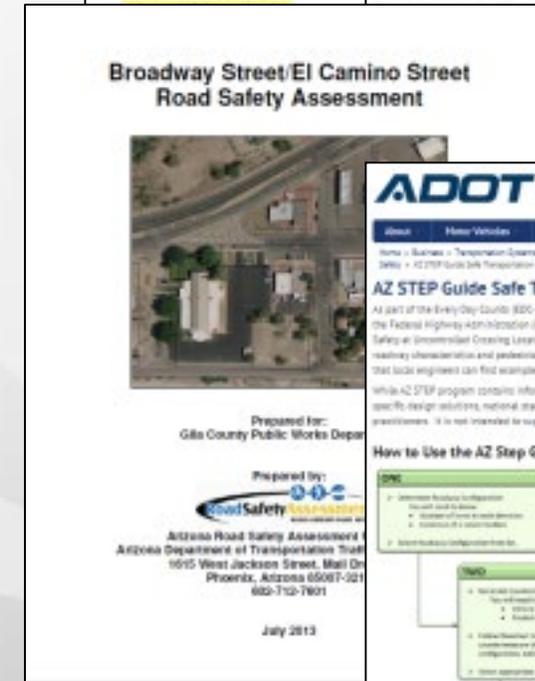
Education Strategies

1. Establish and promote a local and statewide “Pedestrian Safety Month”
2. Promote pedestrian safety education
3. Promote restoration of Safe Routes to School and similar school based pedestrian safety education programs
4. Provide technical guidance, assistance, and training to small agencies, tribal, and local governments experiencing pedestrian challenges



Pedestrian Safety Tools

- Highway Safety Improvement Program Funding
- Arizona Pedestrian Safety Action Plan
- Road Safety Assessment Program
- AZ STEP Web Tool



Future Programs

- Statewide low-cost countermeasure installation program
- AZ STEP Web Tool Field Checklist
- Enhanced road safety assessment/field review
- Safety Circuit Rider – Technical Assistance

Thank You!

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Transportation Systems Management & Operations

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