

Missoula Community Transportation Safety Plan

presented to

**Missoula Transportation Safety
Advisory Committee – Meeting 1**

presented by

**Cambridge Systematics, Inc.
Audrey Wennink**

February 21, 2013



Project Team

- **Montana Department of Transportation**
 - » Carol Strizich
 - » Pam Langve-Davis
- **Consultant Team from Cambridge Systematics, Inc.**
 - » Audrey Wennink – Senior Analyst
 - » Sam Lawton – Project Manager



Agenda

- **Welcome and Introductions**
- **Community Transportation Safety Planning (CTSP) Process Overview**
- **Transportation Safety Advisory Committee (TSAC) Role & Responsibilities**
- **TSAC Membership Discussion**
- **Missoula Crash Data Overview**
- **Community Safety Issues Discussion**
- **CTSP Vision**
- **CTSP Goal**
- **Next Steps**

MT Comprehensive Highway Safety Plan

- Developed through coordinated, comprehensive, data-driven process
- Designed to reduce fatal and injury crashes on MT roadways
- 12 Emphasis Areas including urban area crashes

Montana Comprehensive Highway Safety Plan

Amended 2010



State of Montana Department of Transportation



in cooperation with:

Federal Highway Administration
National Highway Traffic Safety Administration
Blackfeet Tribe
Confederated Salish and Kootenai Tribes
Crow Tribe
Chippewa Cree Tribe
Little Shell Tribe
Northern Cheyenne Tribe
Fort Peck Tribes
Montana Highway Patrol
Montana Motor Vehicle Division
Montana Office of Public Instruction
Montana Department of Justice
Montana Department of Revenue
Office of the Court Administrator
Federal Motor Carrier Administration
Montana Metropolitan Planning Organizations
Montana Department of Public Health and Human Services

prepared by:

Cambridge Systematics, Inc.



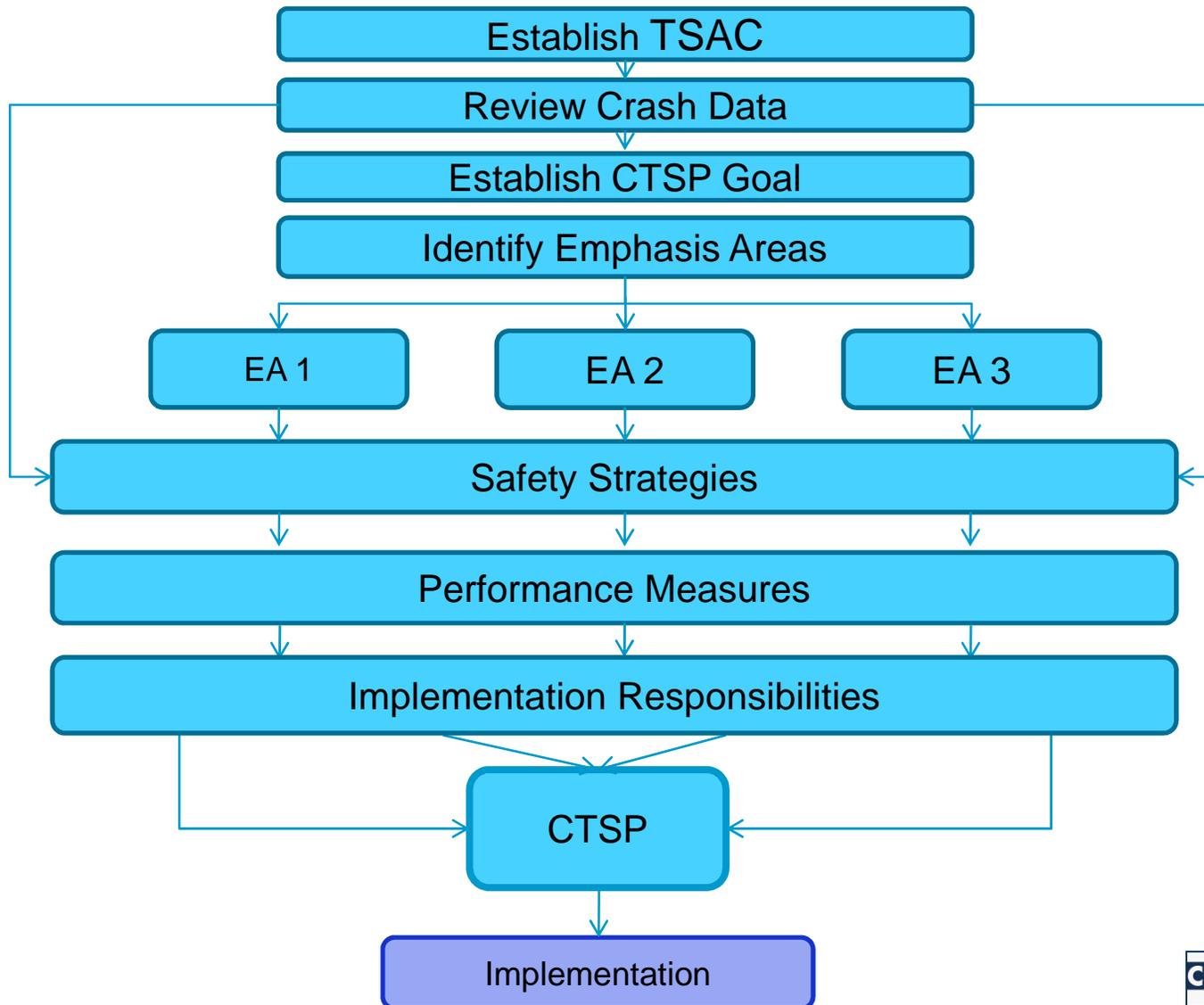
Community Transportation Safety Plans

- **Target reduction of fatal and injury crashes based on local crash data and analysis**
- **Devise safety strategies that can be implemented at the local level**
- **Customize strategies based on local priorities, organizational structures, programs, leadership**

Purpose of Transportation Safety Plan

The Missoula community seeks to develop a multimodal Community Transportation Safety Plan to document the area's transportation safety issues and identify a comprehensive set of strategies to reduce the number and severity of traffic crashes.

Plan Development Process



Work Plan and Timeline (proposed)

Kickoff Meeting	February 21, 2013
Select Emphasis Areas	March 21, 2013
Identify Current Strategies/Plan Safety Summit	April 18, 2013
Safety Summit	May 16, 2013
Draft Plan	June 20, 2013
Final Plan	July 18, 2013



Transportation Safety Advisory Committee (TSAC)

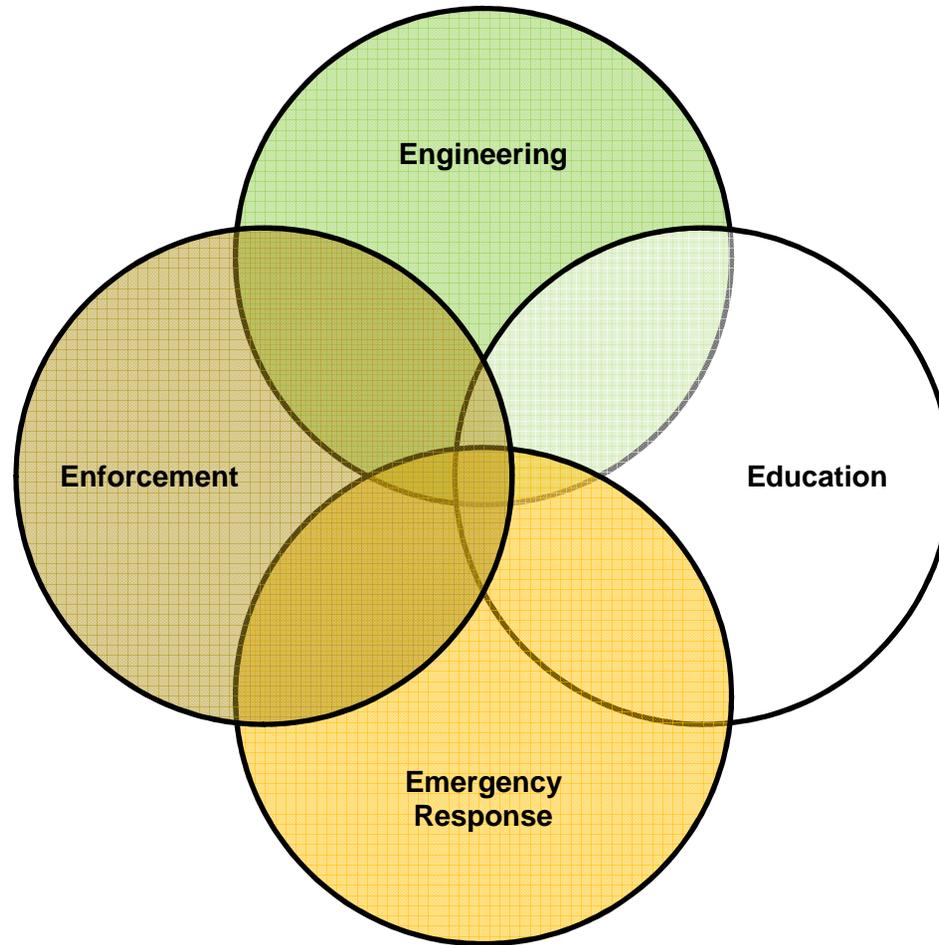
TSAC Draft Mission Statement

To provide guidance on the development of the Community Transportation Safety Plan and participate in and provide direction on plan implementation.

TSAC Roles and Responsibilities

- **Attend committee meetings and the Transportation Safety Summit**
- **Review available data; identify data needs**
- **Identify vision and goal**
- **Determine priority safety emphasis areas**
- **Review and finalize strategies, action steps, and performance measures**
- **Identify lead agencies, organizations, and individuals to facilitate implementation**
- **Approve and submit final plan for formal adoption**
- **Support implementation of the Community Transportation Safety Plan**

“ The 4 E’s of Safety”



Proposed TSAC Membership

- Missoula Planning Department
- City of Missoula Bicycle/Pedestrian Office
- Montana Rail Link
- Missoula County DUI Task Force
- Missoula County Public Schools
- St. Patrick Hospital
- Missoula County Office of Emergency Management
- Missoula Emergency Services
- Missoula Police Department
- Missoula County Sherriff's Office
- Montana Highway Patrol
- Missoula County Public Works
- Missoula City Public Works
- Missoula Fire Department
- Missoula Rural Fire Department
- Montana Dept. of Transp.
- Mountain Line
- Missoula International Airport

Proposed TSAC Membership (continued)

- **University of Montana
Office of Public Safety**
- **City of Missoula
Development Services**
- **Montana Department of
Public Health and Human
Services**
- **Missoula Aging Services**
- **ASUM Office of
Transportation, UC**
- **Others?**

Crash Data

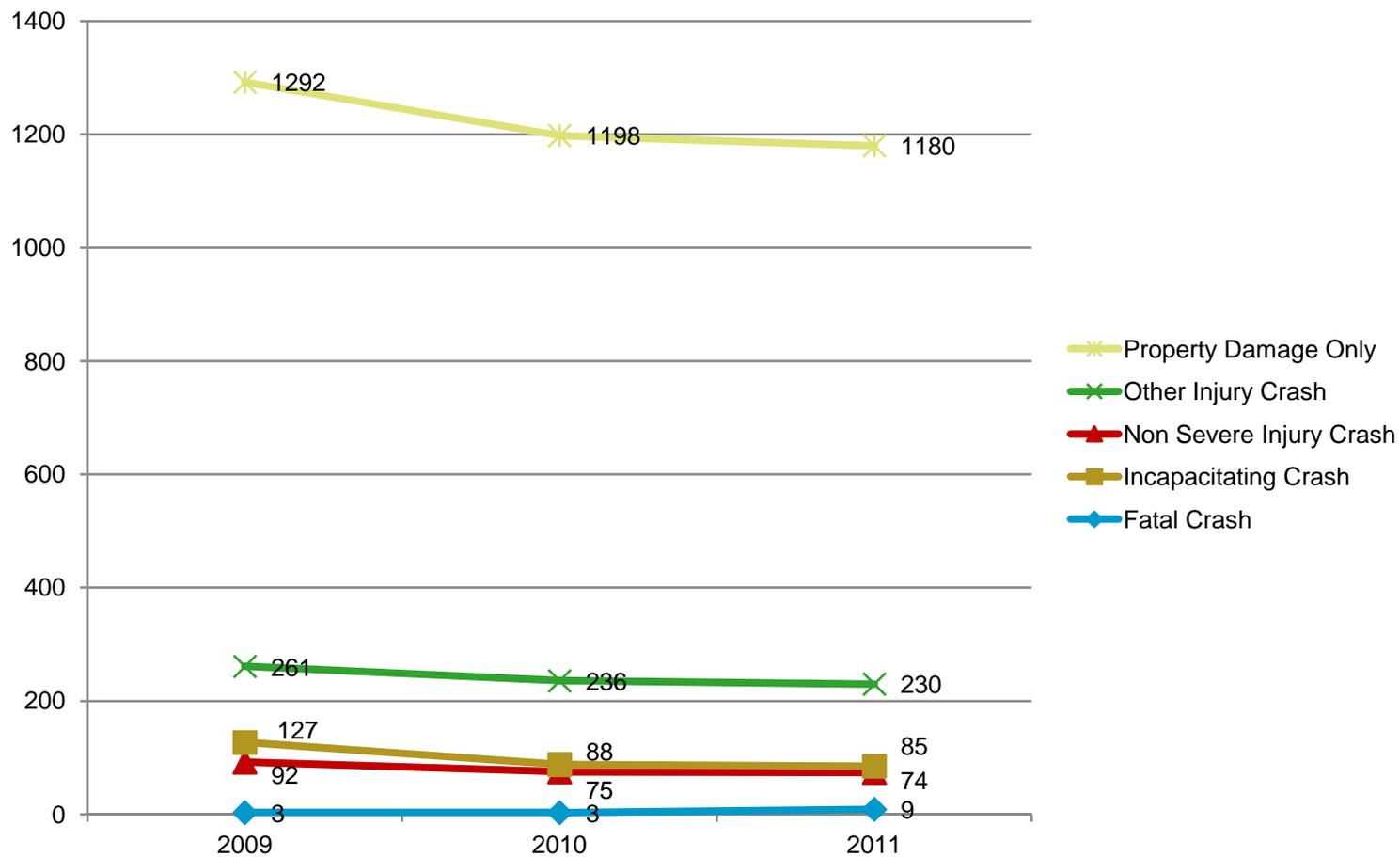


Crash Data Analysis Process

- Behavior, e.g.
 - » Distracted
 - » Speeding
 - » Impaired
 - » Safety Belt Use
- Infrastructure/Crash Types, e.g.
 - » Intersections
 - » Road departure
- Demographics, e.g.
 - » Under 25
 - » 65 and older



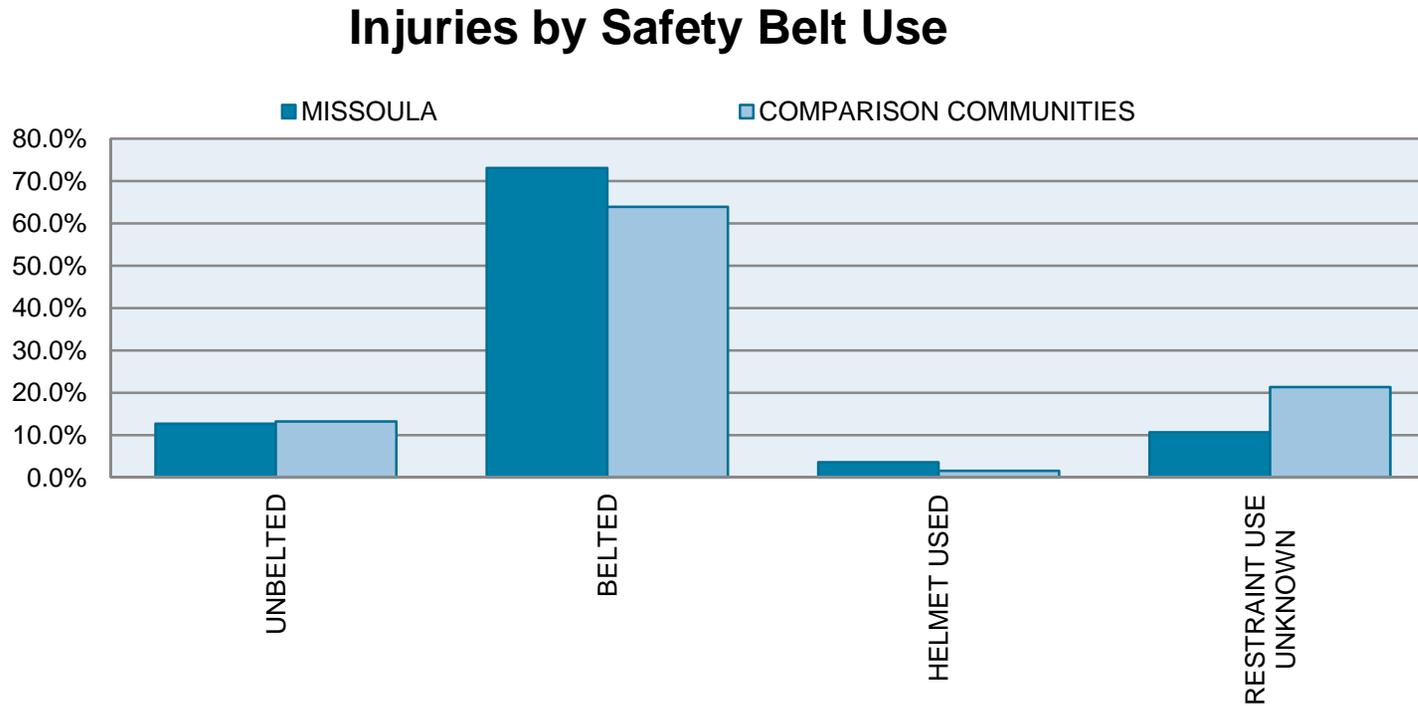
Missoula Crash Severity (2009-2011)



Source: MDT-Safety Management System, 2013

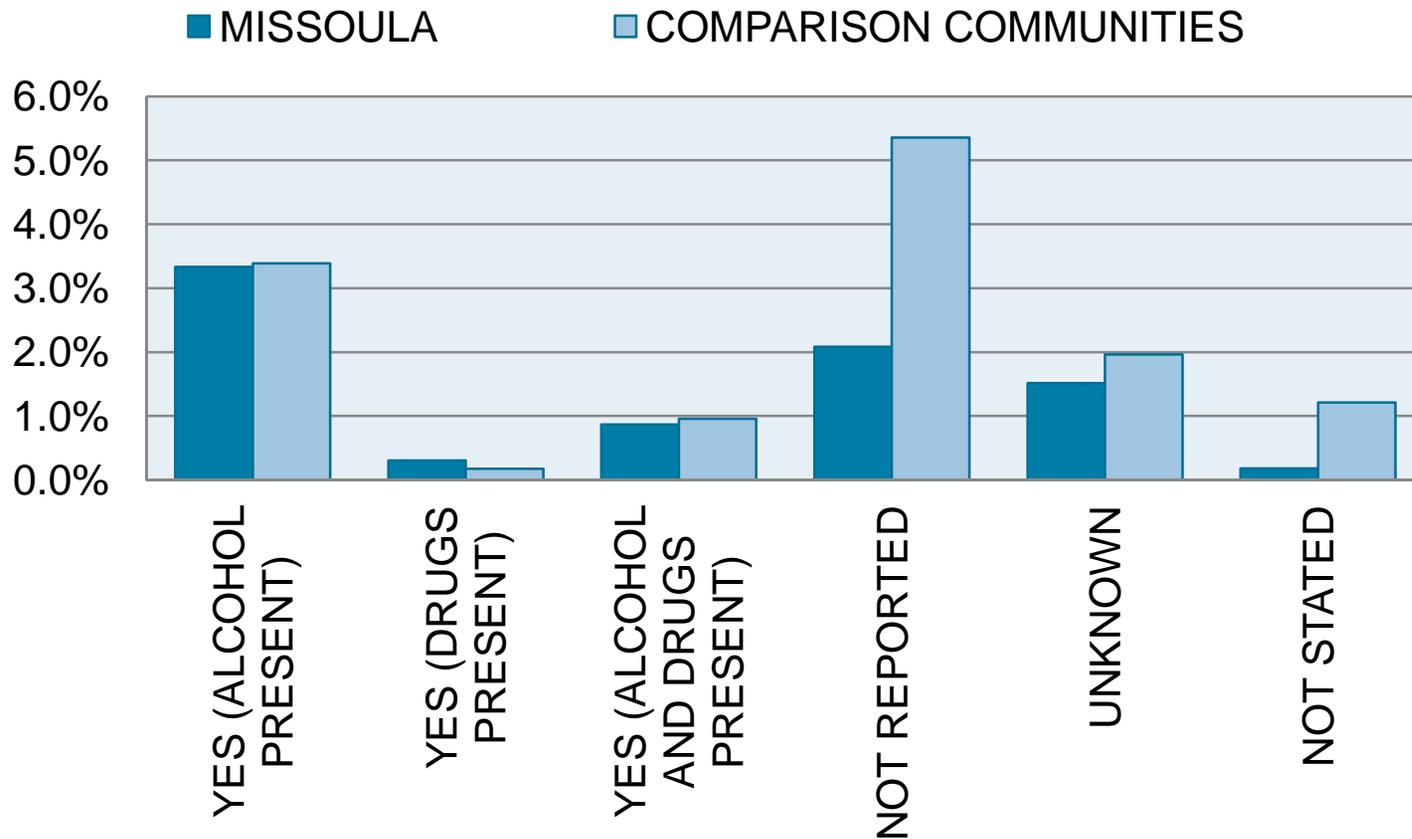
Behavior

Missoula Injuries by Safety Belt Use (2007-2011)



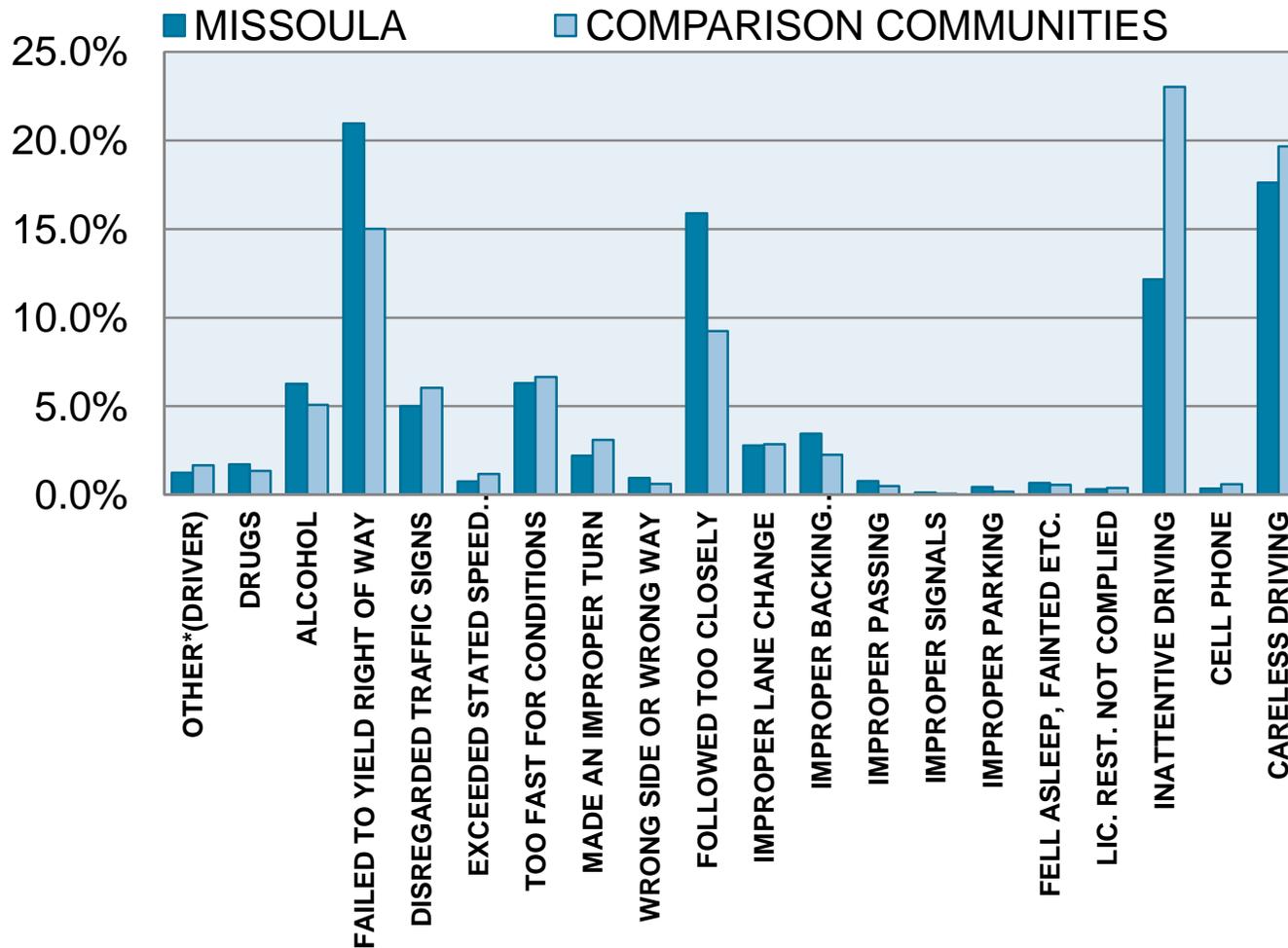
Source: MDT-Safety Management System, 2013

Missoula Drivers by Impairment – All Crashes (2007-2011)



Source: MDT-Safety Management System, 2012

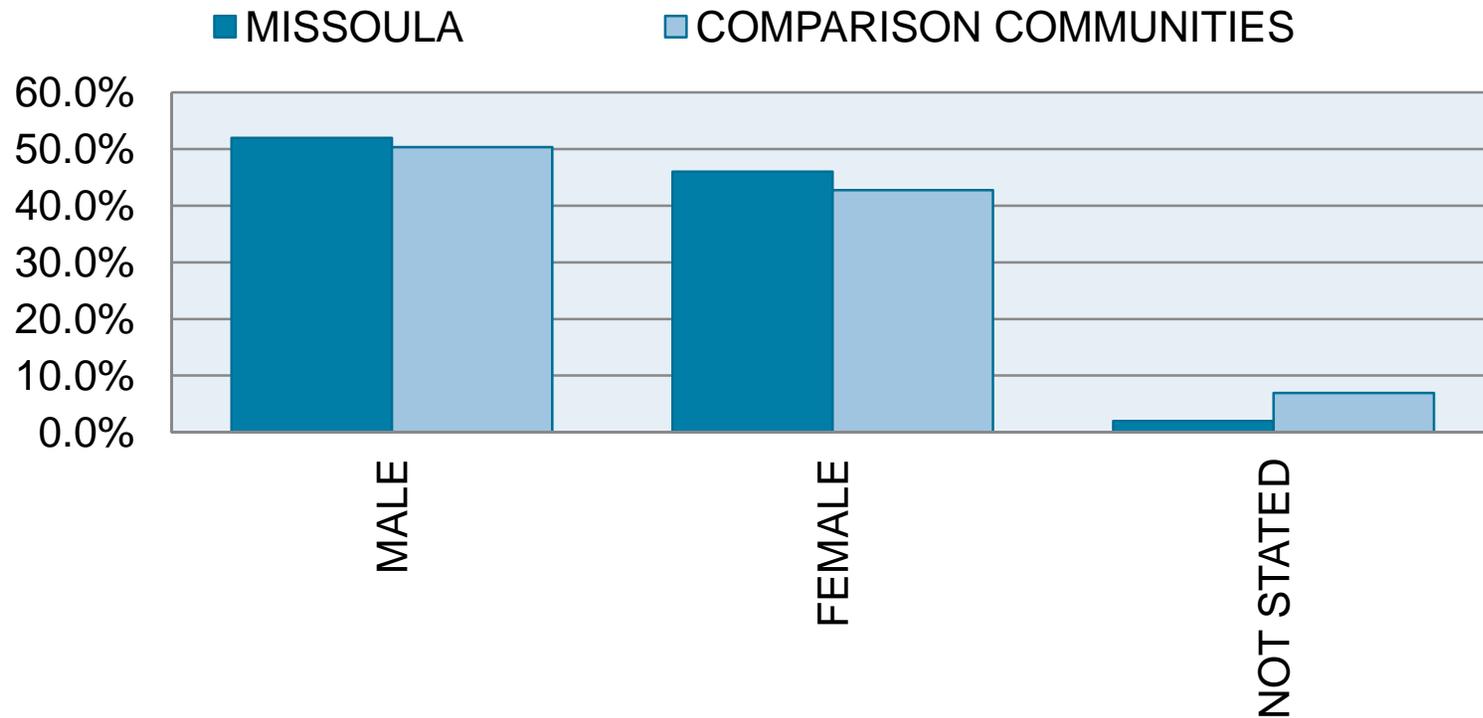
Missoula Driver Contributing Circumstances All Crashes – (2007-2011)



Source: MDT-Safety Management System, 2012

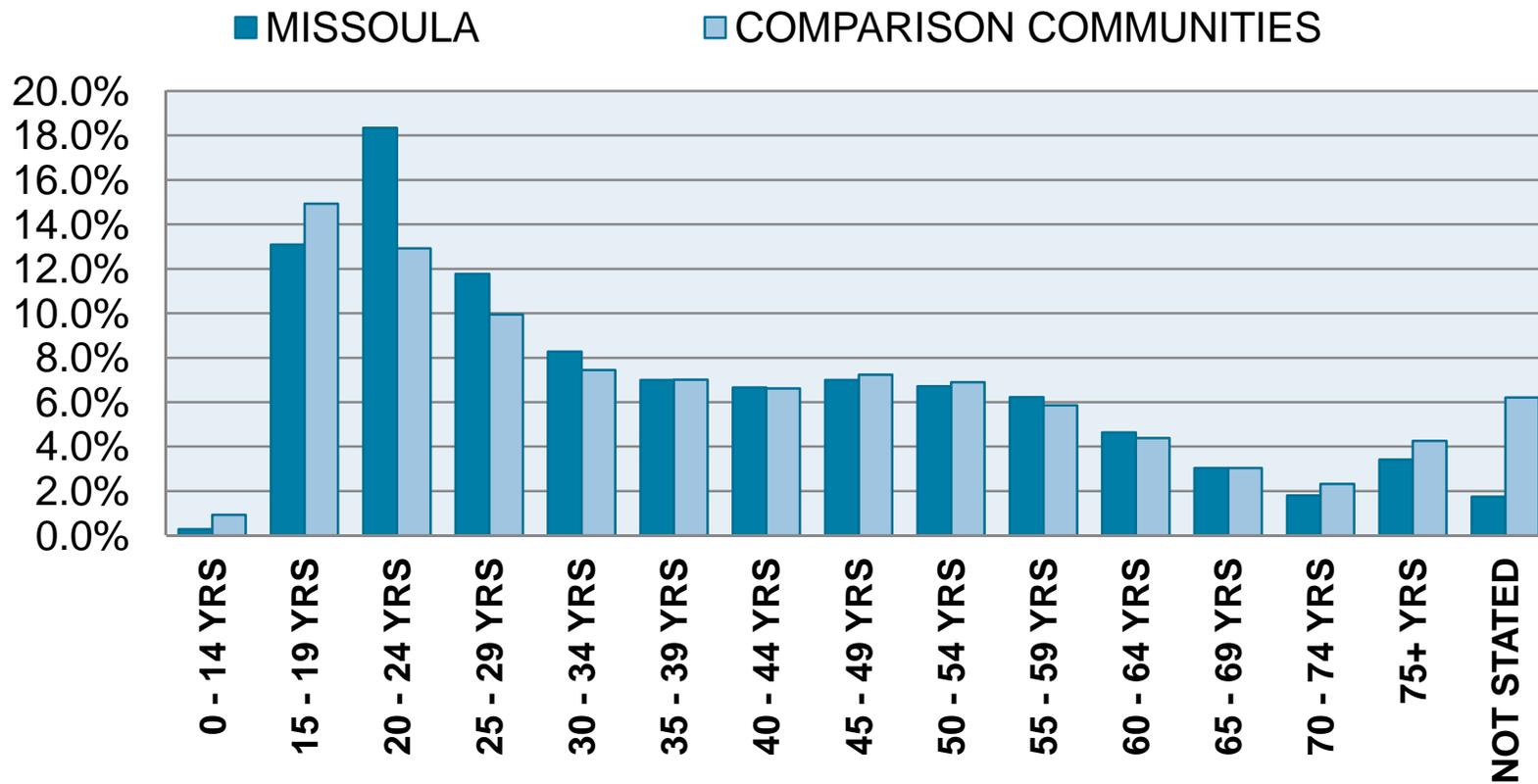
Demographics

Missoula Drivers by Gender – All Crashes (2007-2011)



Source: MDT-Safety Management System, 2013

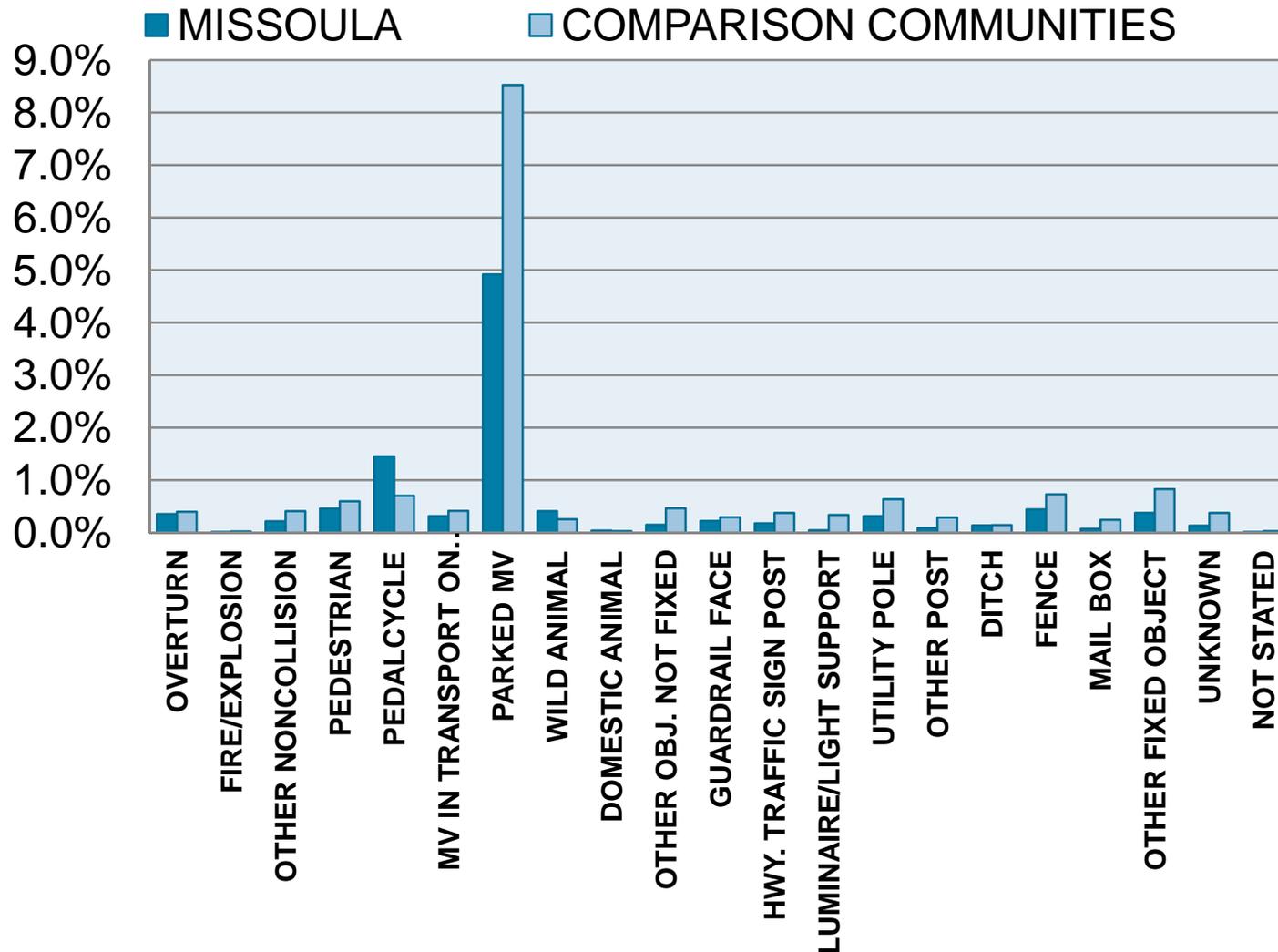
Missoula Drivers by Age - All Crashes (2007-2011)



Source: MDT-Safety Management System, 2013

Crash Type

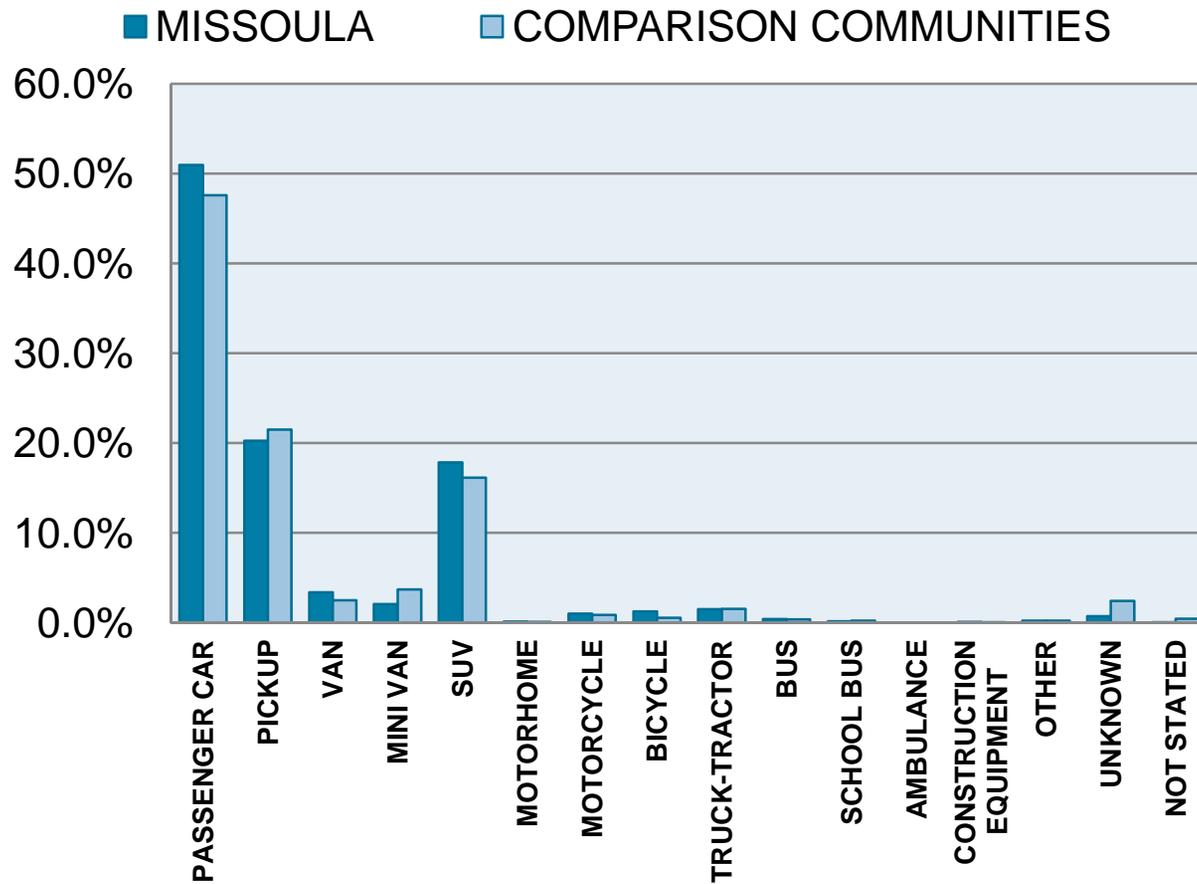
Missoula Vehicles in a Crash by First Harmful Event (2007-2011)



Source: MDT-Safety Management System, 2013

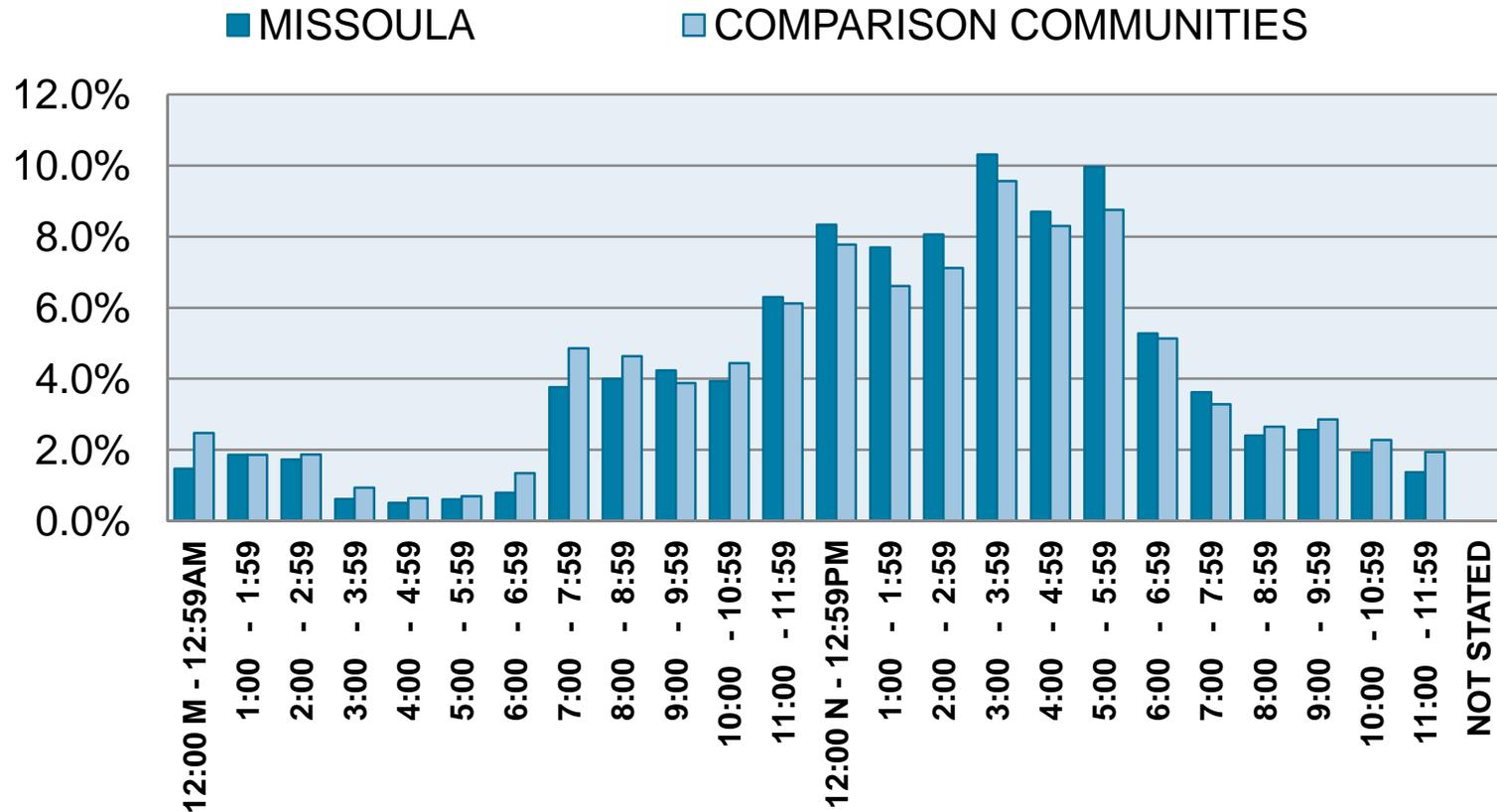
Other Factors

Missoula Vehicle Type – All Crashes (2007-2011)



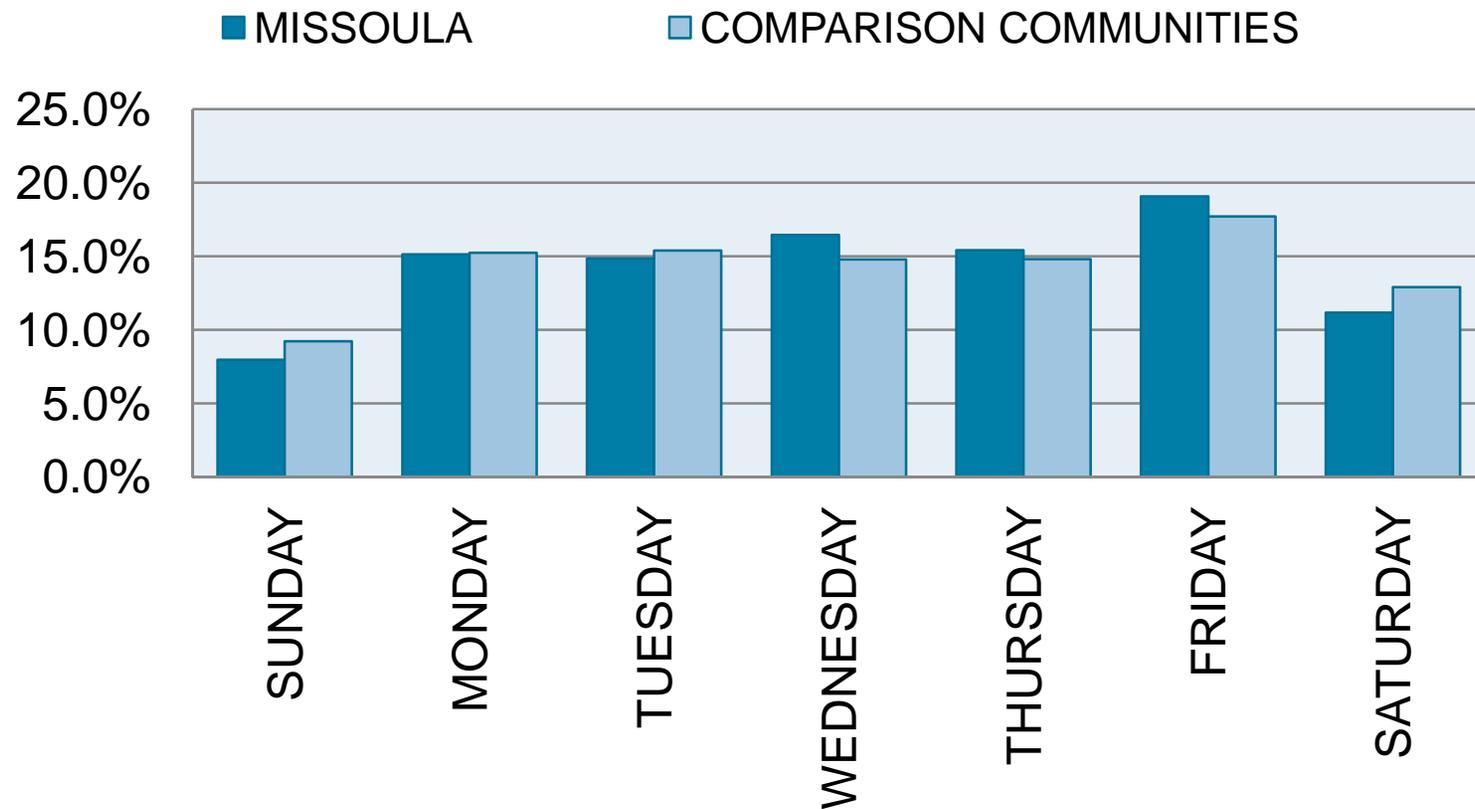
Source: MDT-Safety Management System, 2013

Missoula Crashes by Time of Day (2007-2011)



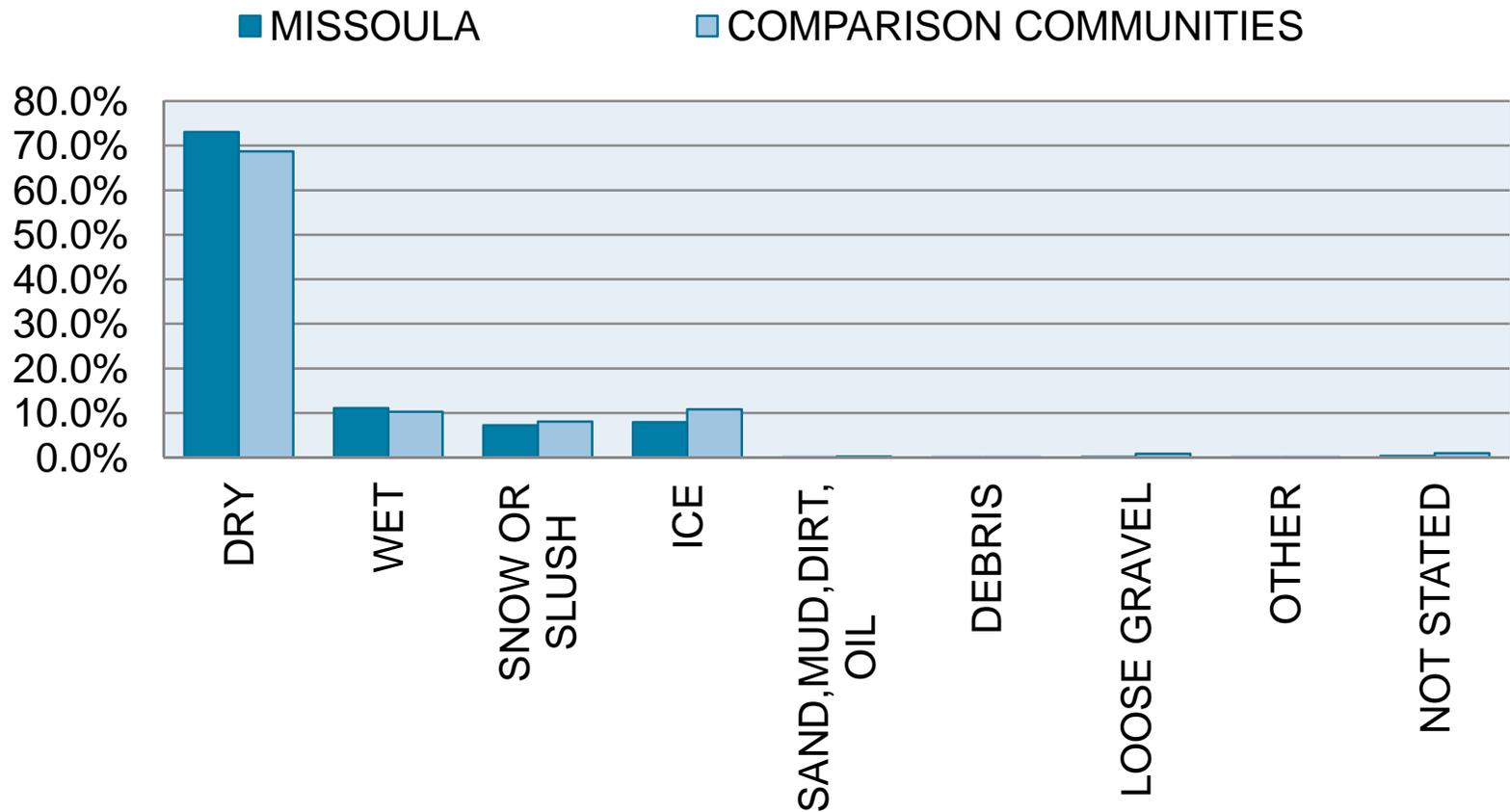
Source: MDT-Safety Management System, 2013

Missoula Crashes by Day of Week (2007-2011)



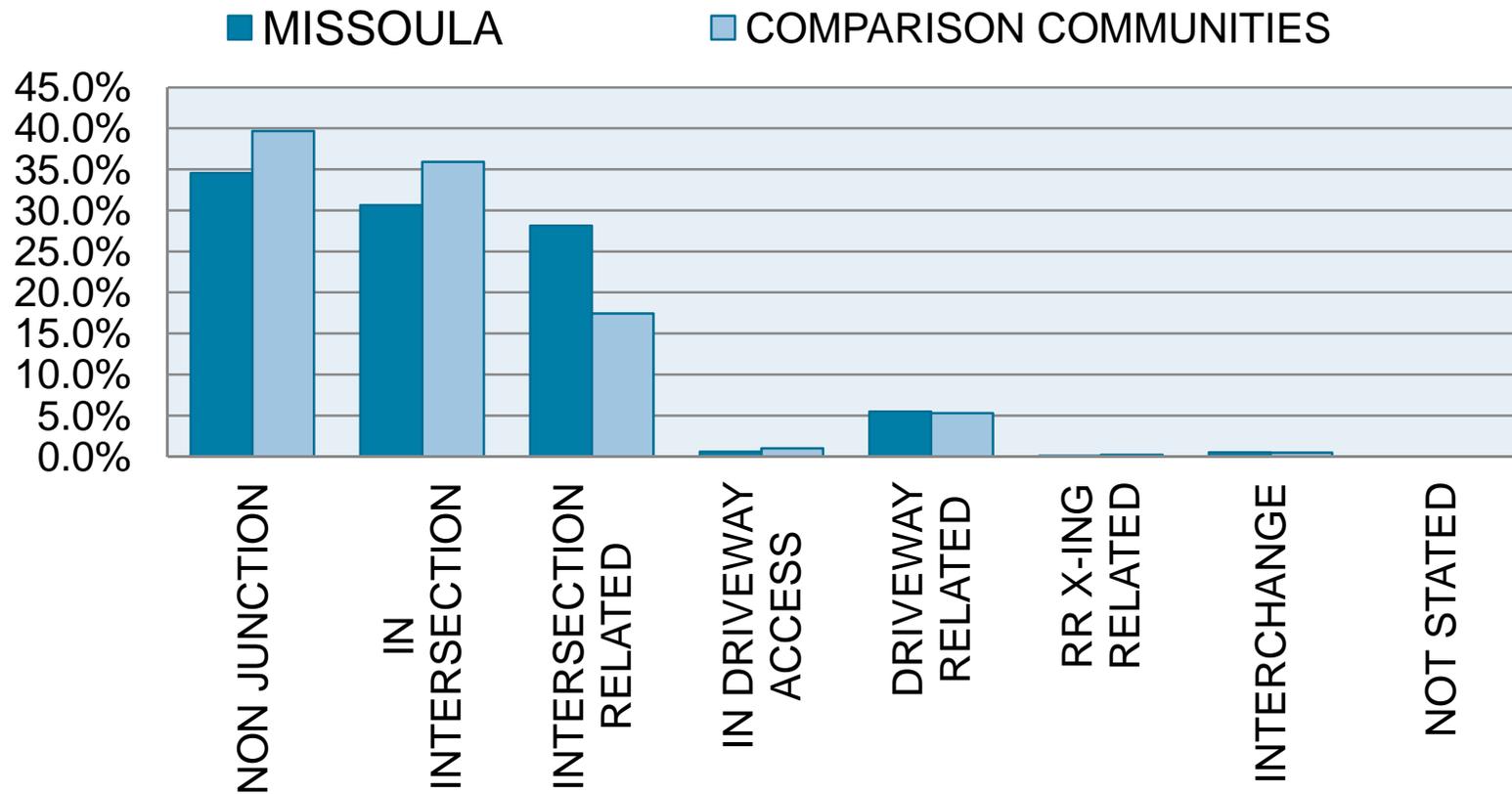
Source: MDT-Safety Management System, 2013

Missoula Crashes by Road Condition (2007-2011)



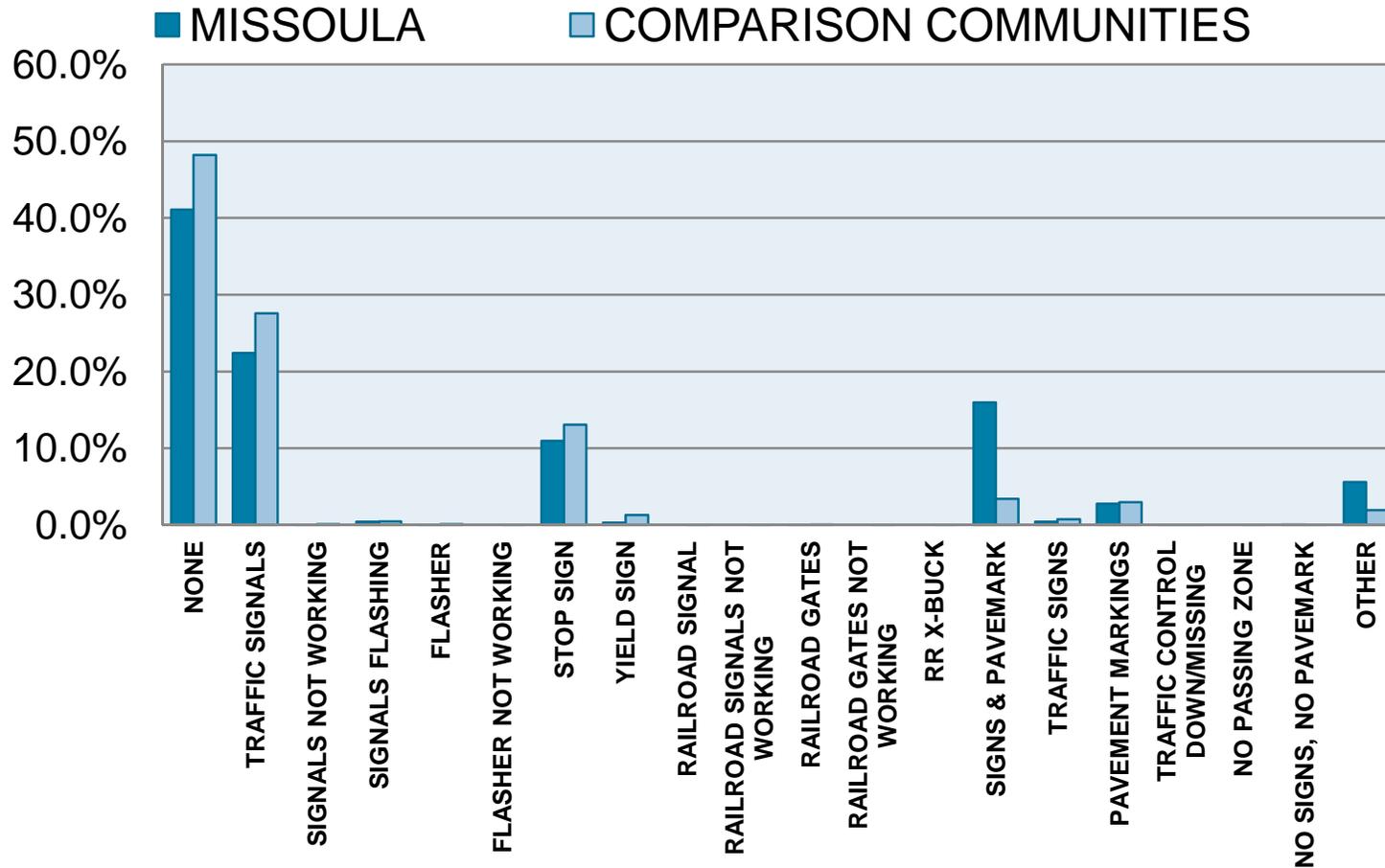
Source: MDT-Safety Management System, 2012

Missoula Crashes by Relationship to Junction (2007-2011)



Source: MDT-Safety Management System, 2012

Crashes by Traffic Control (2007-2011)



Initial Findings

- **Intersections**
- **Young drivers**
- **Inattentive/careless**

Safety Vision

Missoula Vision

- **Where does Missoula want to be in the future regarding transportation safety?**
- **Example Vision Statements**
 - » **All travelers will arrive safely at their destination**
 - » **Missoula will have the safest transportation system of any community in MT**
 - » **Missoula will establish a culture of safety on its roadways**
 - » **Vision Zero**

Missoula Safety Vision

- Target Zero

CTSP Goal

Missoula Annual Averages

Urban Area Annual Crashes (2007-2011)

Fatal Crashes	Incapacitating Injury Crashes	Non-Severe Injury Crashes	PDO Crashes	Total Crashes
8	120	396	1,369	1,893

Urban Area Annual Fatalities/Injuries (2007-2011)

Fatalities	Incapacitating Injuries	Non-Severe Injuries
8	143	519

Source: MDT-Safety Management System, 2012

Examples - Traffic Safety Goals

Butte

To reduce motor vehicle crashes by 20 percent by 2017, from an annual average of 671 crashes to an annual average of 537 crashes.

Shelby/Toole County

Reduce annual average severe crashes within Toole County by one third from 2010 to 2015, resulting in an average of no more than four severe injury crashes per year.

Bozeman

Reduce fatalities and injuries by 25% by 2018.

CTSP Goals - Sample Approaches

- **20 percent reduction in severe injuries (fatalities + incapacitating injuries)**
- **Reduction in a specific number of severe injuries**
- **One death is one too many – zero fatalities**
- **Reduce fatal and incapacitating injuries by half by 2030 (MT CHSP)**

Missoula Safety Goal

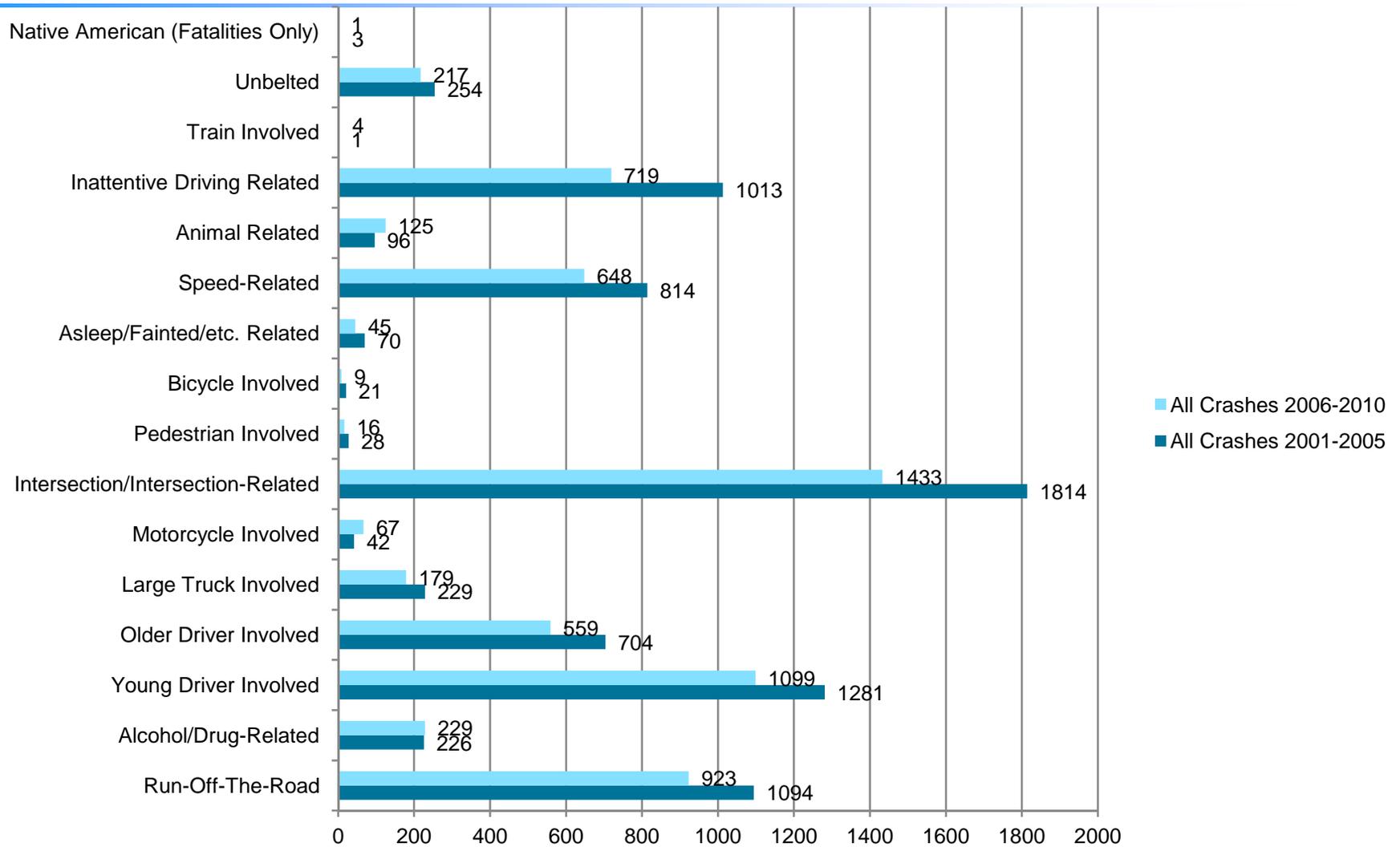
- **Reduce the five-year average of fatal and severe injury crashes by 5 percent per year, for a reduction by 25 percent by 2018.**

Next Steps

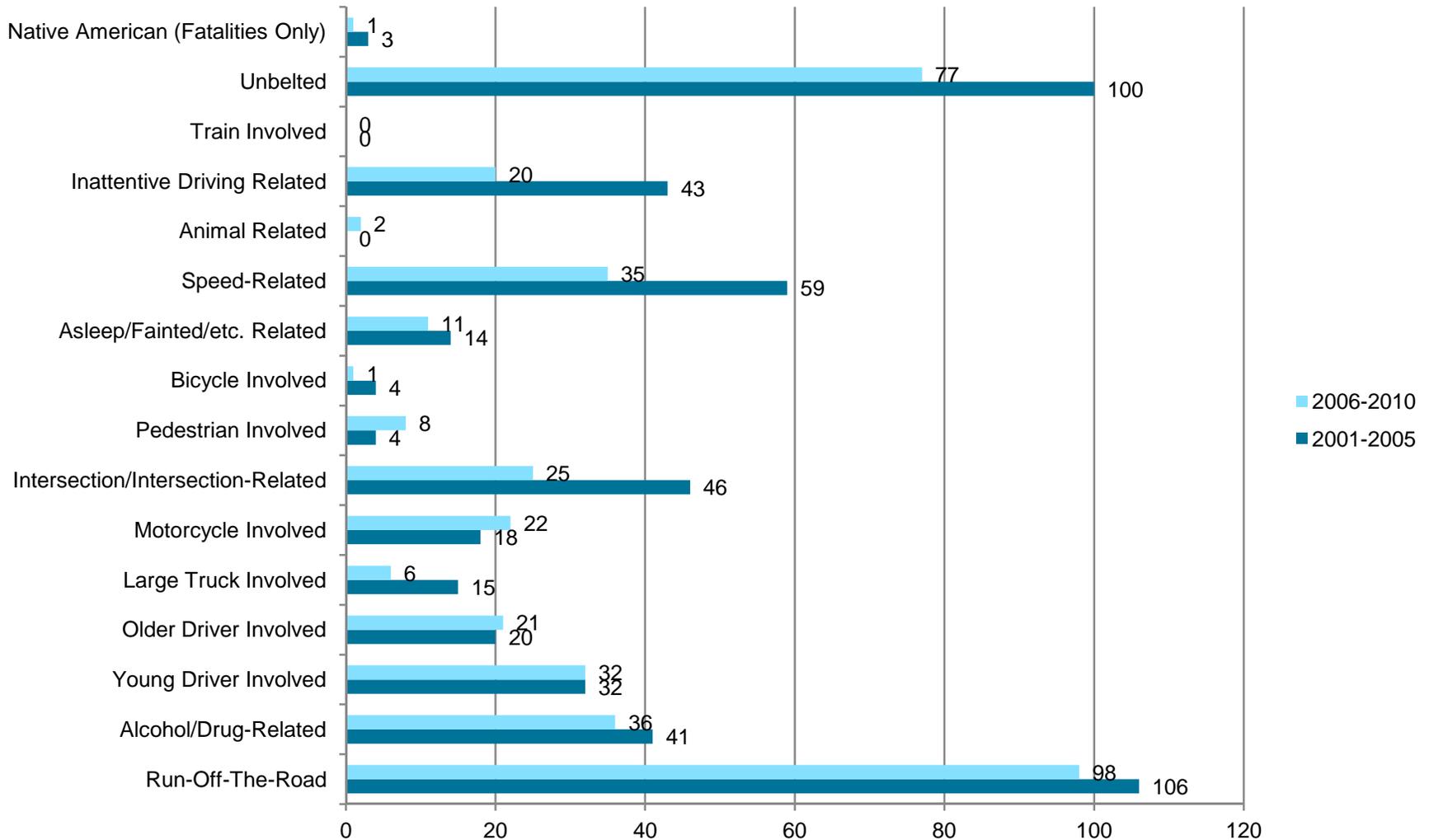
Next TSAC Meeting

- **Additional data analysis**
- **Determine Emphasis Areas for Plan**
- **Finalize Goal**

Example: Butte-Silver Bow – All Crashes by Emphasis Area



Example: Butte-Silver Bow Fatal/Incapacitating Crashes by Emphasis Area



Note: Unbelted and Native American data represent number of people, not crashes

Next Steps

- **Select dates & locations for next two meetings**
 - » **Develop agenda and materials**
- **Select potential dates & location for Safety Summit (May)**
- **Identify other potential TSAC members**
- **Homework:**
 - » **What are Missoula's most significant transportation safety issues?**
 - » **What programs are currently in place?**
 - » **What more should or could be done?**
 - » **Think about Plan Goal for finalization at next meeting**

Open Discussion