

Helena Community Transportation Safety Plan

presented to

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

presented by

**Cambridge Systematics, Inc.
Audrey Wennink**

February 20, 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**
- **Helena 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.

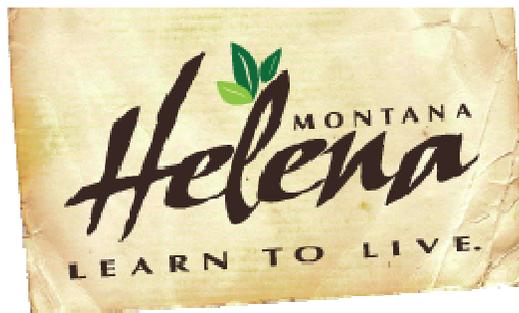
CAMBRIDGE
SYSTEMATICS

Community Transportation Safety Plans

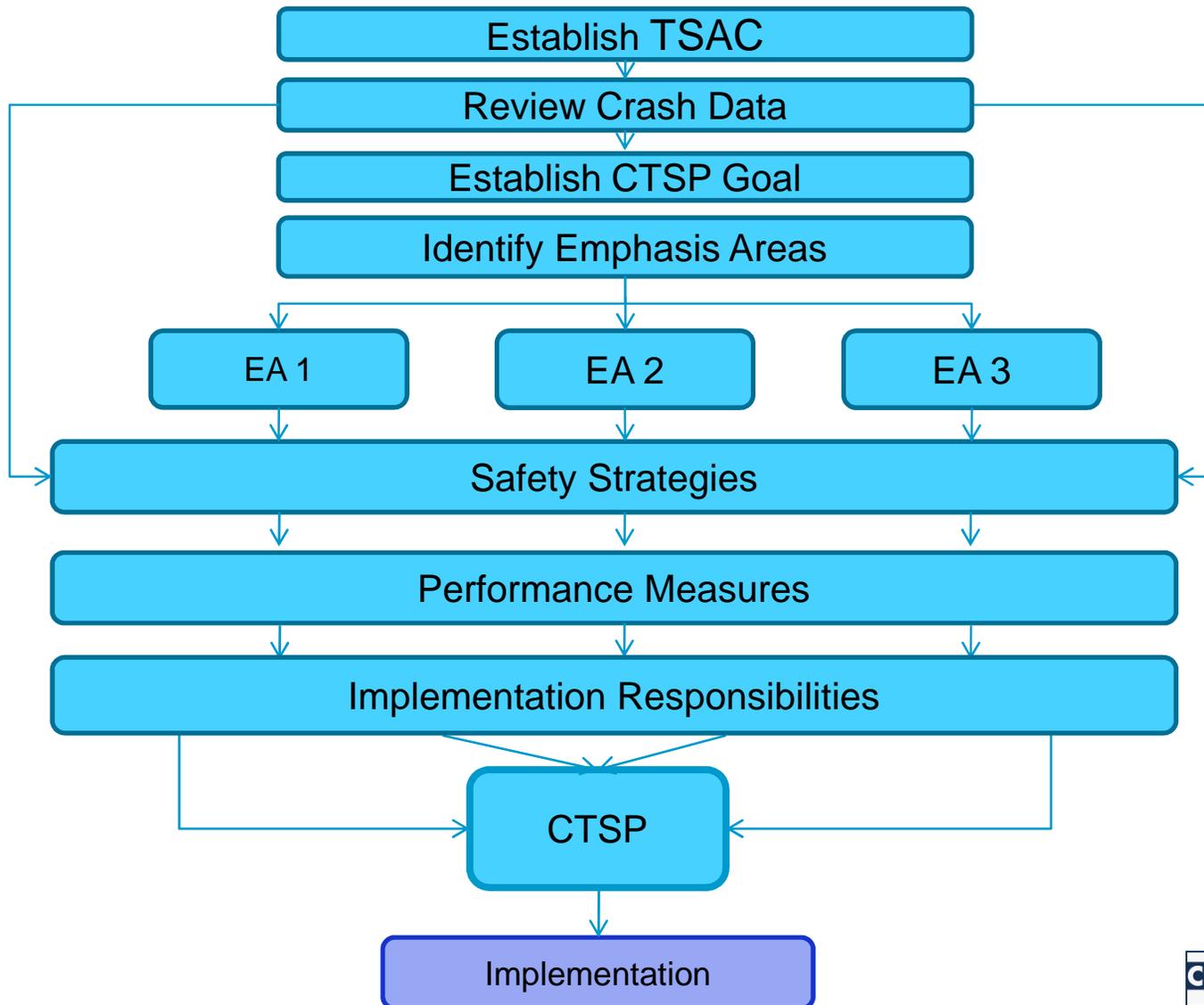
- **Target fatal and injury crashes based on locally identified safety problems**
- **Devise safety strategies that can be implemented at the local level**
- **Customize strategies based on local priorities, organizational structures, programs, leadership**

Purpose of Transportation Safety Plan

The Helena 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 20, 2013 |
| Select Emphasis Areas | March 20, 2013 |
| Identify Current Strategies/Plan Safety Summit | April 17, 2013 |
| Safety Summit | May 15, 2013 |
| Draft Plan | June 19, 2013 |
| Final Plan | July 17, 2013 |



Transportation Safety Advisory Committee (TSAC)

TSAC Draft Mission Statement

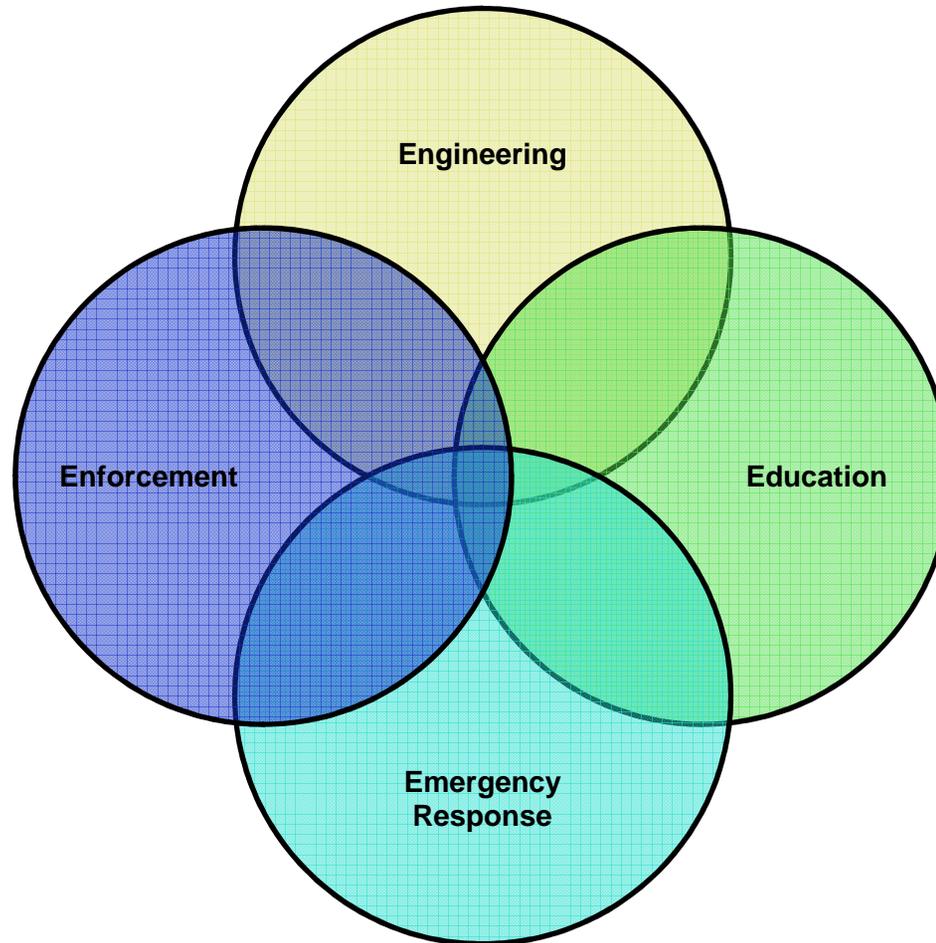
To provide guidance on the development of the Community Transportation Safety Plan and participate in and provide direction on plan implementation.



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 to Helena for adoption**
- **Support implementation of the Community Transportation Safety Plan**

“ The 4 E’s of Safety”



TSAC Membership

- Helena Public Works
- City of Helena Engineering
- Helena Community Development
- Montana Department of Transportation
- Lewis & Clark County Public Works
- Buckle Up Montana
- Montana Highway Patrol
- Helena Police Department
- Lewis and Clark County Sheriff's Office
- Helena School District
- Traffic Education
- Helena Fire Department
- Carroll College
- Helena College – University of MT
- Transportation Coordinating Committee
- Non-Motorized Travel Advisory Council

Crash Data

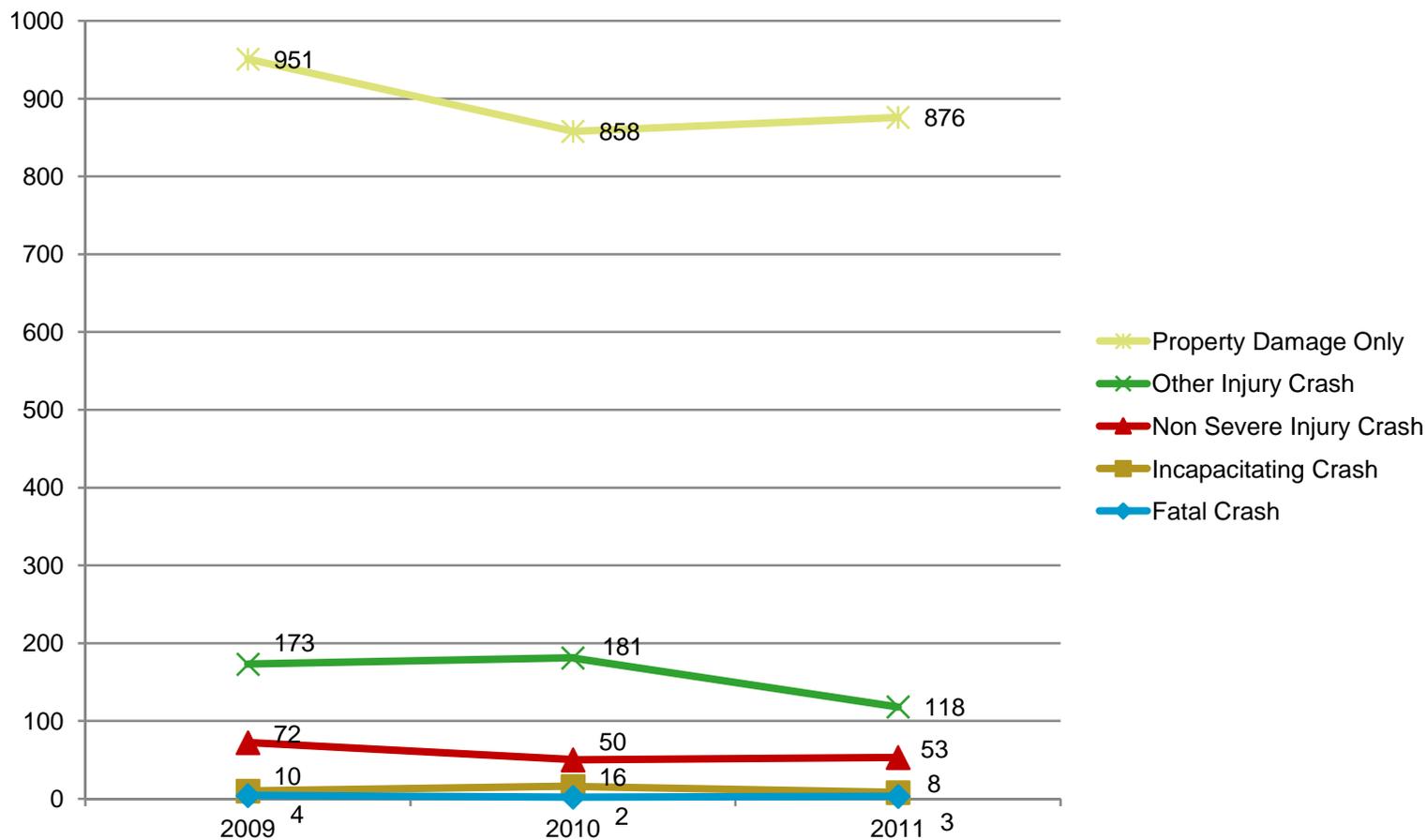


Crash Data Analysis Process

- 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



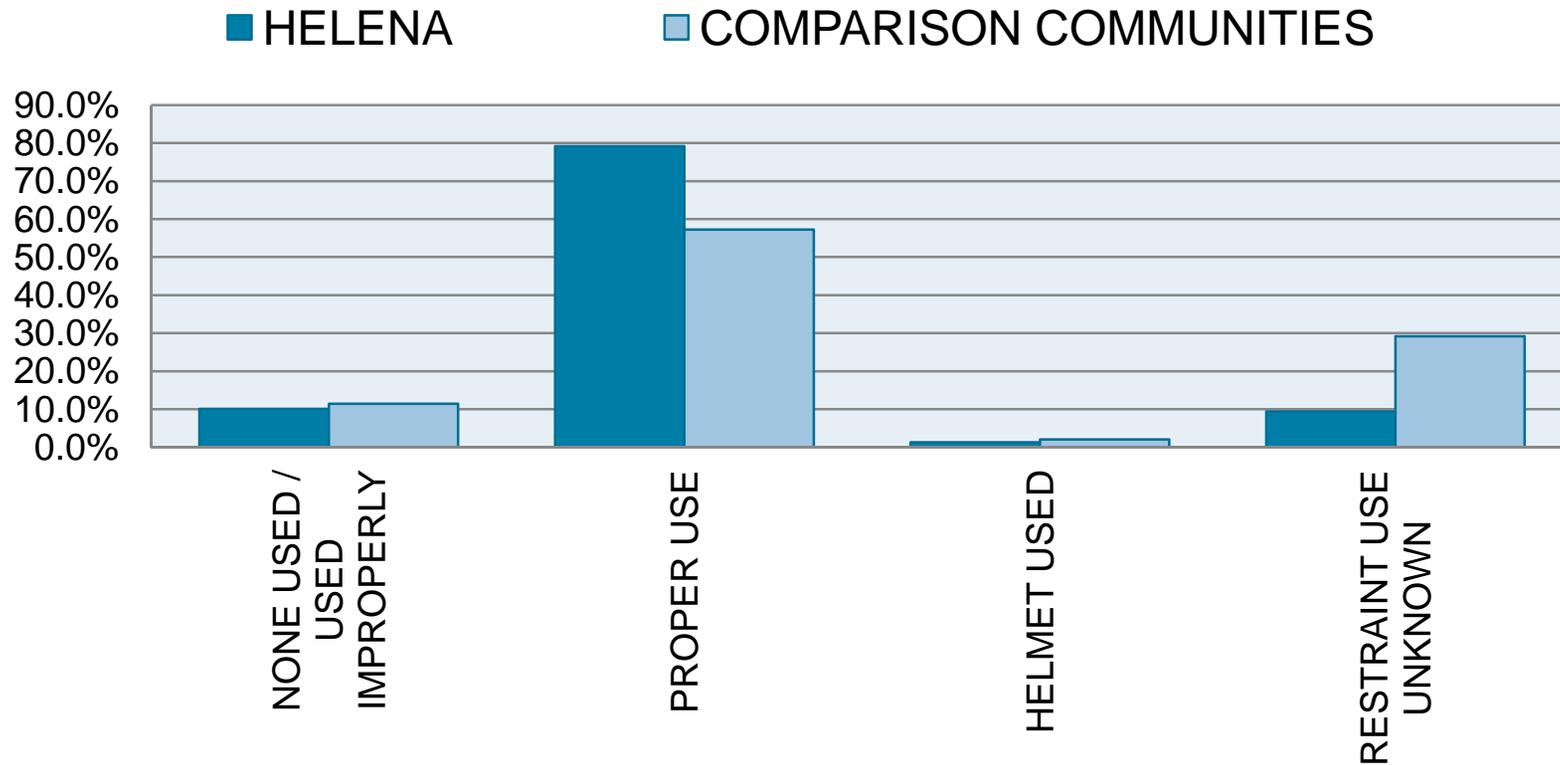
Helena Crash Severity (2009-2011)



Source: MDT-Safety Management System, 2013

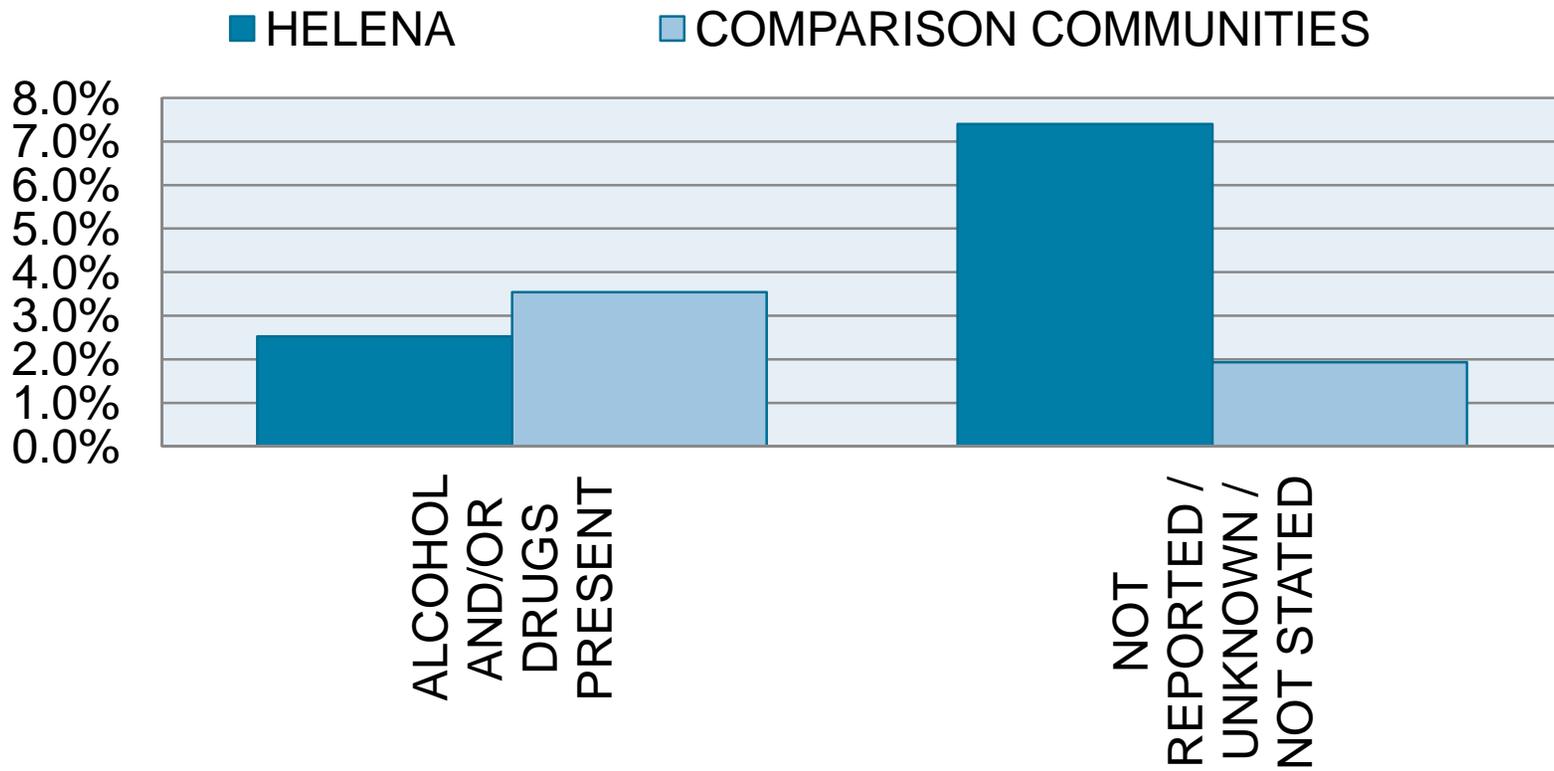
Behavior

Helena Injuries by Safety Device Use (2007-2011)



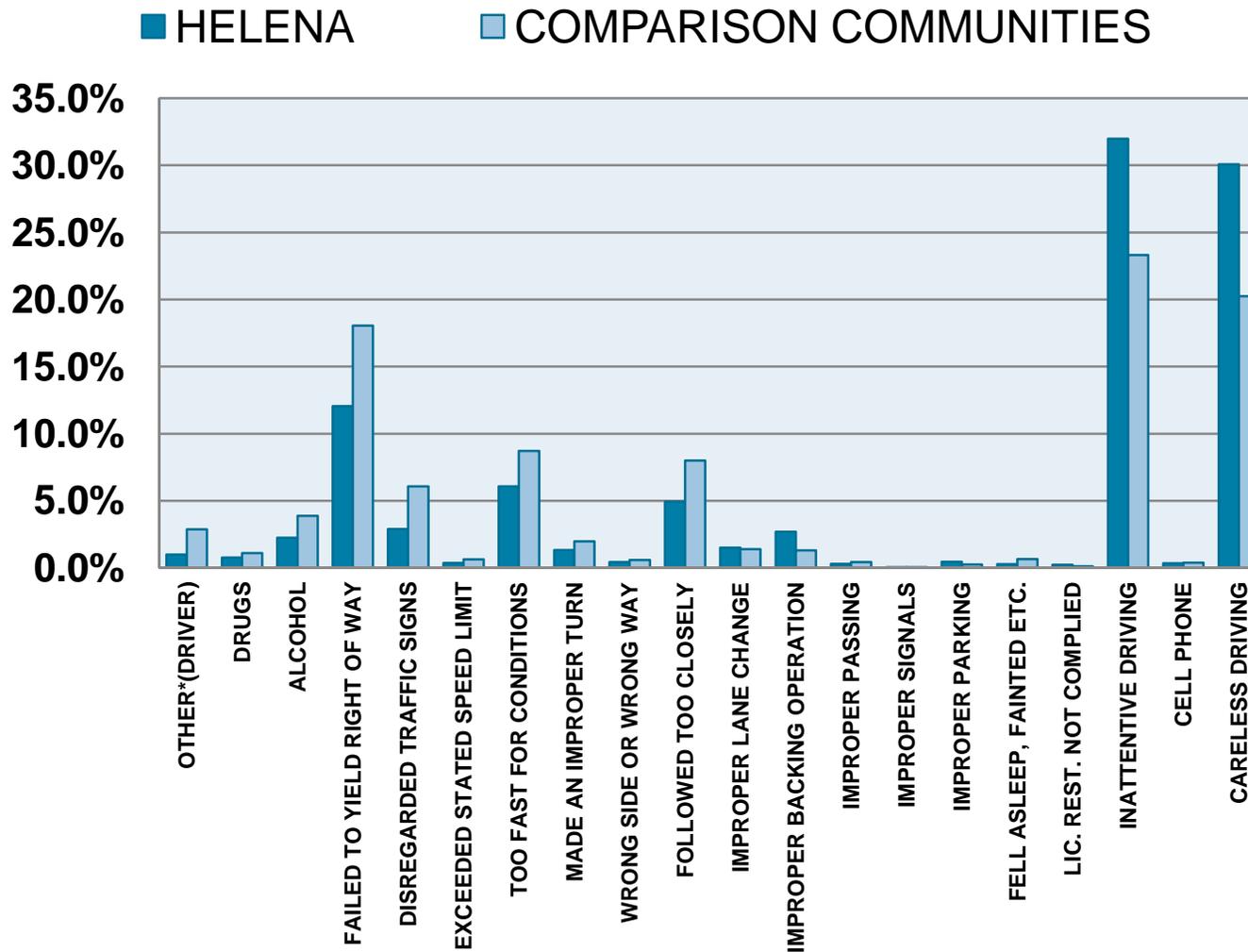
Source: MDT-Safety Management System, 2013

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



Source: MDT-Safety Management System, 2012

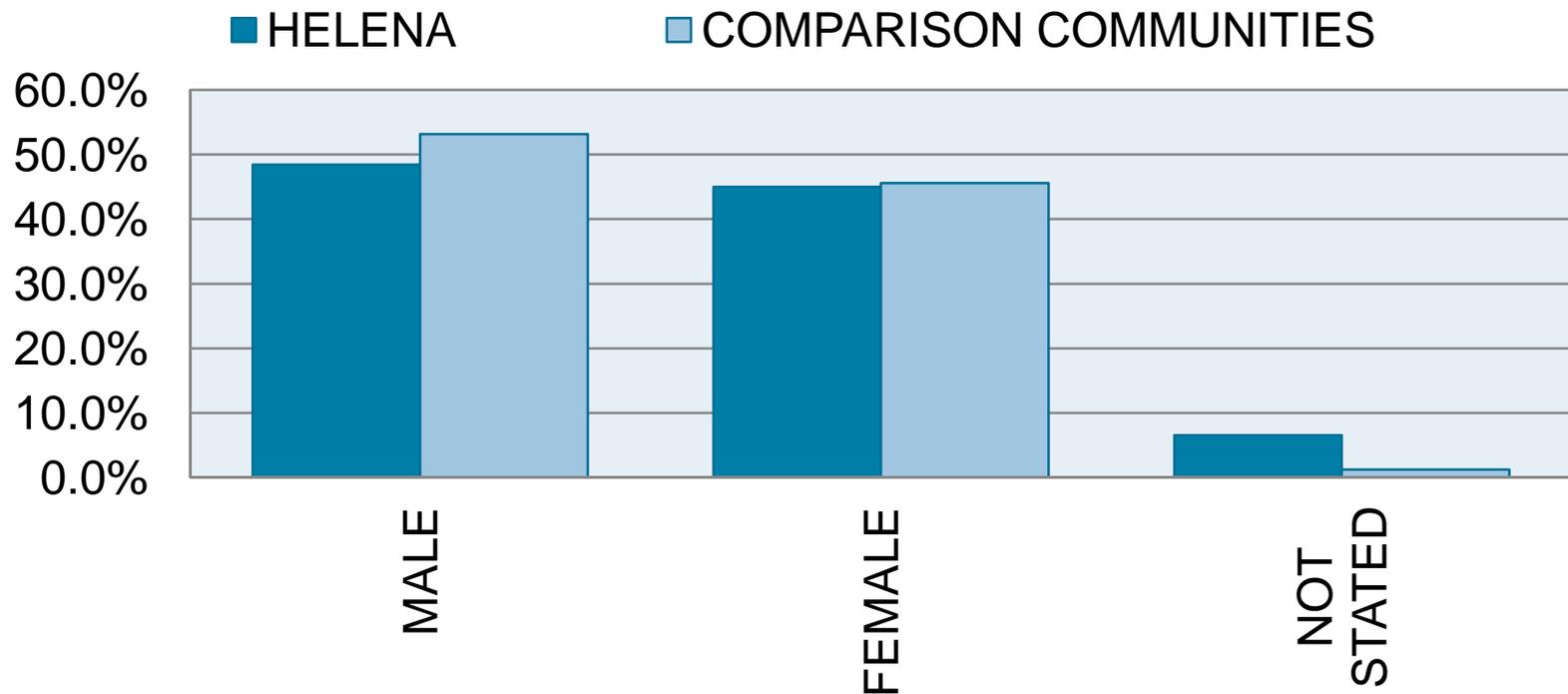
Helena Driver Contributing Circumstances All Crashes – (2007-2011)



Source: MDT-Safety Management System, 2013

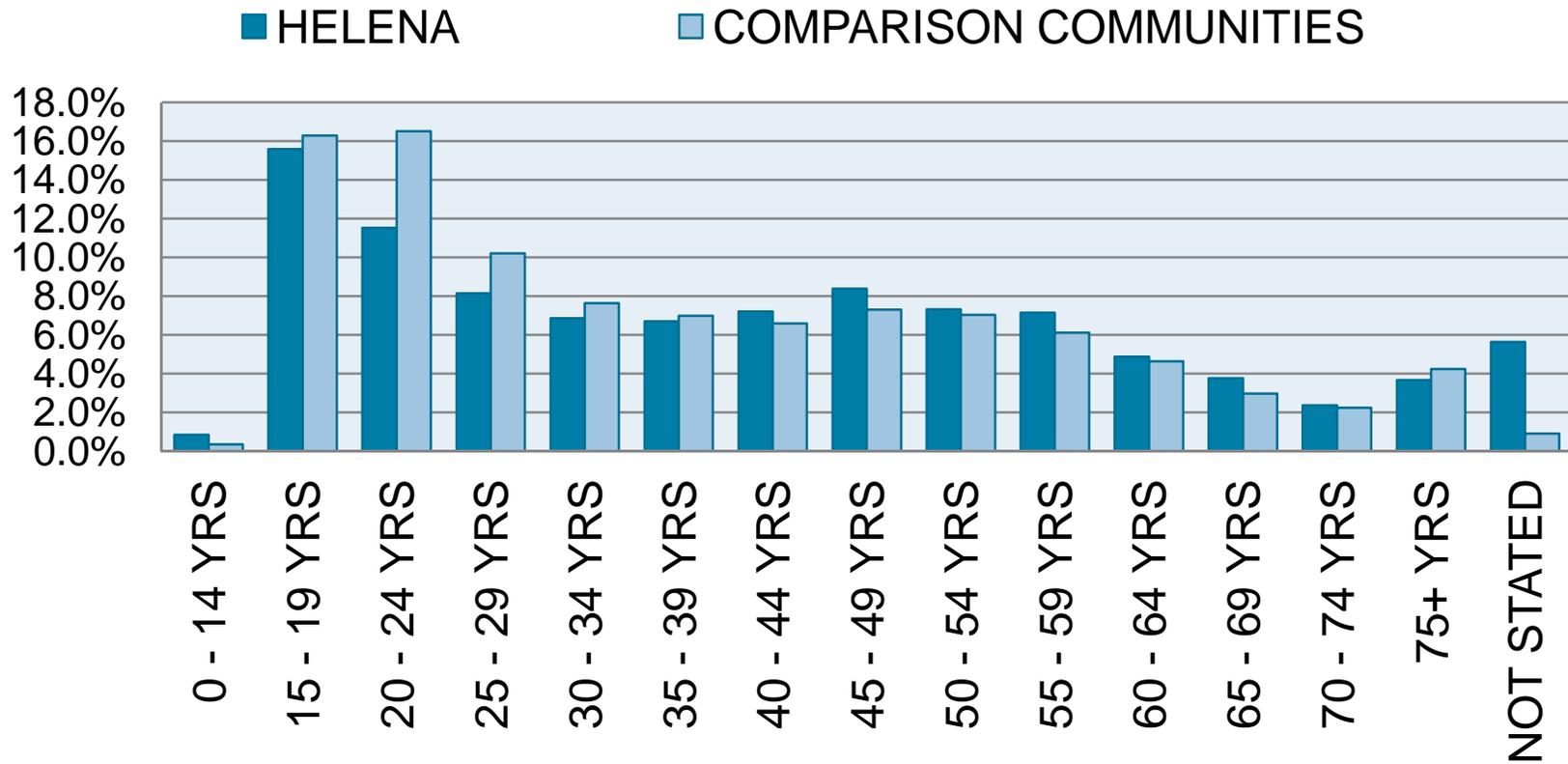
Demographics

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



Source: MDT-Safety Management System, 2013

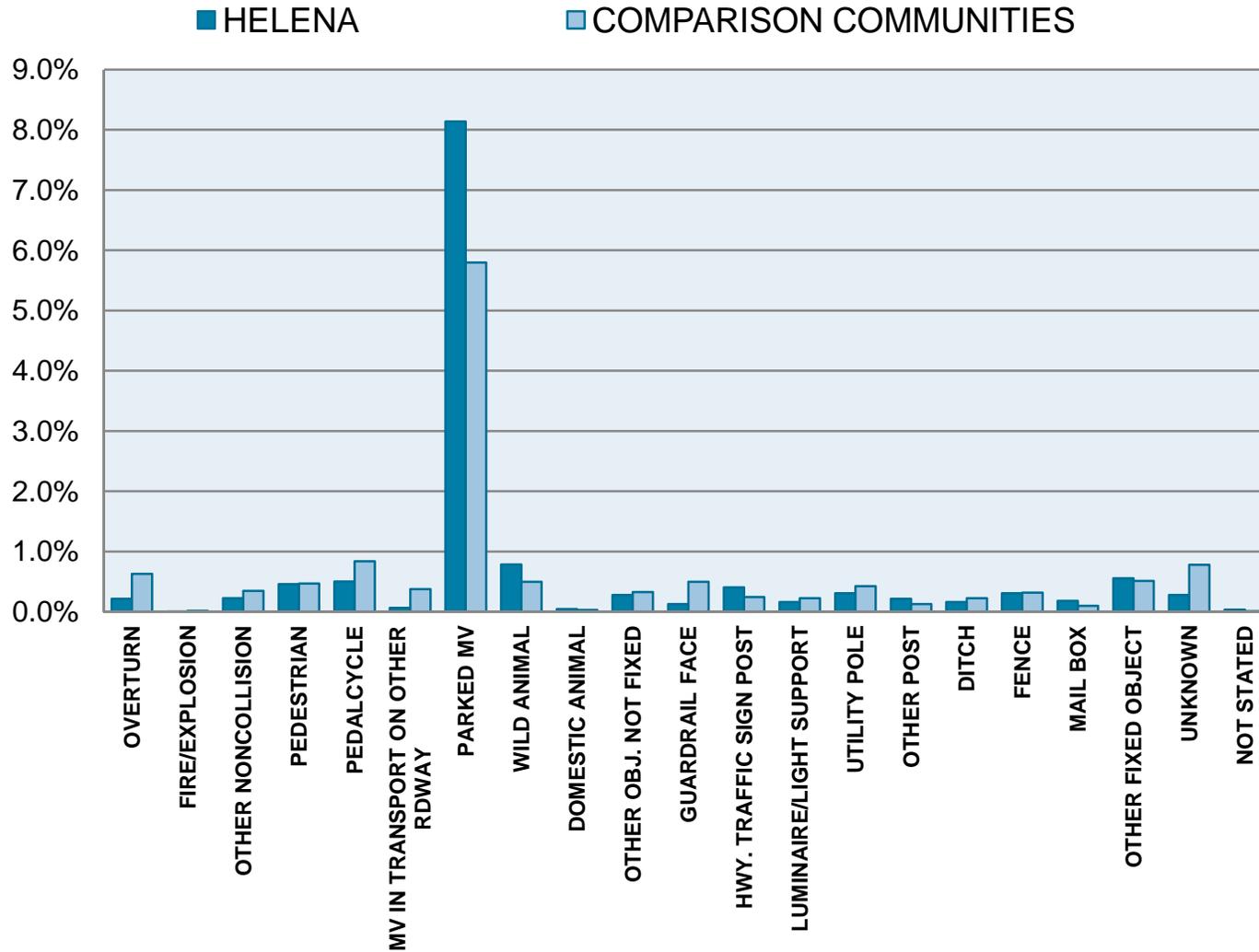
Helena Drivers by Age - All Crashes (2007-2011)



Source: MDT-Safety Management System, 2013

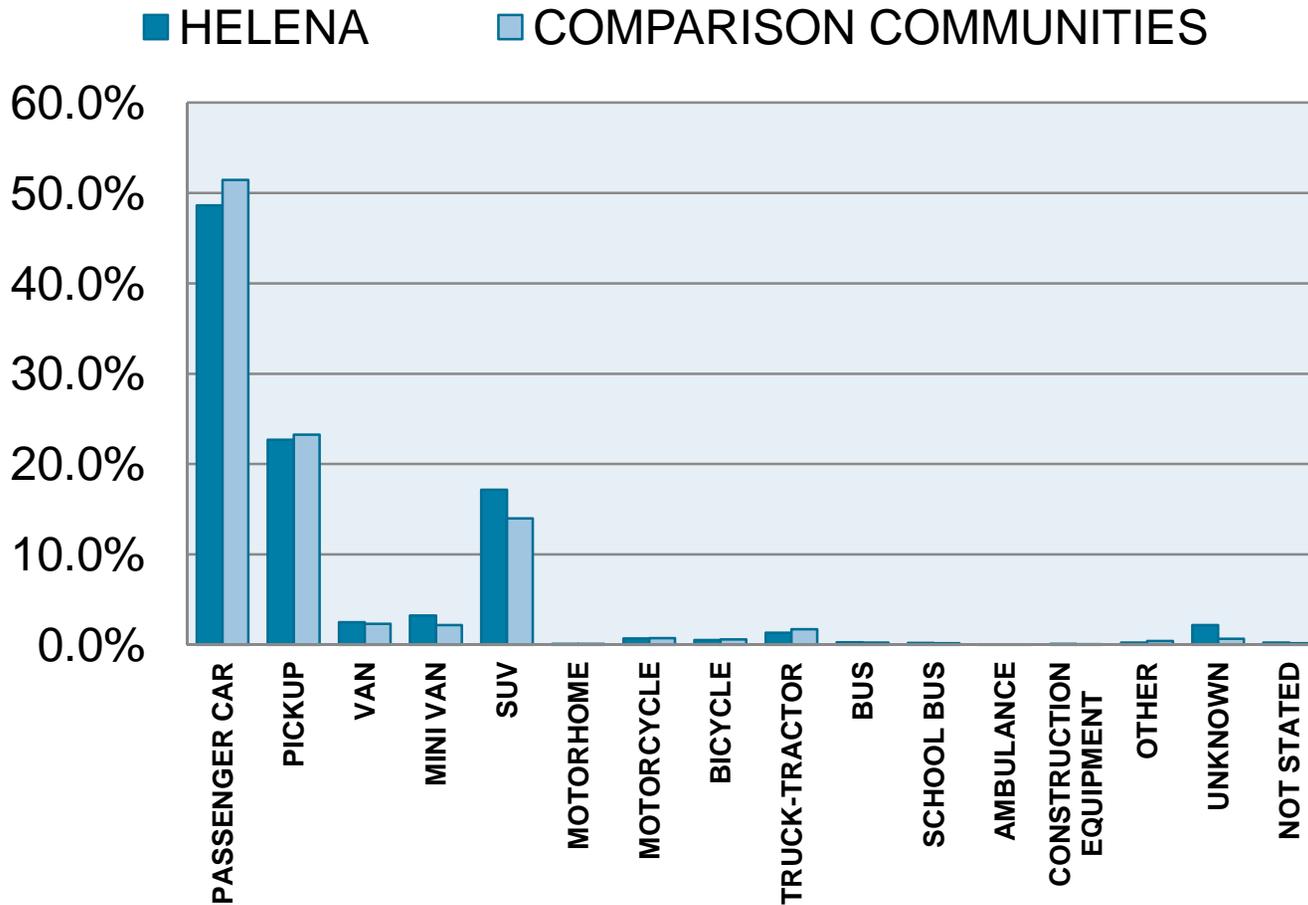
Crash Type

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



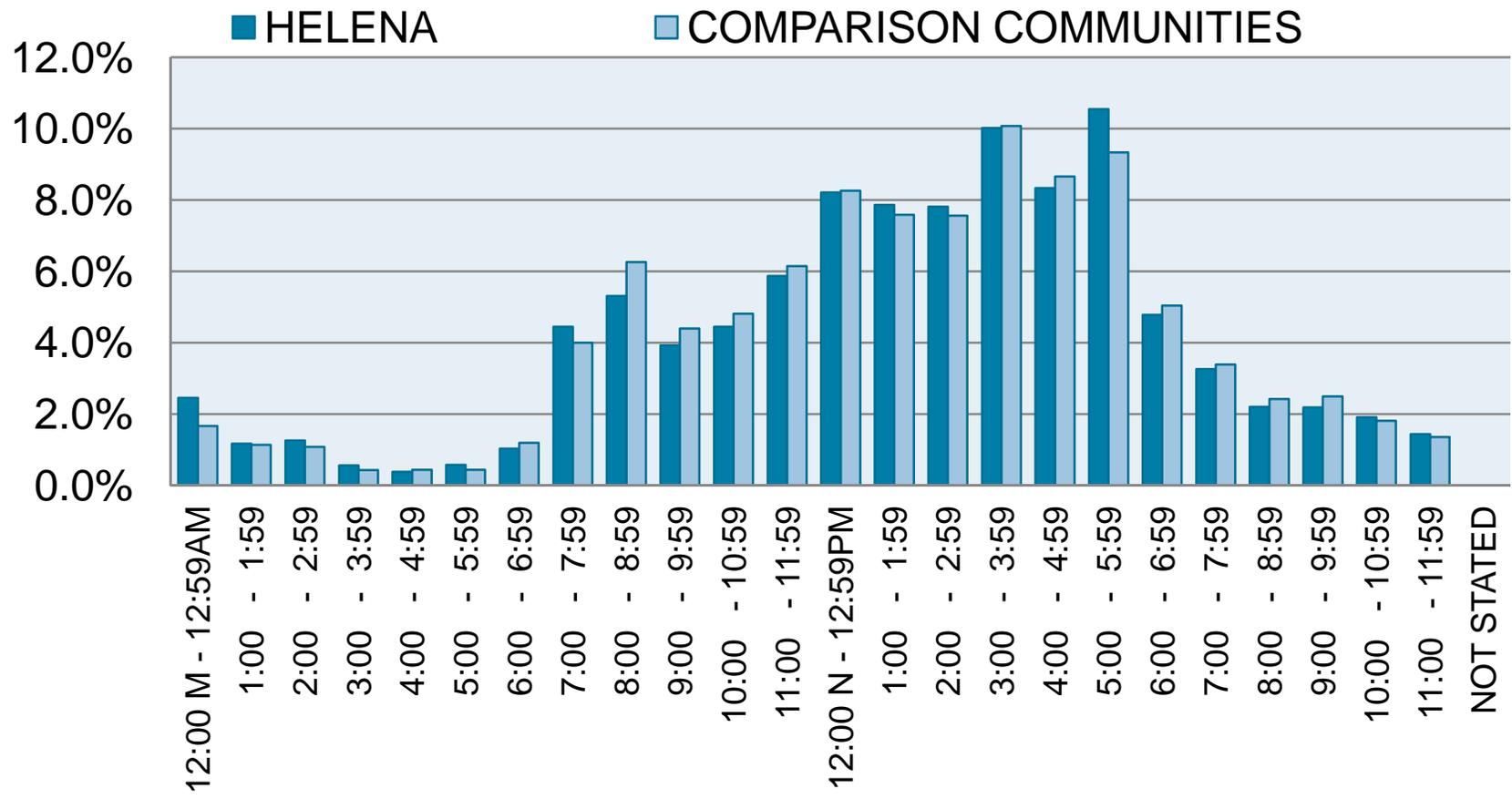
Other Factors

Helena Vehicle Type – All Crashes (2007-2011)



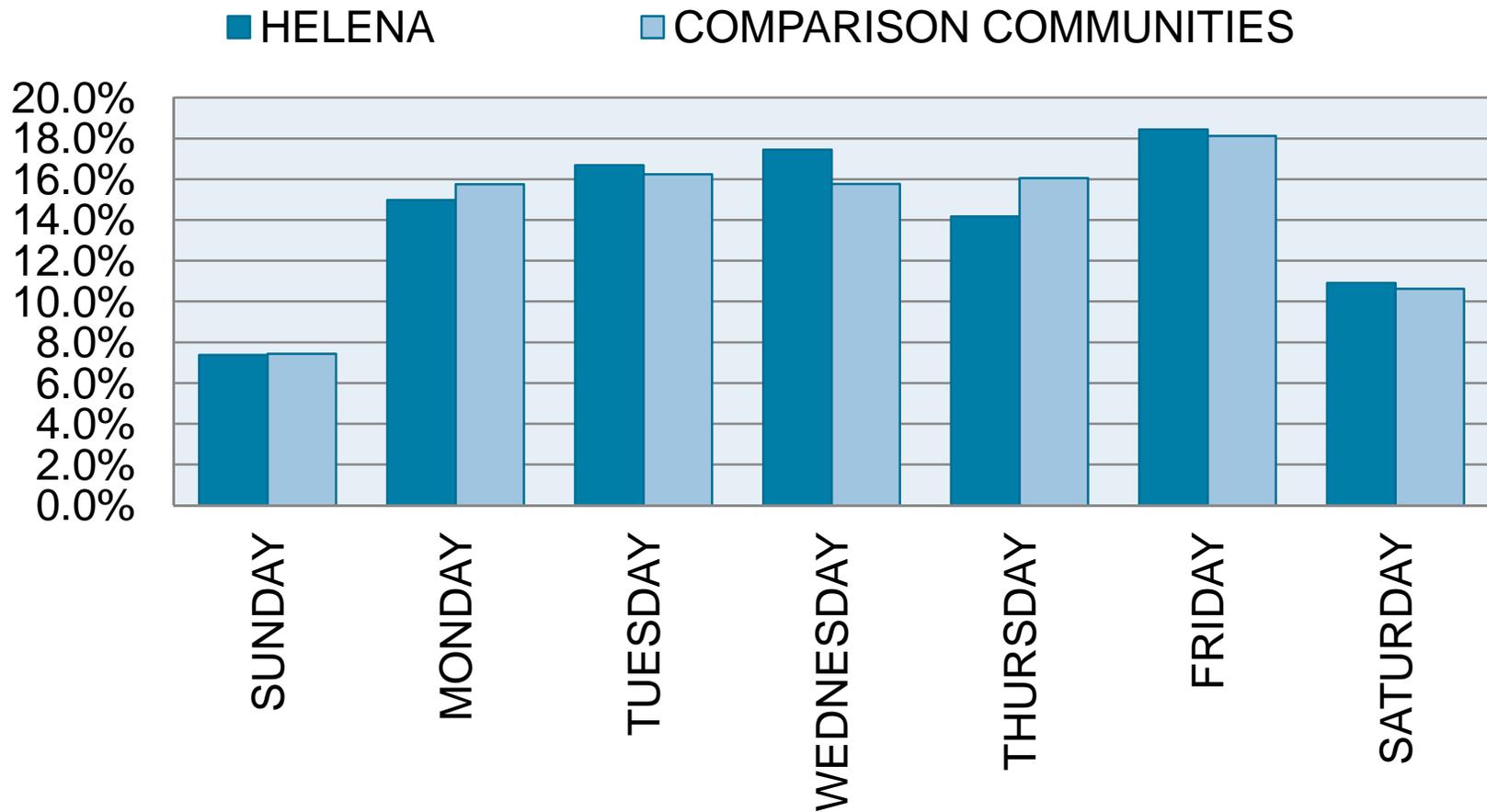
Source: MDT-Safety Management System, 2013

Helena Crashes by Time of Day (2007-2011)



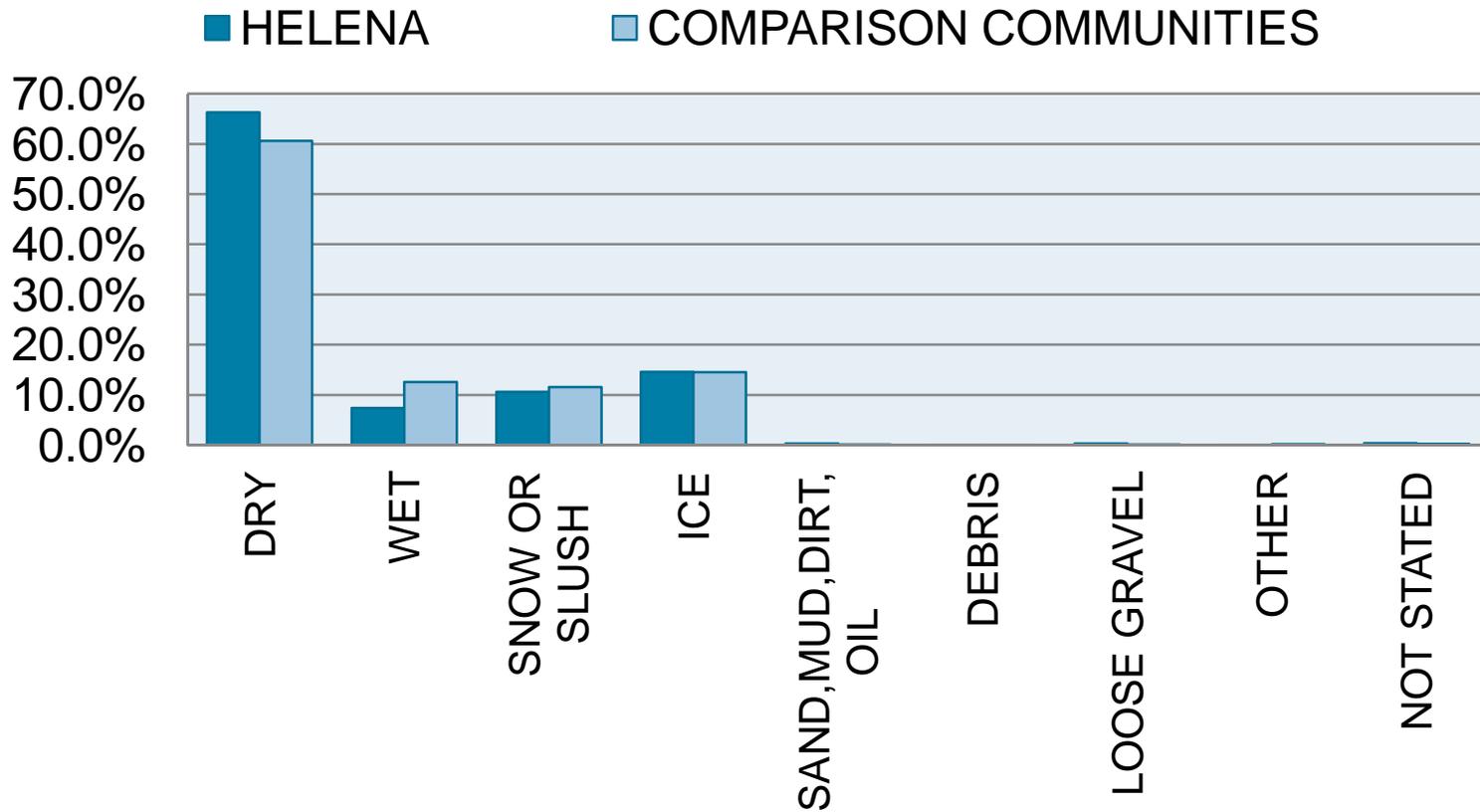
Source: MDT-Safety Management System, 2013

Helena Crashes by Day of Week (2007-2011)



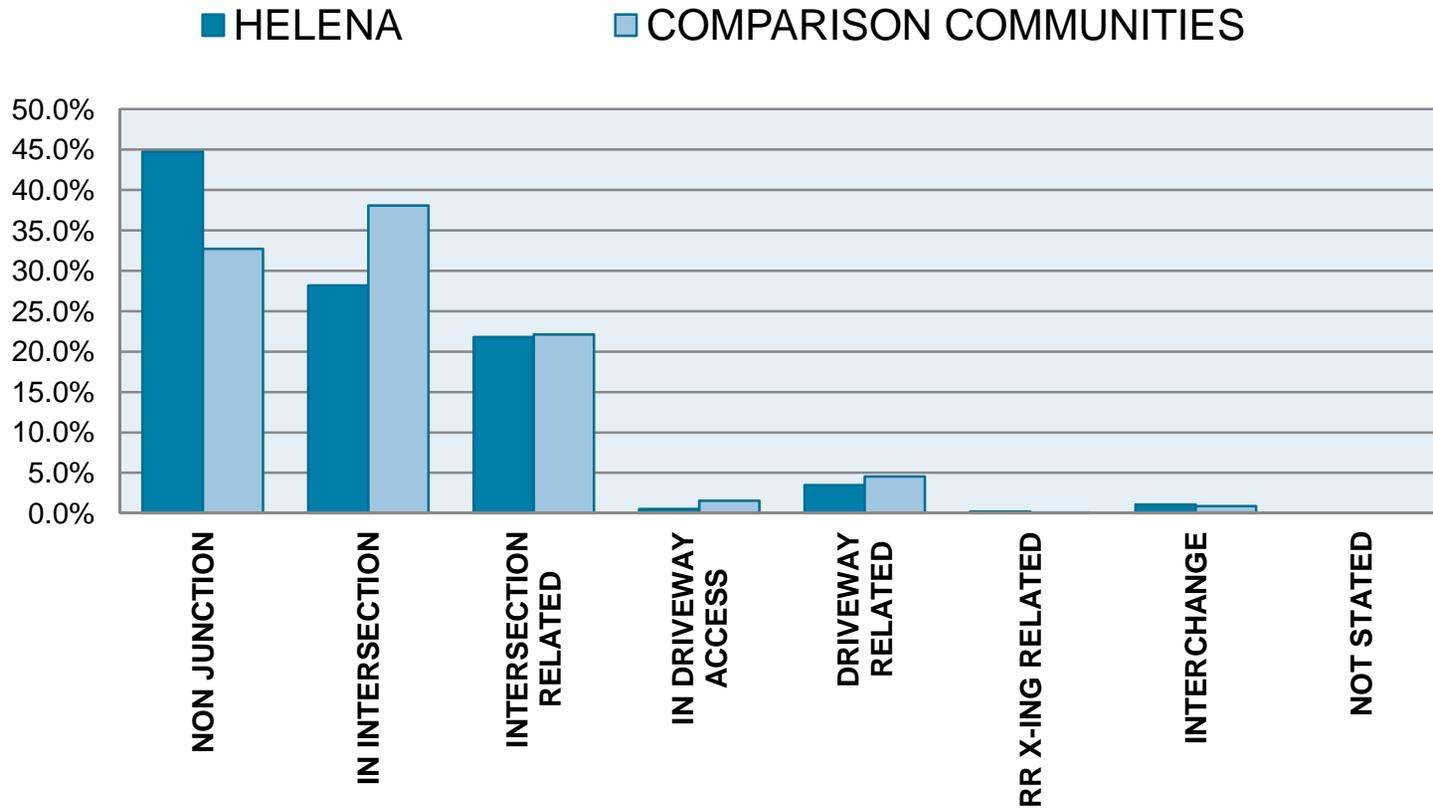
Source: MDT-Safety Management System, 2013

Helena Crashes by Road Condition (2007-2011)



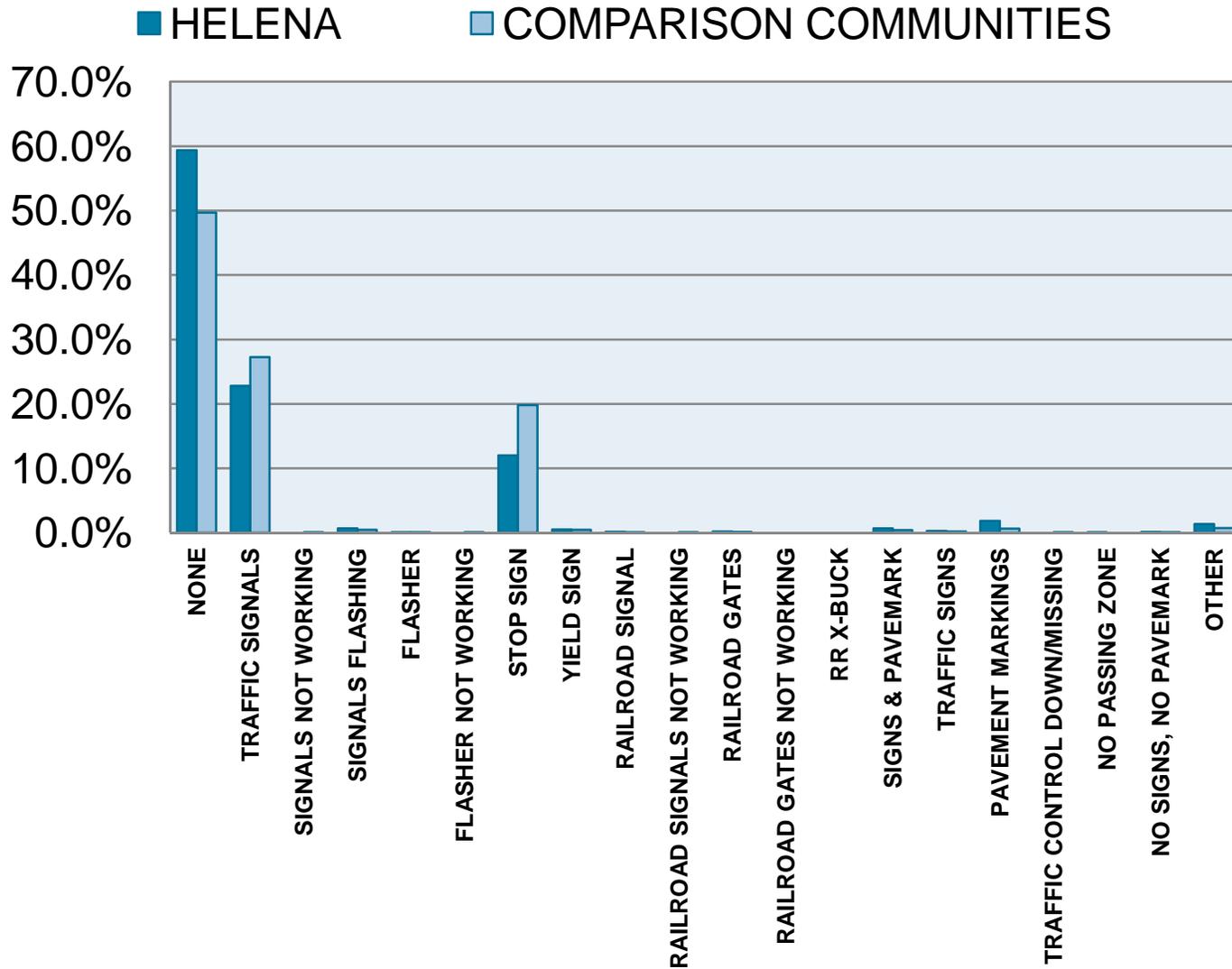
Source: MDT-Safety Management System, 2013

Helena Crashes by Relationship to Junction (2007-2011)



Source: MDT-Safety Management System, 2013

Crashes by Traffic Control (2007-2011)



Initial Findings

- Intersections
- Young drivers
- Inattentive/careless



Graduated Driver License

Step 1 – Instruction Permit/Learner License
Requires 6 months and 50 hours of supervised driving practice with parent/guardian - 10 hours must be at night
Seatbelts required

Step 2 – GDL Restricted License
Limits teen passengers and night time driving
Seatbelts required

Step 3 – Full Privilege Driver License
After one year of GDL restrictions or age 18

What is the Parent Role in Teen Driving?

1. Enroll your teen in Montana Driver Education
2. Know Montana's GDL laws
3. Supervise teen driving
4. Set family driving rules and limits
5. Impose consequences for violations

Safety Vision

Helena Safety Vision

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

Helena Safety Vision

- **Greater Helena will have the safest motorized and non-motorized transportation system of any community in MT**

CTSP Goal

Helena Annual Averages

Urban Area Annual Crashes (2007-2011)

| Fatal Crashes | Incapacitating Injury Crashes | Non-Severe Injury Crashes | Property Damage Only Crashes | Total Crashes |
|---------------|-------------------------------|---------------------------|------------------------------|---------------|
| 5 | 21 | 298 | 991 | 1315 |

Urban Area Annual Fatalities/Injuries (2007-2011)

| Fatalities | Incapacitating Injuries | Non-Severe Injuries |
|------------|-------------------------|---------------------|
| 6 | 24 | 367 |

Source: MDT-Safety Management System, 2013

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**
- **Percent reduction in total crashes**
- **One death is one too many – zero fatalities**
- **Reduce fatal and incapacitating injuries by half by 2030 (MT CHSP)**

Helena Safety Goal

- **Zero fatalities**

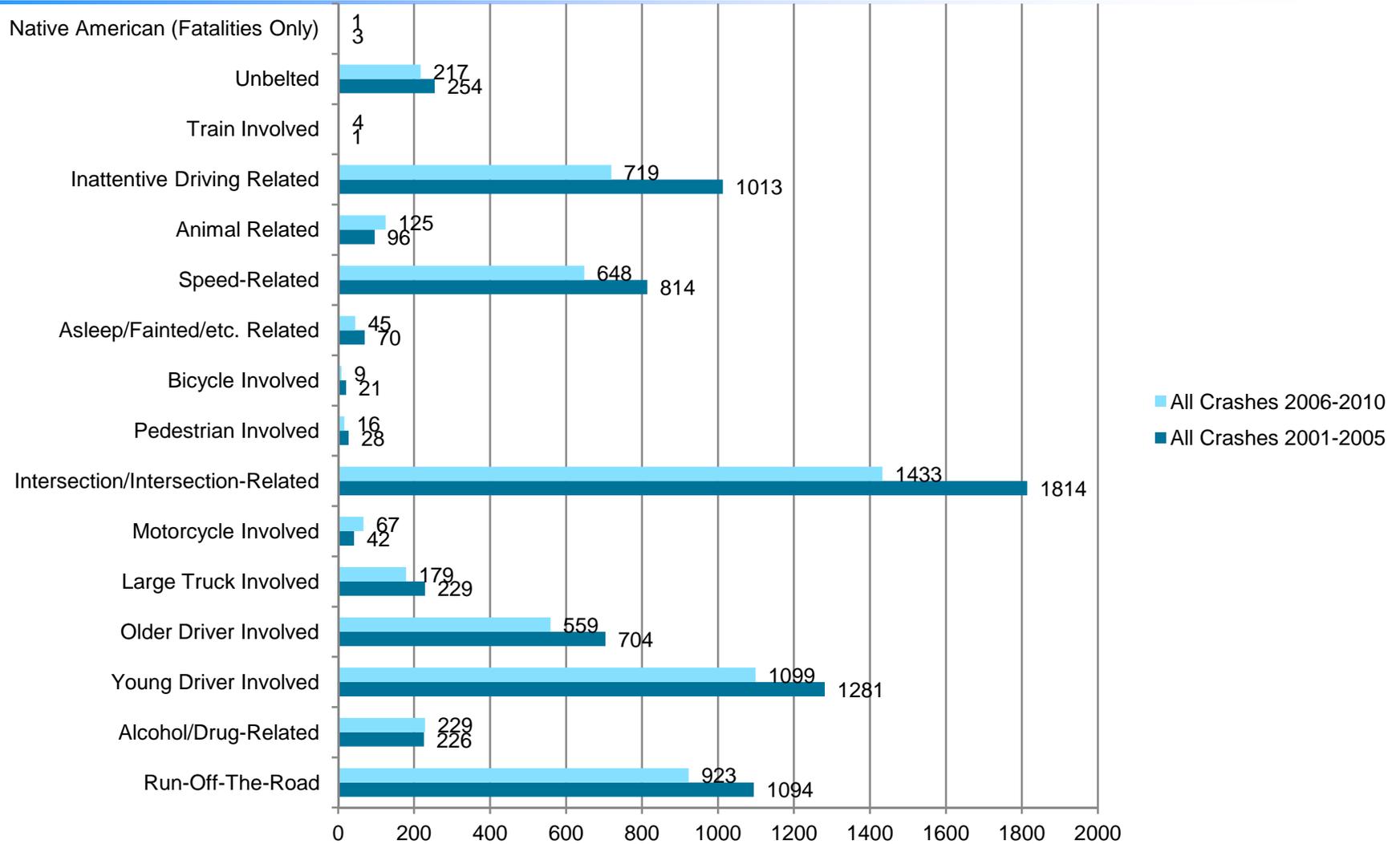
Next Steps

Next TSAC Meeting

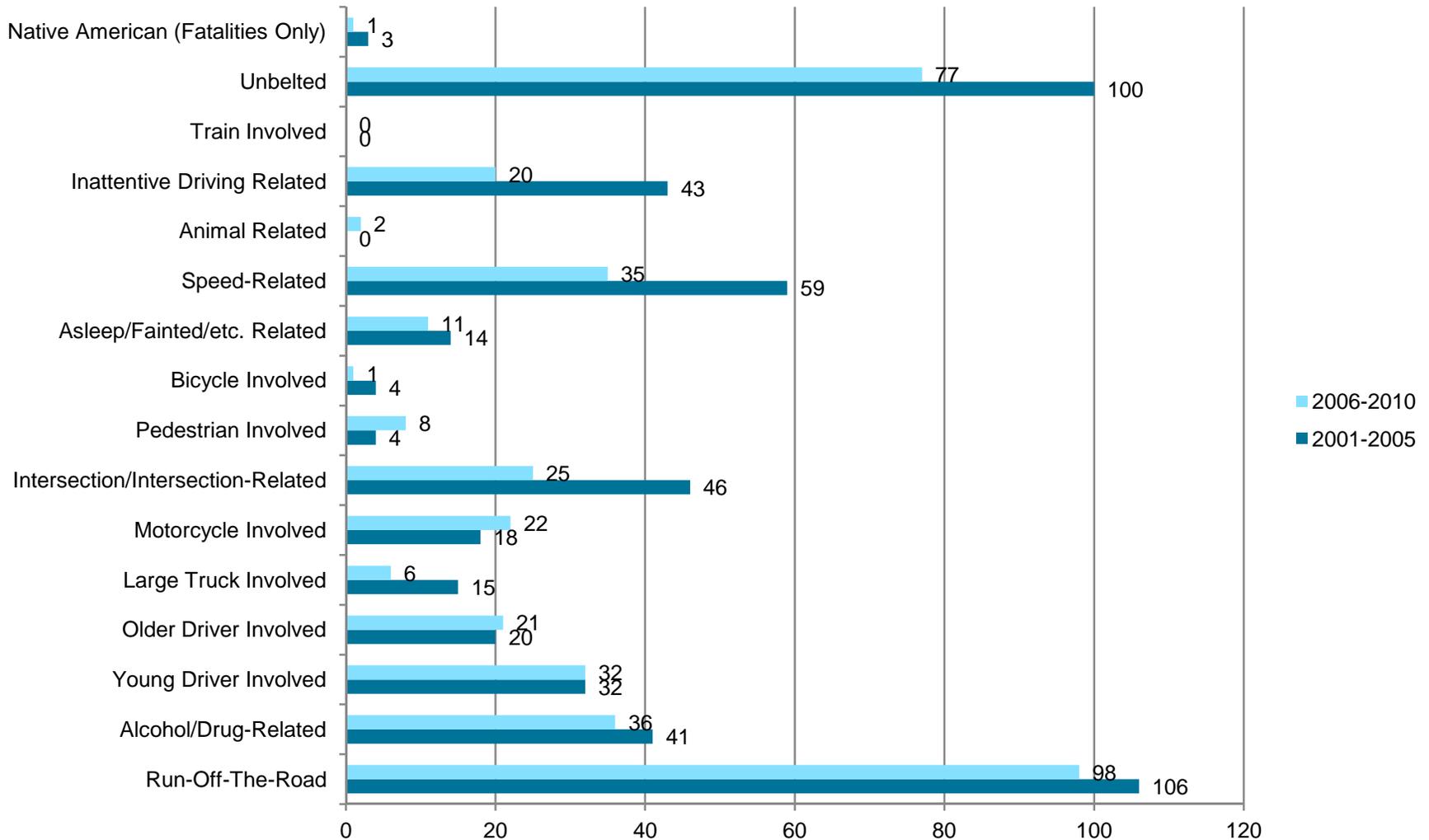
- **Additional data analysis**
- **Determine Emphasis Areas for Plan**
- **Finalize Goal**

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

- **Confirm 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 Helena'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