

# LOCAL ROAD SAFETY PLANS:

Your Map to Safer Roadways

No matter what your resources, a Local Road Safety Plan will guide you to data-driven solutions and safer roads.

[https://safety.lhwa.dot.gov/prevention/measurements/local\\_road/](https://safety.lhwa.dot.gov/prevention/measurements/local_road/)

Chevron signs reduce nighttime crashes by 25%.

In 2017, over 50% of fatalities occurred on rural roads, but just 19% of Americans live in rural areas.

More than 75% of all roads are maintained by local agencies.

Help Get People Home Safely

### Identify Stakeholders

- Law Enforcement
- Public Health
- EMS
- Elected Officials

### Choose Proven Solutions

- Chevrons
- Roundabouts
- Targeted Enforcement
- Crosswalks

### Use Safety Data

- Crashes
- Maintenance Logs
- Safety Audits
- Traffic Violations

### Implement Solutions

- Education & Enforcement
- Capital Projects
- Maintenance Work

### LOCAL ROAD SAFETY PLANS

Help Get People Home Safely

U.S. Department of Transportation  
Federal Highway Administration

<https://www.youtube.com/watch?v=Wzdm798MoI8>

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# What is a Local Road Safety Plan?

- Provides a comprehensive framework to reduce fatalities and serious injuries on the local system
- Utilizes the 4 Es
  - Engineering
  - Enforcement
  - Education
  - Emergency Response

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# Why a Safety Emphasis on Local Roads?

- Builds off of the State Strategic Highway Safety Plan (SHSP)
- 72% of rural roads are owned by local entities and contribute approximately 54% of all fatal crashes
- Contribute to regional transportation safety goal and national performance measures
- Position your agency to apply for funding

Source: National Center for Statistics and Analysis. (2016, July) Rural/Urban Comparison: 2014 data. Traffic Safety Facts. Report No. DOT HS 812 301.

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# Steps in the LRSP Development Process

**Step 1: Establish Leadership/ Stakeholder Collaboration**

Step 2: Analyze the Safety Data

Step 3: Determine Emphasis Areas

Step 4: Identify Strategies

Step 5: Prioritize and Incorporate Strategies

Step 6: Evaluate and Update the LRSP



# Mono County Safety Partners:

Mono County Board of Supervisors  
Local Transportation Commission (LTC)  
Emergency Medical Services (EMS)  
Public Works Road Department  
Behavior Health Department  
Public Health Department  
Community Development / Planning  
IT Department  
Sheriff's Office  
Town of Mammoth Lakes  
Eastern Sierra Transit Authority  
California Highway Patrol  
County RPACs  
Local Fire Protection Districts  
Mono County Office of Education & Safe Kids of CA  
Eastern Sierra Unified School District  
Eastside Velo  
Mammoth Tourism  
Mono Health Care Districts  
Mammoth Lakes Police Department  
Others ?

## Public Outreach:

Residents of Mono County know their communities best. Their input will be necessary to fully address road safety issues.

A Road Safety Survey has been created to obtain public input on Mono County Road safety.

Please participate in the survey:

<https://monocounty.ca.gov/roads>



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# Step 2: Analyze the Safety Data



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# Local Road Safety Plan Elements

## Data driven

- Focused on fatal and serious injury crashes
- Identifies crash types to address

Identifies roadway characteristics (risk factors) common to fatal and serious injury crashes

Prioritizes the road network based on the presence of these risk factors (more risk factors = higher priority)

Identifies countermeasures to address high priority locations

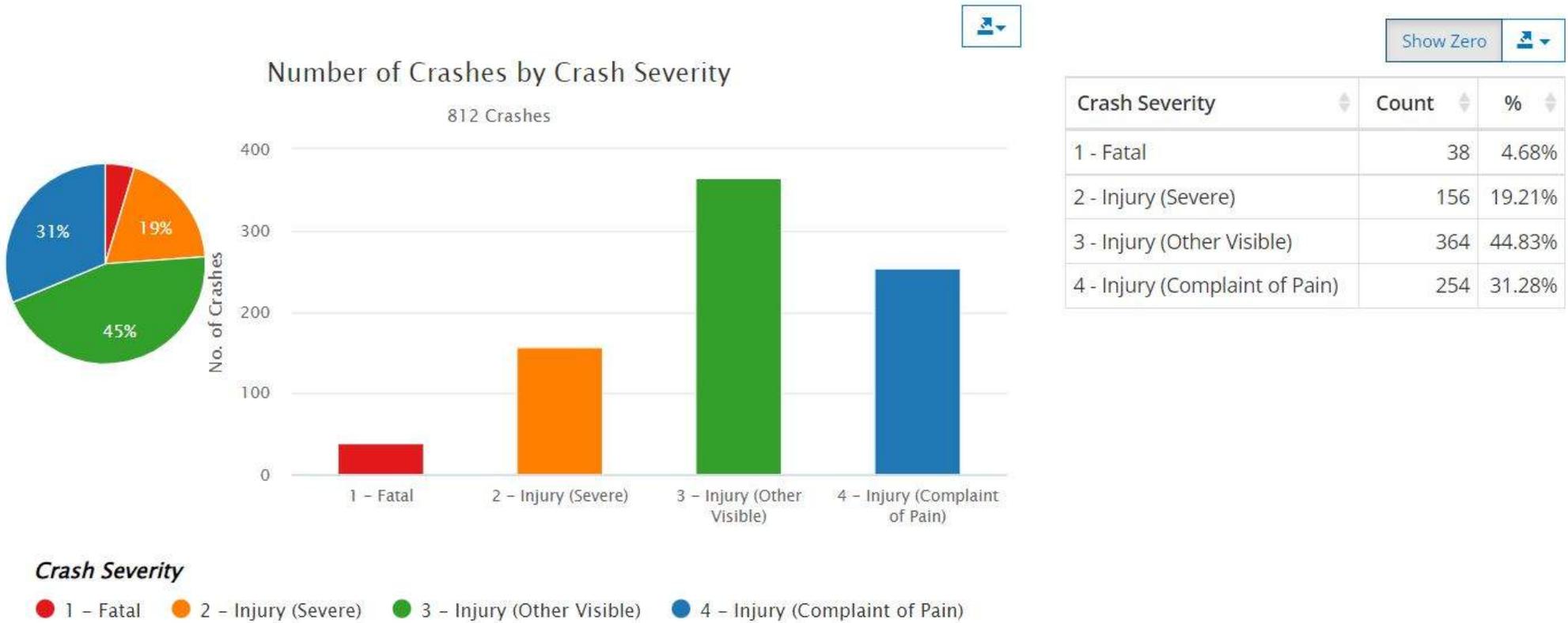
## Prioritizes projects

Address behavioral and other risk factors contributing to traffic collisions through agency partnerships and collaboration

# Traffic Collision Data for all of Mono County from 2011 to 2020.

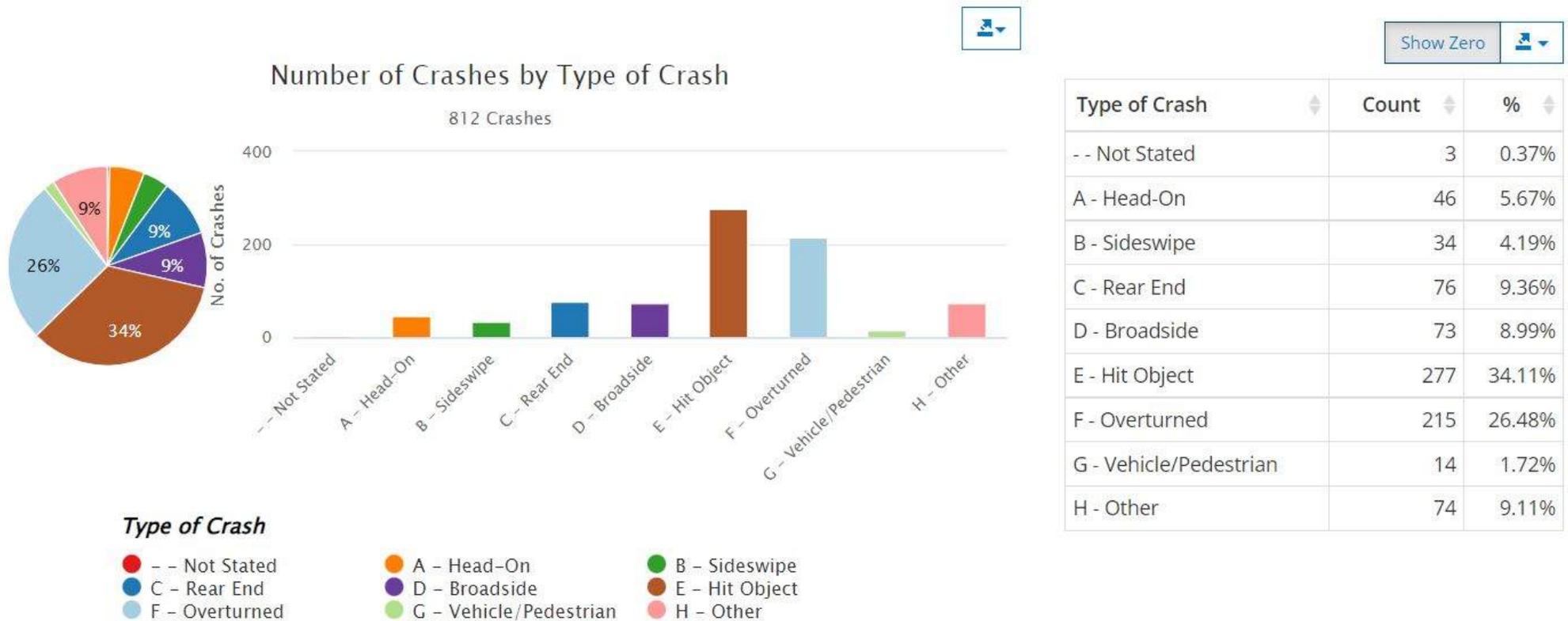
Includes State Highways, Town of Mammoth Lakes, and Mono County Maintained Roads

Total Crashes	812	Total Victims	46 Killed & 1,142 Injured	State Highway	652 (80.3%)
Ped Crashes	16 (2%)	Bike Crashes	26 (3.2%)	Motorcycle Crashes	132 (16.3%)



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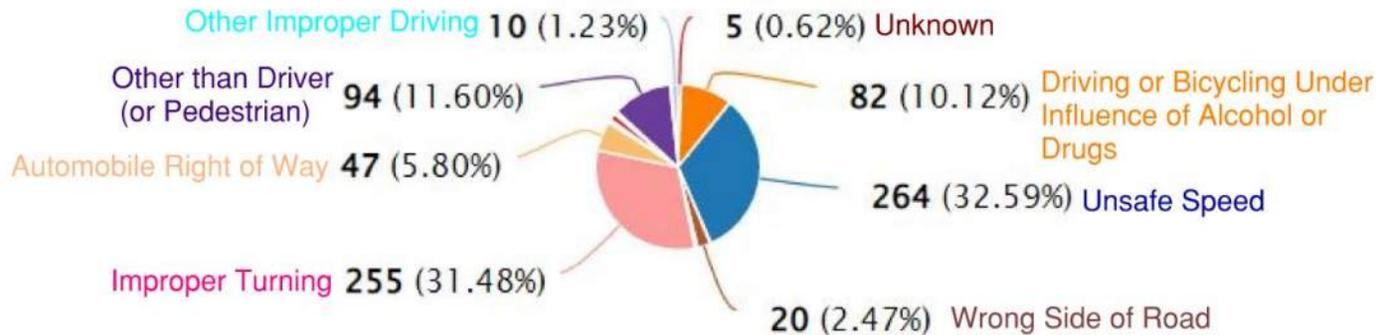


# Traffic Collision Data for all of Mono County from 2011 to 2020.

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## Number of Crashes by PCF Violation

810 Crashes



PCF Violation	Count	%
00 - Unknown	5	0.62%
01 - Driving or Bicycling Under the Influence of Alcohol or Drug	82	10.12%
02 - Impeding Traffic	1	0.12%
03 - Unsafe Speed	264	32.59%
04 - Following Too Closely	2	0.25%
05 - Wrong Side of Road	20	2.47%
06 - Improper Passing	2	0.25%
07 - Unsafe Lane Change	3	0.37%
08 - Improper Turning	255	31.48%
09 - Automobile Right of Way	47	5.80%
10 - Pedestrian Right of Way	2	0.25%
11 - Pedestrian Violation	4	0.49%
12 - Traffic Signals and Signs	10	1.23%
13 - Hazardous Parking	1	0.12%
16 - Other Equipment	2	0.25%
17 - Other Hazardous Violation	3	0.37%
18 - Other Than Driver (or Pedestrian)	94	11.60%
21 - Unsafe Starting or Backing	3	0.37%
22 - Other Improper Driving	10	1.23%

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# Step 3: Determine Emphasis Areas

## What are Emphasis Areas?

Emphasis areas are an opportunity to improve safety and should reflect the input of the group and consider strategies from the 4 E's of roadway safety improvement when appropriate

Motorcycle Related	132 crashes (16%)
Alcohol Involved	108 crashes (13%)
Intersection Related	75 crashes (9%)
Snow Related	66 crashes (8%)
Animal Related	60 crashes (7%)
Bicycle Involved	26 crashes (3%)
Pedestrian Involved	16 crashes (2%)
Truck Involved	6 crashes (0.7%)



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# Step 3: Determine Emphasis Areas

## With Crash Data:

Emphasis areas should be consistent with trends identified in the data.

**Mono County Traffic Collision Factors Based on Level of Injury**  
Statewide Integrated Traffic Records System (SWITRS) from 2011 to 2020

Mono County Ranking	Fatal Injury (Average Collisions per Year)	Fatal and Severe Injury* (Average Collisions per Year)	All Injuries (Average Collisions per Year)
1	DUI - Alcohol Involved (1.3)	Speeding Related (8.6)	Speeding Related (45.6)
2	Older Adult 65+ (1.2)	Motorcycle (5.9)	Older Adults 65+ (16.3)
3	DUI - Drugs Involved (1.0)	Older Adult 65+ (4.7)	Motorcyclist (15.0)
4	Unrestrained Occupant (1.0)	DUI - Alcohol Involved (4.3)	DUI - Alcohol Involved (14.5)
5	Speeding Related (0.9)	Unrestrained Occupant (3.1)	Distracted Driving (8.4)
6	Motorcycle (0.6)	DUI - Drugs Involved (2.3)	Unrestrained Occupant (6.3)
7	Distracted Driving (0.5)	Distracted Driving (1.5)	DUI - Drugs Involved (3.5)
8	Pedestrian (0.2)	Bicyclist (1.1)	Bicyclist (2.9)
9	Bicyclist (0.1)	Pedestrian (0.6)	Pedestrian (2.2)

Statewide Integrated Traffic Records System (SWITRS) Data obtained from SafeTREC Transportation Injury Mapping System (TIMS)

Note: This data includes all of Mono County including State Highways, County Roads, and Town of Mammoth Lakes roads.

\* Severe Injury: **An injury other than a fatal injury** which results in broken bones, dislocated or distorted limbs, severe lacerations, or unconsciousness at or when taken from the collision scene. It does not include minor laceration

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## Step 4: Identify Strategies

### What are Strategies?

- Strategies focus on addressing specific emphasis areas.
- Consider contributing factors
- Reflect strategies employing the 4 E's.
- Address high-priority corridors or locations

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## Step 5: Prioritize and Incorporate Strategies



Curve Chevrons



Curve Warning Sign  
With Advisory Speed



Edgeline Rumble Strips



Roadway Safety Edge

### Engineering:

- Implementation of Engineering Countermeasures  
Incorporation of road safety countermeasures into Capital Road Improvement Projects and Road Maintenance Projects - in progress
- Road Safety Engineering Projects Underway
  - Systemic Safety Curve Warning Sign Project
  - Mono County Guardrail Replacement Phase 1
  - Mono County Right-Edgeline Project
  - Benton Crossing Road Safety Assessment / Realignment of Wild Willy's Hot Tub Access Rd
  - June Lake Village Pedestrian Safety Project

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# Step 5: Prioritize and Incorporate Strategies

## Engineering: (continued)

- Traffic Data Collection / Speed Management Plans for our Communities  
Data collection, Engineered Speed & Traffic Studies for specific roads and communities, collection of road horizontal and vertical geometry, etc.  
- in progress
- Engineering / Road Dept.  
Implementation of roadside messaging trailer with anti-speeding message and traffic data collector to slow down traffic at locations throughout the County - in progress
- Road Safety Hazard Location and Notification System (Partnership with TOML)  
The engineering dept is working with IT to develop an online GIS map-based system where the public can click a location on a map to identify existing road hazards, and the Road Dept / Engineering / TOML will be notified via email in real time – in progress

# Questions?

Your input is an important part of the plan to make our roads safer!

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What road safety issues have you experienced in your community?

What emphasis areas are most relevant to your community?

Are there road safety concerns not present in the data?



Take the Road Safety Survey located at: <https://monocounty.ca.gov/roads>