



Florida Work Zone Database



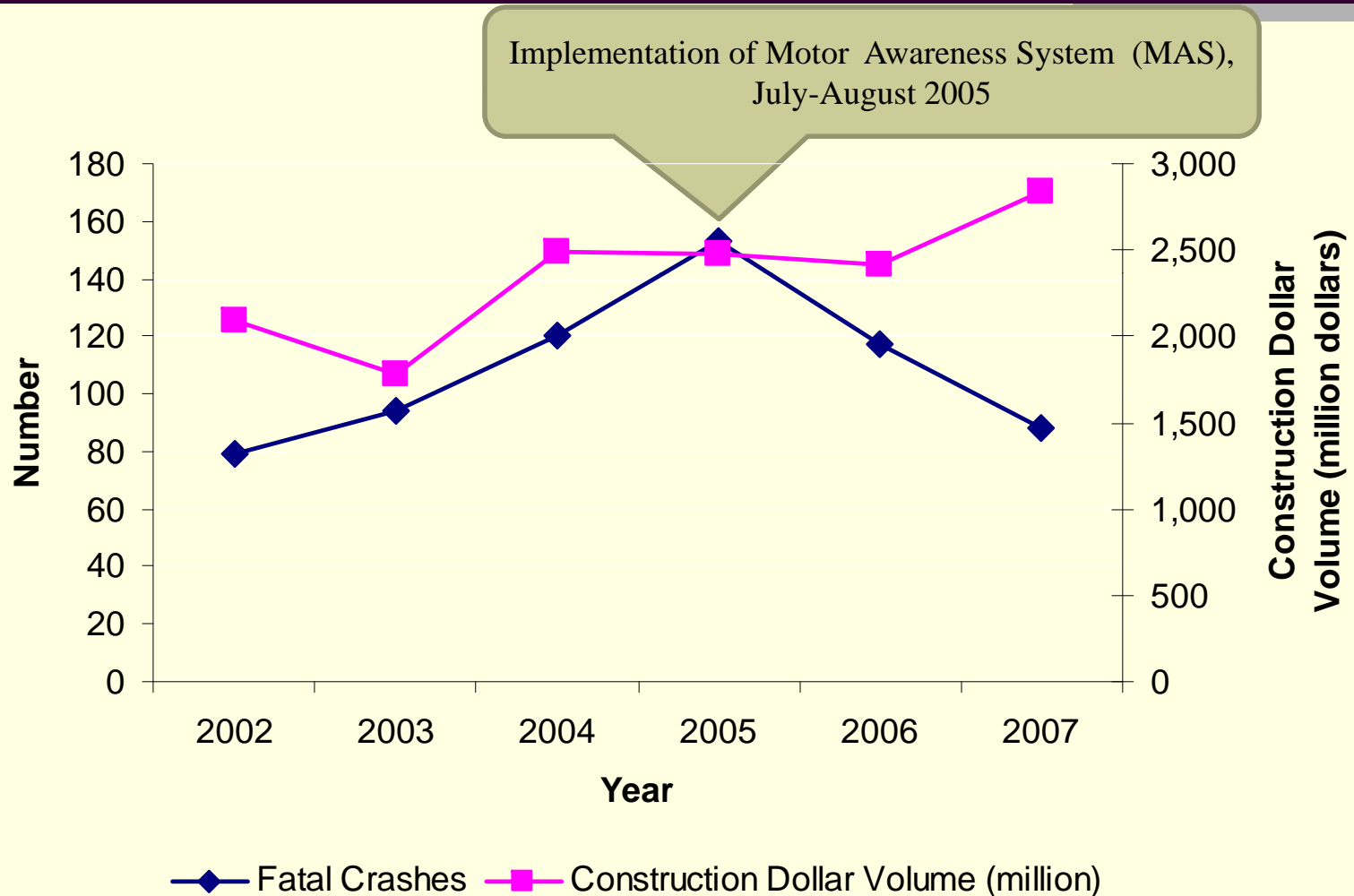
Florida DOT
University of South Florida

Outline

- Trend Analysis
- Distribution Analysis
- Injury Severity Analysis
- Work Zone Safety Analysis Application

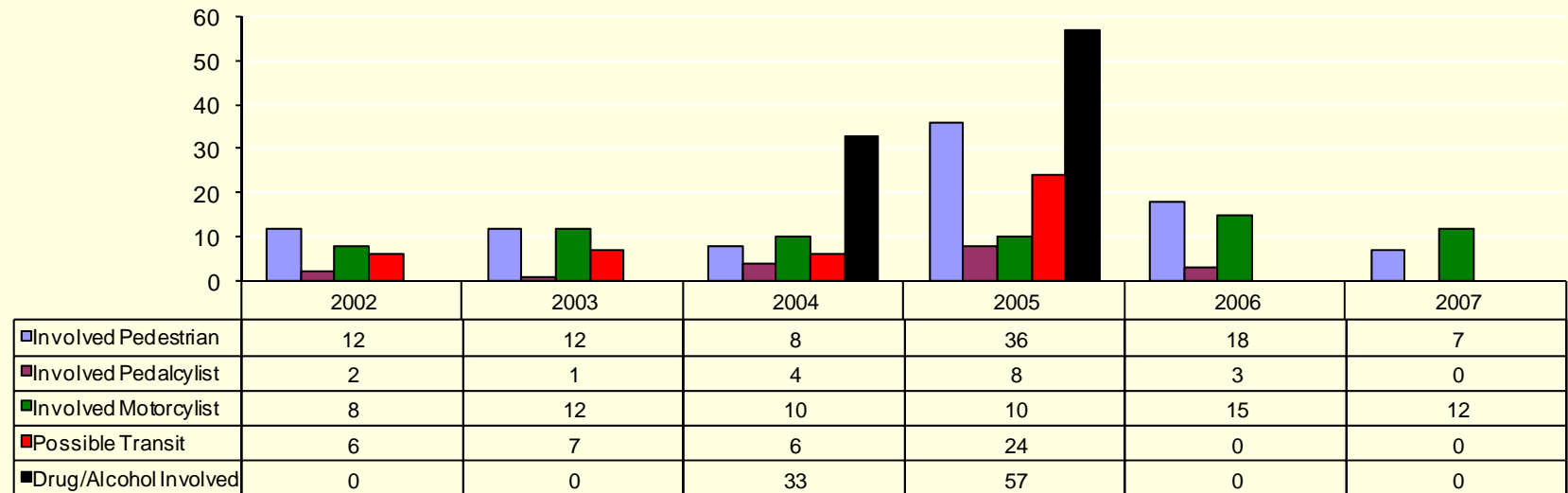
Trend Analysis

Construction Dollar Volume and Fatal Crashes



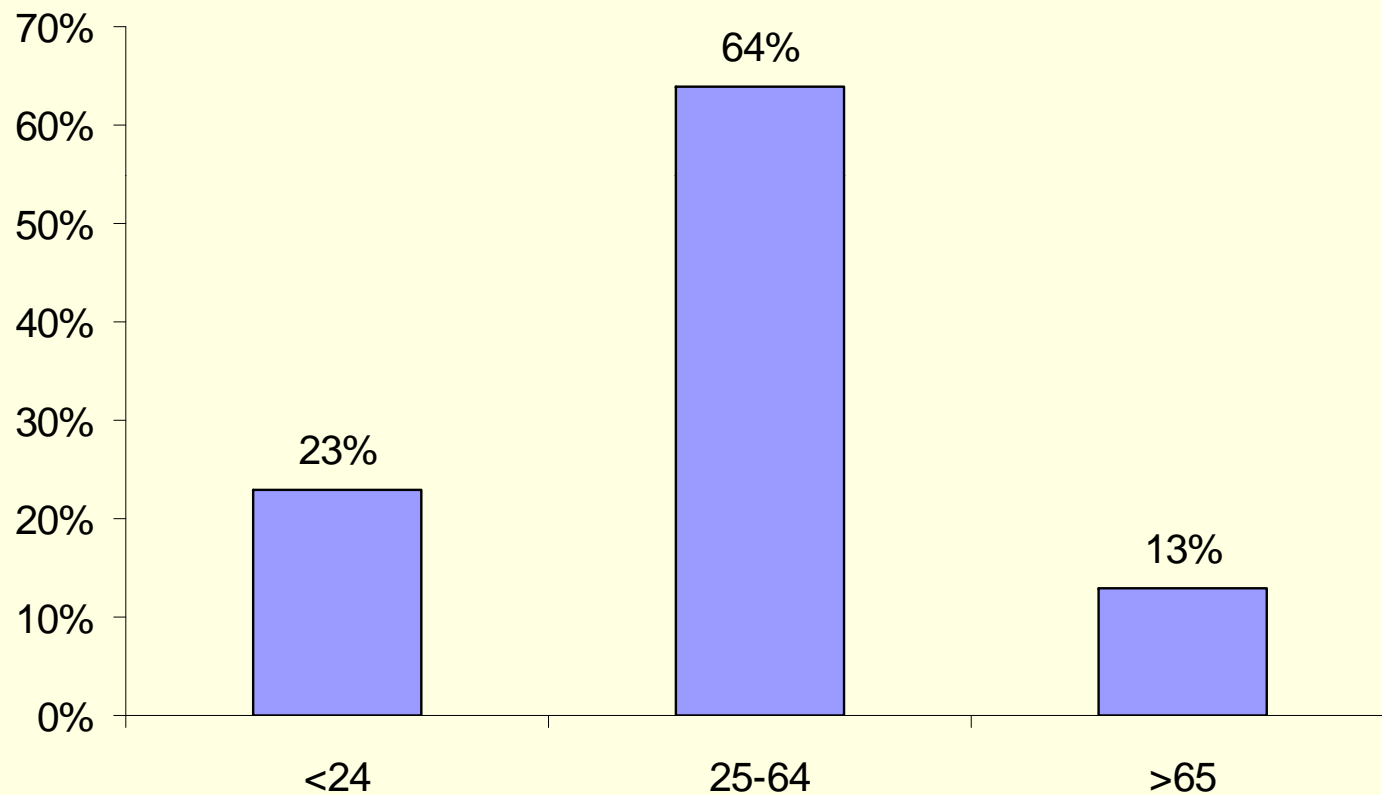
Trend Analysis

Pedestrian, Pedalclist, Motorcyclist, Transit and Drug/Alcohol



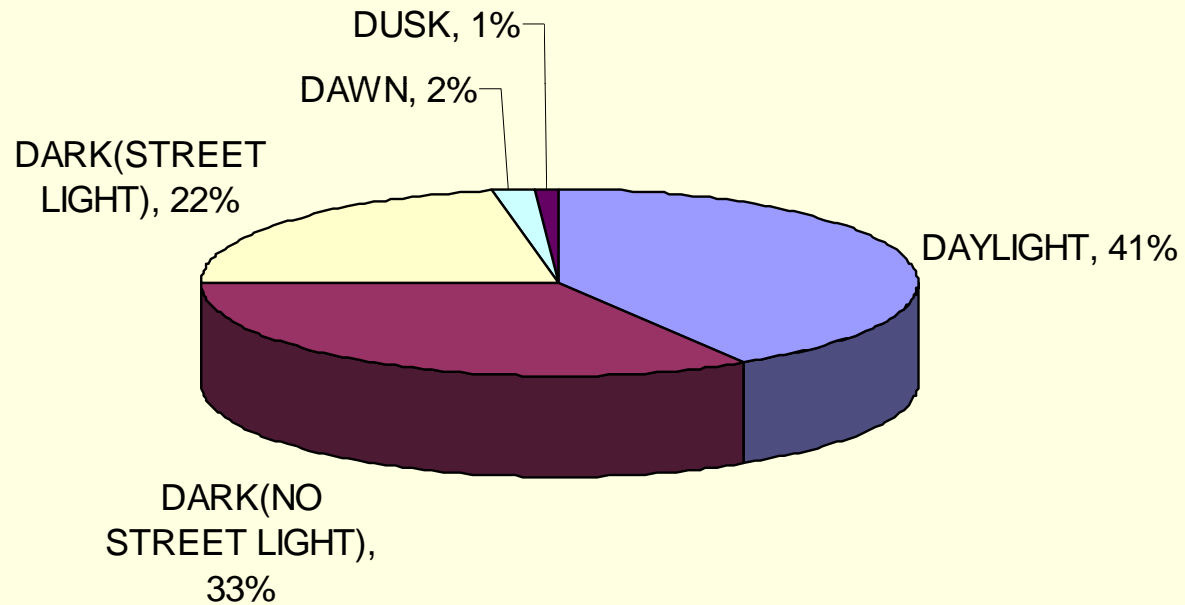
Distribution Analysis

Fatal Crashes by Age Groups (at fault)



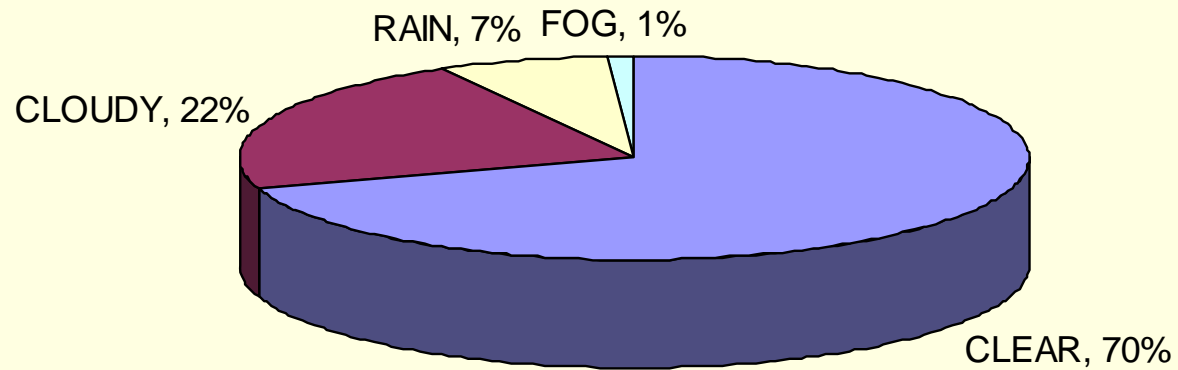
Distribution Analysis

Fatal Crashes by Light Conditions



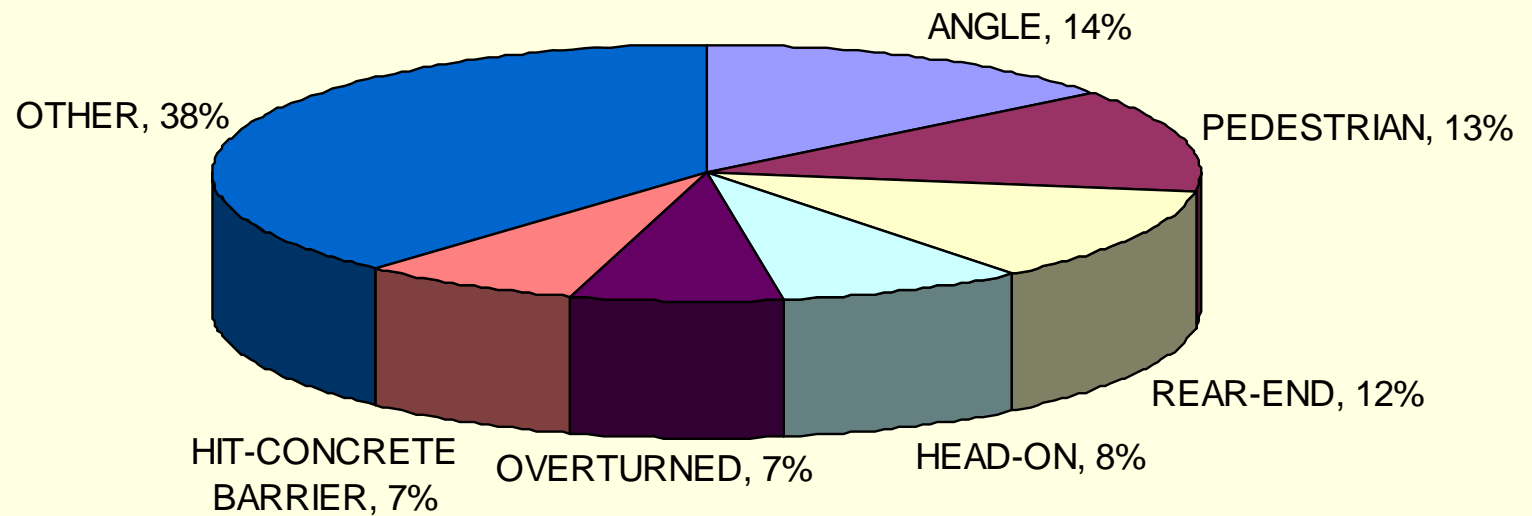
Distribution Analysis

Fatal Crashes by Weather Conditions



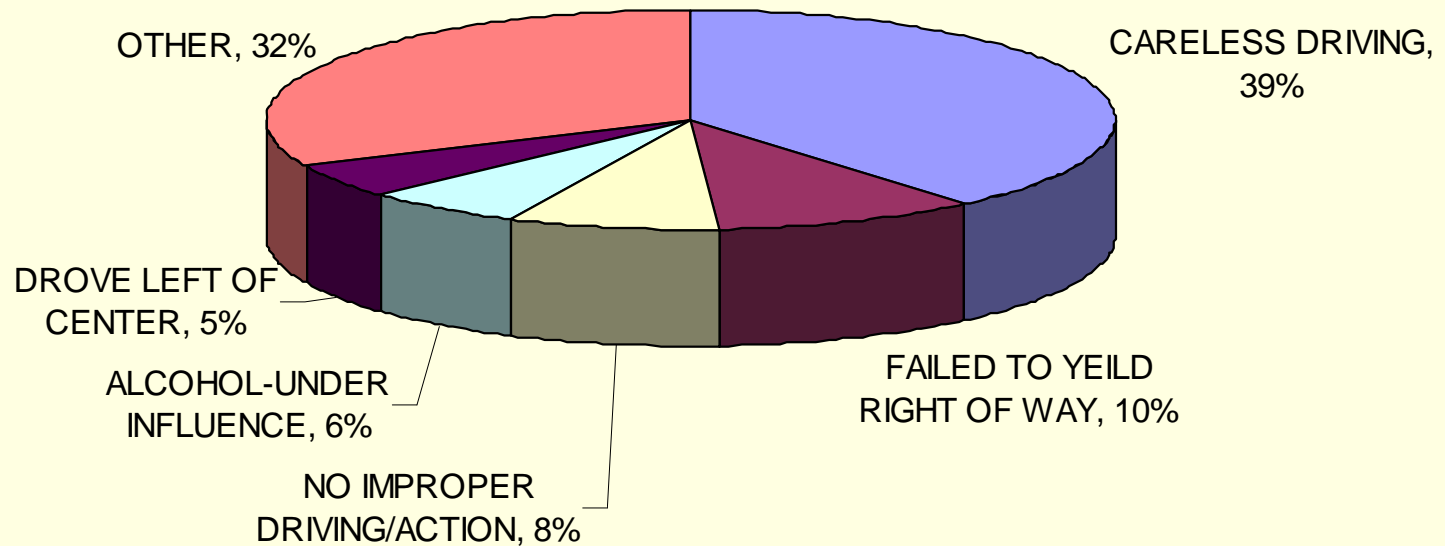
Distribution Analysis

Fatal Crashes by Crash Types



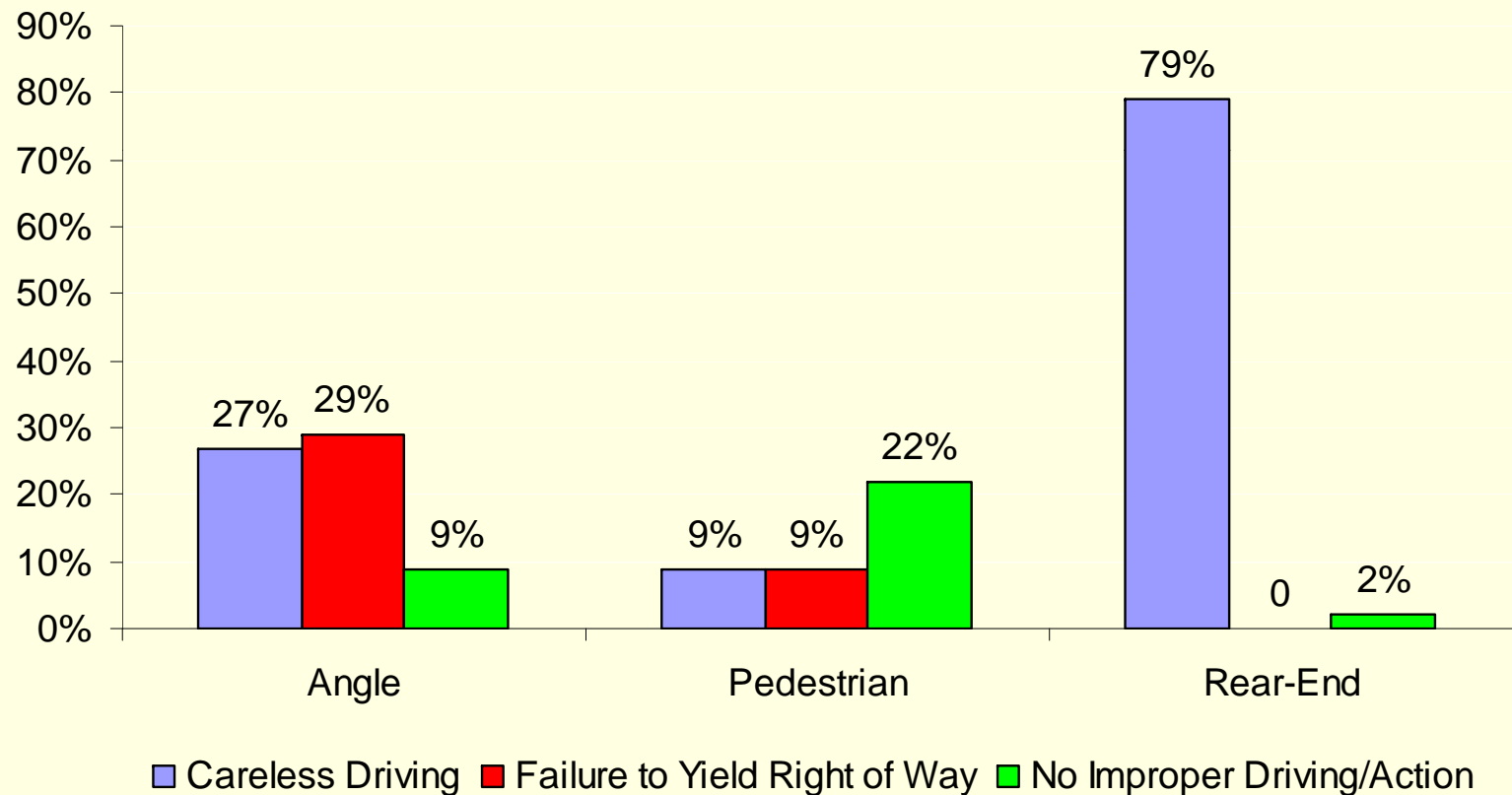
Distribution Analysis

Fatal Crashes by Contributing Factors



Distribution Analysis

Predominant Contributing Factors for Crash Types



Injury Severity Analysis

- The following Factors are more likely to **reduce** the injury severity
 - **Good Light Condition**
 - **Crash Location in Urban Areas or in Freeways**
- The following Factors tend to **increase** the injury severity
 - **Curved and Graded geometric design**
 - **Vision obstruction**
 - **High speed**
 - **Alcohol or Drugs involved**
- Age Group
 - **Young and old drivers** tend to result in severe injury work zone crashes.

Work Zone Safety Analysis Tool

- An web-based integrated work zone safety analysis tool
 - Developed by Construction Office, FDOT
 - To integrate all relevant work zone fatal crash data from various data sources
 - To provide safety analysis functions to address traffic safety problems at work zones and to identify relevant contributing factors



FLORIDA DEPARTMENT OF TRANSPORTATION

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WORK ZONE CRASH DATABASE

Query

Analysis

Update

Manage

Data Integration

- Data Sources

- Cash Analysis Report (CAR)

- 3 Levels, 86 Variables

- Safety Summary Report

- 15 Variables

- MOT Form

- 18 Variables

- Data Match

- Crash ID – An unique number to identify crash record in CAR


- If not available, Matching Algorithm based on Time and Location

Analysis of Safety Performance

- To assist engineers to find safety problem at work zones
- Trend Analysis
- Comparison of Work Zone Crash with Non-Work Zone
- Contributing Causes Analysis

Comparison of Work Zone Crash with Non-Work Zone

- To compare work zone crashes with non-work zone crashes to investigate the specific characteristics of work zone fatal crashes



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WORK ZONE CRASH DATABASE

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Comparison of Work Zone with Non-Work Zone

Step 1 - Select a Level
VEHICLE ▾

Step 2 - Select a Variable
HARMEVN1_AT_FAULT ▾

FIRST EVENT CAUSE CODE

Step 3 - Select a Period
From Jan ▾ 01 ▾ 2002 ▾
To Dec ▾ 31 ▾ 2005 ▾

Step 4 - State Display Range
All Variables with difference (WZ vs Non-WZ) over 1.5 %
All Contributing Causes (WZ) with proportion over 5 %

Step 5 - Select Display Order of Contributing Causes
 based on proportion of contributing causes (WZ)
 based on difference of causes (WZ vs non-WZ)

Submit



Summary Report Data Input

Review Data

1. Crash # (9 digits):	<input type="text"/>	2. Date of Crash:	Jan ▾ 01 ▾ 2002 ▾
3. Time of Crash:	00 ▾ (hh) 00 ▾ (mm) AM ▾	4. State Road #:	<input type="text"/>
5. District:	0 ▾	6. County:	Unkown ▾ 0
7. DOT Form:	<input type="checkbox"/> Yes	8. Impact of WZ:	Clearly WZ Related ▾
9. Lane of Closures:	Unknown ▾	10. Harmful Event:	Unknown ▾
11. Contributing Cause:	Unknow ▾	12. Utility Work:	<input type="checkbox"/> Yes
13. Reconciliation Fields between National Database (FARS) and DOT database (CAR):	Unknow ▾		
14. Explanation:	<input type="text"/>		
15. Description:	<input type="text"/>		

Submit Clear



MOT DATA INPUT

I - Crash Identification

1. Crash # :

2. Date of Crash : · ·

3. Time of Crash : · ·

4. SR # :

5. District # :

6. County : · (ID) 1

7. MP : ·

8. Section # :

9. Fin Project # :

II - MOT Evaluation Fields

10. Check if fatality occurs within 30 days

11. Work Zone Location of Crash :

12. Have there been other crashes in the vicinity of work zone?

Yes

1. · ·

2. · ·

3. · ·

4. · ·

13. Are there any recommended enhancements to the MOT at the crash site?



End

