

# **WORK ZONE ANALYSIS**

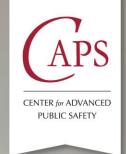
For questions of comments, contact:

Dr. David B. Brown

brown@cs.ua.edu



# **General Extent of the Problem**

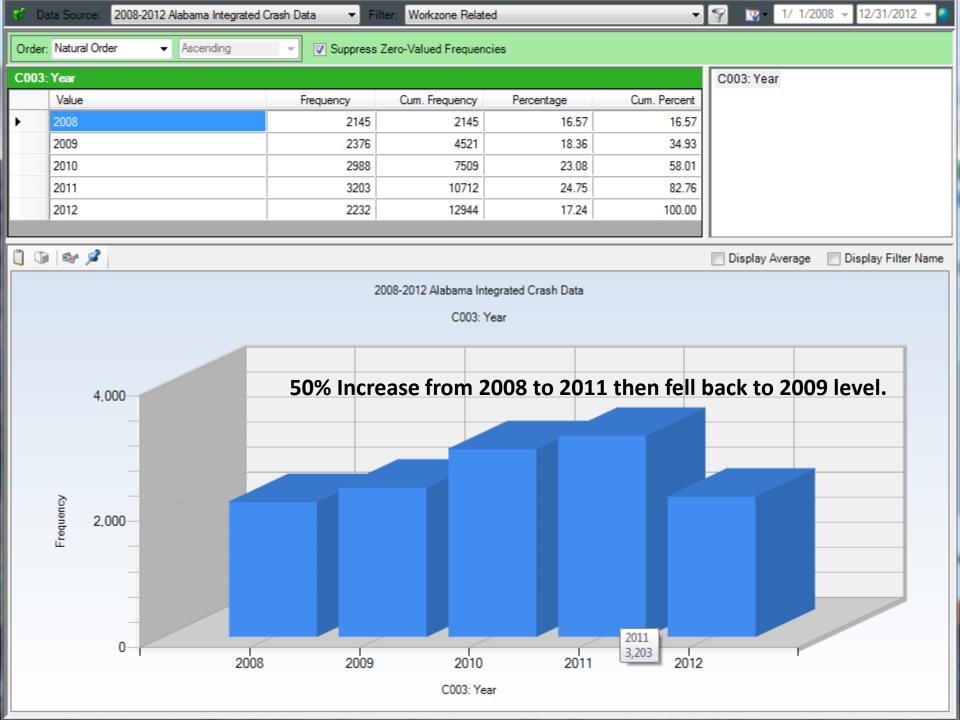


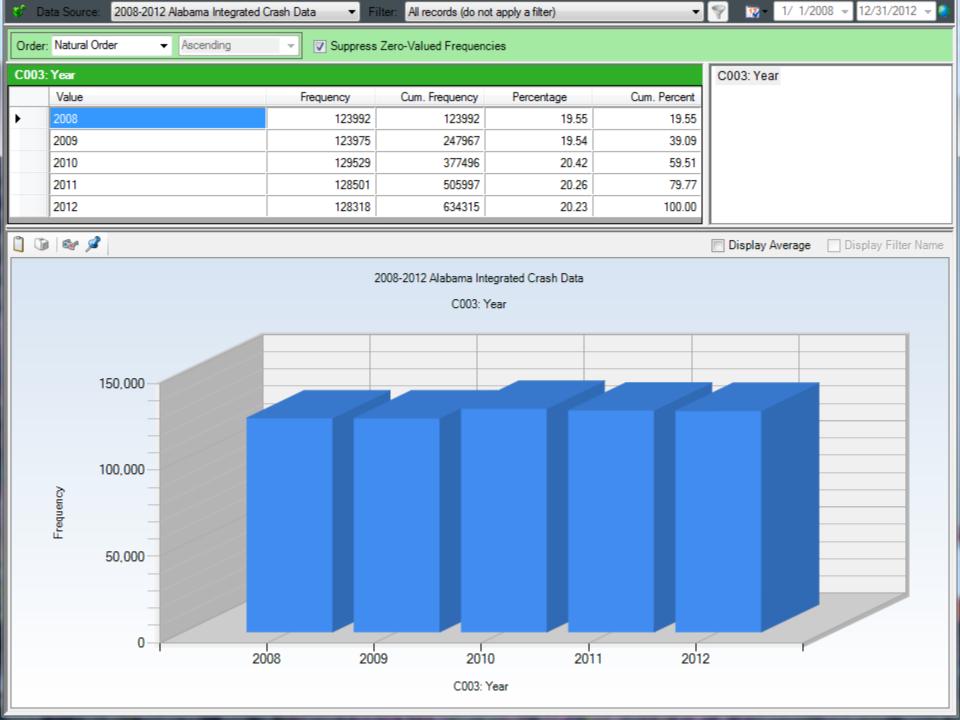
#### **Five-Year Trend**

#### TRUE or FALSE:

Over the past five years (2008-2012) the number of work zone crashes increase by 50%.

The overall number of crashes has remained relative stable.





## "OVER-REPRESENTATED"

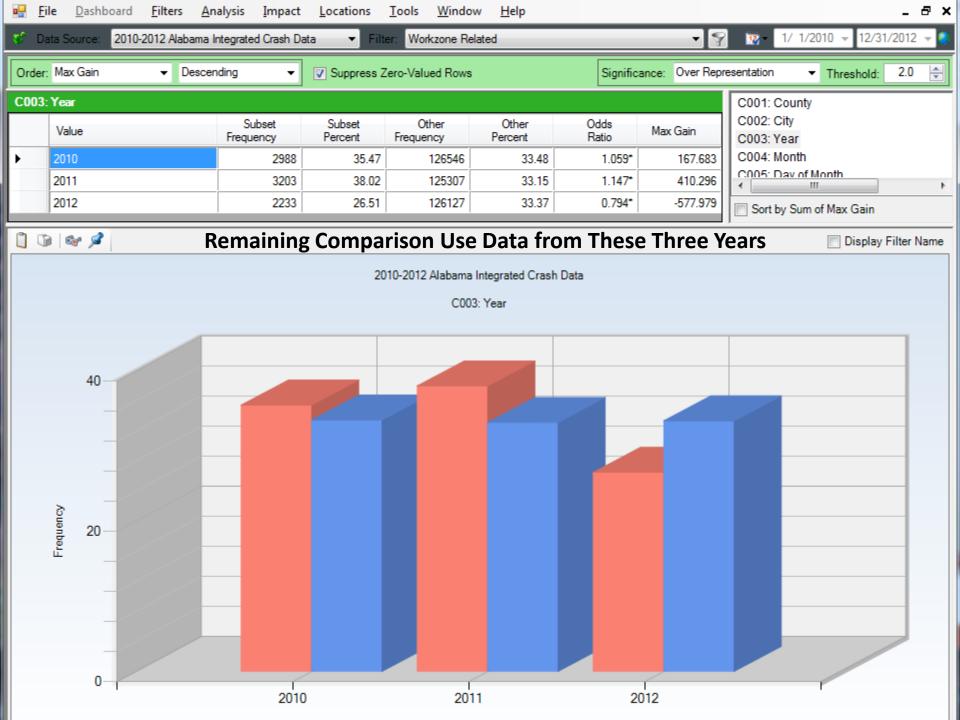


Over-represented means that the probability of the attribute value is significantly higher than expected when compared (in this case) to crashes not related to WZs.

In the following graph, year 2011 is over-represented in WZ crashes (by about 15%).

**Red = WZ Involved Crashes** 

Blue = Crashes that Did Not Involve WZ



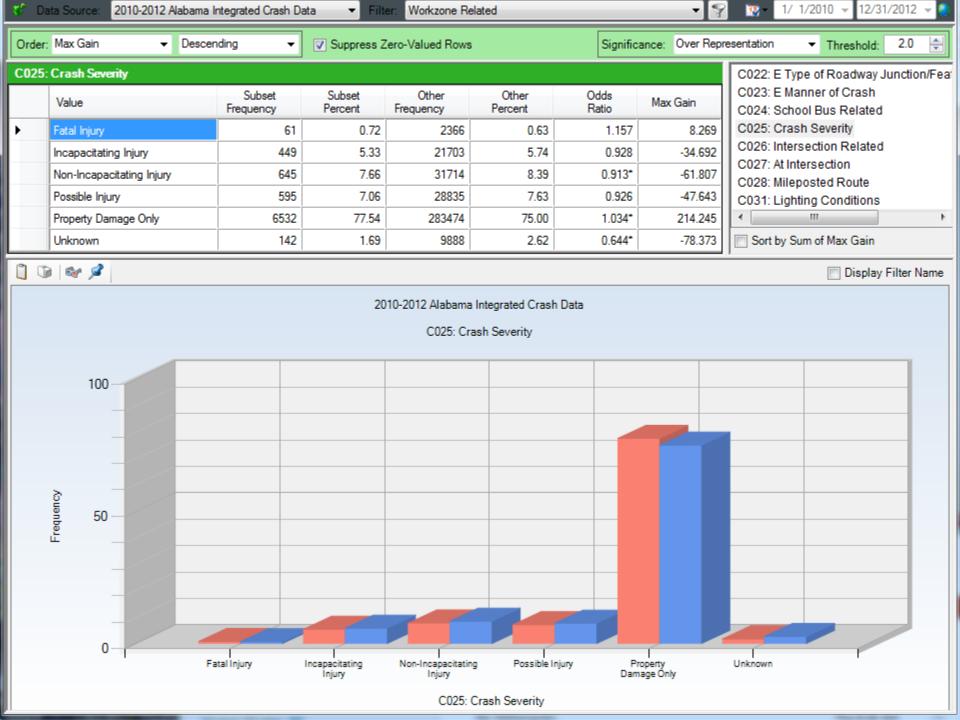
# **General Extent of the Problem**Severity



#### TRUE or FALSE

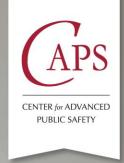
WZ involved crashes produce about 15% more fatal crashes than those non-WZ.

- Red = WZ Involved Crashes
- Blue = Crashes that Did Not Involve WZ



# **Work Zone Type**

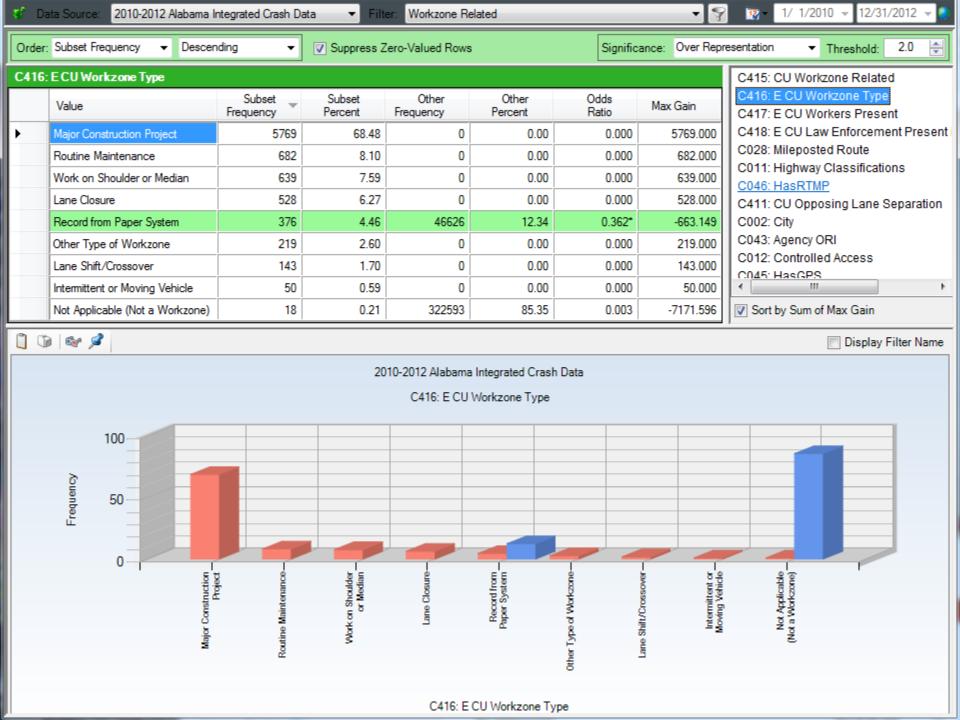
#### **Activity in Workzone**



# TRUE or FALSE

The vast majority of WZ crashes involve major construction projects.

- Red = WZ Involved Crashes
- Blue = Crashes that Did Not Involve WZ



# **Workers Present**

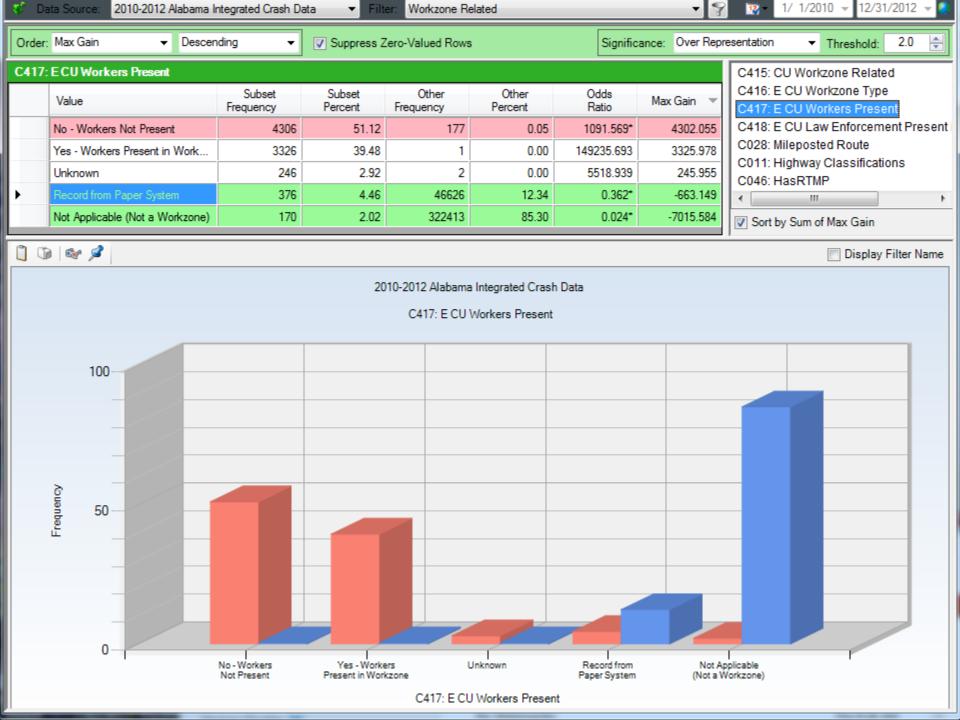
# **Activity in Workzone**



## **TRUE or FALSE**

Workers were not present in about 50% of the WZ crashes.

- Red = WZ Involved Crashes
- Blue = Crashes that Did Not Involve WZ



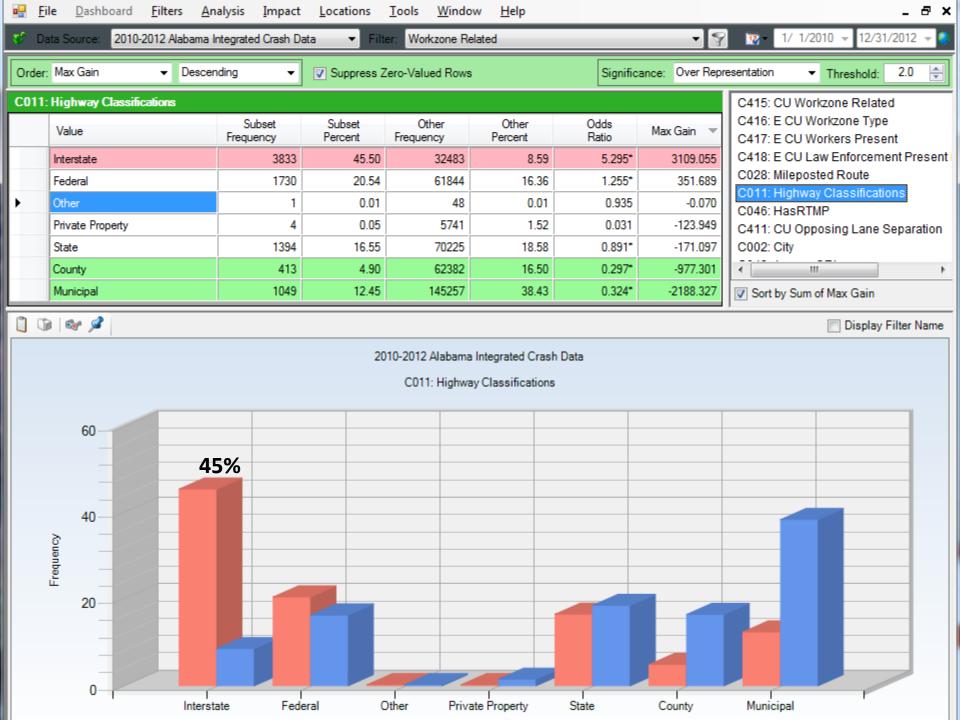




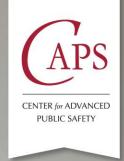
# **TRUE or FALSE**

Less that 20% of WZ crashes involved Interstate highways.

- Red = WZ Involved Crashes
- Blue = Crashes that Did Not Involve WZ



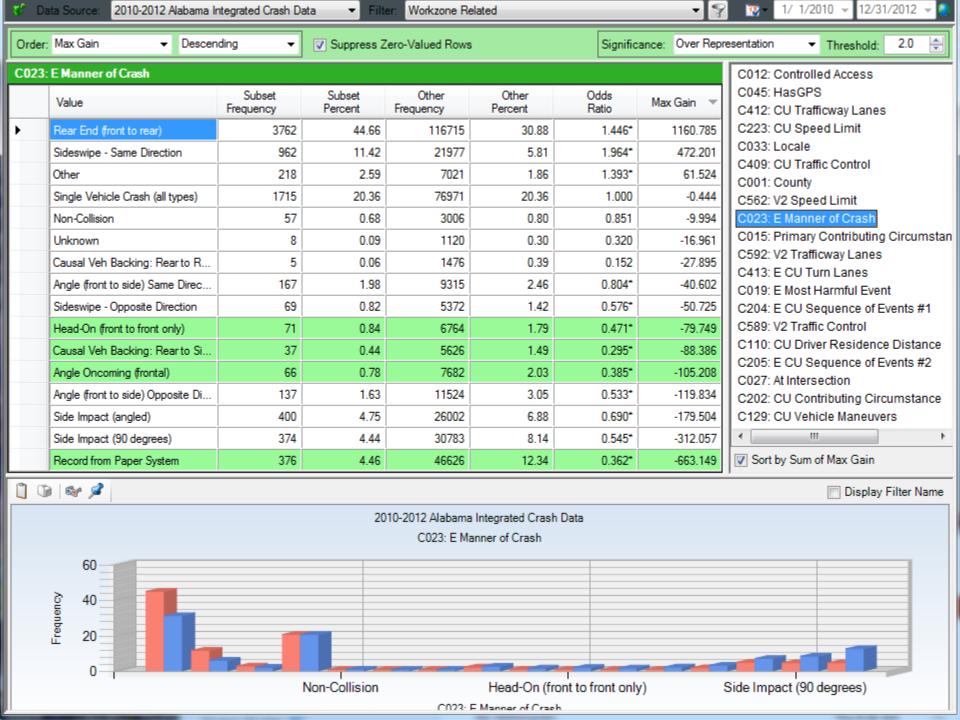
# **Crash Type**Manner of Crash

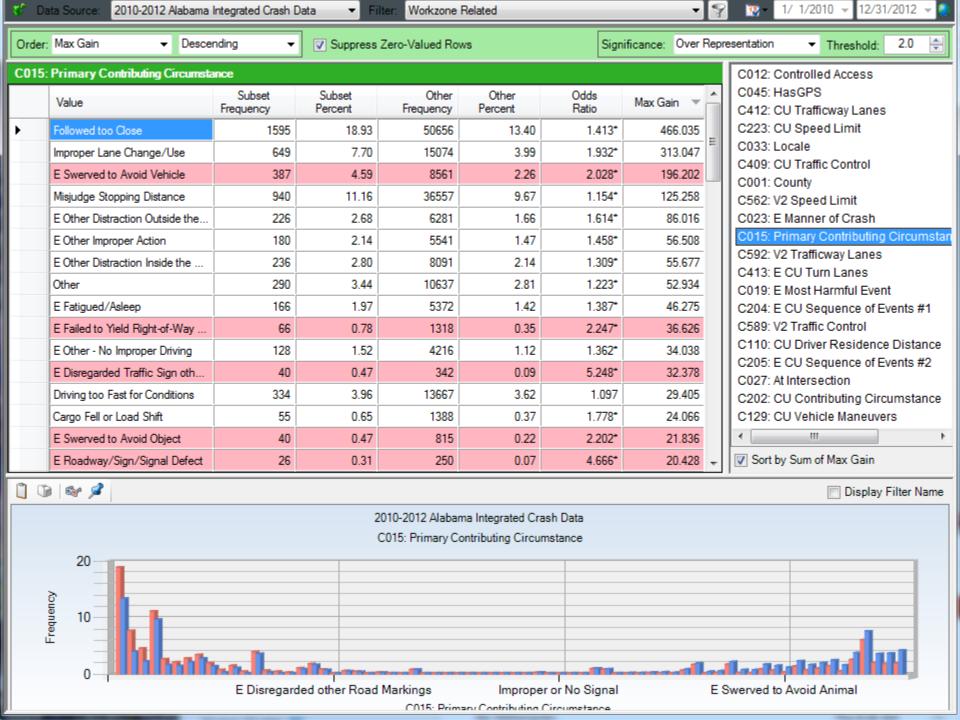


# **TRUE or FALSE**

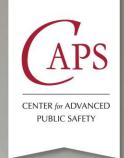
The largest proportion of WZ crashes are rear-ends caused by following too close.

- Red = WZ Involved Crashes
- Blue = Crashes that Did Not Involve WZ





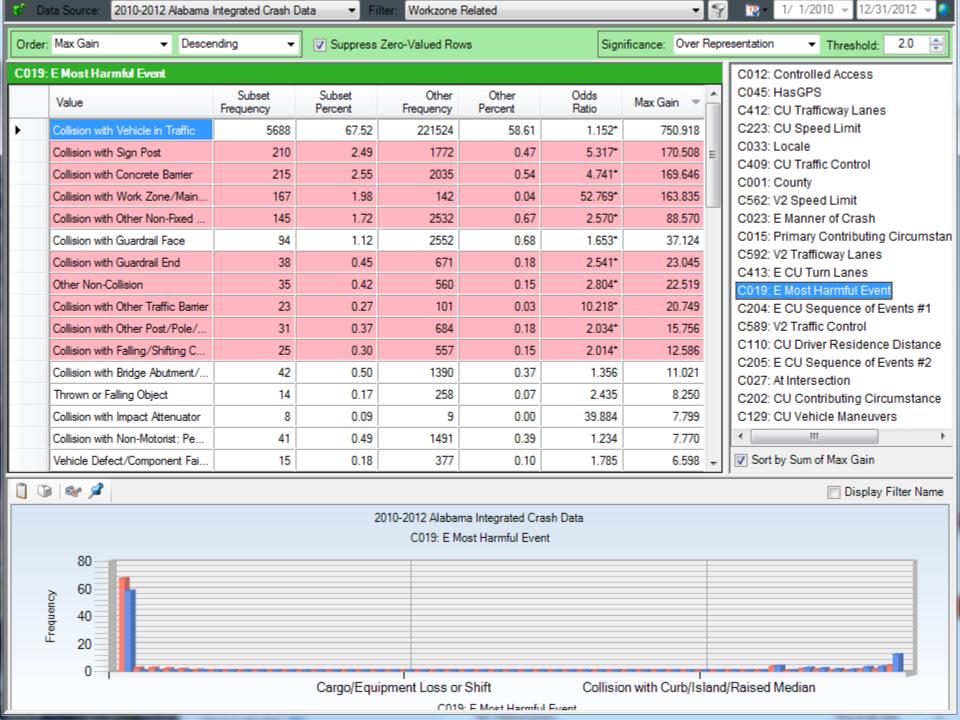
# Crash Type Most Harmful Event



# **TRUE or FALSE**

Most WZ crashes involve two or more vehicles and do not involve obstacles in the work zone.

- Red = WZ Involved Crashes
- Blue = Crashes that Did Not Involve WZ





# Thank you for your concern for traffic safety and For observing speed limits in work zones