



2010-2019 Crash Data

Data for the Annual Crash Report

Presented to: Transportation Commission, 7/15/2020

Presented by: Cynthia Redinger, PE, PTOE, RSP

Agenda

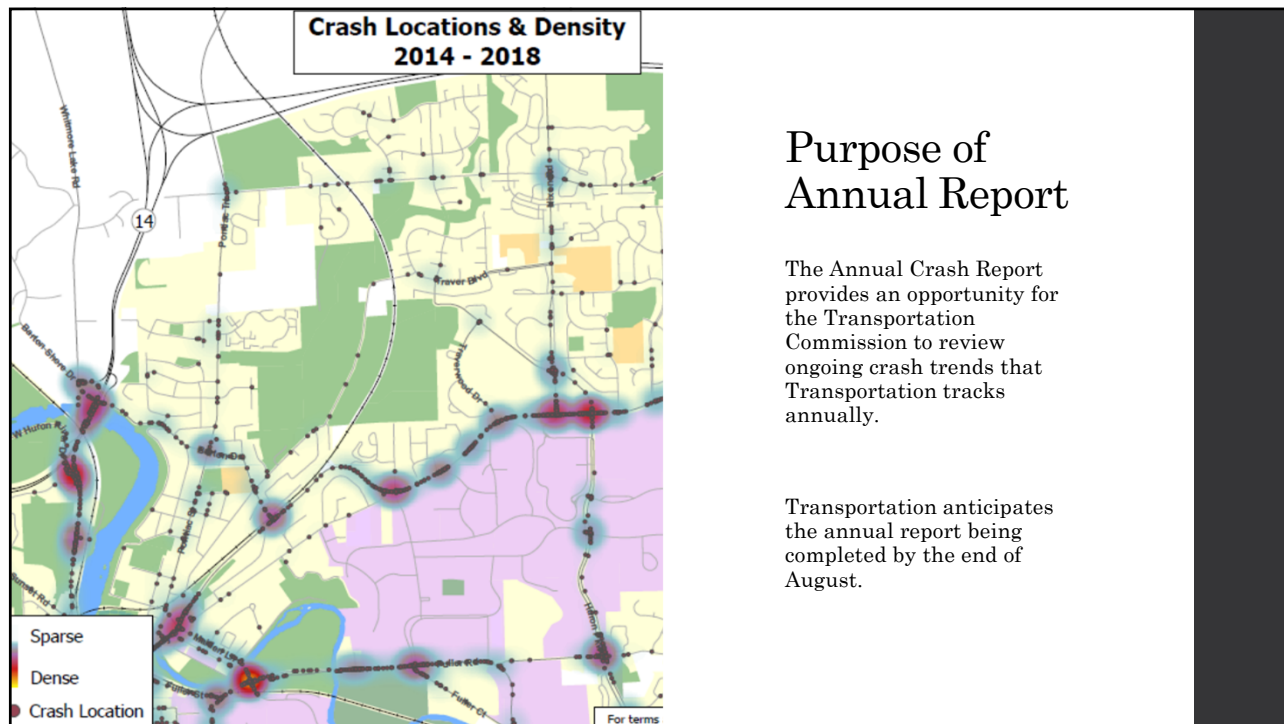
Purpose of the Annual Report

Source of data and use of information

Overview of crash data and trends for years
2010-2019

Summary of safety engineering activity over
the last year

Discussion and questions



Data Source



The data used in this report comes from the Michigan Certified Crash Data.

This data is available for viewing by the public through:

- The Office of Highway Safety Planning's (OHSP) online data tool, www.michigantrafficcrashfacts.org
- The Southeast Michigan Council of Governments (SEMCOG) Traffic Crash maps, <https://semcog.org/map-gallery>

Data were filtered to:

- Remove crashes that occurred on the freeway system or private property
- Remove animal crashes from all charts except the Animal Crash charts

A Note on Vision Zero Engineering

Engineering practice that acknowledges human error and strives to prevent serious injury crashes instead of reacting to specific events.

How?

- Use data to identify trends
- Apply proven design elements
- Address known high crash locations

A Note on 5 Year Averages

- Why focus on a rolling average for trends?

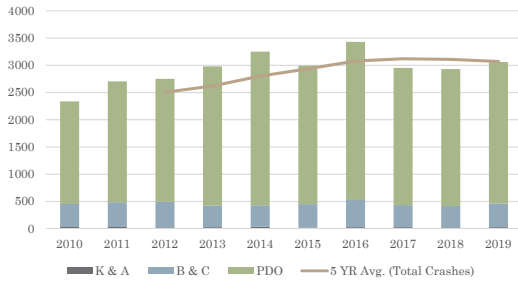
- From [FHWA](#):

“A rolling average is commonly used to smooth out short-term fluctuations in the data and highlight longer-term trends.”

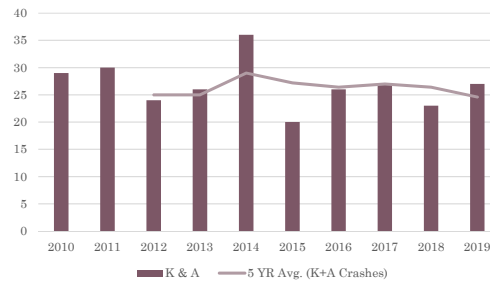


Overall & Severe Injury Crash Trends: All Crashes

Annual Crashes by Severity Group

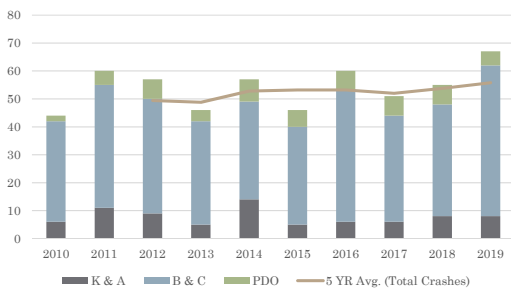


Annual K+A Crashes

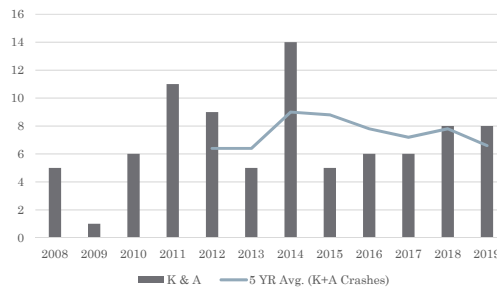


Overall & Severe Injury Crash Trends: Pedestrian Involved

Annual Pedestrian Crashes by Severity Group

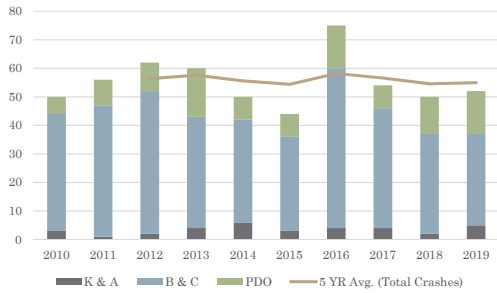


Annual Pedestrian K+A Crashes

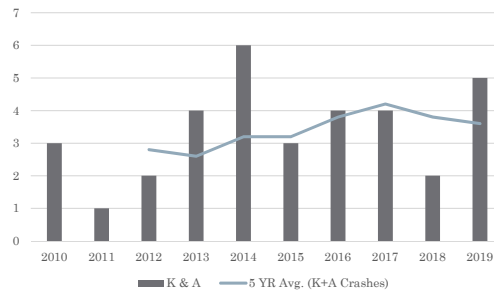


Overall & Severe Injury Crash Trends: Bicyclist Involved

Annual Bicycle Crashes by Severity Group

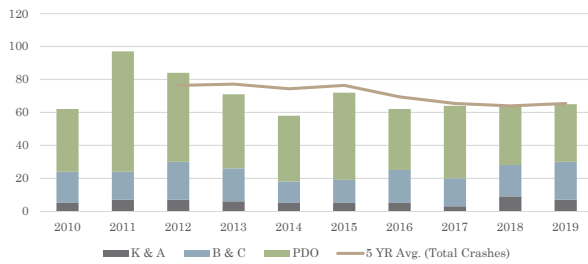


Annual Bicycle K+A Crashes

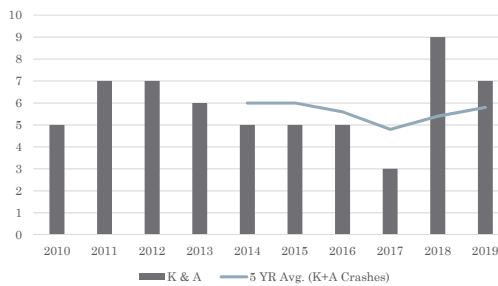


Overall & Severe Injury Crash Trends: Drinking Involved

Drinking Involved Crashes by Severity Group

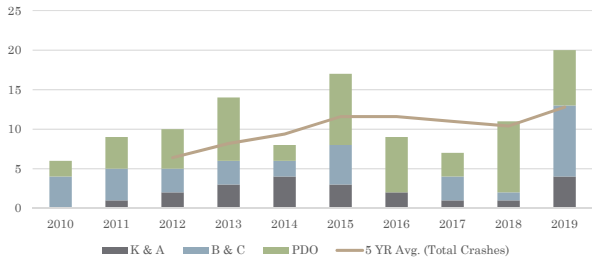


Drinking Involved Severe Injury Crashes

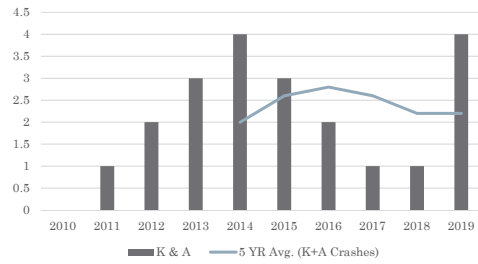


Overall & Severe Injury Crash Trends: Drugs Involved

Drug Involved Crashes by Severity Group

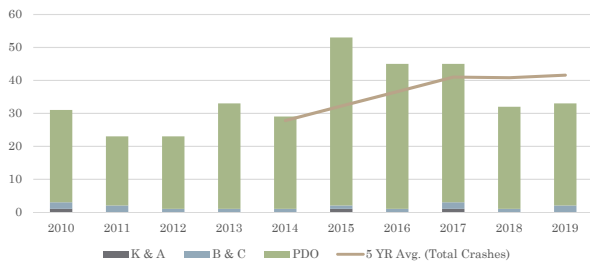


Drug Involved Severe Injury Crashes

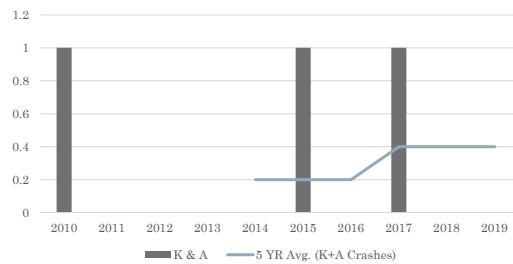


Overall & Severe Injury Crash Trends: Animal

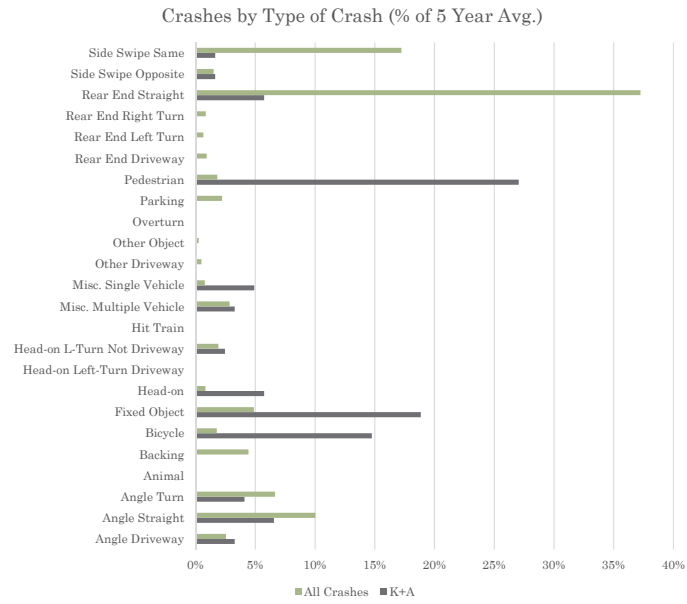
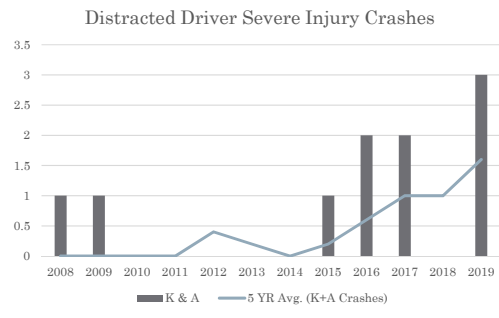
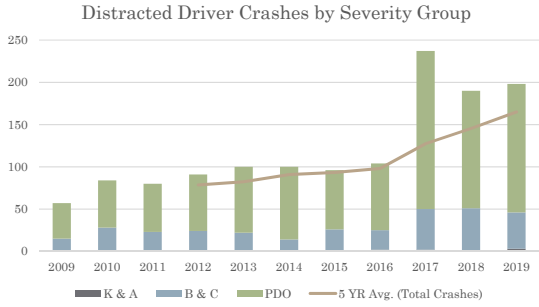
Animal Crashes by Severity Group



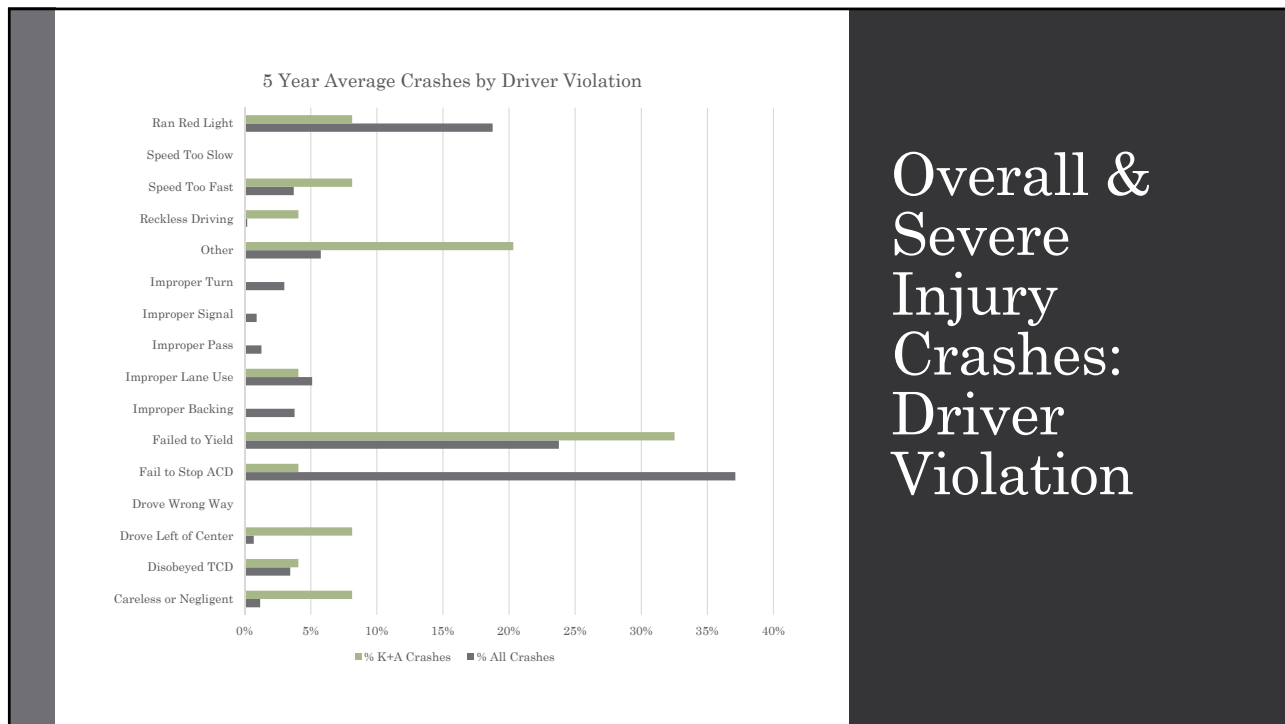
Animal Severe Injury Crashes



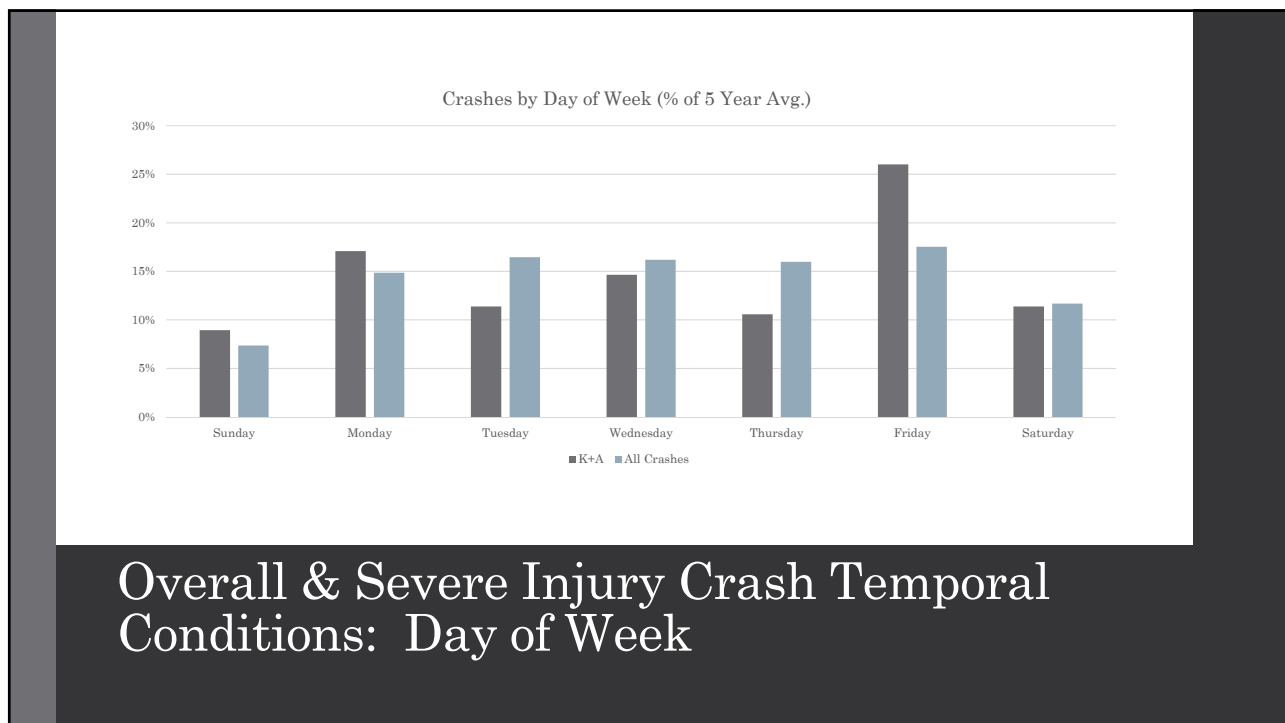
Overall & Severe Injury Crash Trends: Distracted Driver



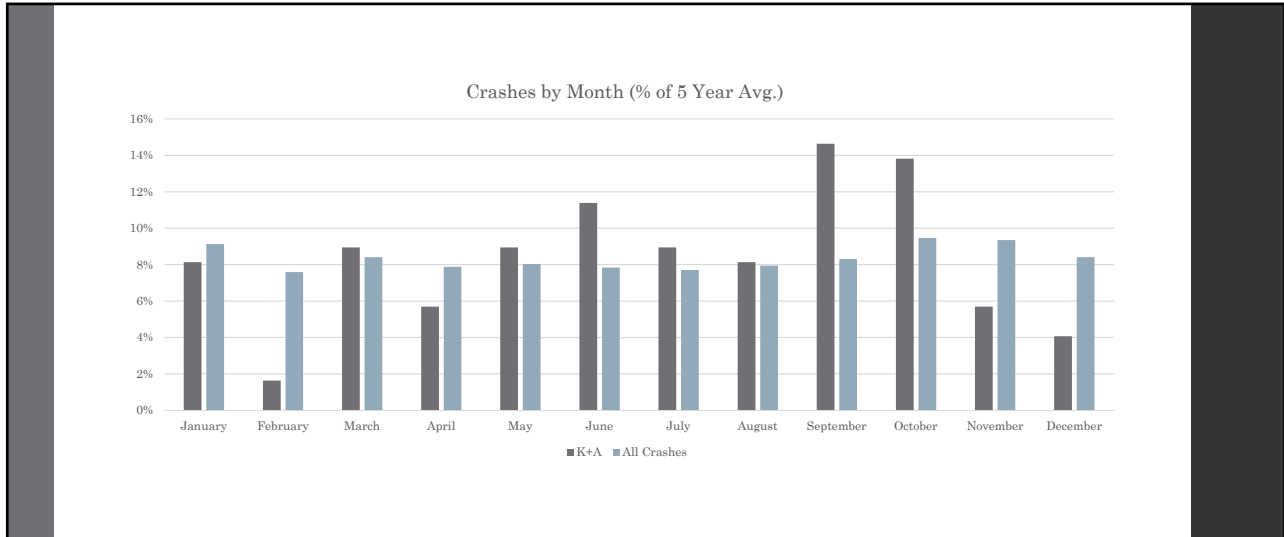
Overall & Severe Injury Crashes: Crash Types



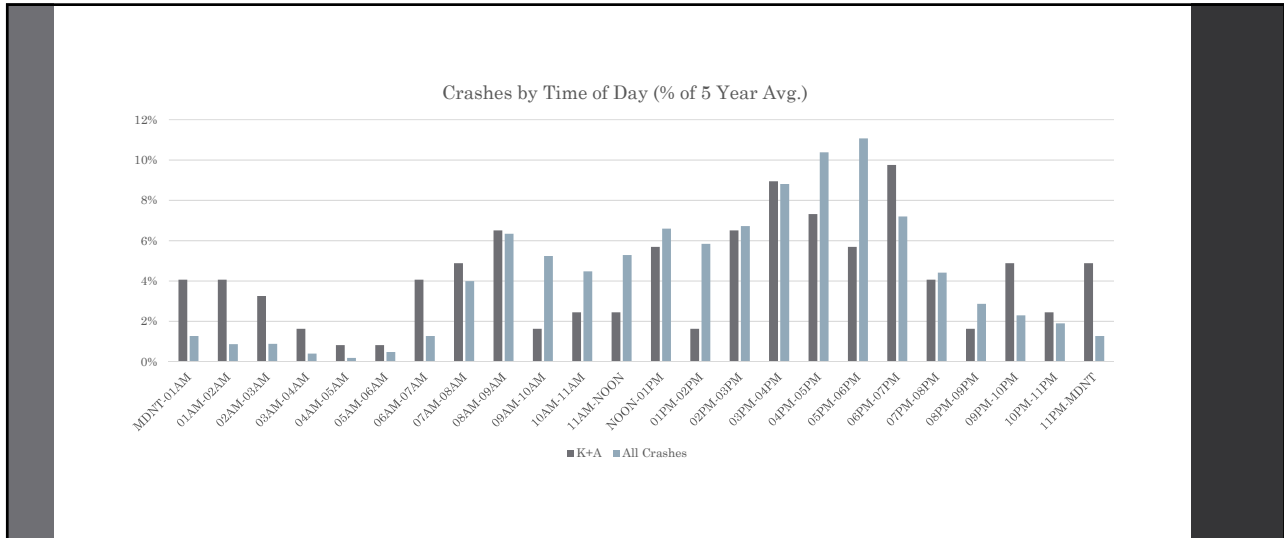
Overall & Severe Injury Crashes: Driver Violation



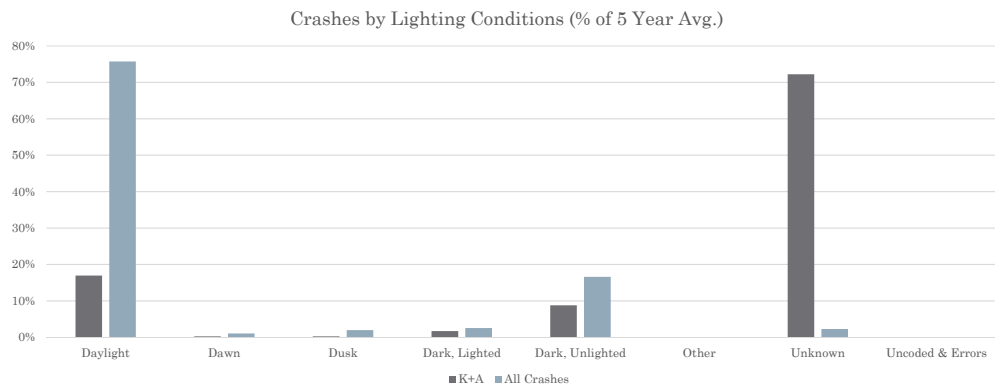
Overall & Severe Injury Crash Temporal Conditions: Day of Week



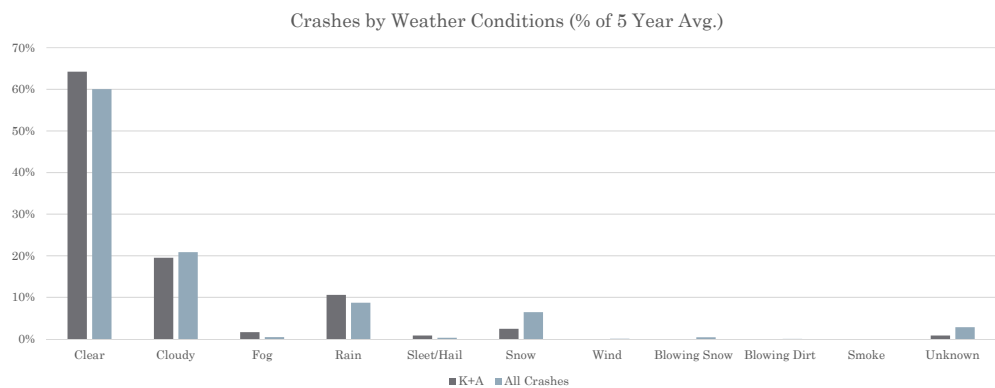
Overall & Severe Injury Crash Temporal Conditions: Month




Overall & Severe Injury Crash Temporal Conditions: Time of Day



Overall & Severe Injury Crash Temporal Conditions: Lighting Conditions



Overall & Severe Injury Crash Temporal Conditions: Weather Conditions

 <p>In-street pedestrian signs</p> <p>FHWA Steps program invitation to present at peer-to-peer exchange</p> <p>Cost comparison to RRFs</p>	<h1>Activity Updates</h1>
 <p>Broad application of Leading Pedestrian Intervals (LPI)</p>	
 <p>Asked to host MDOT's Training Wheels Course to showcase bicycling infrastructure</p>	

Discussion & Questions

