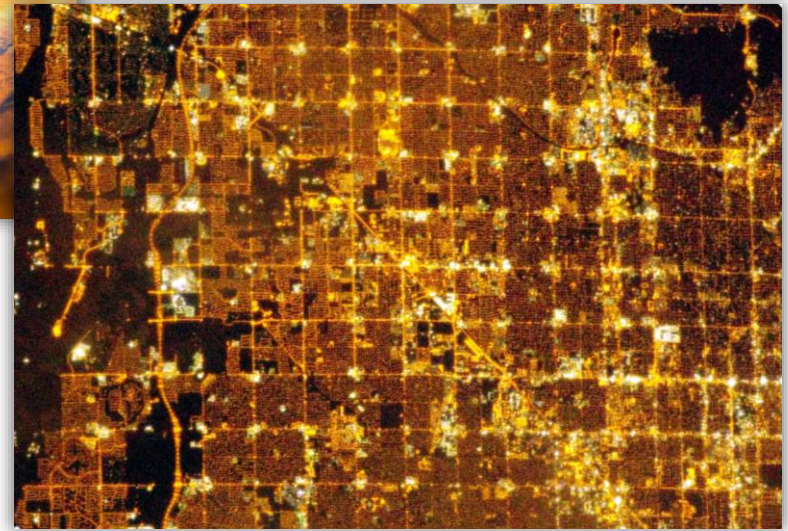
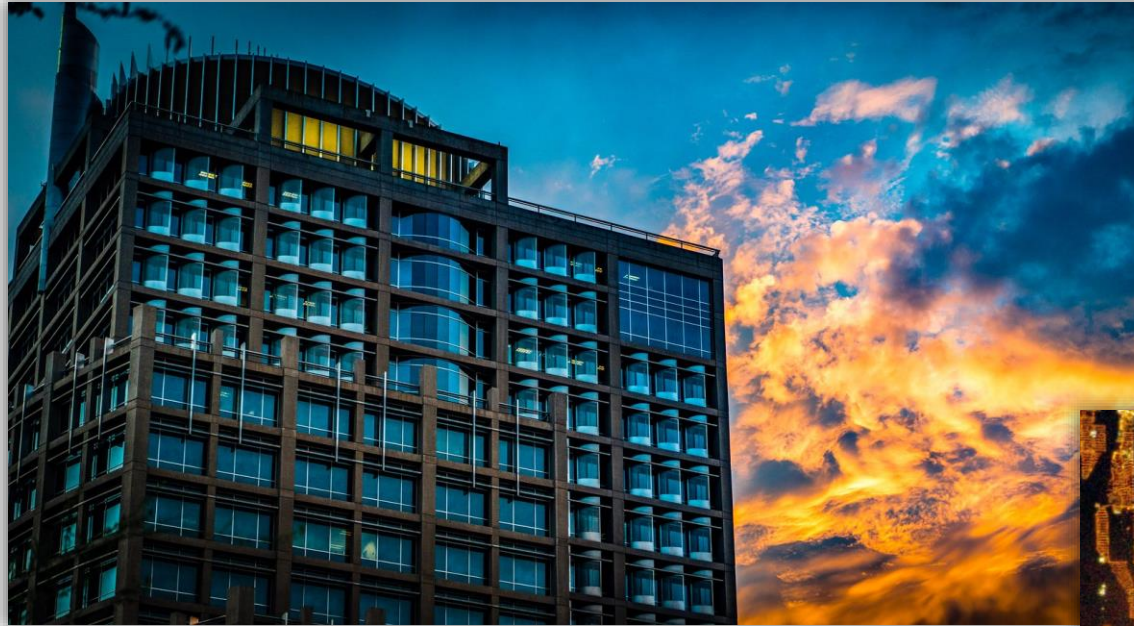


# 2020 Comprehensive Traffic Collision Summary



TRAFFIC SERVICES DIVISION

APRIL 2022

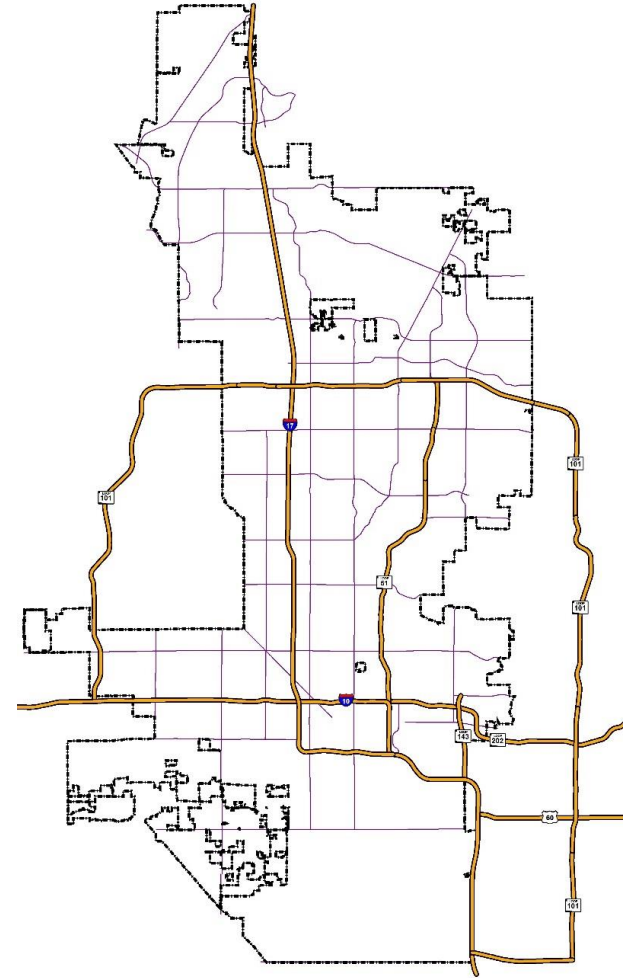
# Table of Contents

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❖ <a href="#"><u>Number/Severity of Crashes</u></a>	<a href="#"><u>4</u></a>
❖ <a href="#"><u>When Do Collisions Occur</u></a>	<a href="#"><u>14</u></a>
❖ <a href="#"><u>How Do Collisions Occur</u></a>	<a href="#"><u>18</u></a>
❖ <a href="#"><u>Motorcyclist Collisions</u></a>	<a href="#"><u>28</u></a>
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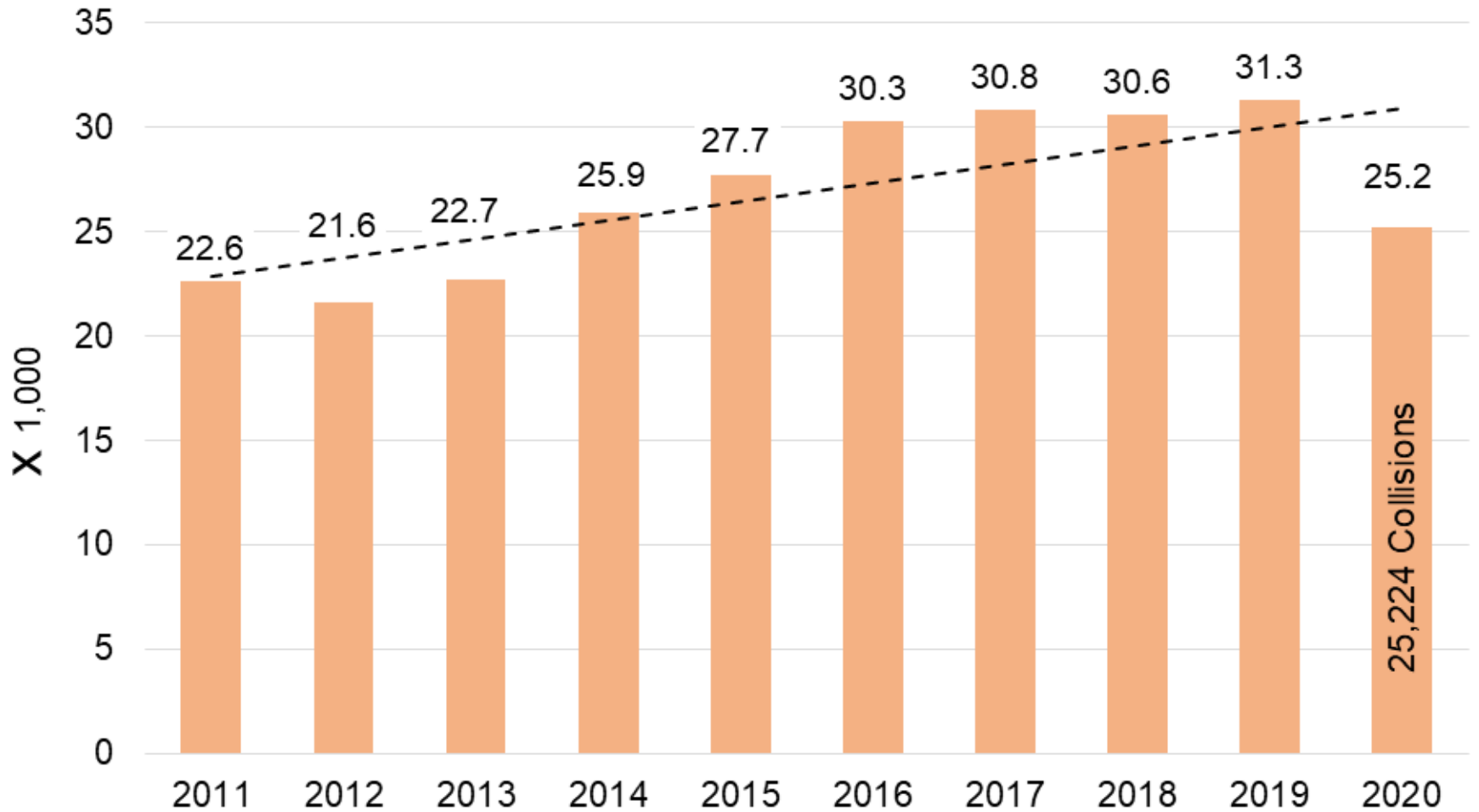
# This is an overview of the crash data for the City of Phoenix during 2020:

## 2020 Facts-at-a-Glance

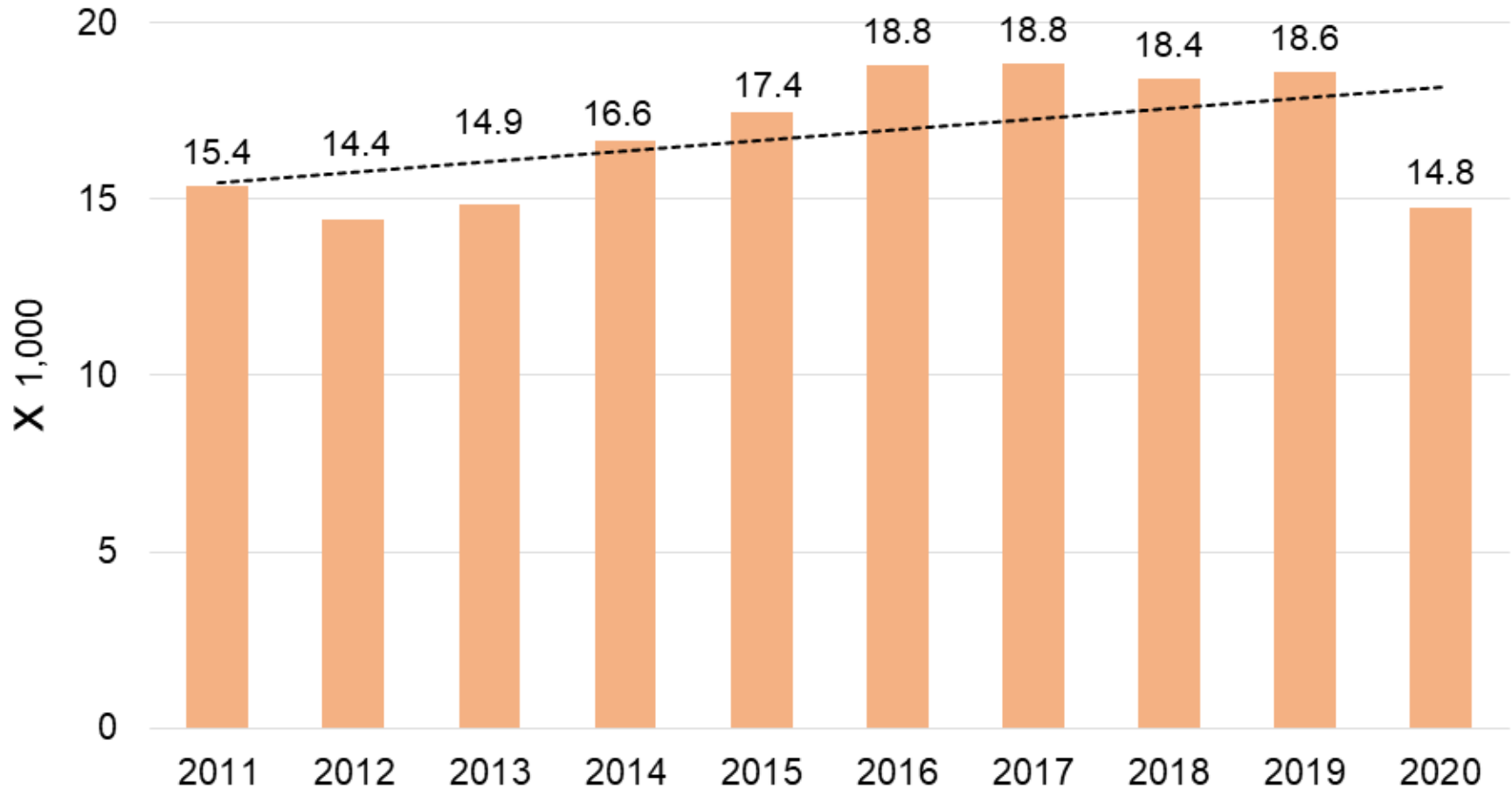
- Total of 25,224 collisions resulting in 9,173 injuries and 185 fatalities.
- Seventy-eight percent of all crashes were either rear end, left turn, angle or single vehicle.
- Continuing the downward trend for pedestrian collisions, 2020 fell to the lowest number of pedestrian collisions in five years at 560 incidents. These crashes resulted in 495 injury collisions and 65 fatal collisions.



# Annual Collision Trend

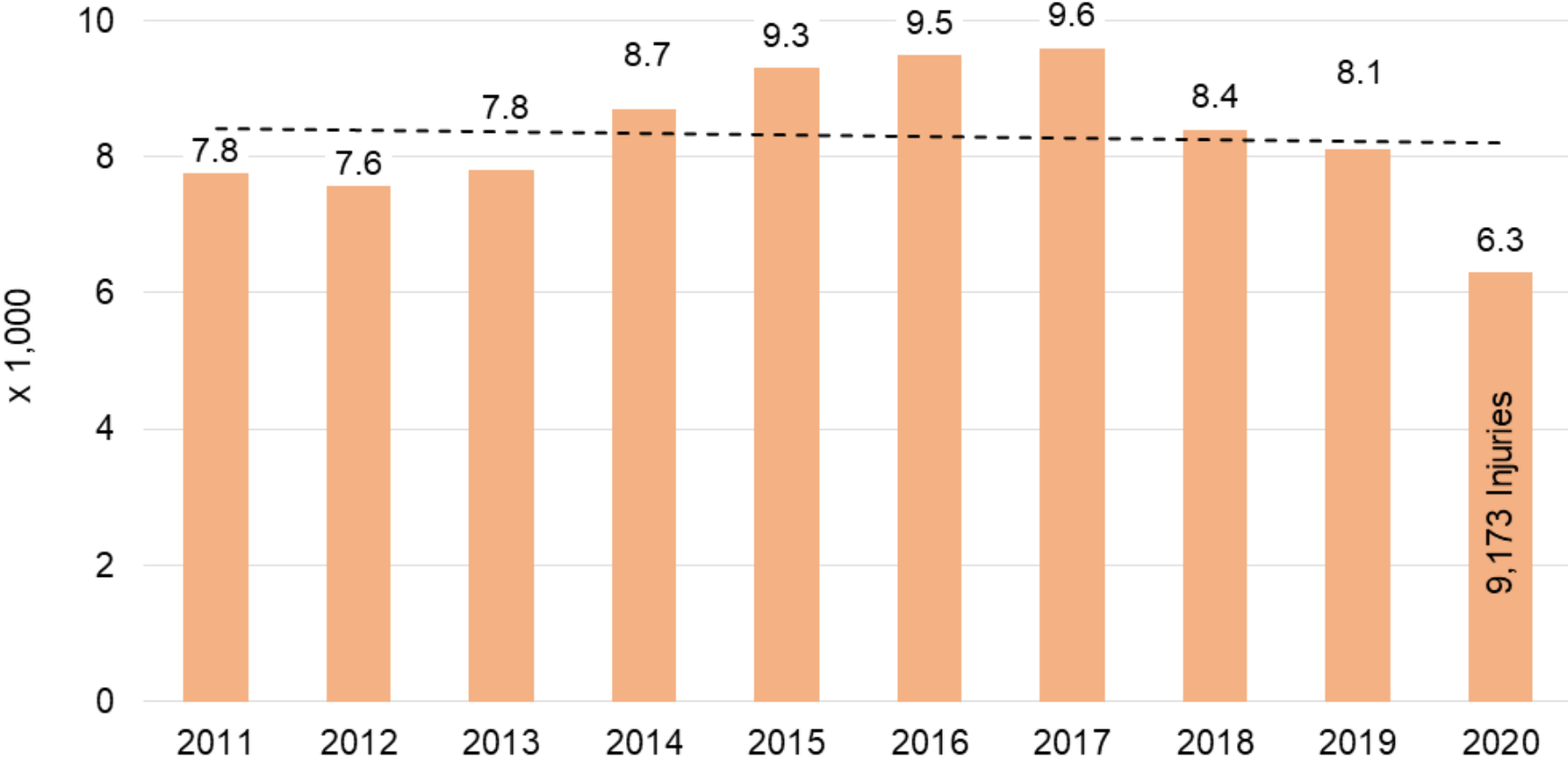


## Annual Collision Per 1000 Residents



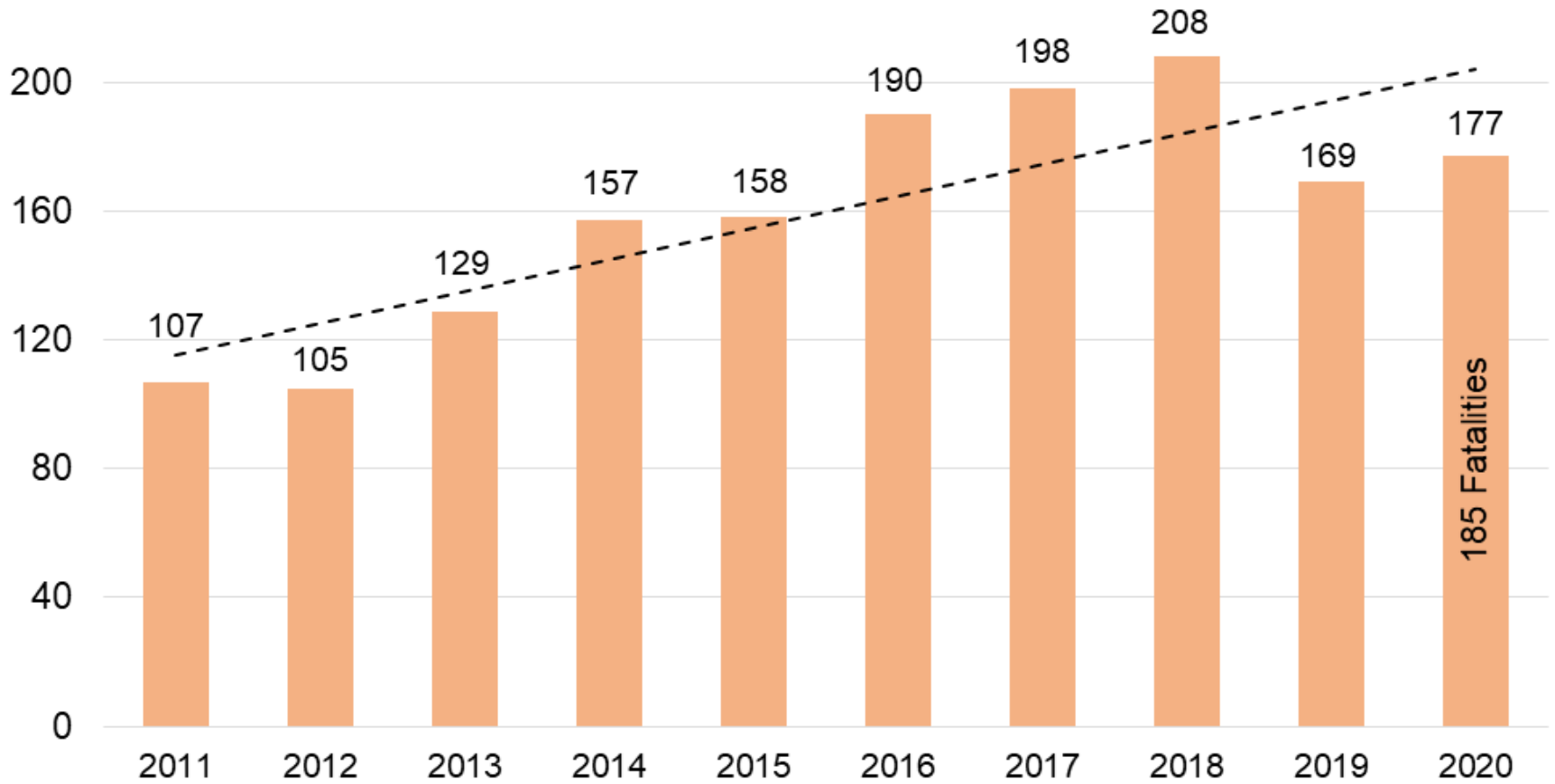
Census Data: <https://www.azmag.gov/Programs/Maps-and-Data/Community-Profiles>

# Injury Collisions



Note: Some collisions result in multiple injuries.

## Fatal Collisions



Note: Some collisions result in multiple fatalities.



Pedestrian signal (HAWK) at the 15th Avenue and Highland Avenue Intersection.

Pedestrian signal (HAWK) at the 7th Street and Montebello Avenue intersection.





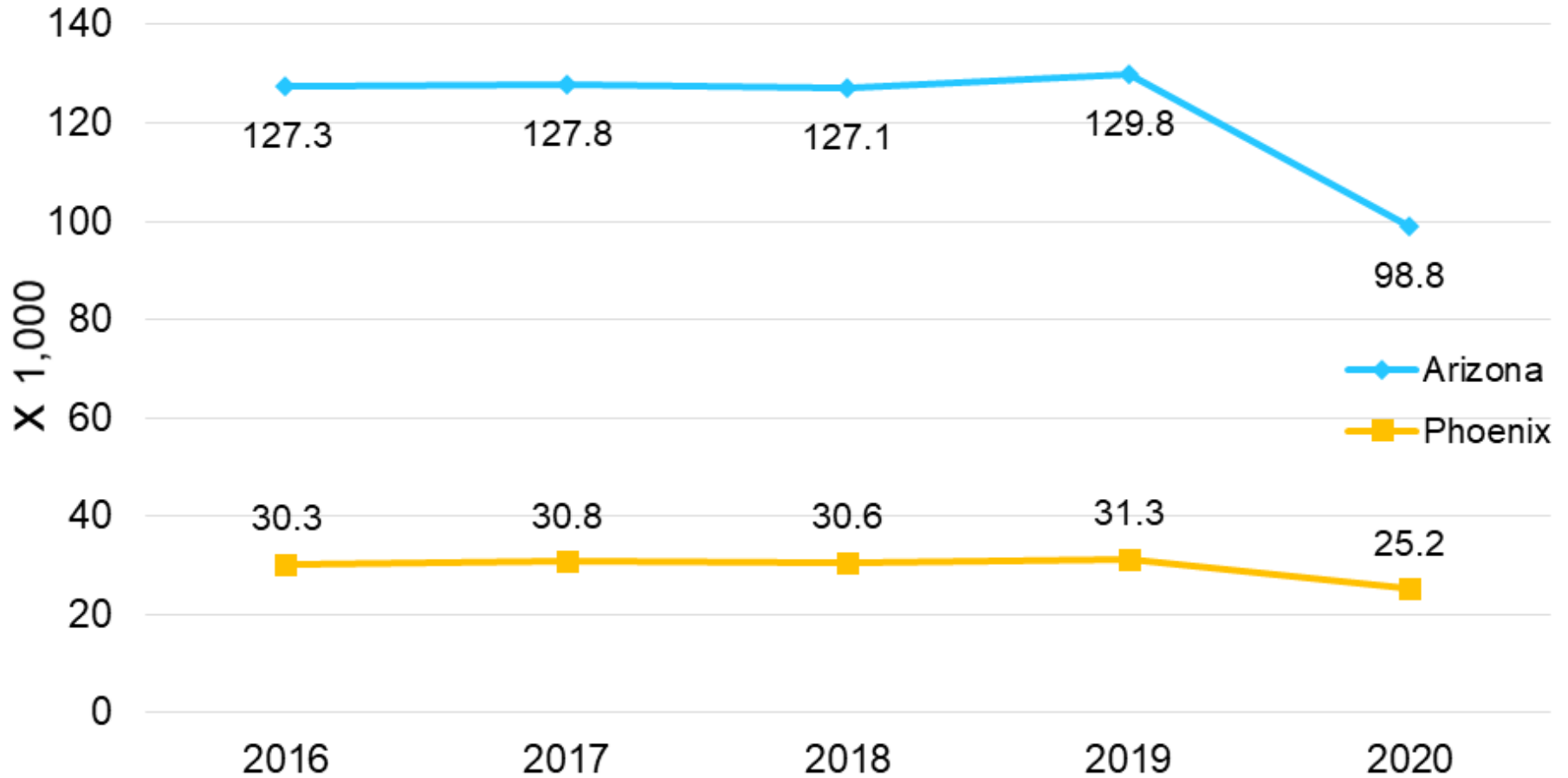


Protected Bike lanes on 3rd Avenue from Osborn to Indian School Roads.

Traffic Signal Flashing Yellow Arrow and Pedestrian timing modifications at 12th Street and Northern Avenue.

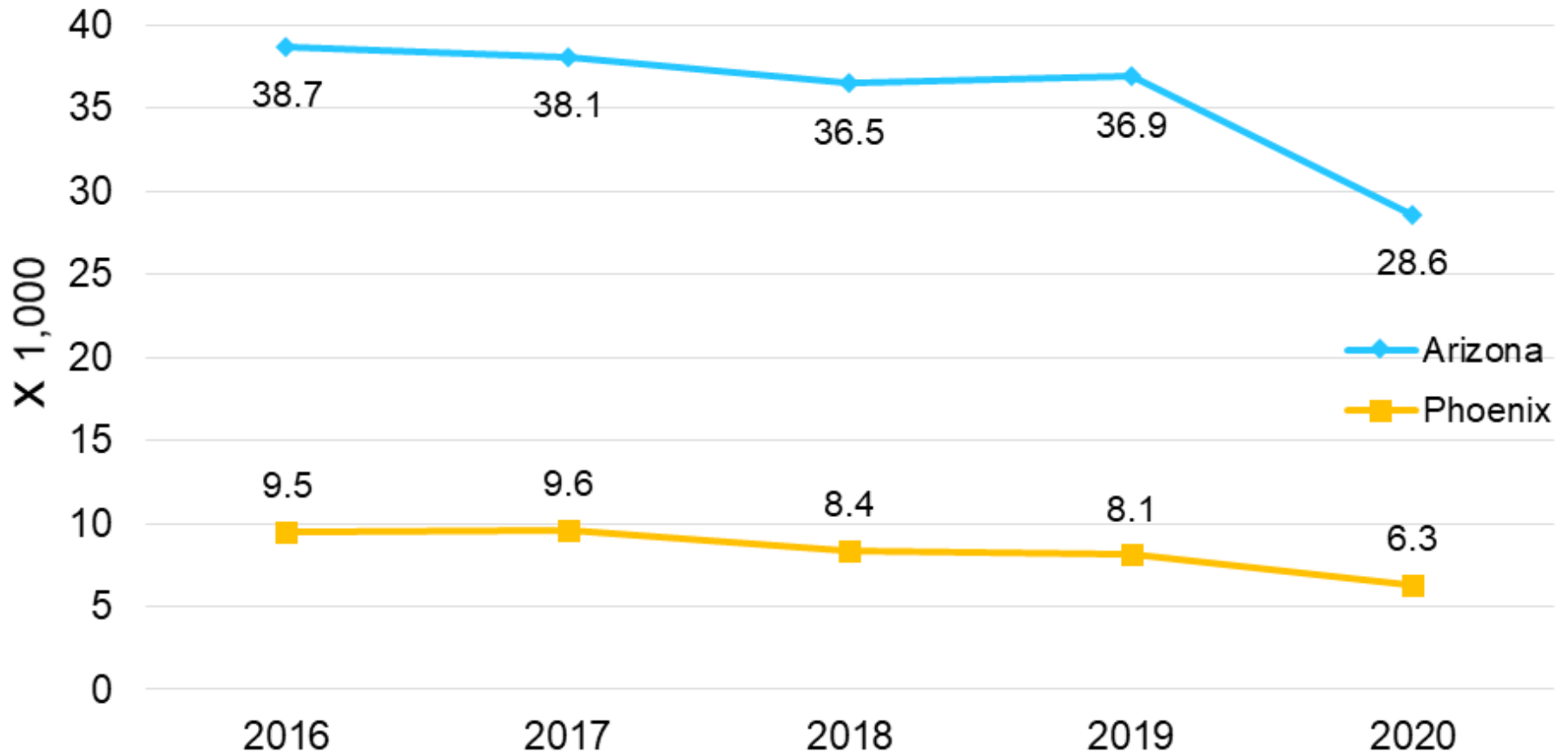


## Phoenix vs. Arizona Total Collisions 2016 - 2020



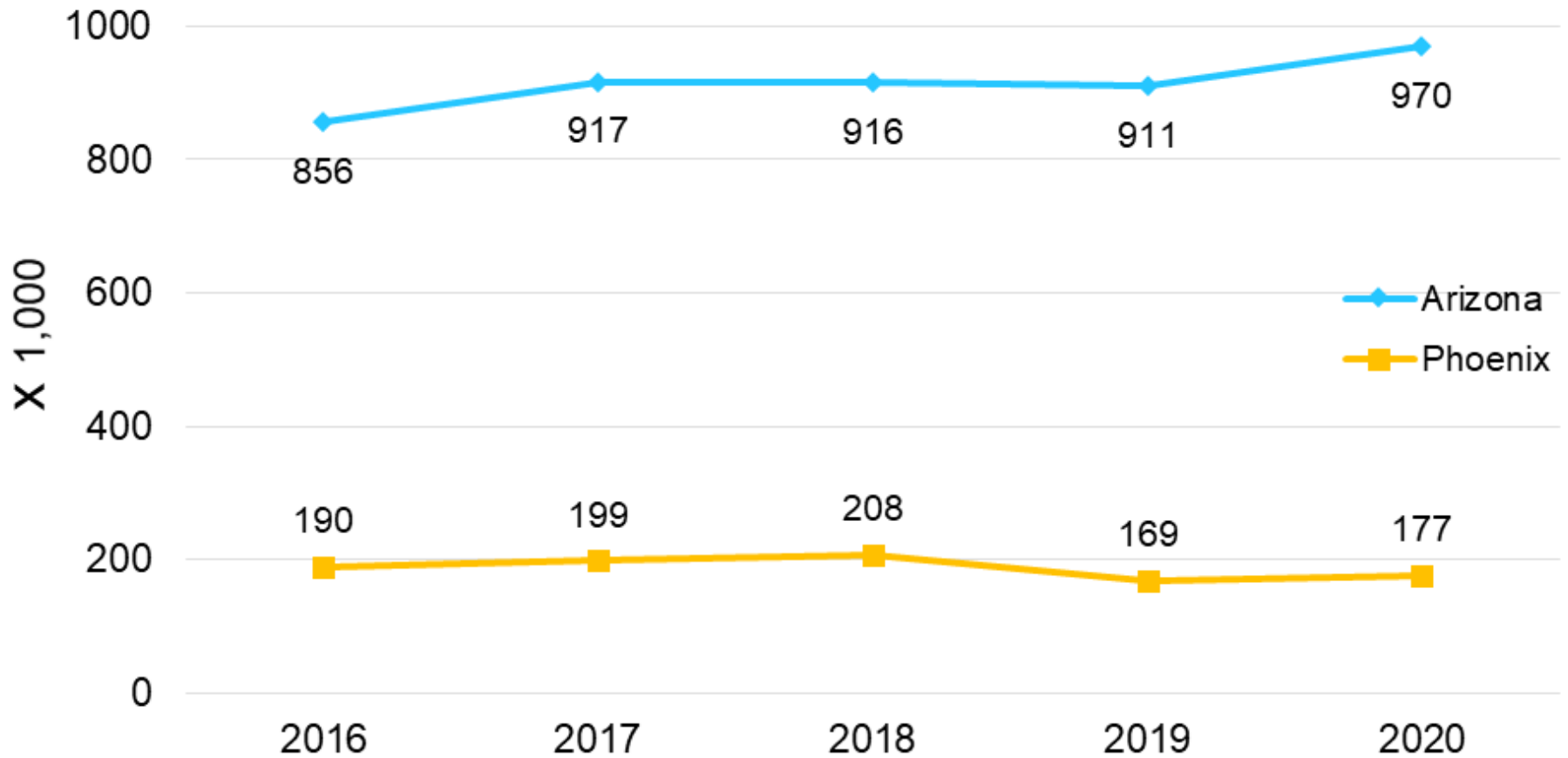
Note: Arizona data comes from the 2020 Arizona Crash Facts Summary (ADOT)

## Phoenix vs. Arizona Total Injury Collisions 2016 - 2020



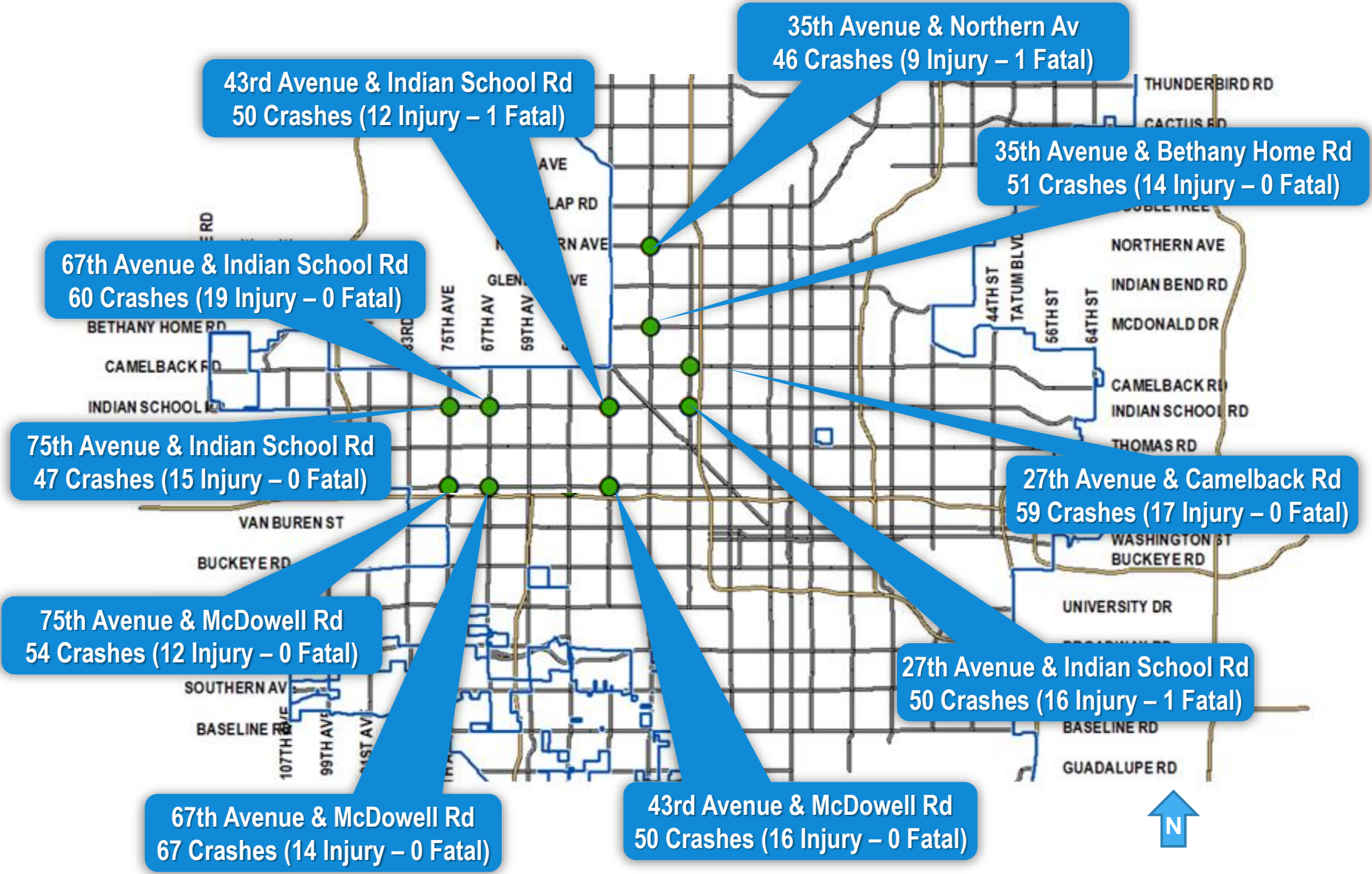
Note: Arizona data comes from the 2020 Arizona Crash Facts Summary (ADOT)

## Phoenix vs. Arizona Fatal Collisions 2016 - 2020

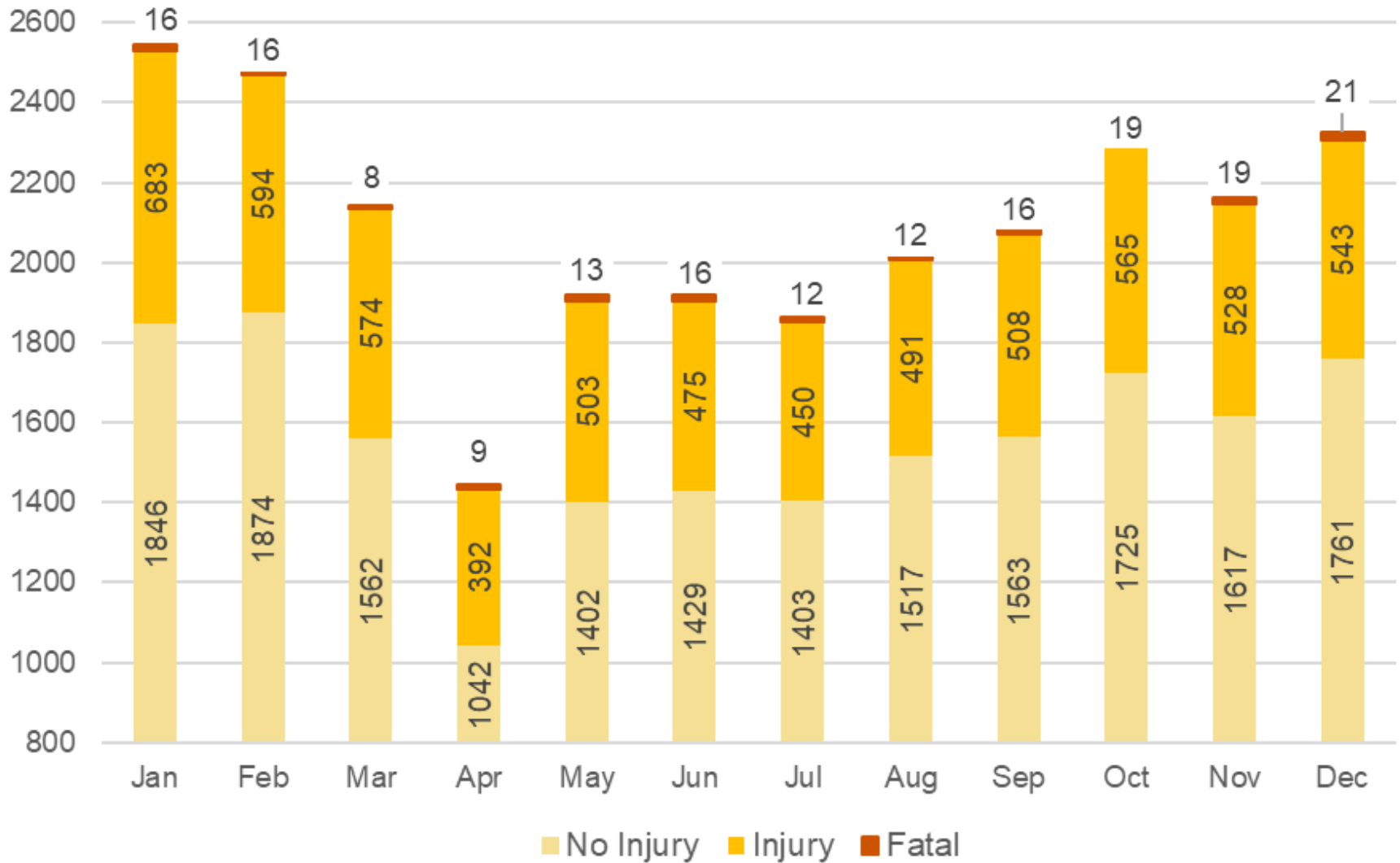


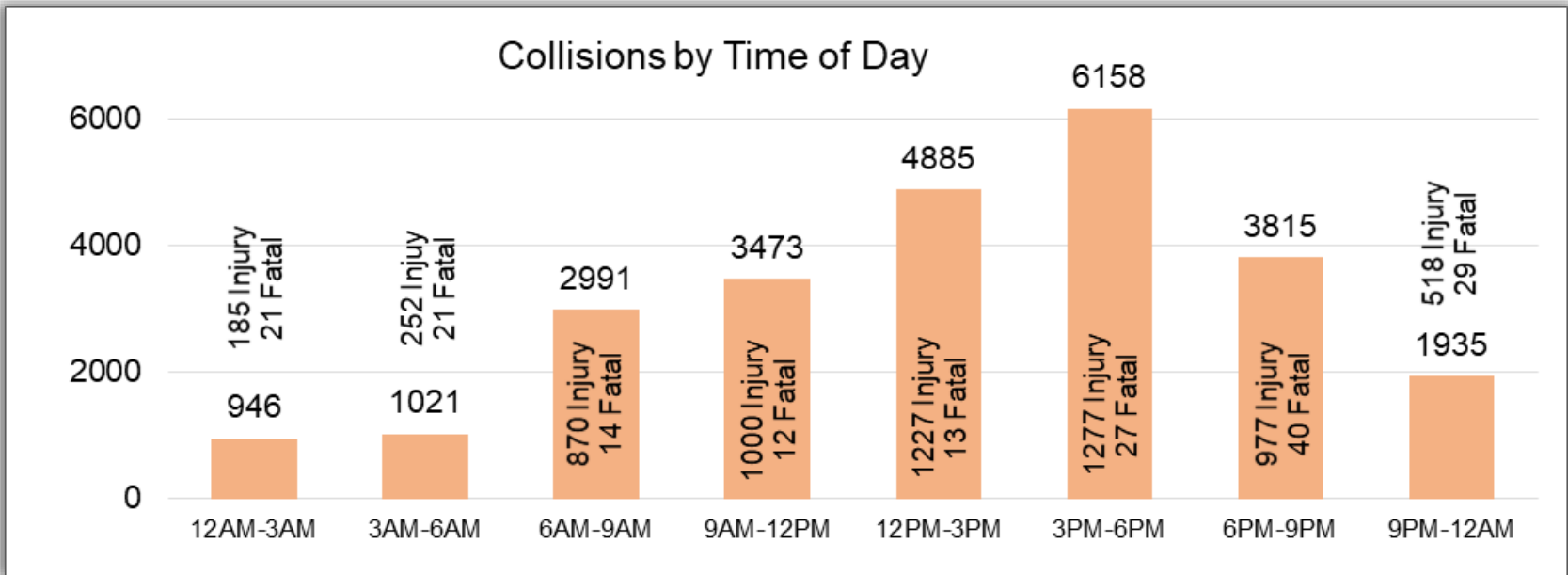
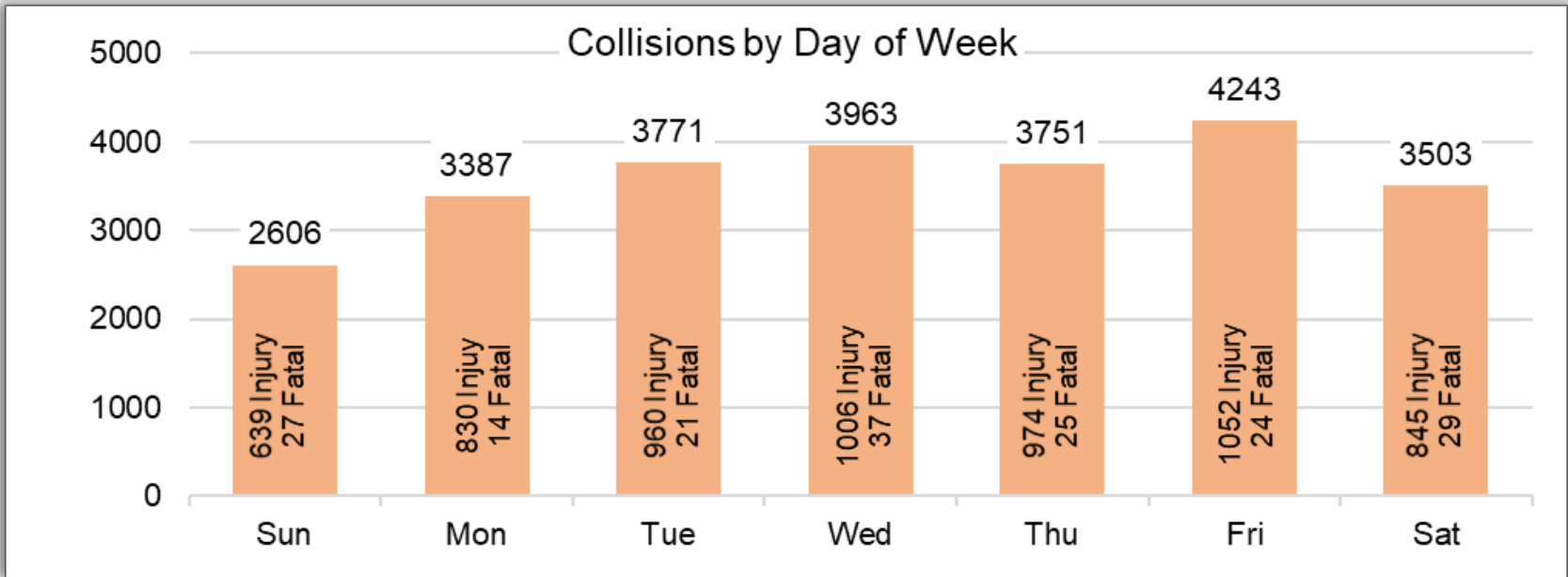
Note: Arizona data comes from the 2020 Arizona Crash Facts Summary (ADOT)

# Locations with the Highest Number of Collisions 2020

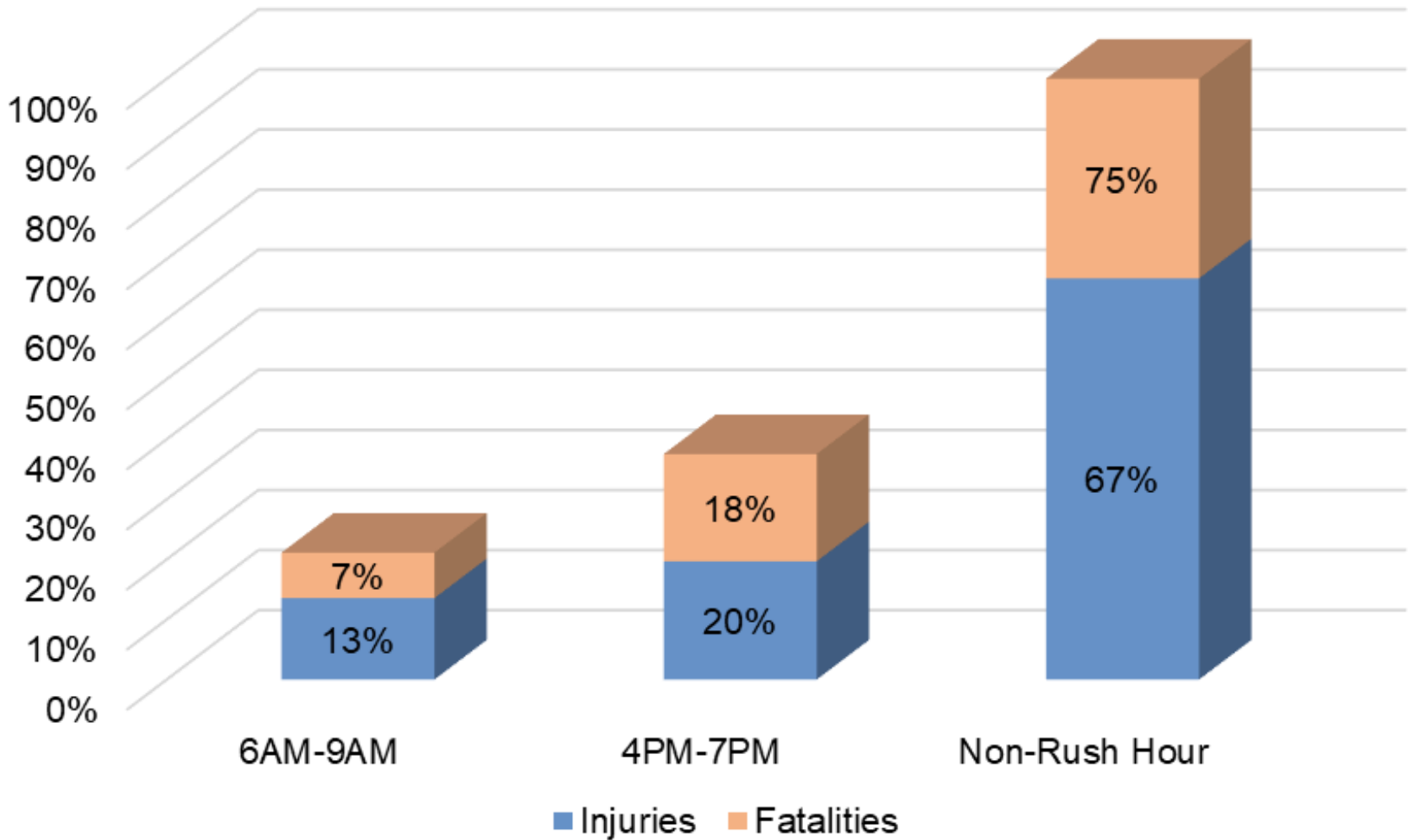


# Collisions by Month





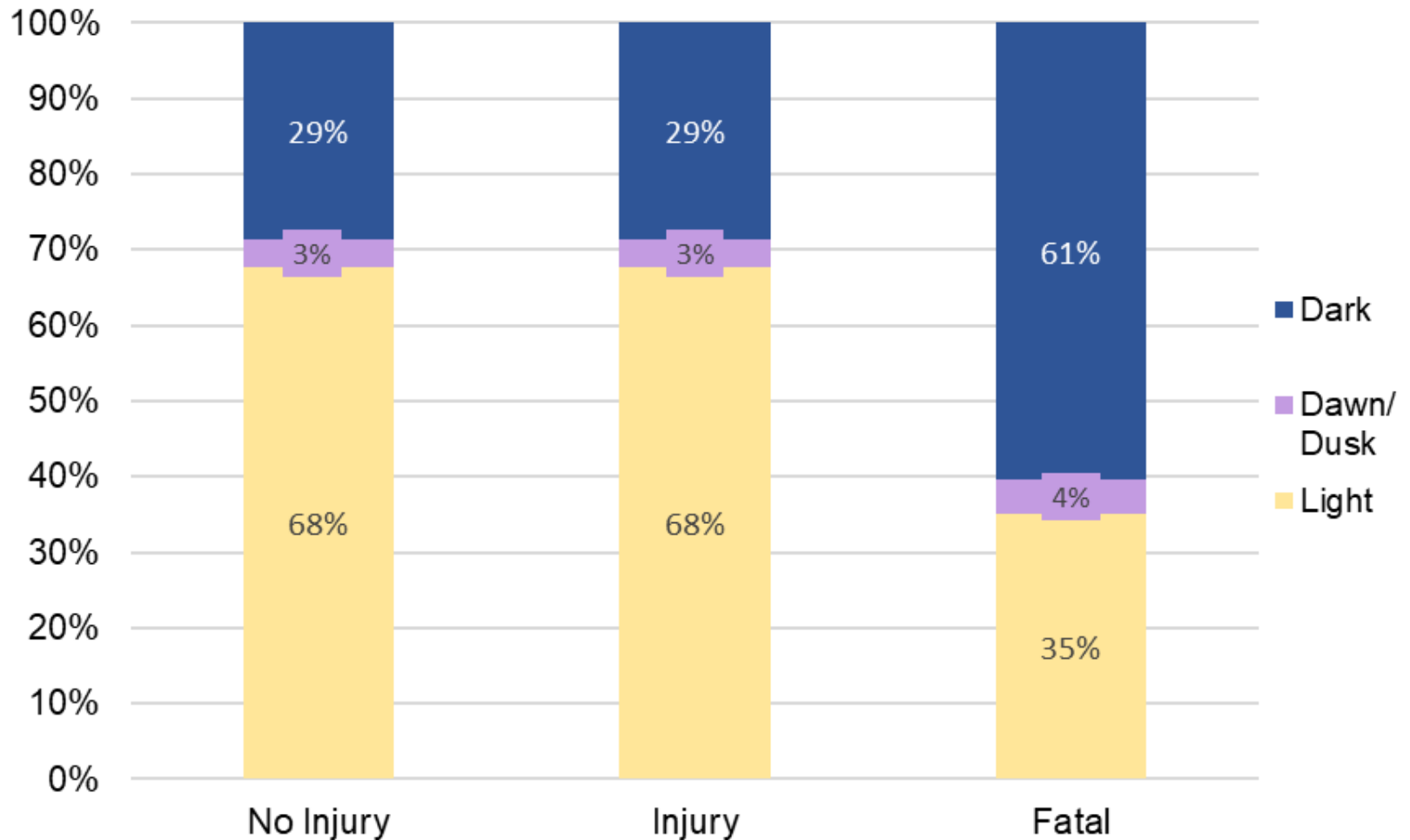
## Rush Hour Injuries and Fatalities

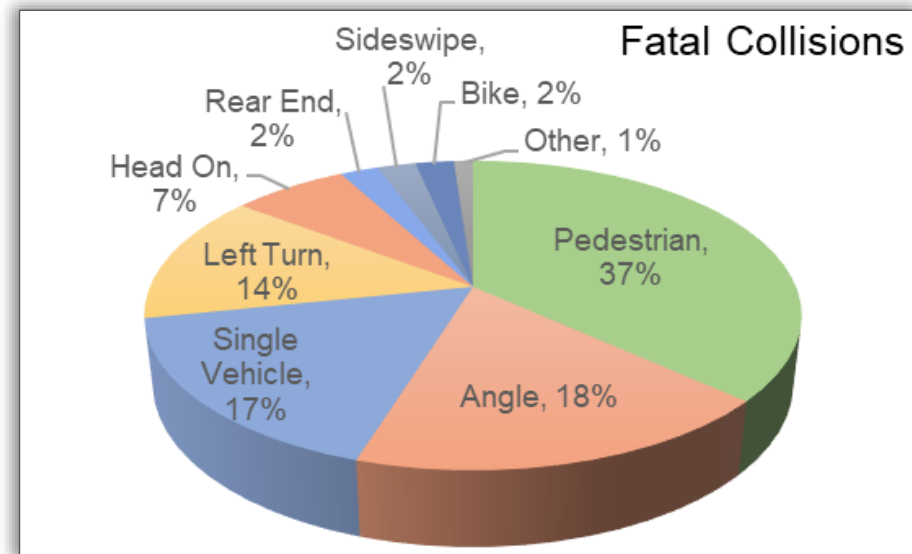
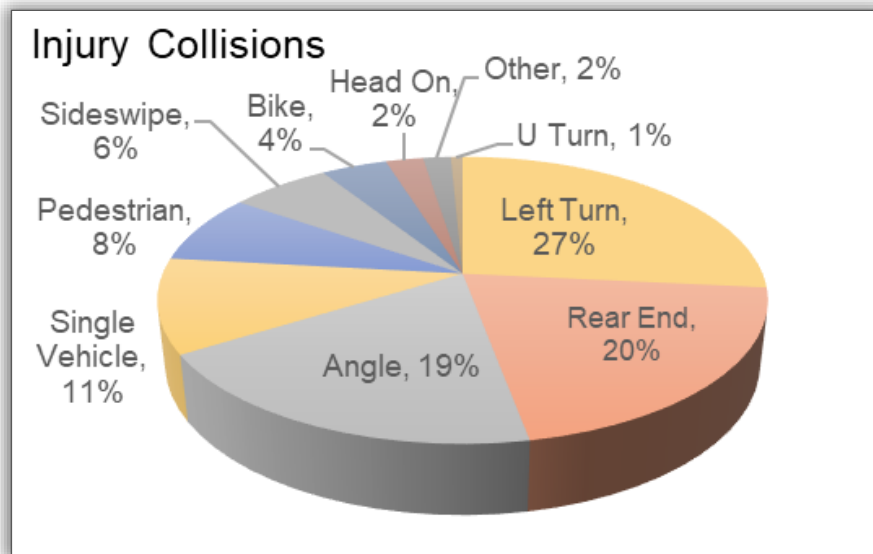
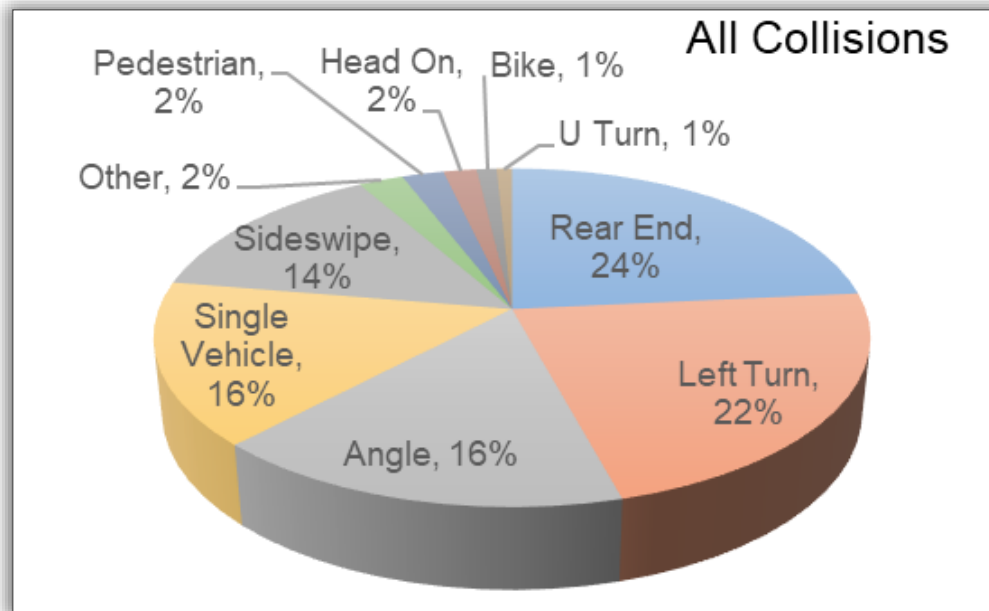


Rush Hour related incidents accounted for 33% of total injuries and 25% of total fatalities

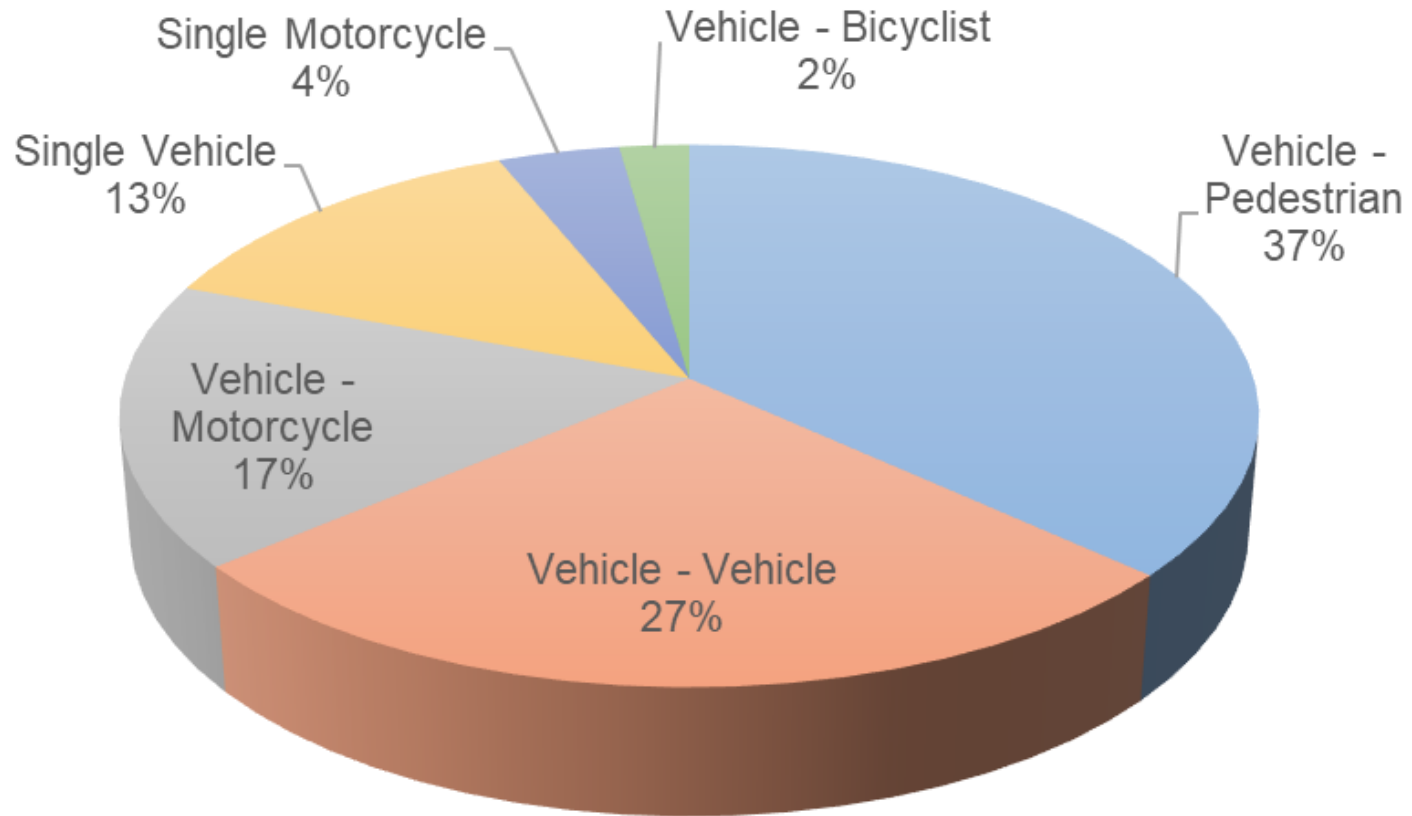


## Collision Severity by Light Conditions



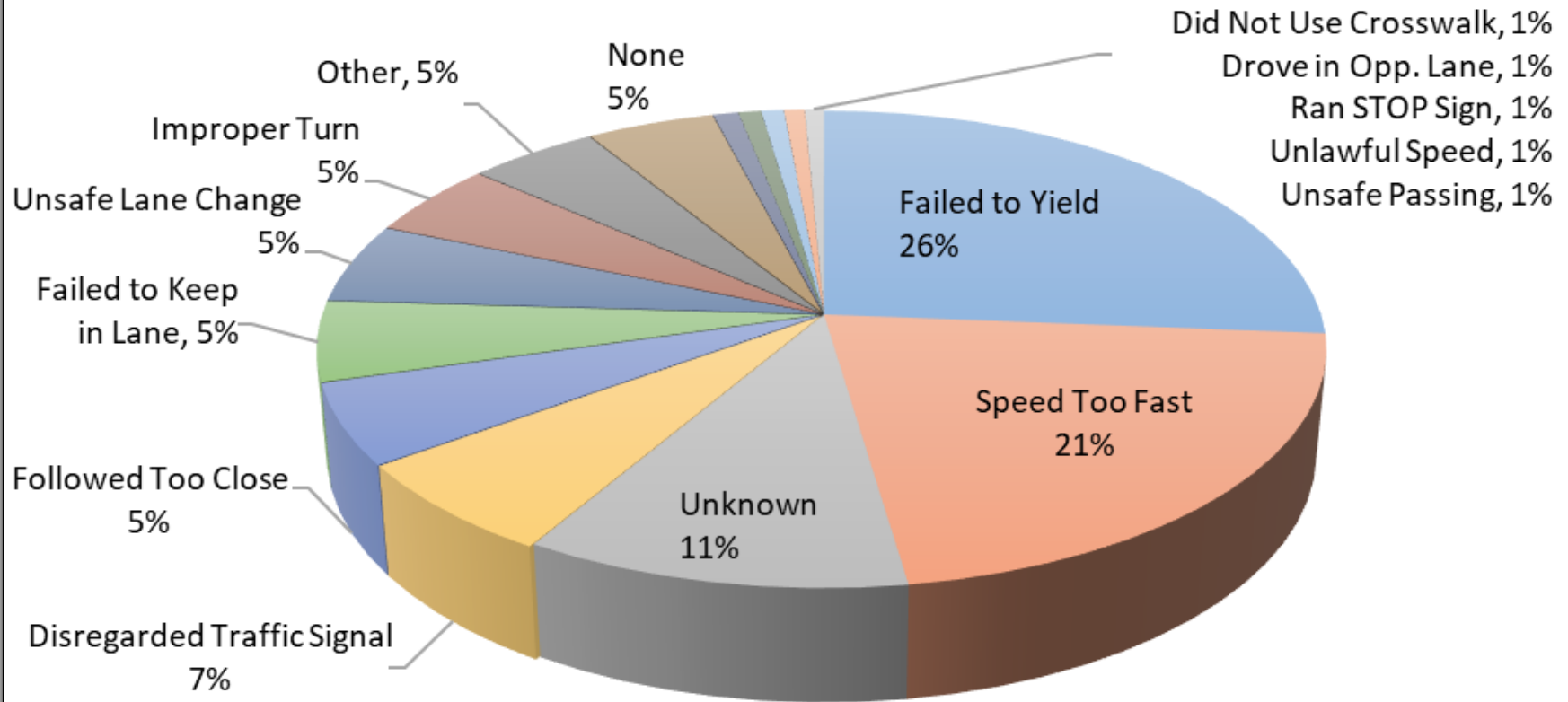


## Fatal Collisions by Mode of Transportation



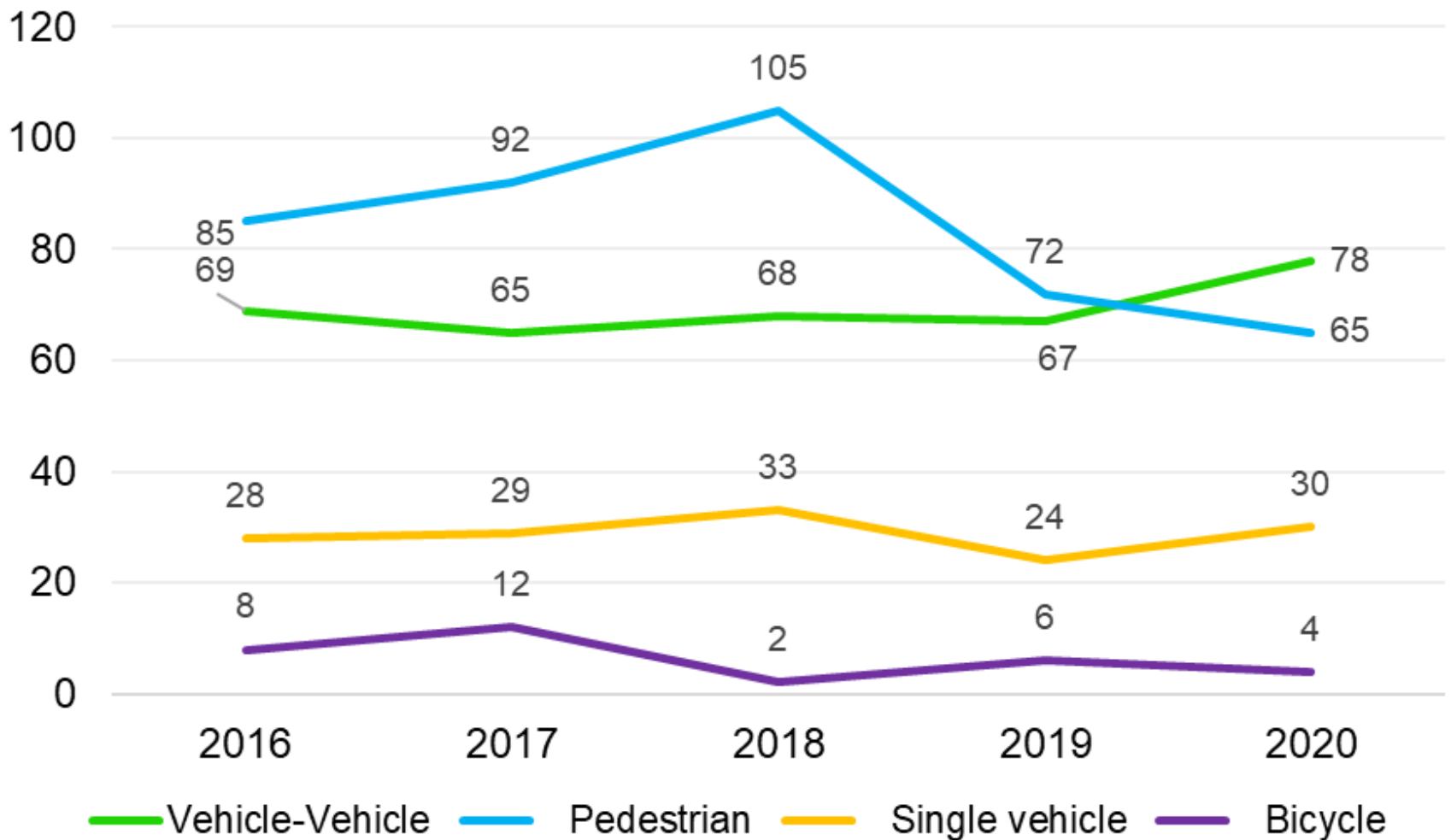
Note: 177 Total Fatal Collision Incidents

## Collisions by Primary Behavior/Violation

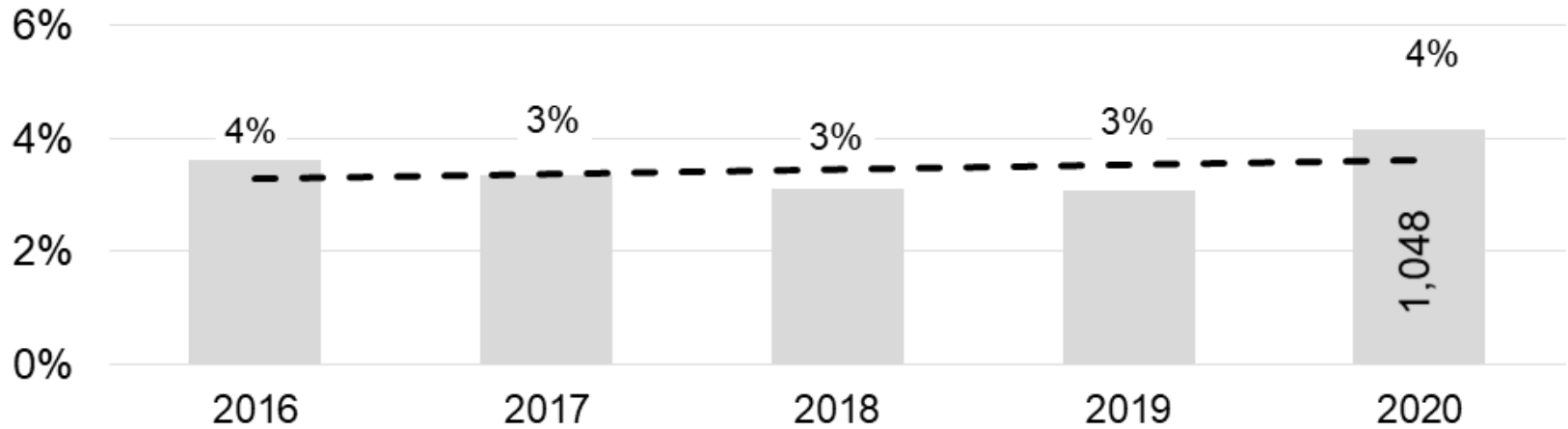


- 1 – “Speed Too Fast” does not necessarily mean the person was exceeding the speed limit but rather the person was traveling too fast for the conditions at the time.
- 2 – “Unknown” includes leaving the scene, conflicting statements without witnesses, incapacitated persons.
- 3 – “Other” includes less common violations such as Disregarded Pavement Markings, Missing/Faulty Equipment.
- 4 – “None” refers to drivers involved in a crash without committing a violation. These instances are usually the result of uncontrollable forces such as falling objects, debris or animals in the roadway.

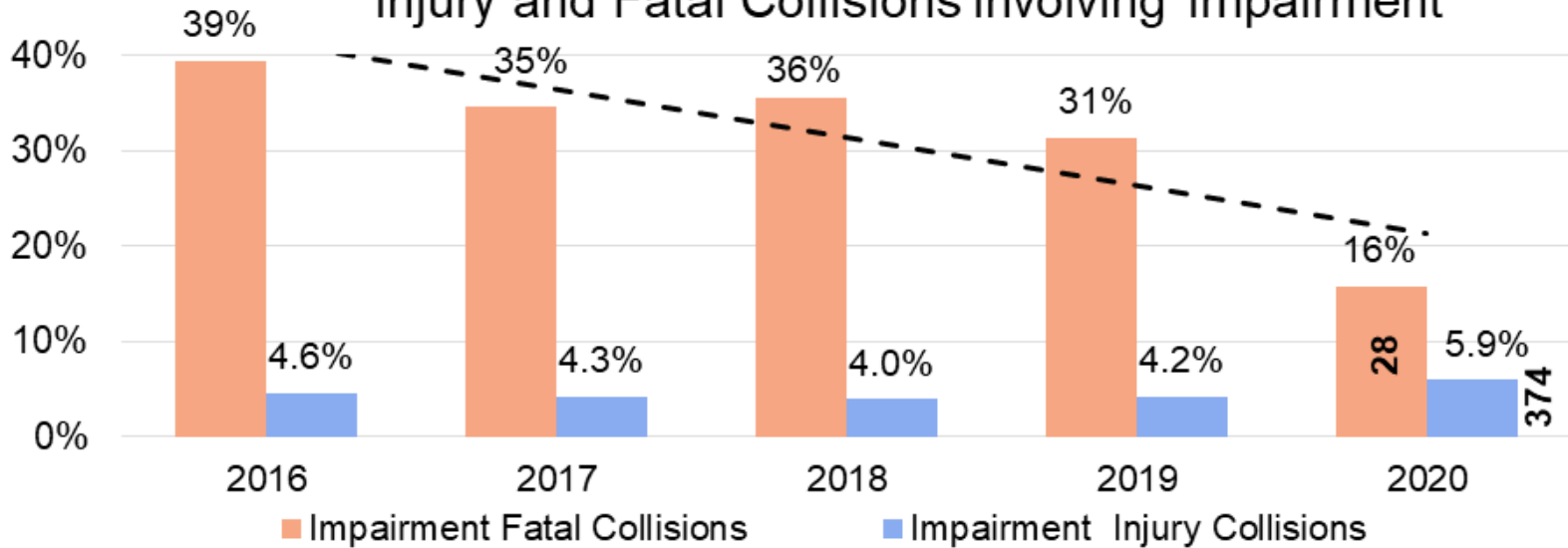
## Fatal Collisions by Mode of Transportation



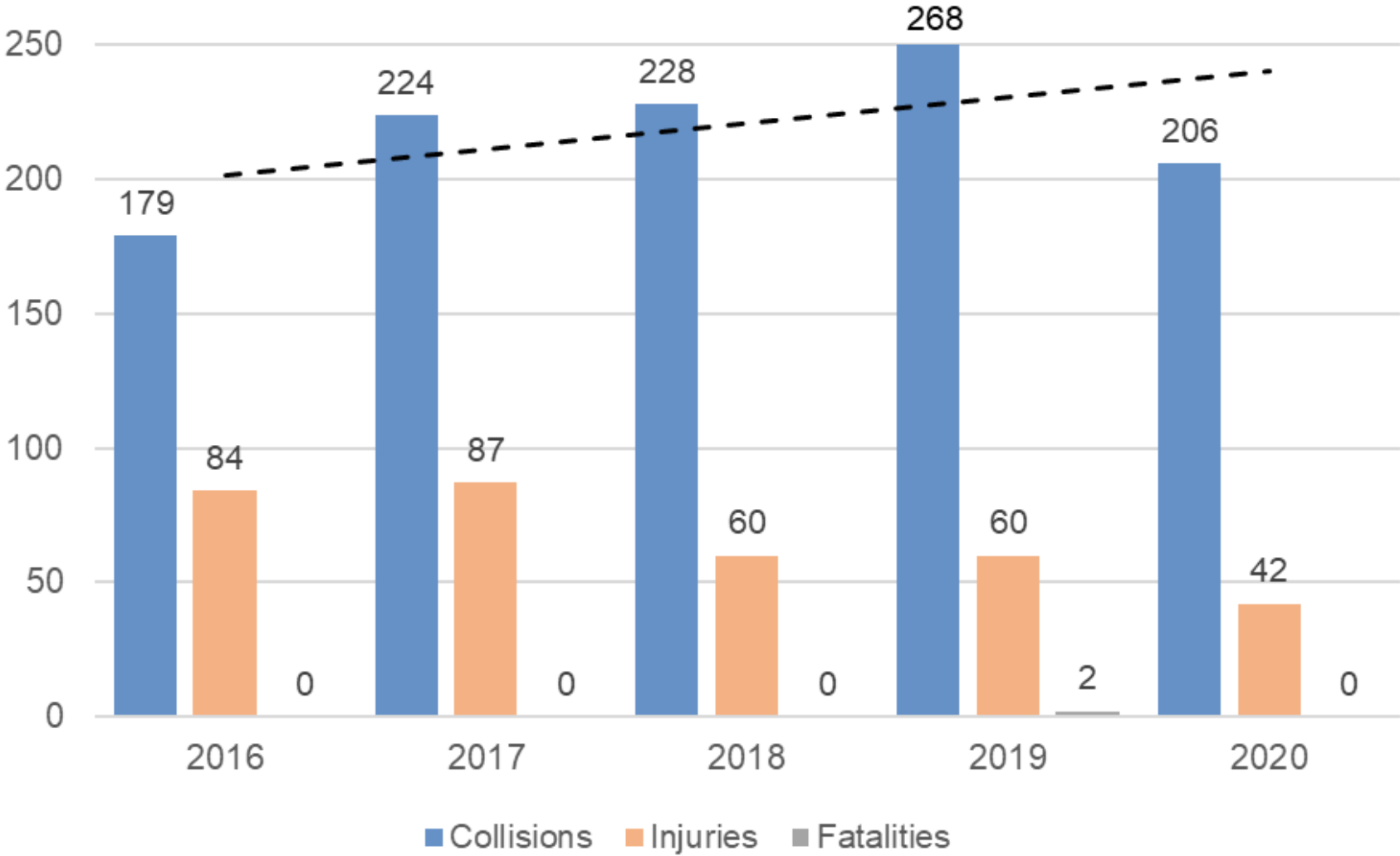
## Collisions Involving Impairment



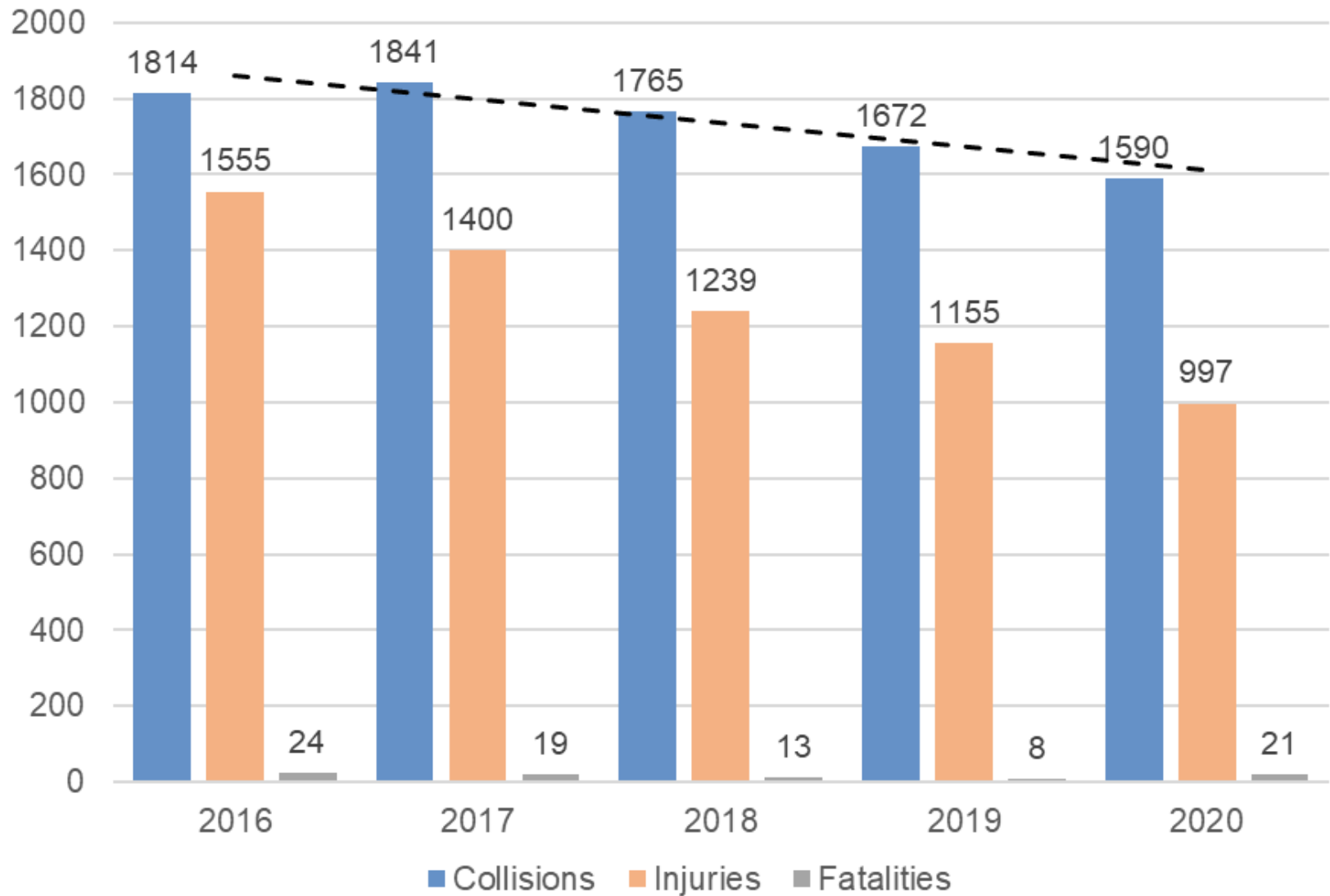
## Injury and Fatal Collisions Involving Impairment



# Work Zone Collisions



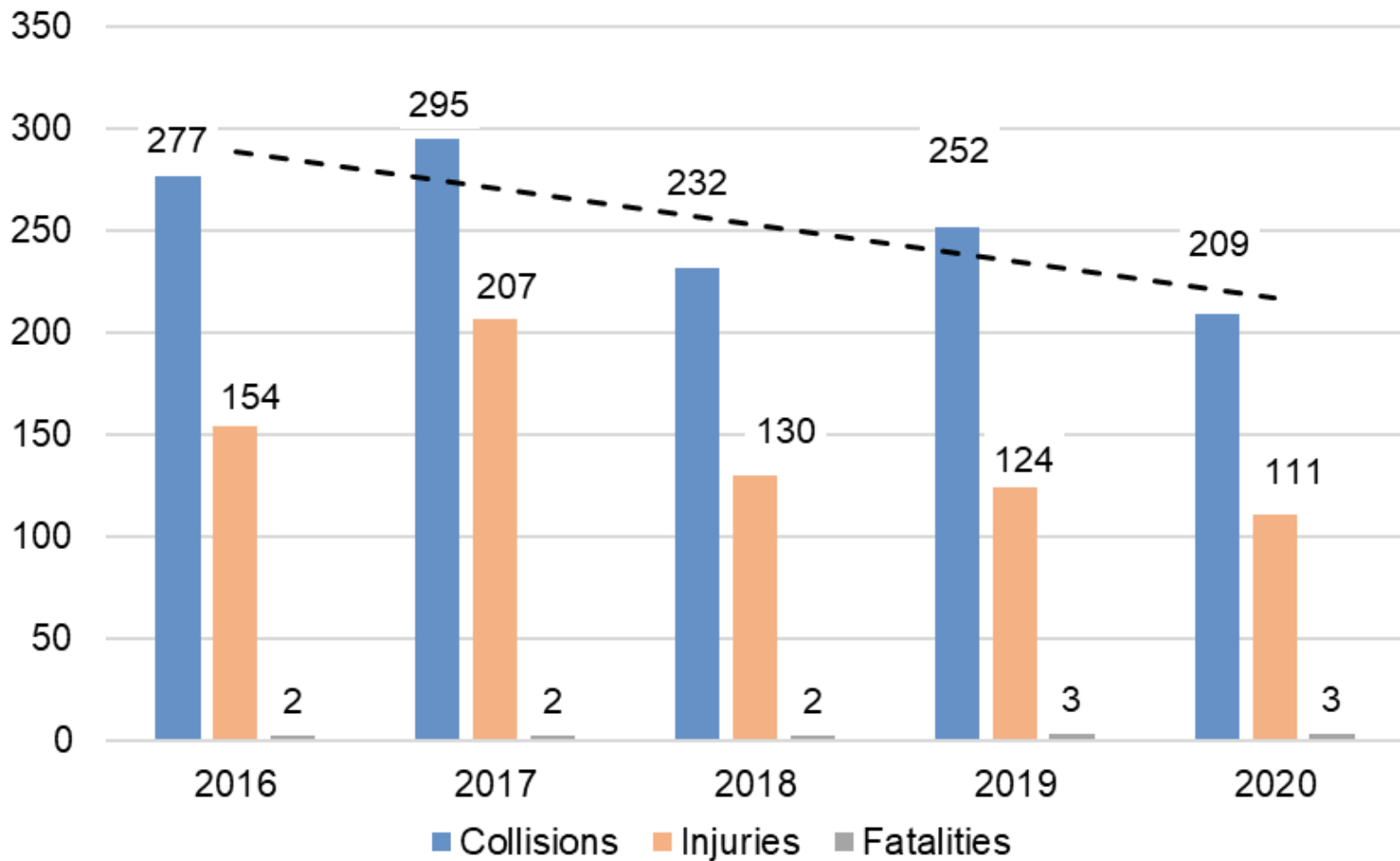
## Motorist Disregarded Traffic Signal Collisions





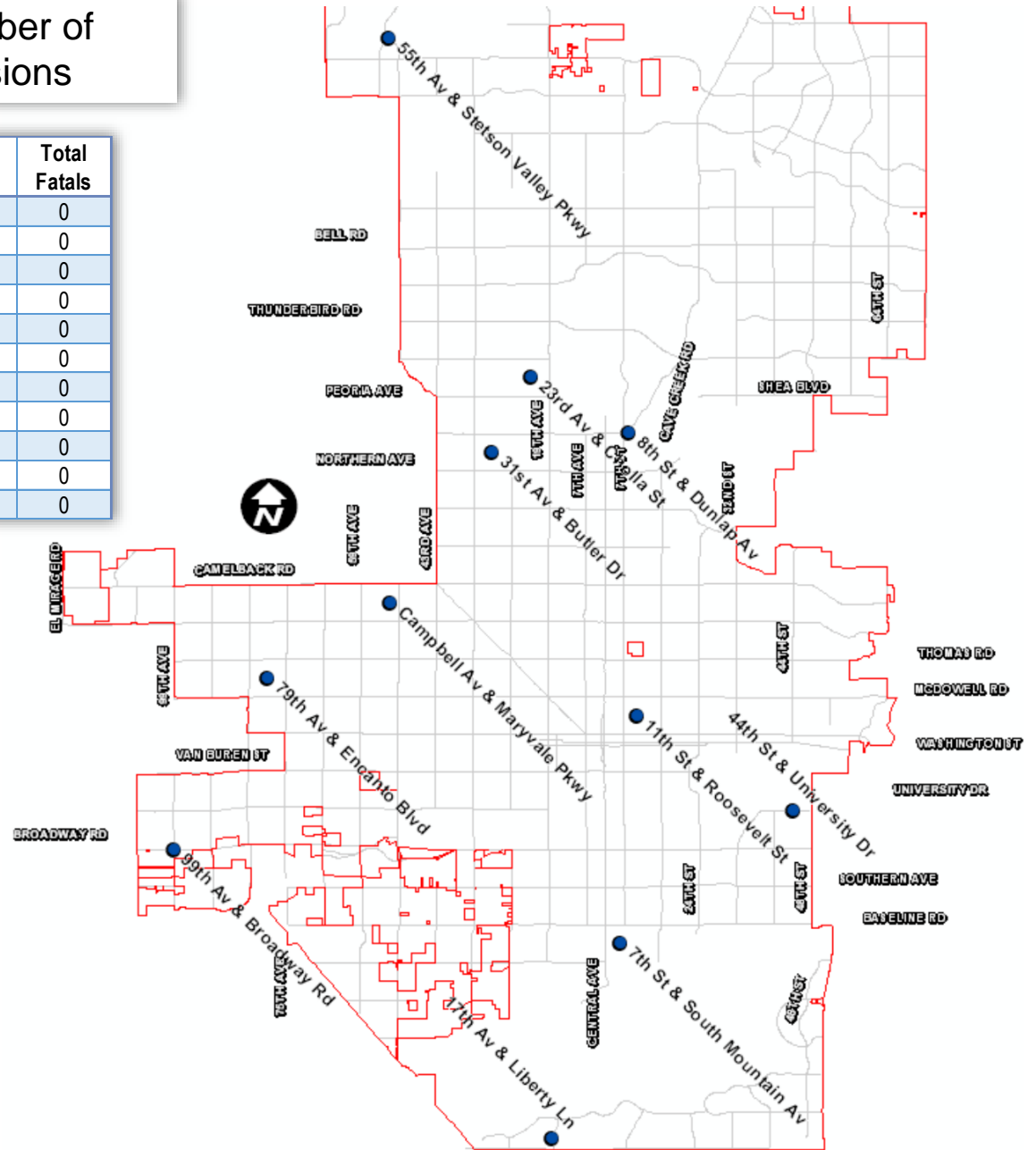


## Run STOP Sign Collisions

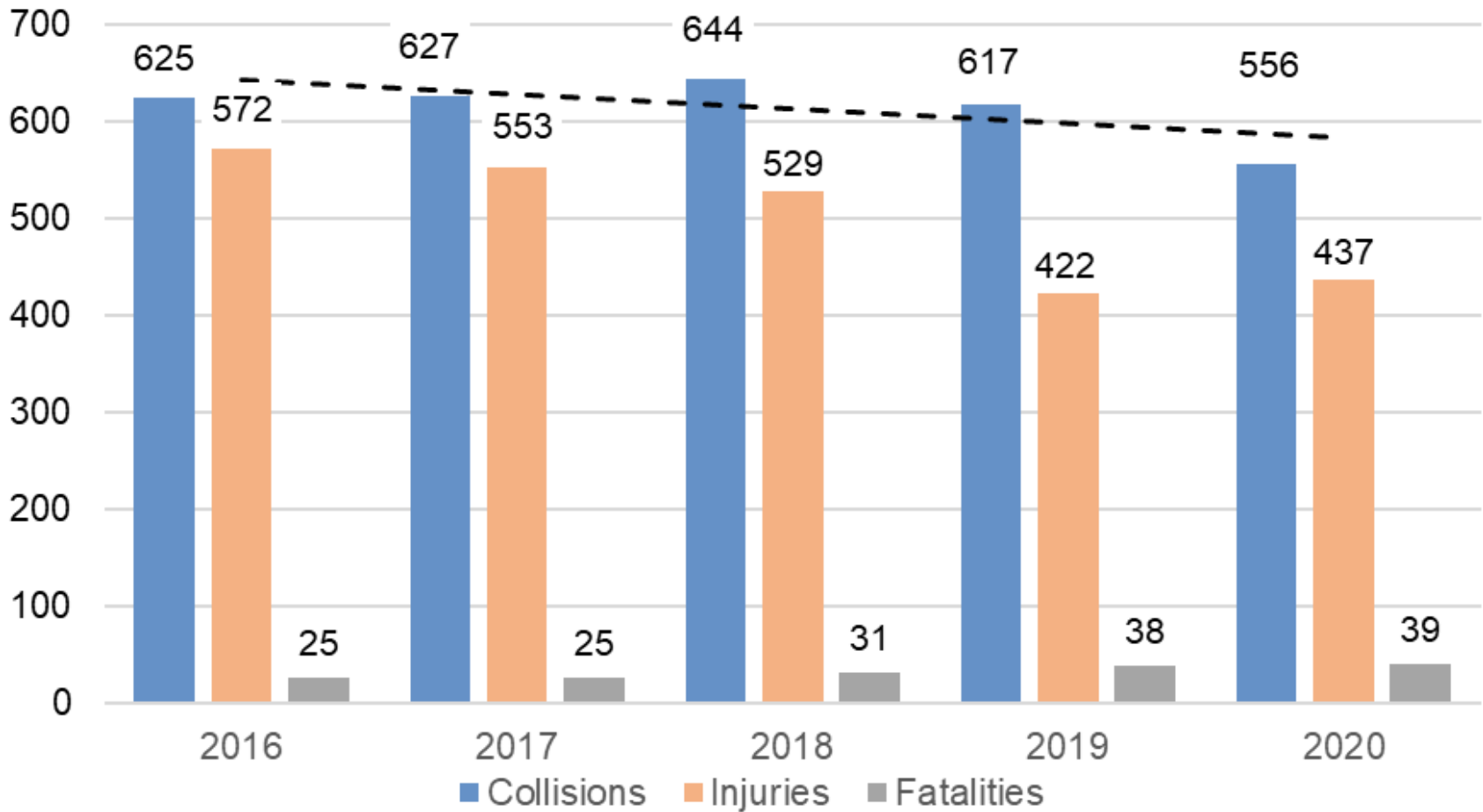


# Locations with the Highest Number of Motorist Run STOP Sign Collisions

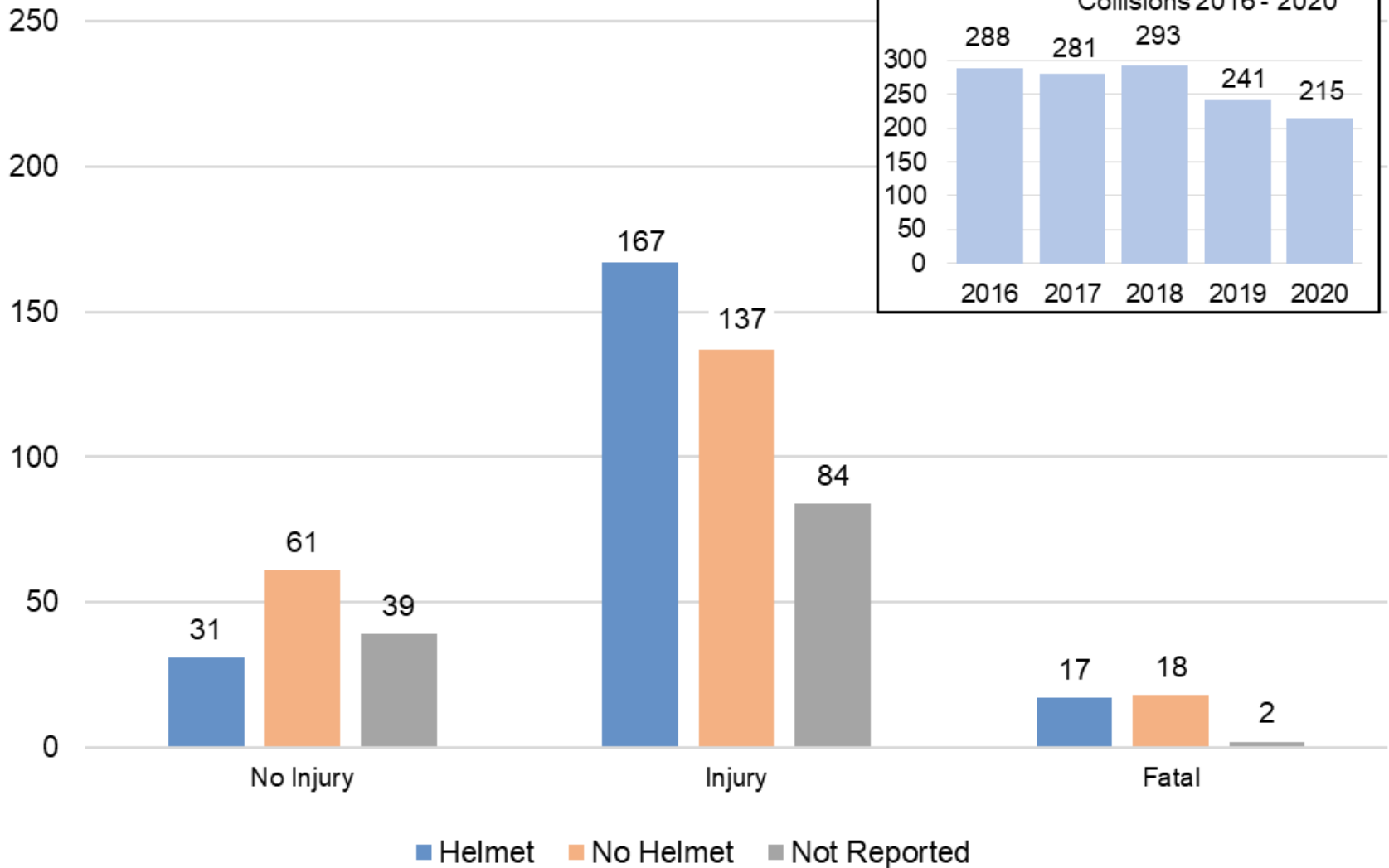
Intersection	Total Collisions	Total Injuries	Total Fatals
79th Av & Encanto Blvd	6	1	0
Campbell Av & Maryvale Pkwy	5	2	0
55th Av & Stetson Valley Pkwy	3	1	0
23rd Av & Cholla St	3	3	0
31st Av & Butler Dr	3	1	0
8th St & Dunlap Av	2	1	0
11th St & Roosevelt St	2	3	0
99th Av & Broadway Rd	2	0	0
17th Av & Liberty Ln	2	2	0
7th St & South Mountain Av	2	0	0
44th St & University Dr	2	1	0



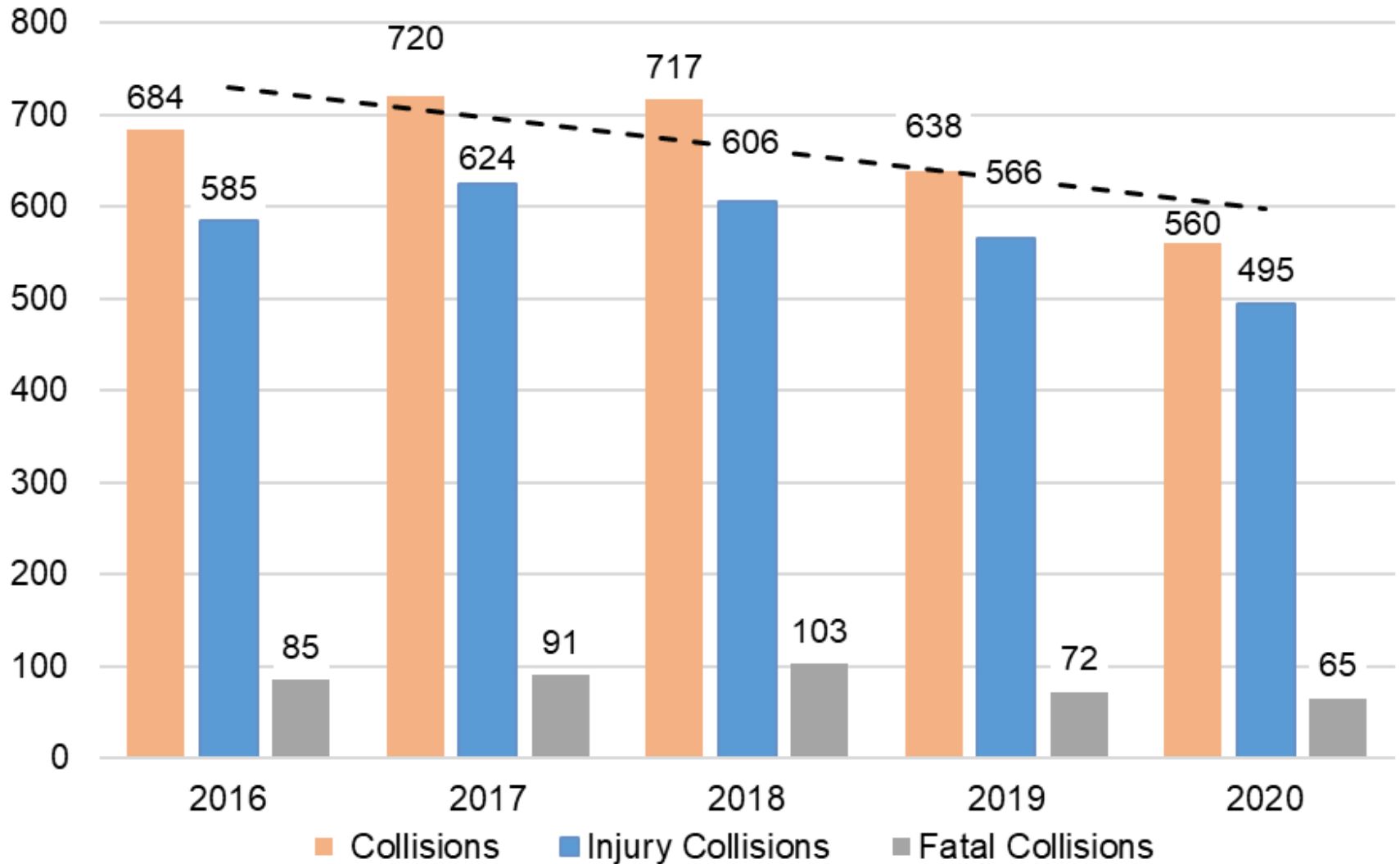
## Total Motorcyclist Collisions, Injuries, and Fatalities



# Motorcyclist Injury Severity and Helmet Usage



# Pedestrian Collisions



Pedestrian Flashing Beacon  
Crosswalk at 6th Street and  
Fillmore Street.



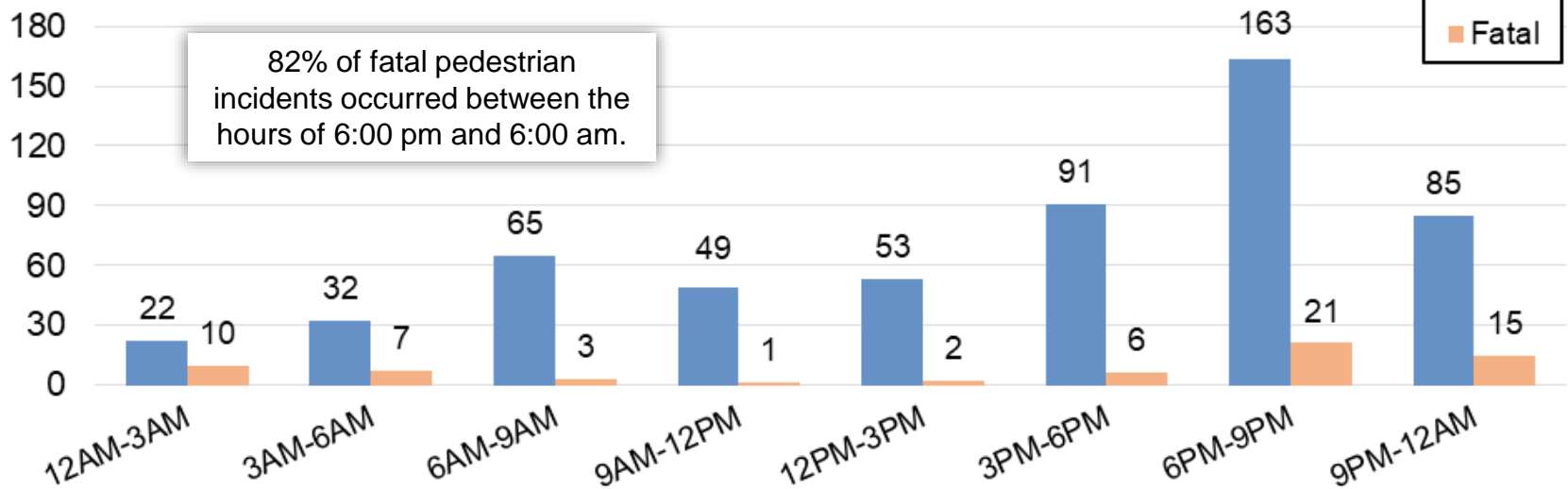
Crosswalk Upgrade Installation at  
19<sup>th</sup> Avenue and Fairmount Avenue.

New signal installation at 39th Avenue and Southern Avenue.

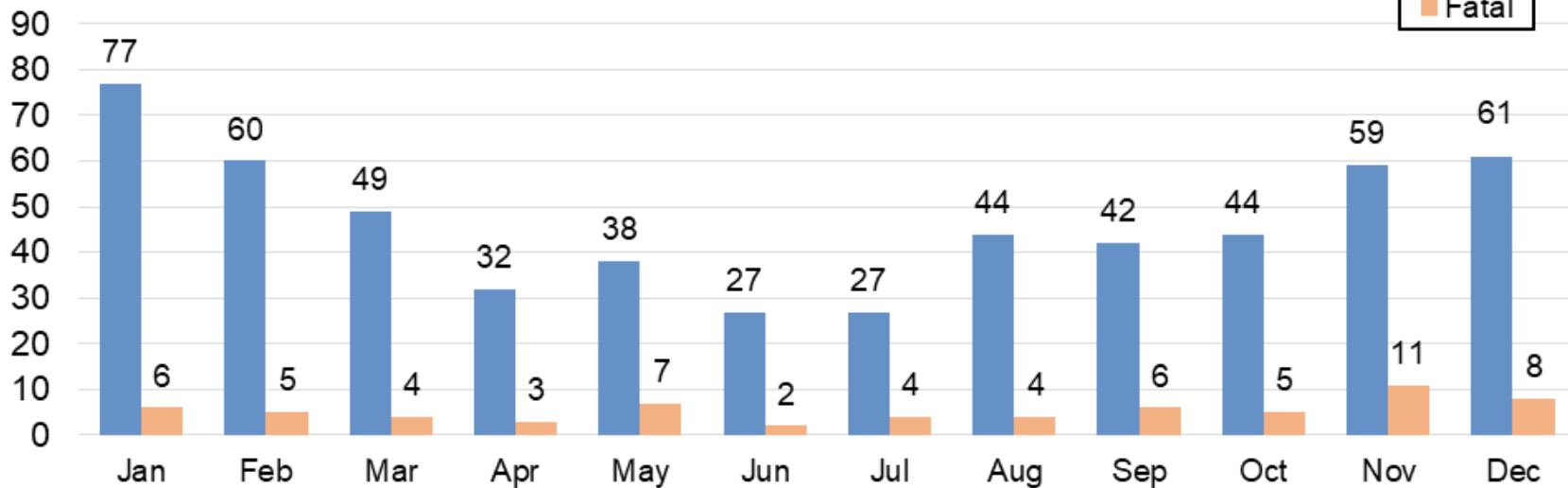




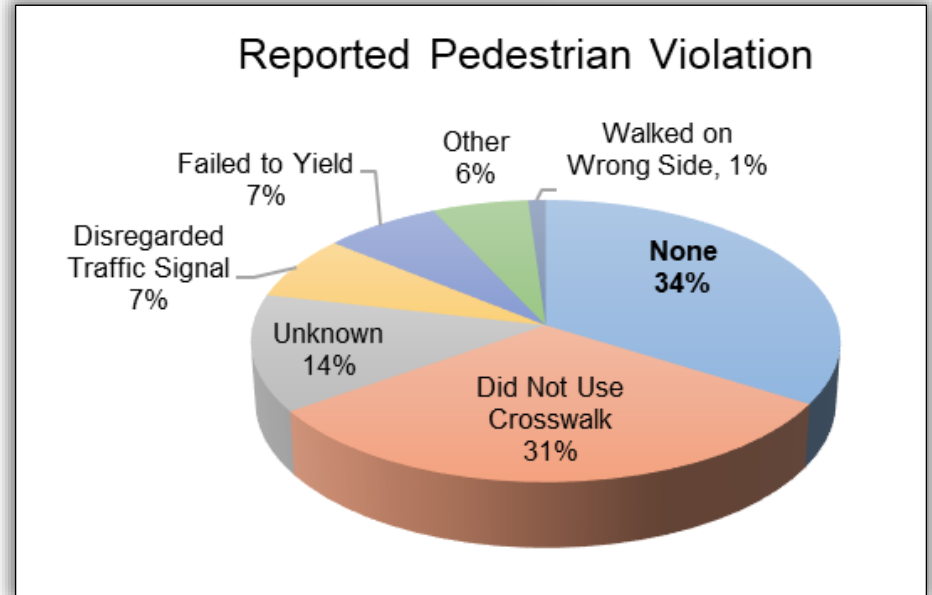
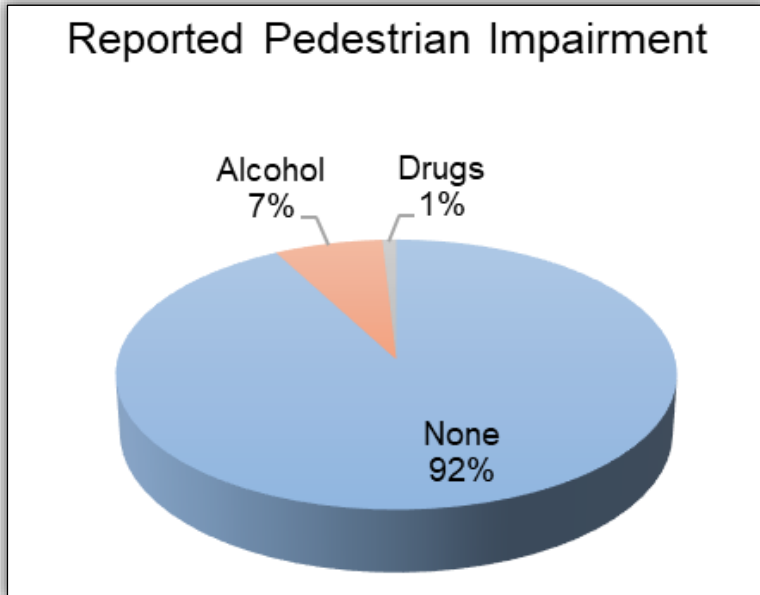
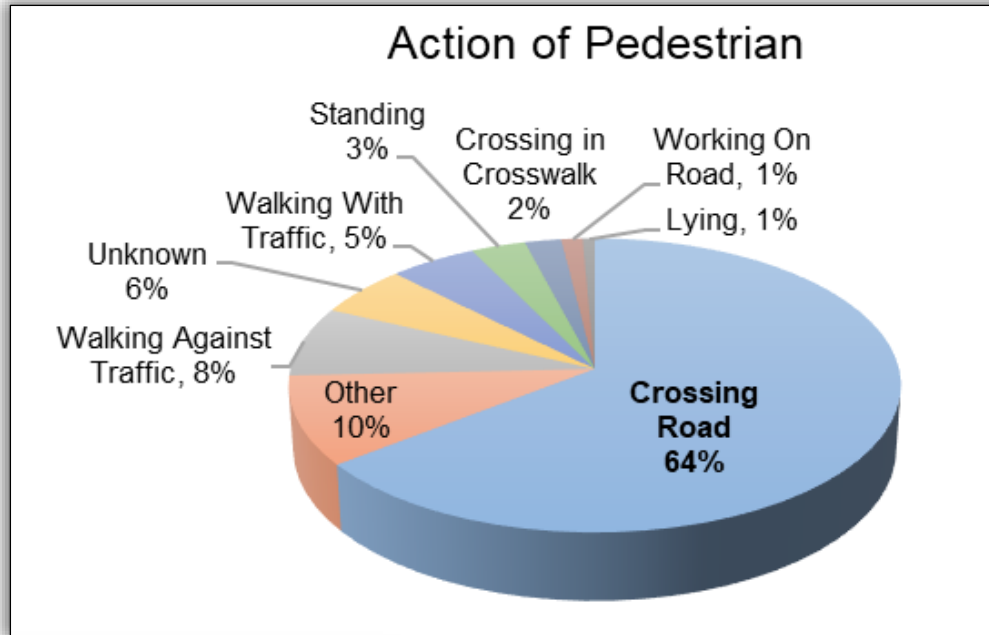
## Pedestrian Collisions by Time of Day



## Pedestrian Collisions by Month

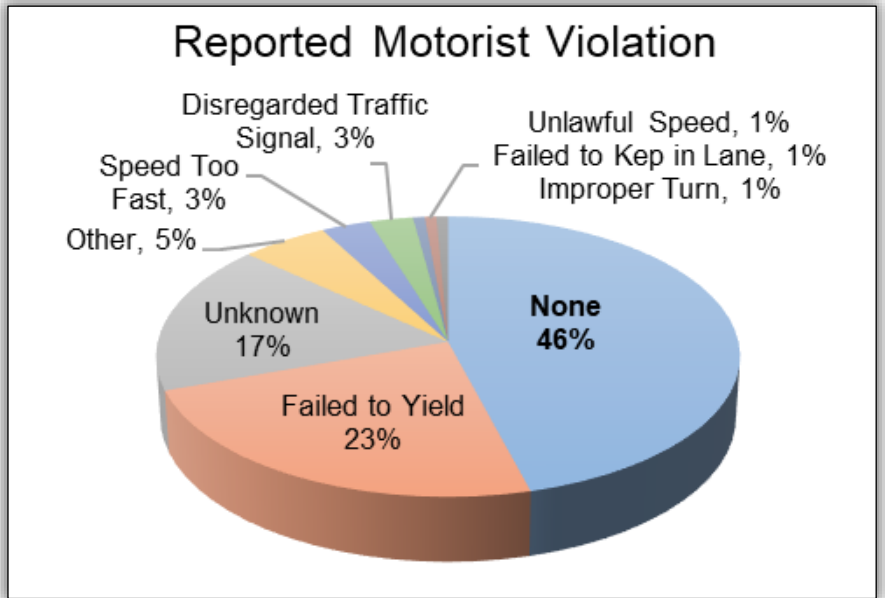
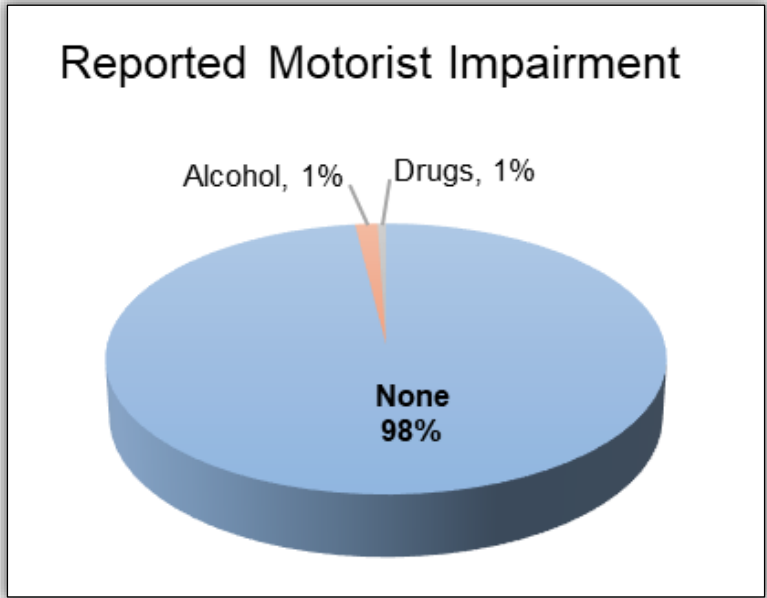
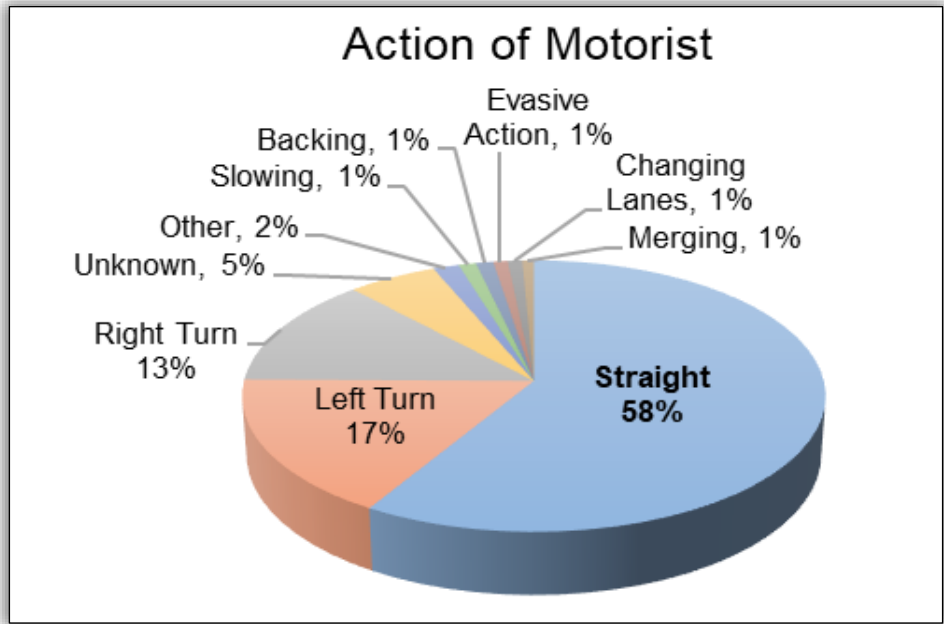


# Pedestrian Collisions

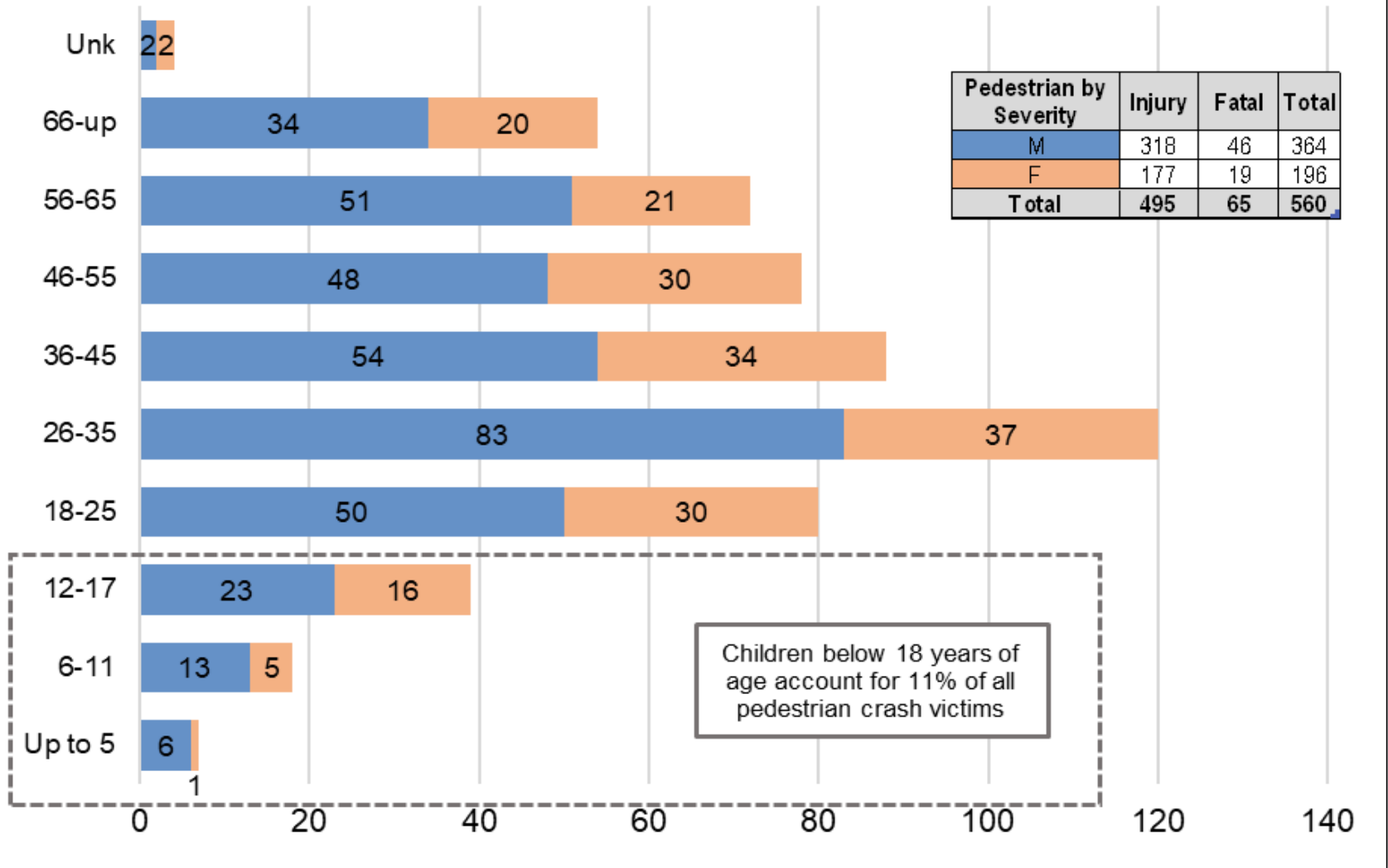


Note: In collisions involving more than one pedestrian, the attributes of only one pedestrian are used and chosen based on higher injury severity, then lowest age if needed.

# Pedestrian Collisions



# Age and Gender of Pedestrians in Collisions



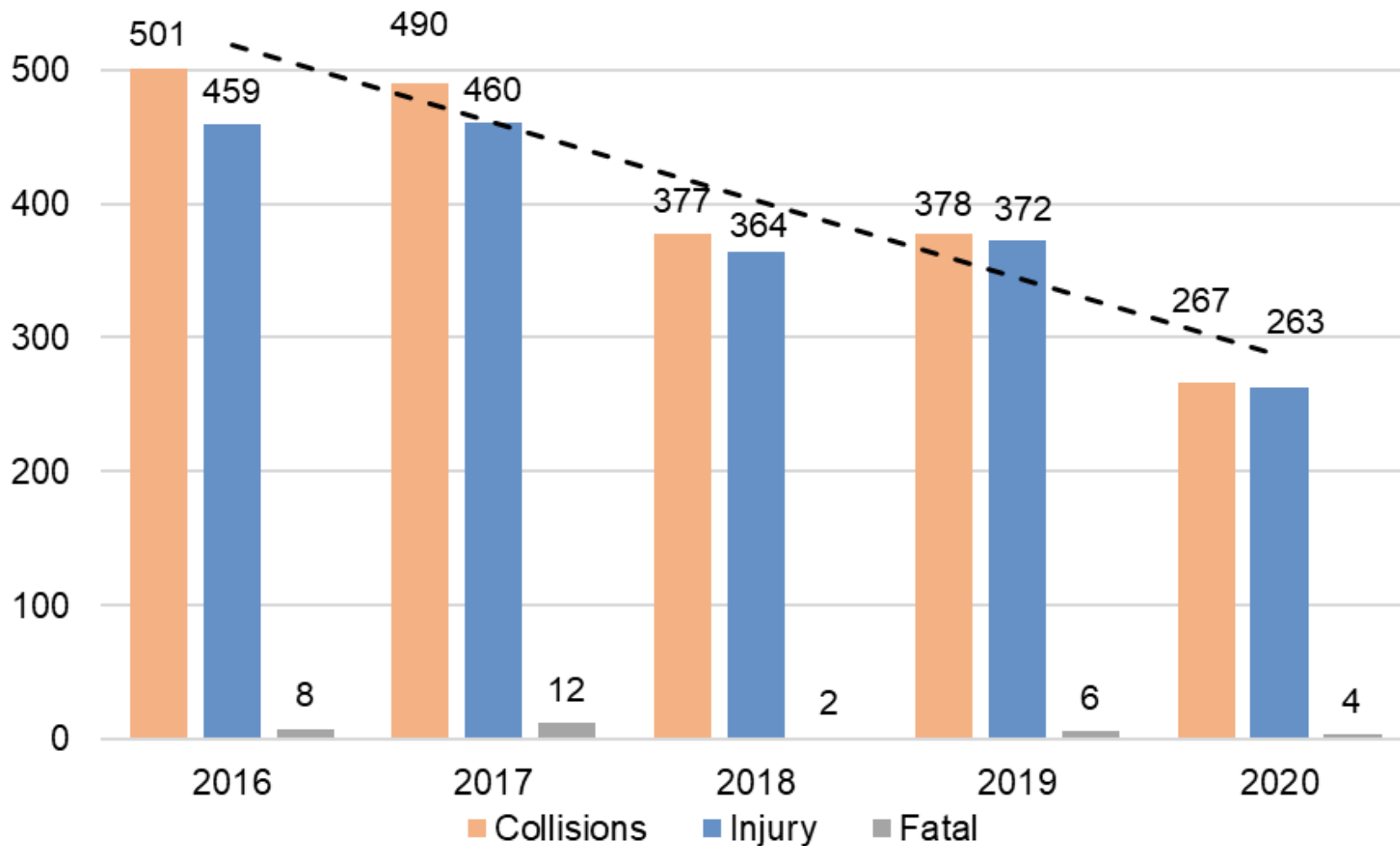
Note: In collisions involving more than one pedestrian, the attributes of only one pedestrian are used and chosen based on higher injury severity, then lowest age if needed.

## International Walk to School Day

Mayor Kate Gallego and Staff Participate in the International Walk to School Day Events at Greenway and Papago Elementary Schools.

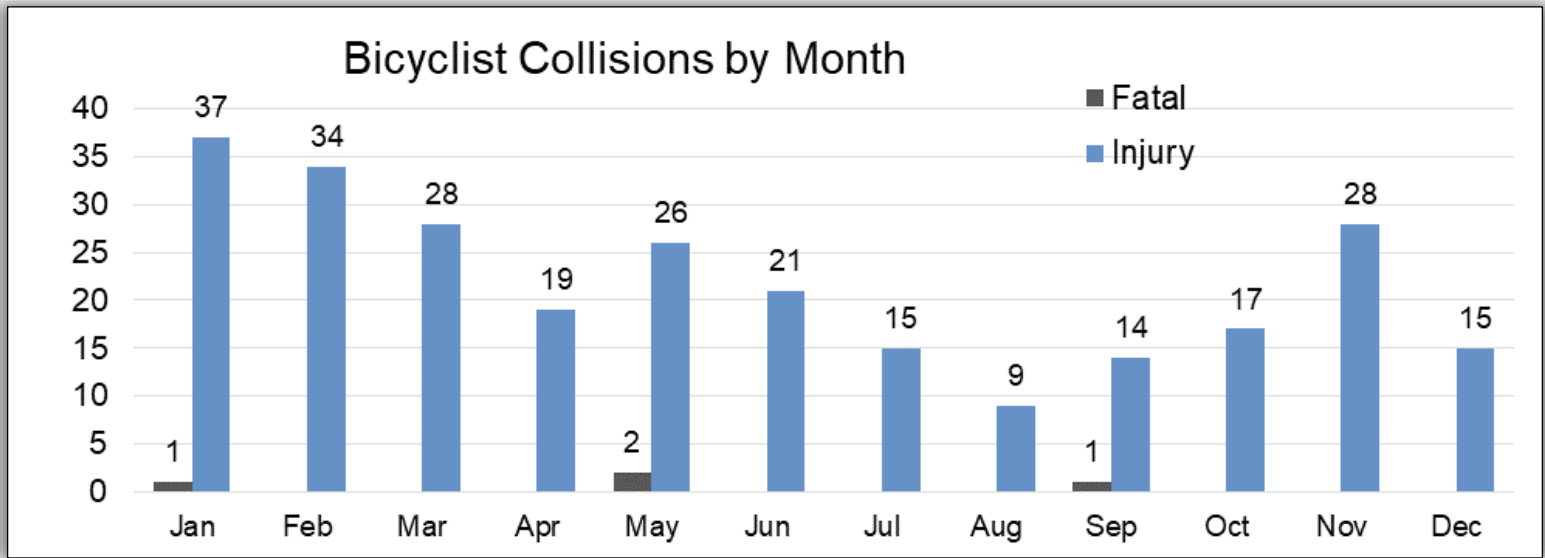
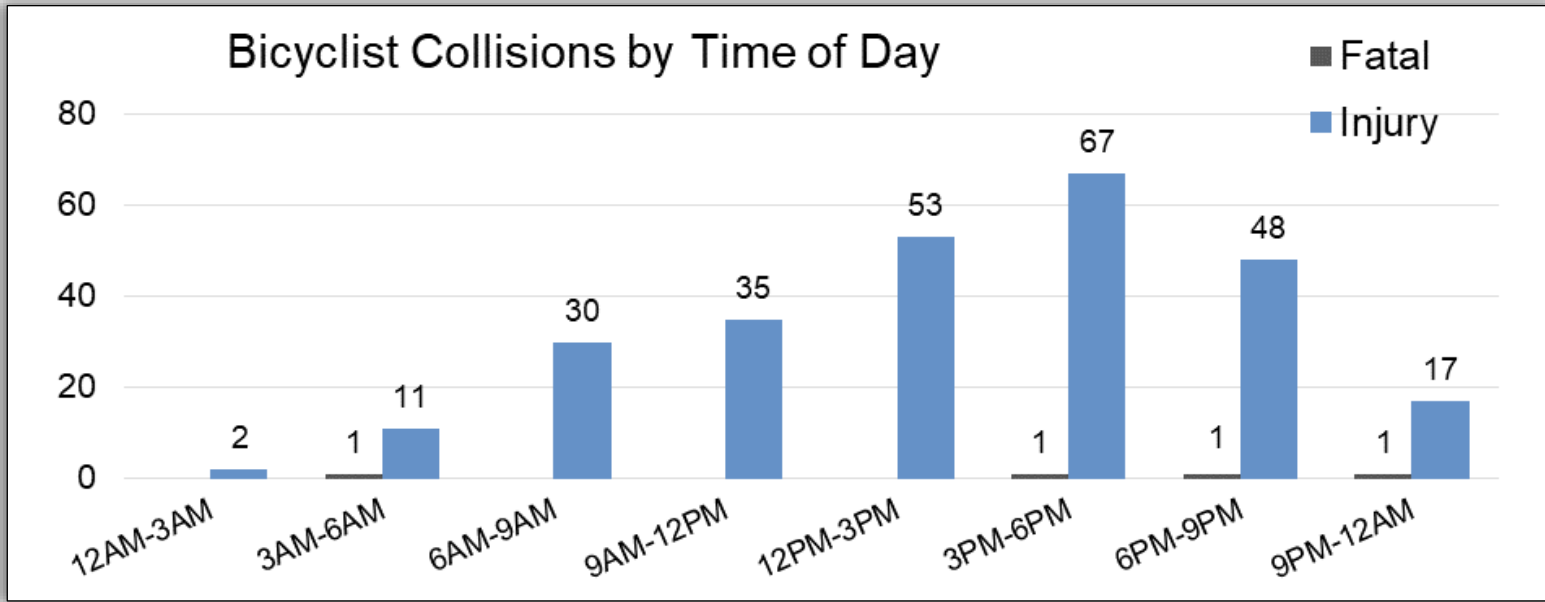


# Bicycle Collisions



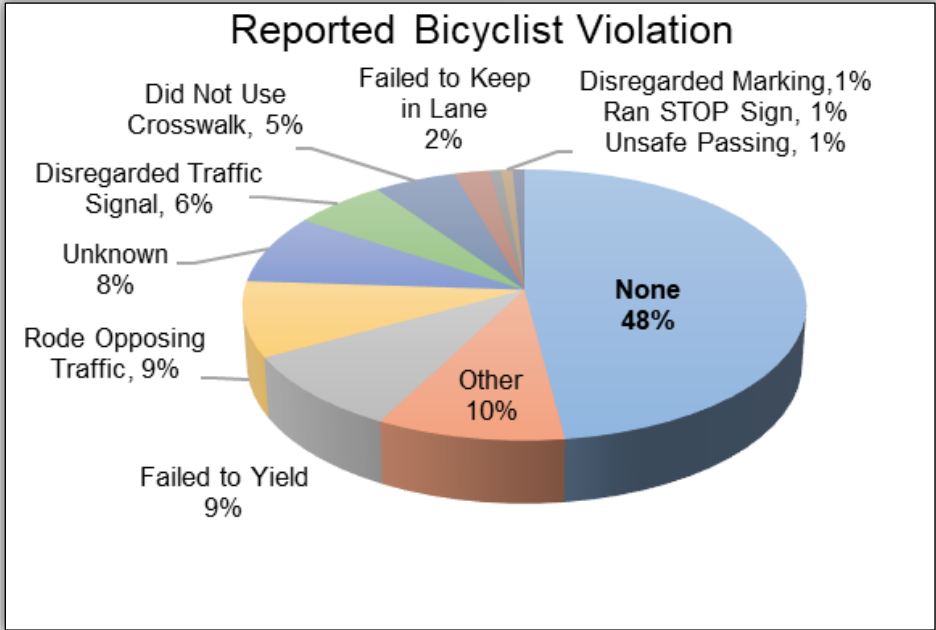
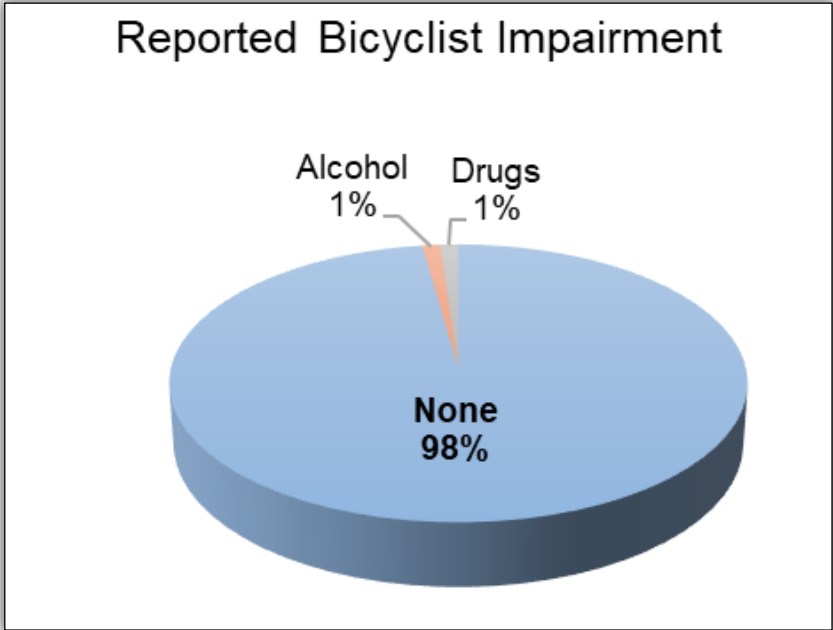
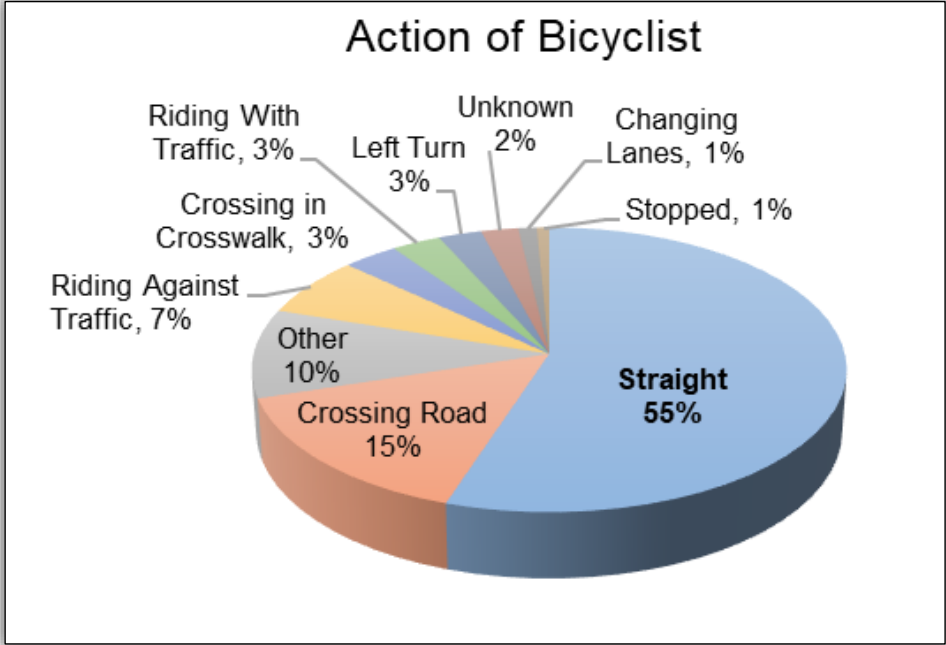
## Bike Facility Improvements Downtown Phoenix



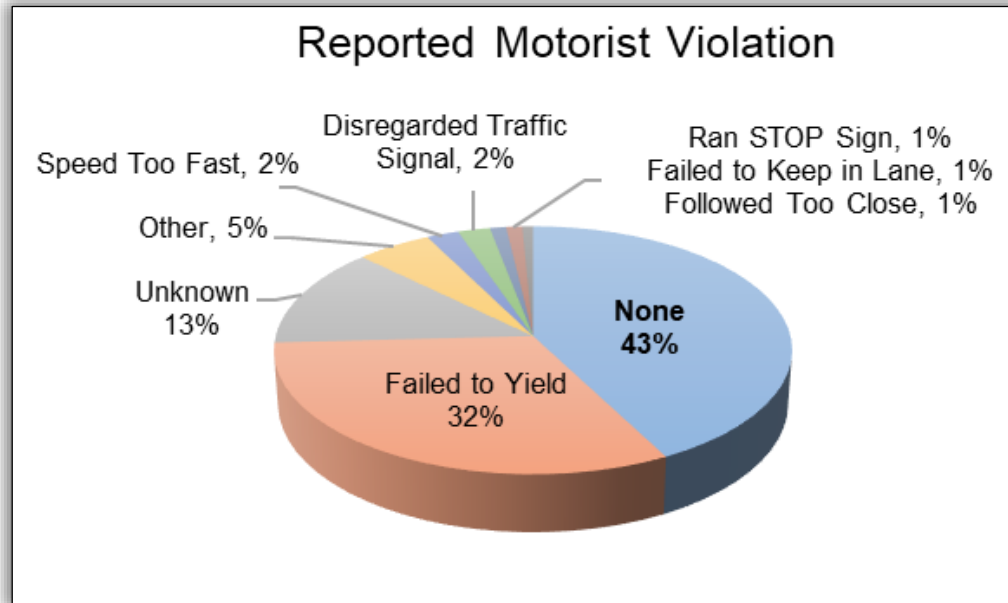
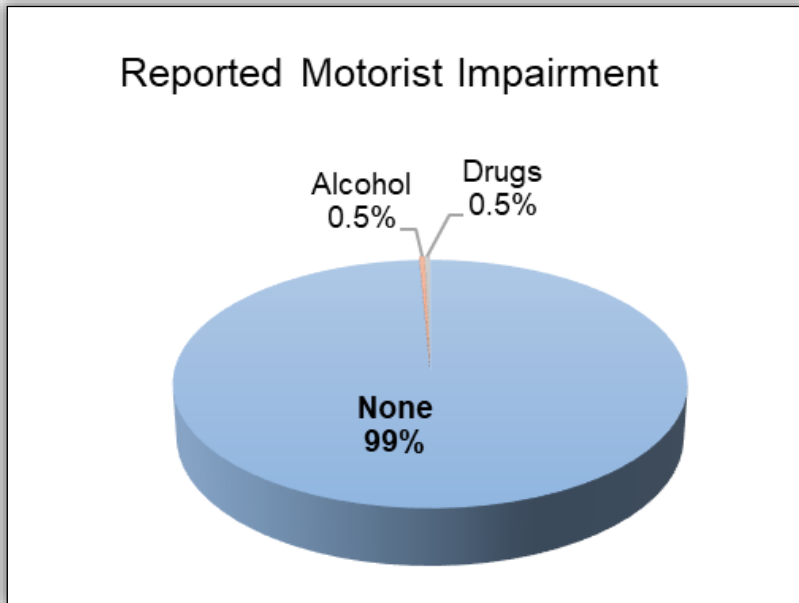
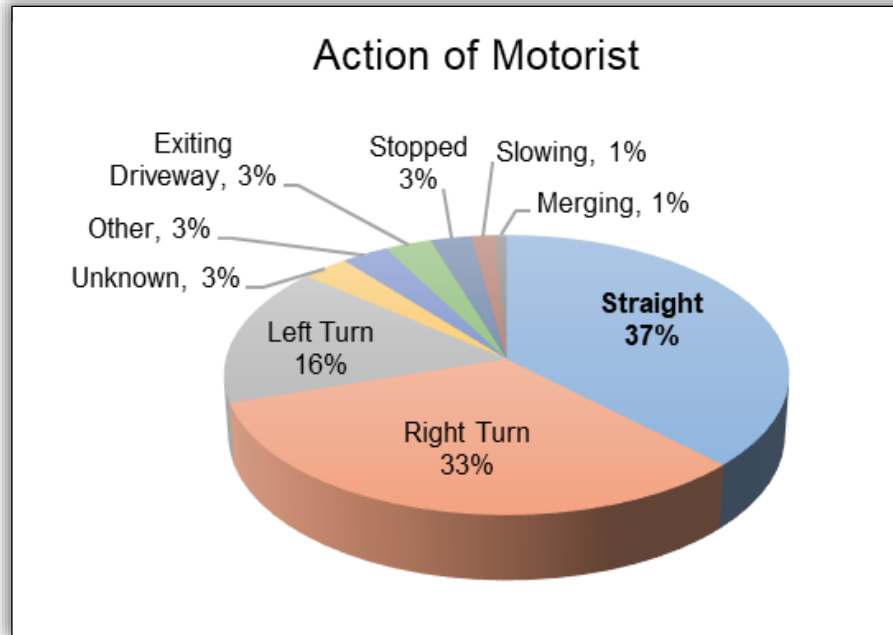




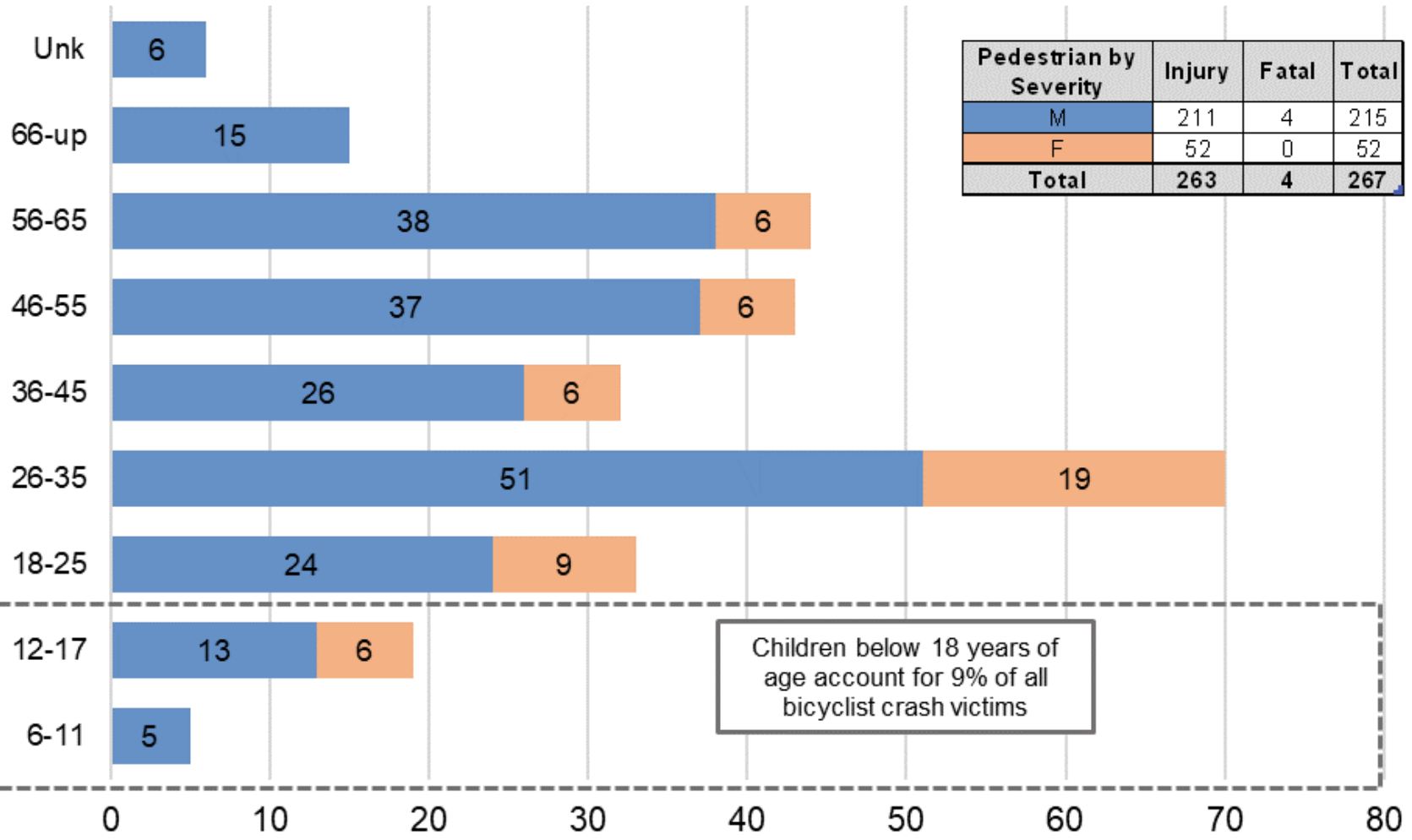
# Bicycle Collisions



# Bicycle Collisions



## Age and Gender of Bicyclist in Collisions



Pedestrian by Severity	Injury	Fatal	Total
M	211	4	215
F	52	0	52
<b>Total</b>	<b>263</b>	<b>4</b>	<b>267</b>

Children below 18 years of age account for 9% of all bicyclist crash victims

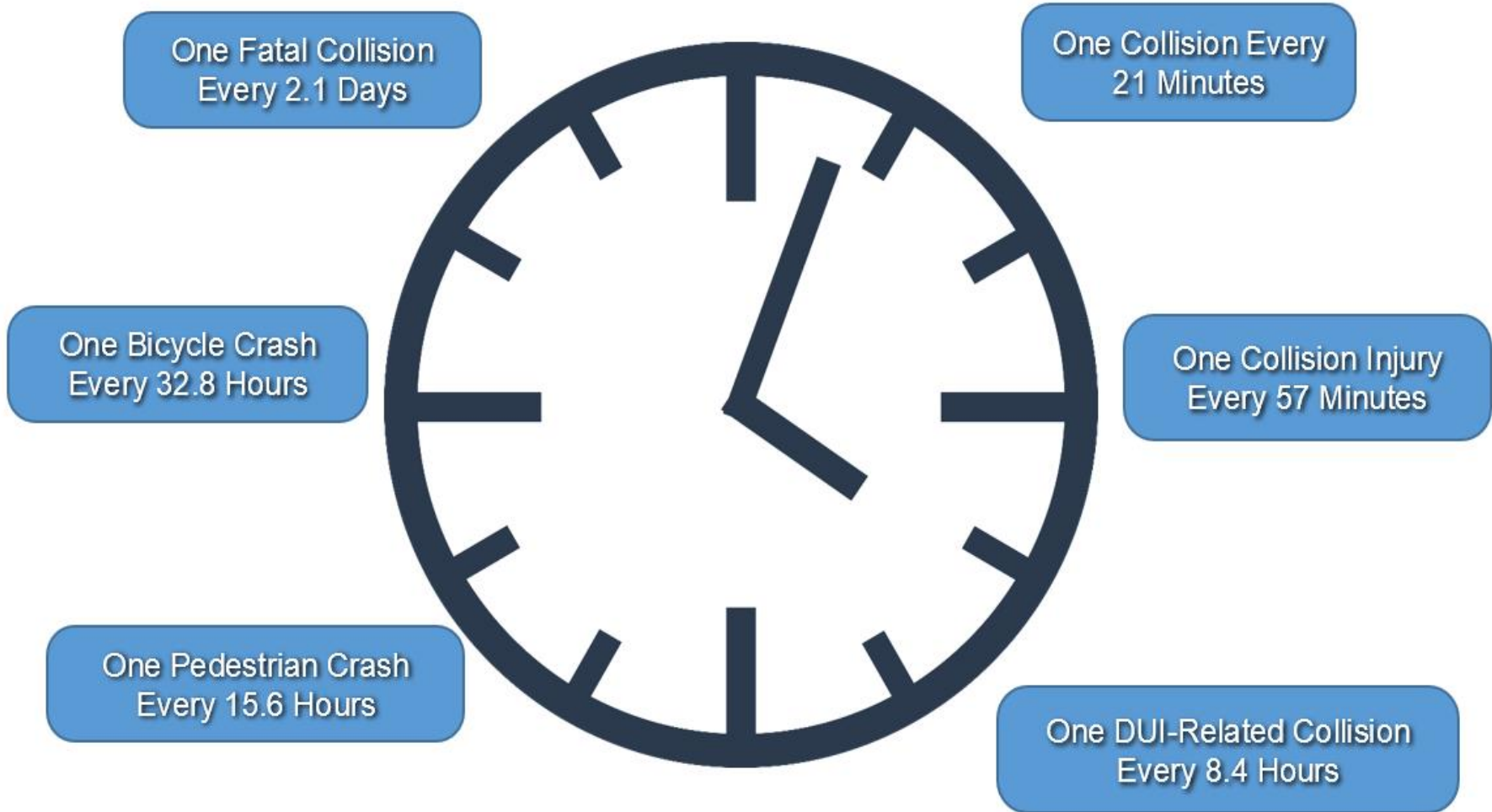
Streets staff worked with Council District 8, Police, Fire, Public Works, NSD and Library staff to provide free bike helmets, operate a bike rodeo and offer free car seat checks.



Mountain Shadows Elementary “Walk to School Day” Event. The group started at the greenbelt at 45th Avenue and Julie Drive and walked through the neighborhood until they reached the school.



# Phoenix Traffic Clock



# Acknowledgements

The 2020 Phoenix Collision Summary documents the collisions in the City of Phoenix throughout the 2020 calendar year. Collision data utilized for this report was acquired through Phoenix Police records and the database maintained by the Arizona Department of Transportation (ADOT) known as Safety Data Mart (SDM). The 2020 Comprehensive Traffic Collision Summary was prepared by Traffic Safety Section staff Jacob Martinez (Senior Engineering Technician).

The SDM database includes motor vehicle crashes that occurred on public right of way where someone was injured, killed or property damage exceeded \$2,000.

The cover graphic of the Phoenix road network is courtesy of the ISS Crew Earth Observations experiment and Image Science & Analysis Laboratory, Johnson Space Center. Other photographs featured in this summary were taken by various employees or consultants of the City of Phoenix Street Transportation Department.

This publication can be made available in an alternative format upon request. Contact the Street Transportation Department at 602-262-6284 if you would like any of these services. Our TTY phone number is 711.

# Questions?

Please contact Street Transportation Department at  
602-262-6284 or TTY 711

