

2018 Comprehensive Traffic Collision Summary



City of Phoenix
STREET TRANSPORTATION DEPARTMENT

TRAFFIC SERVICES DIVISION
NOVEMBER 2018

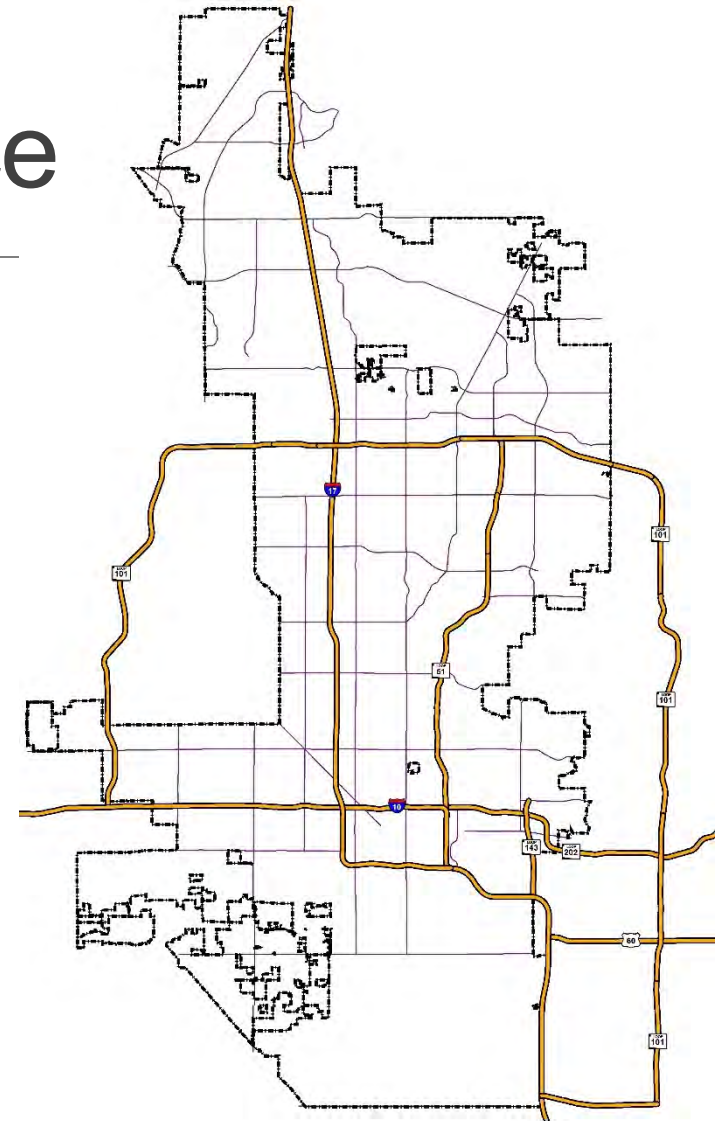
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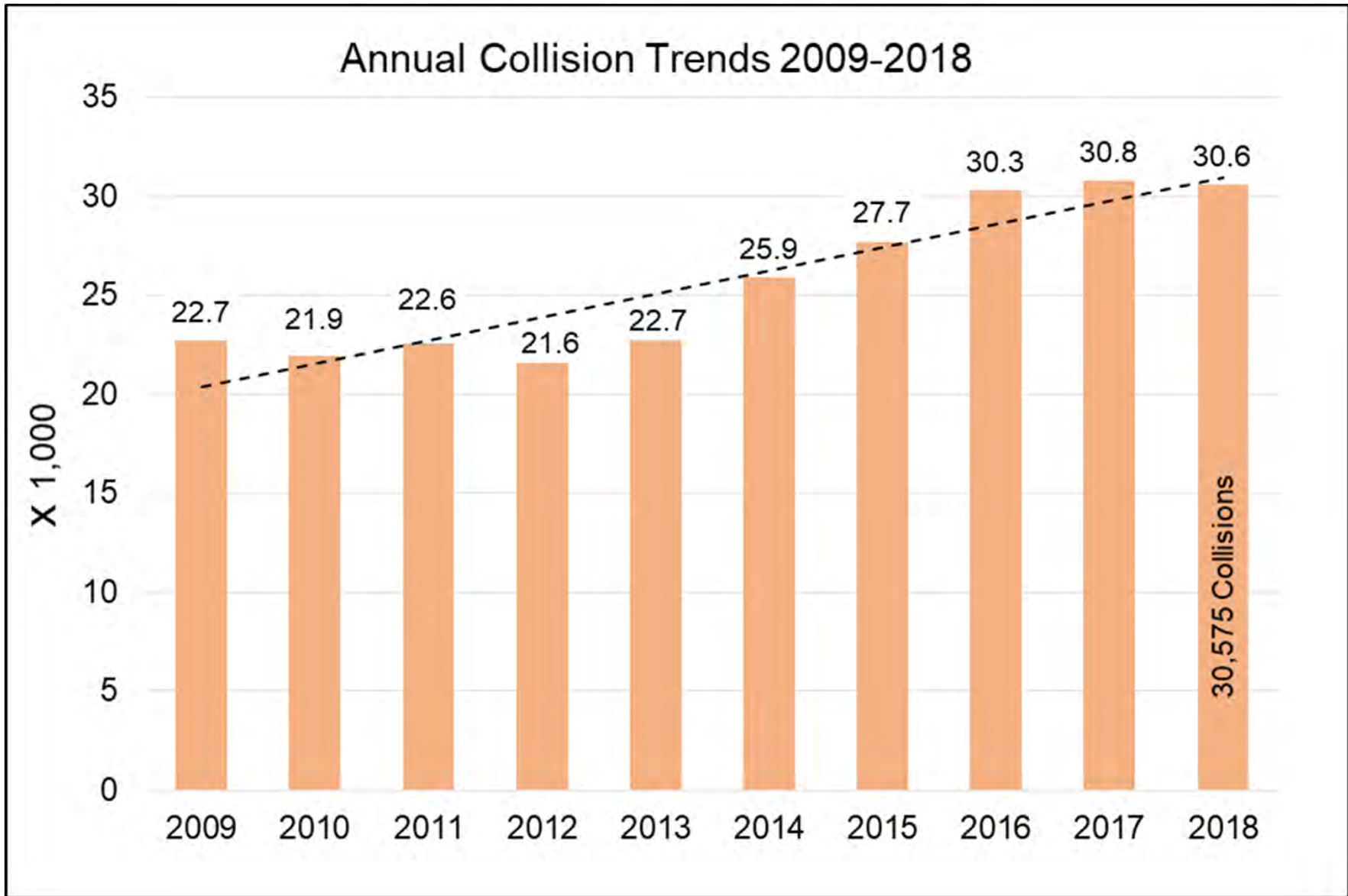
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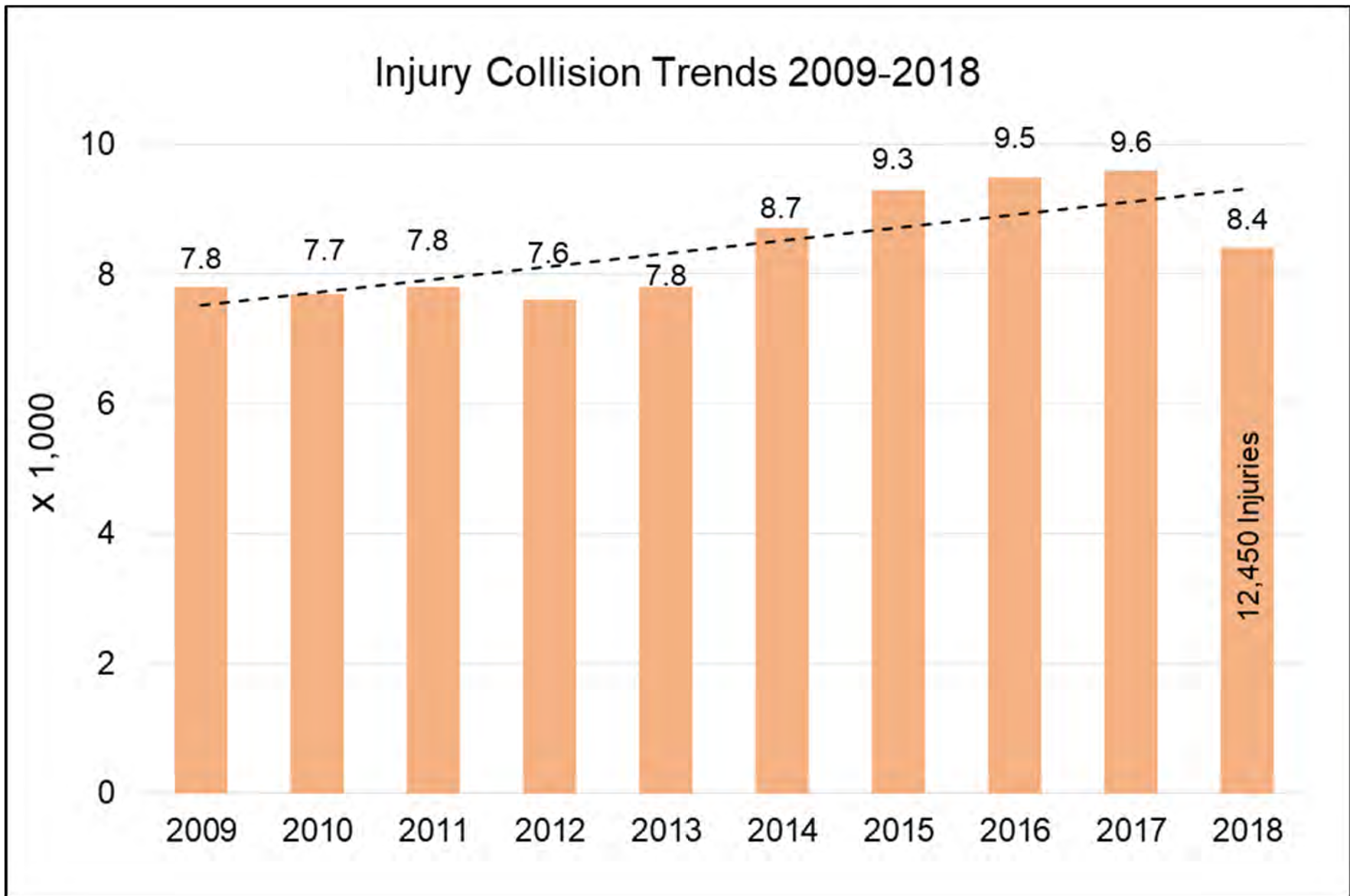
2018 Facts-at-a-Glance

This is a detailed analysis of the raw data from collisions in the City of Phoenix during 2018:

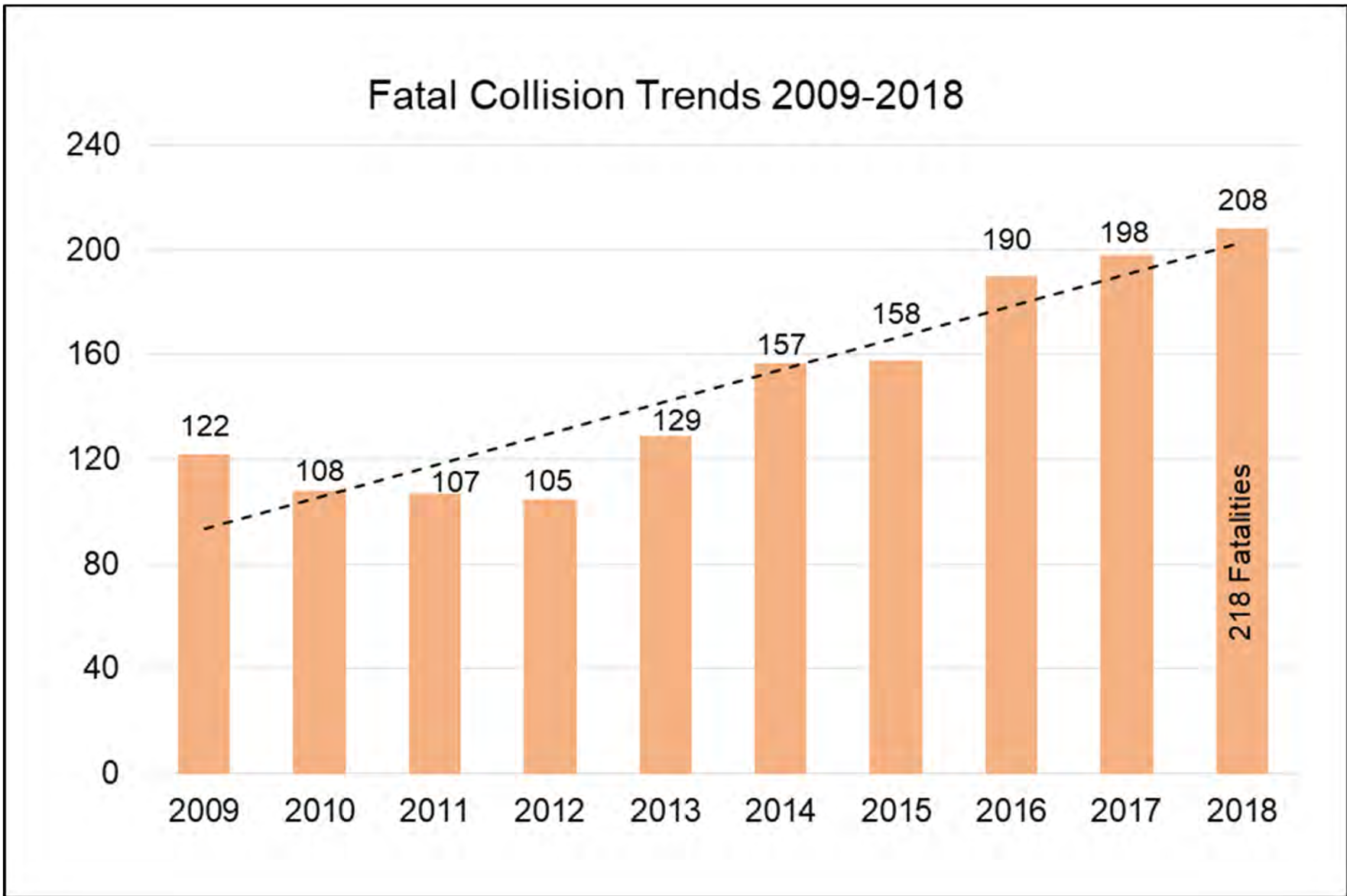
- Total of 30,575 collisions resulting in 12,450 injuries and 218 fatalities.
- Eighty-two percent of all crashes were either rear end, angle, sideswipe or left turn.
- Pedestrian collisions reached a ten year high of 772 incidents with 659 injuries and 105 fatalities.





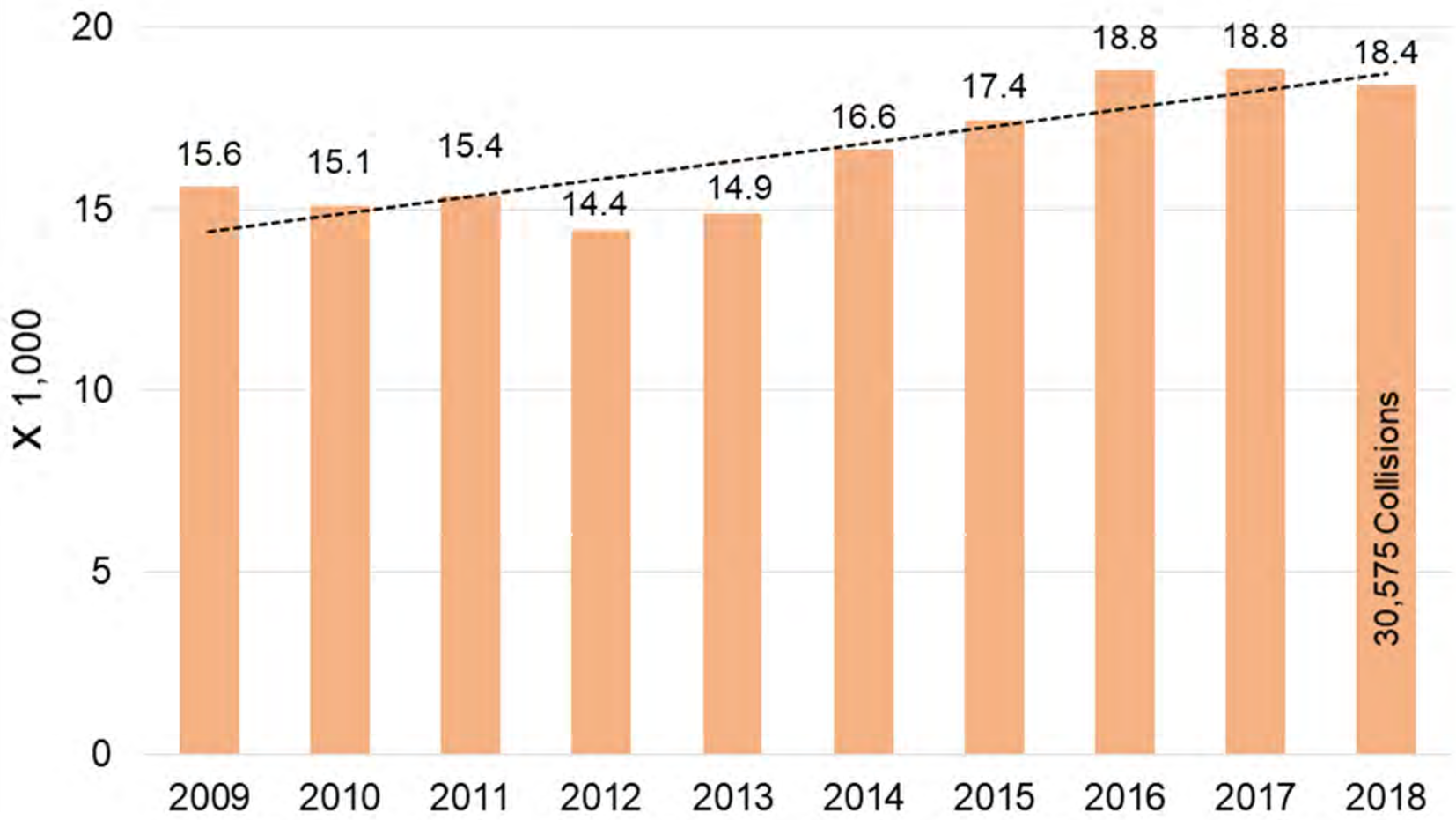


Note: Some collisions result in multiple injuries.



Note: Some collisions result in multiple fatalities.

Annual Collision Per 1000 Residents 2009-2018





Pedestrian signal (HAWK) at the Phoenix Hebrew Academy at 515 E. Bethany Home Rd.

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

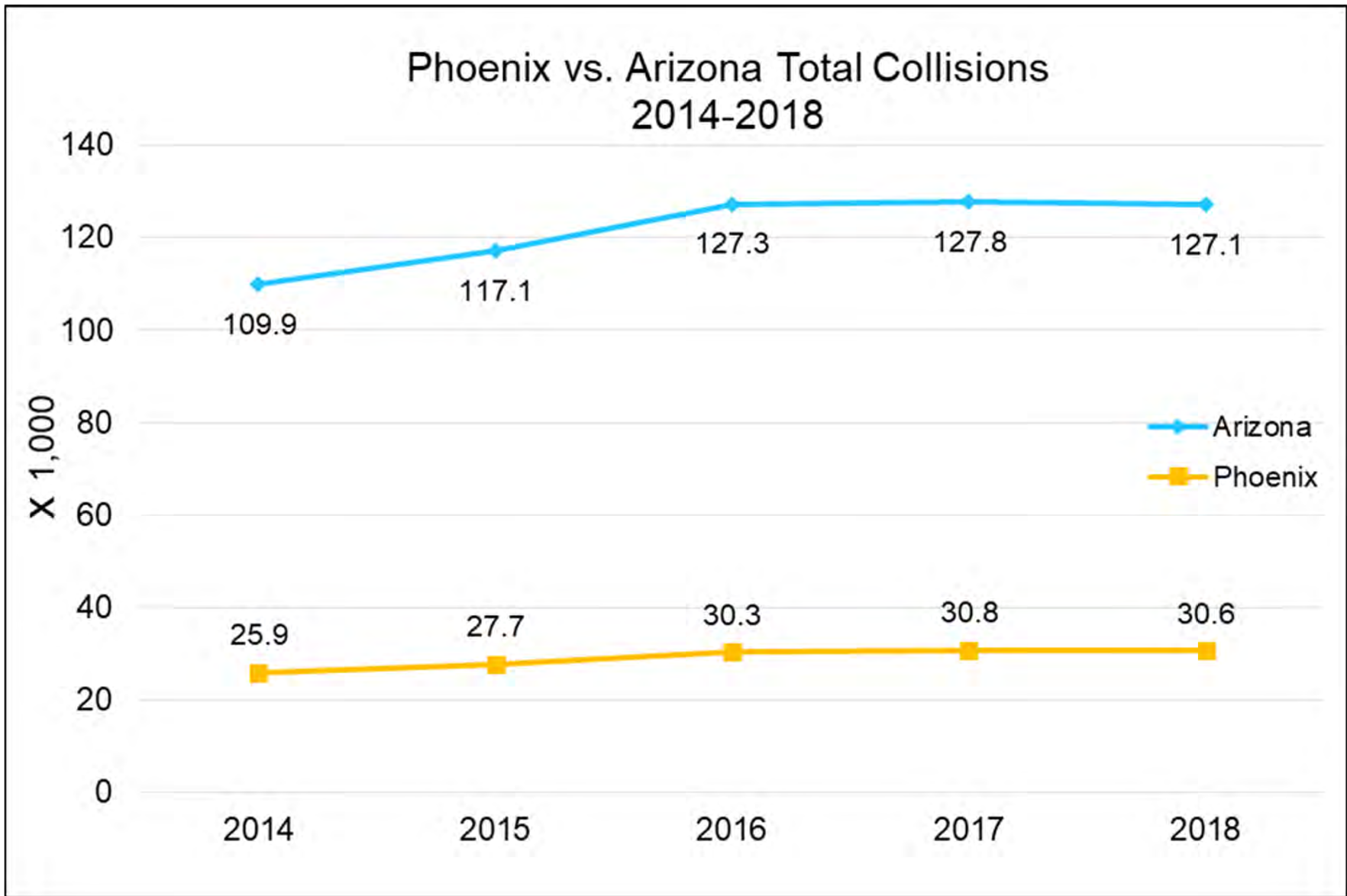




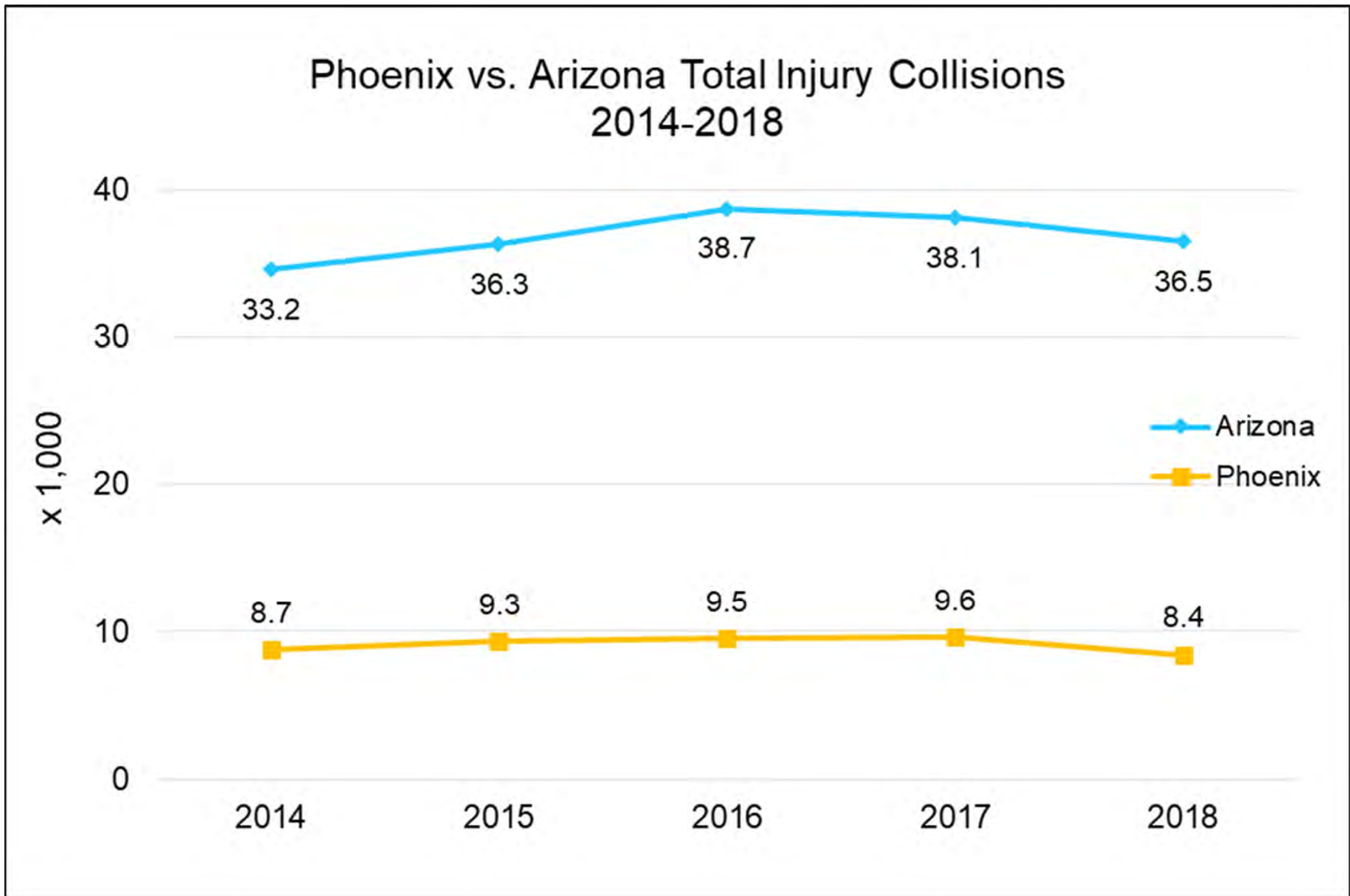
Protected Bike lanes on 15th Avenue from Jefferson to Van Buren Streets

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

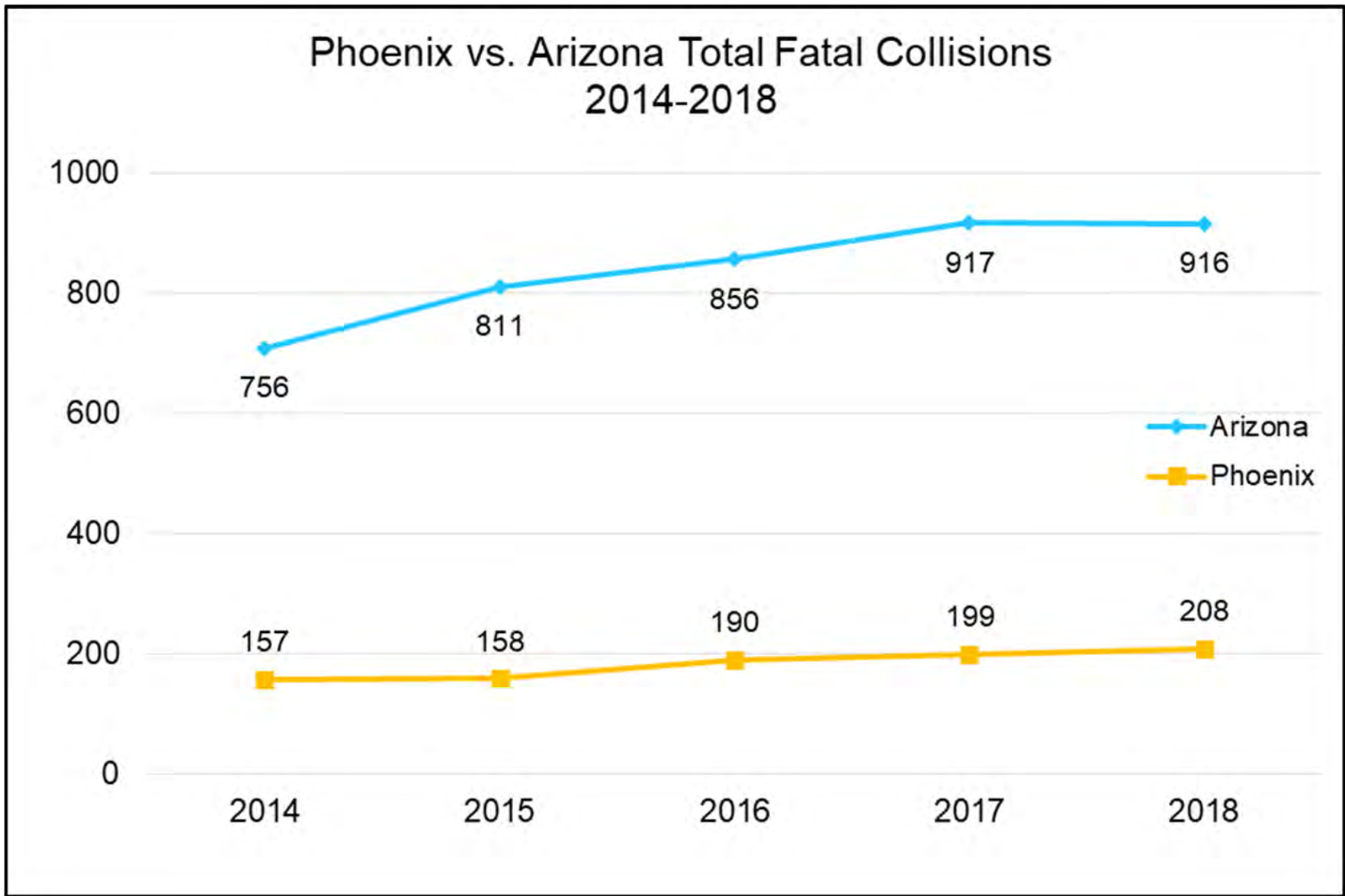




*Arizona data comes from the 2018 Arizona Crash Facts Summary (ADOT)

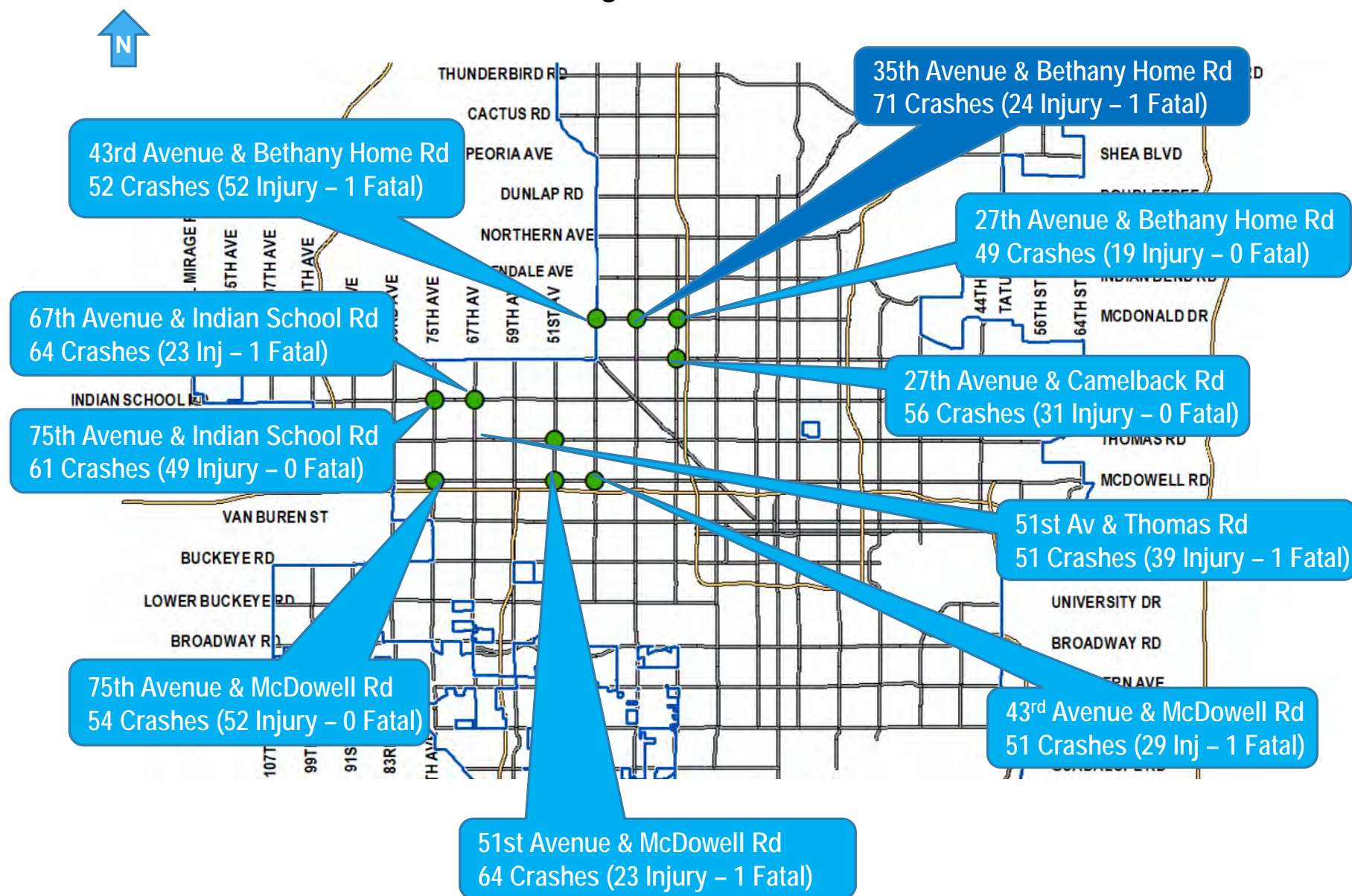


*Arizona data comes from the 2018 Arizona Crash Facts Summary (ADOT)

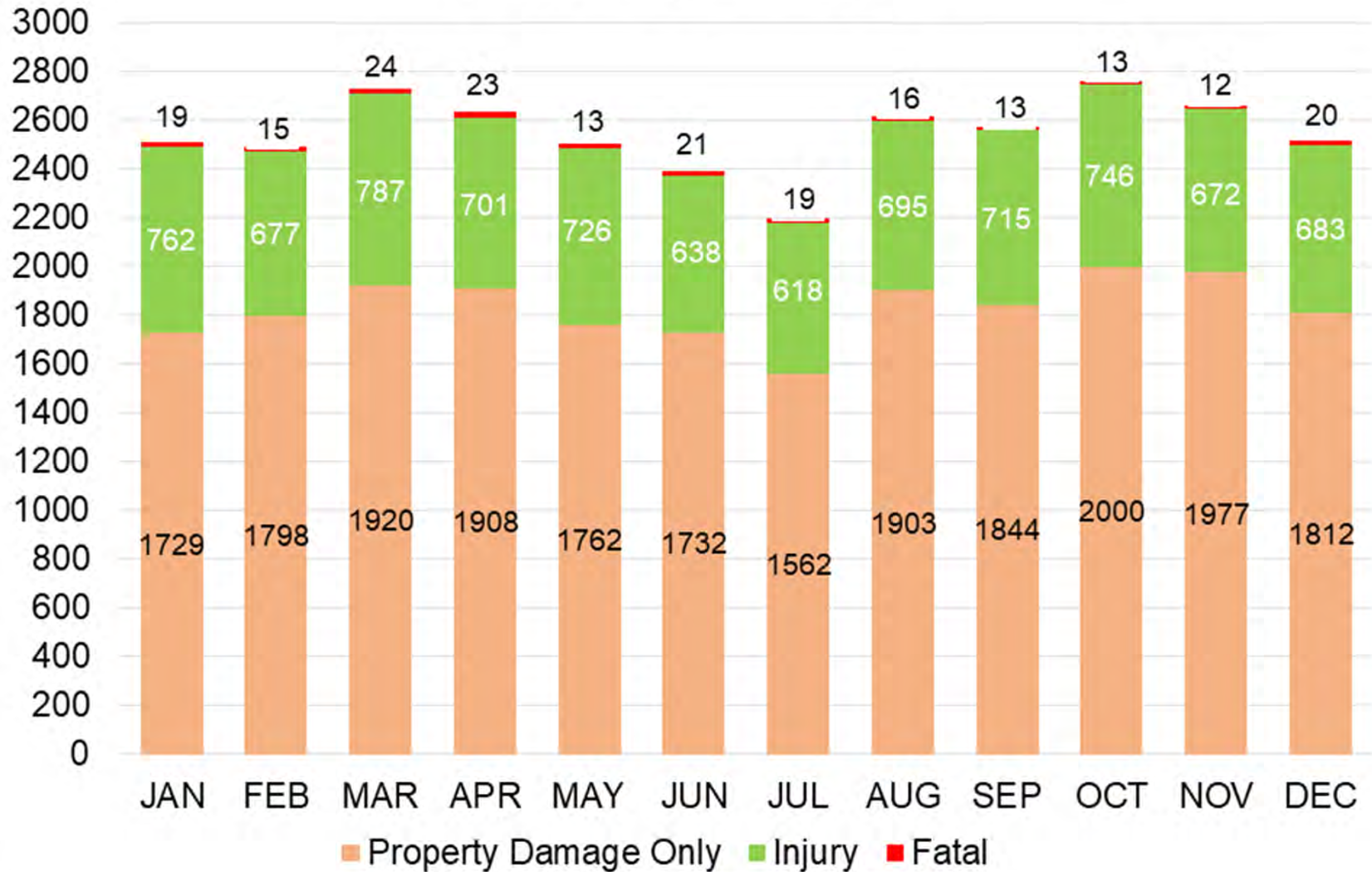


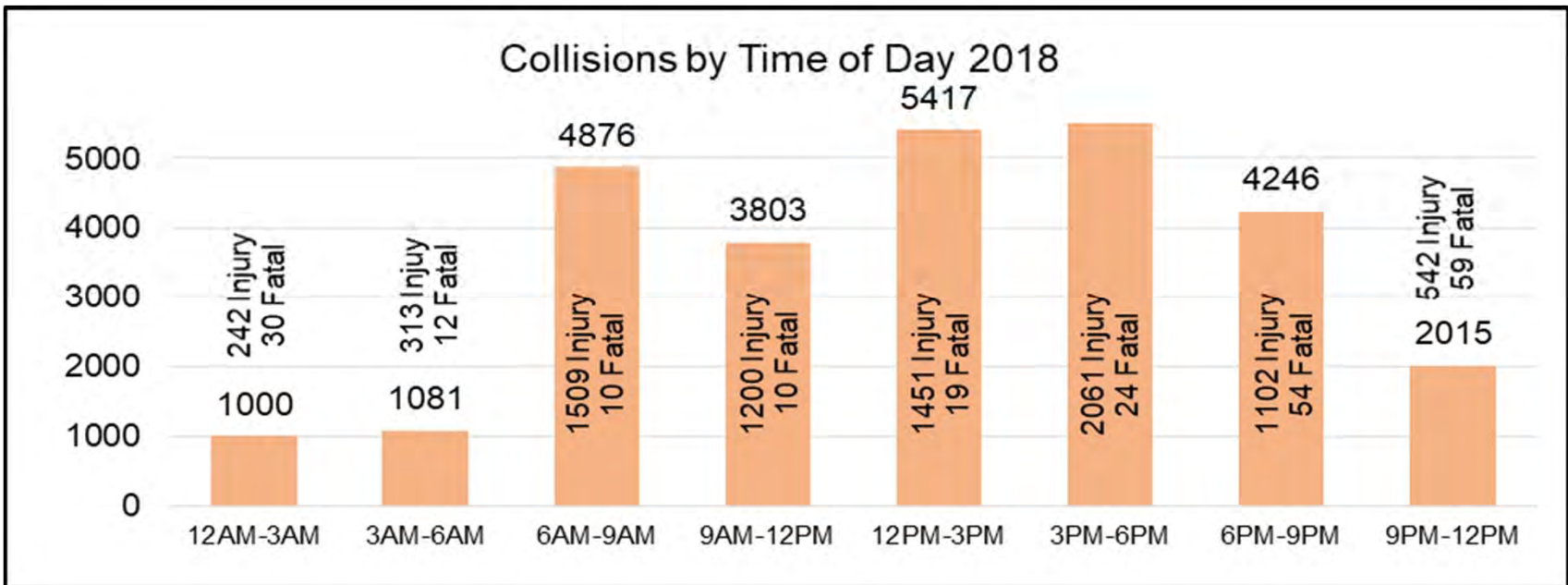
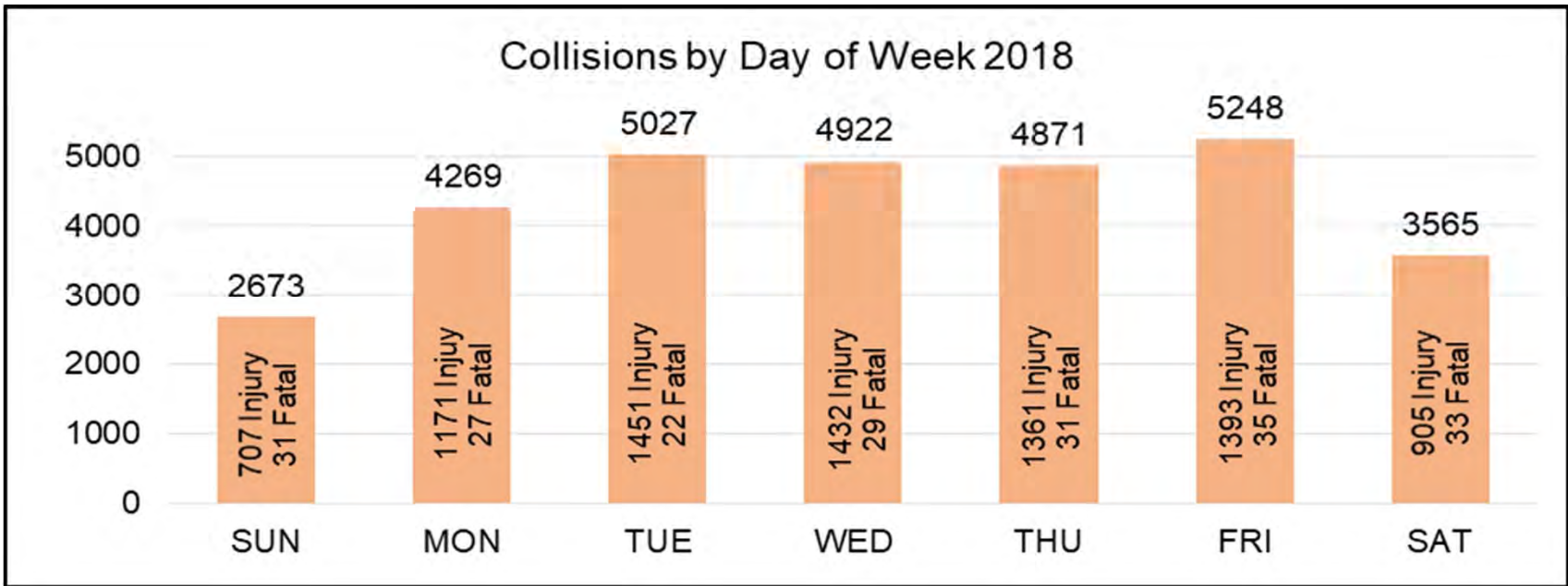
*Arizona data comes from the 2018 Arizona Crash Facts Summary (ADOT)

Locations with the Highest Number of Collisions 2018

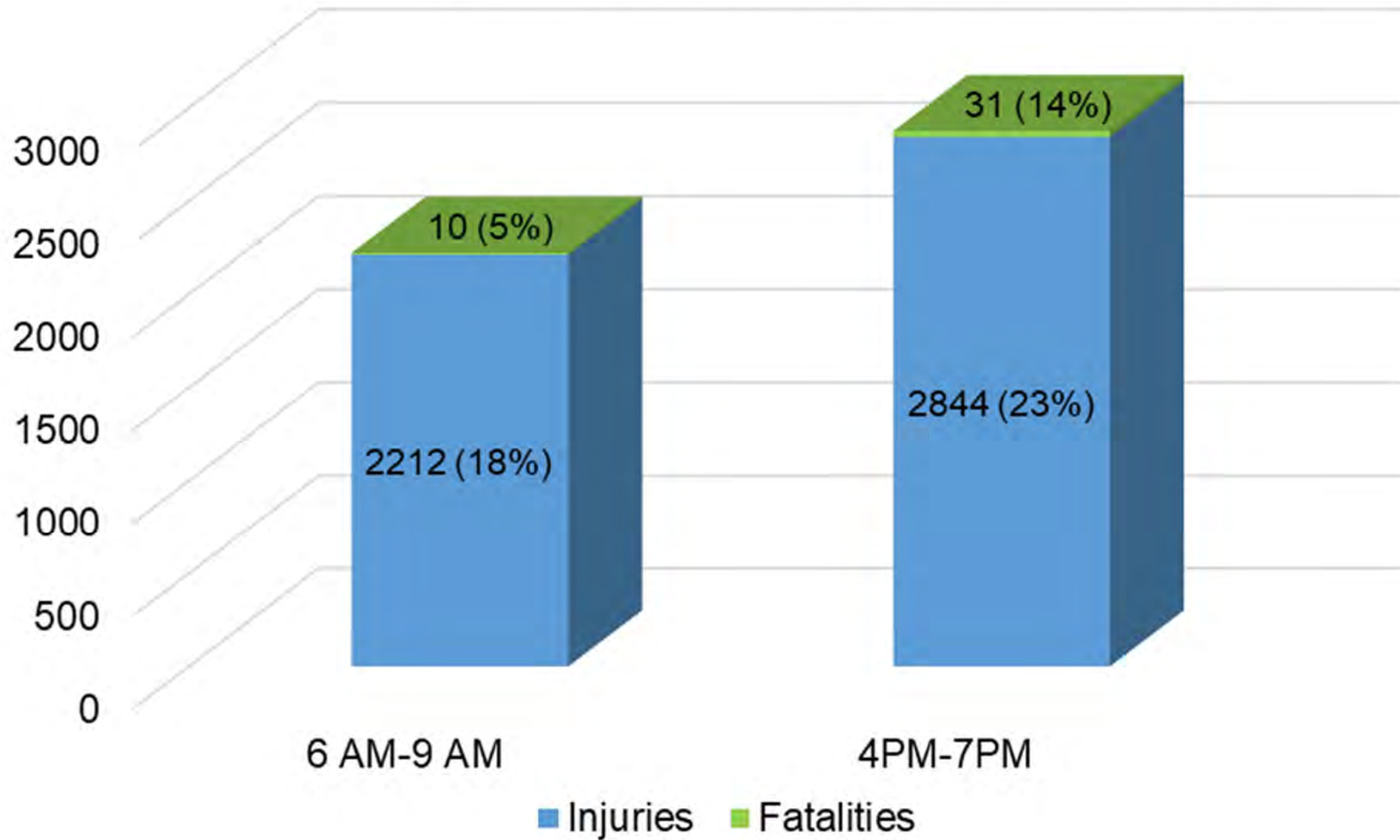


Collisions by Month 2018



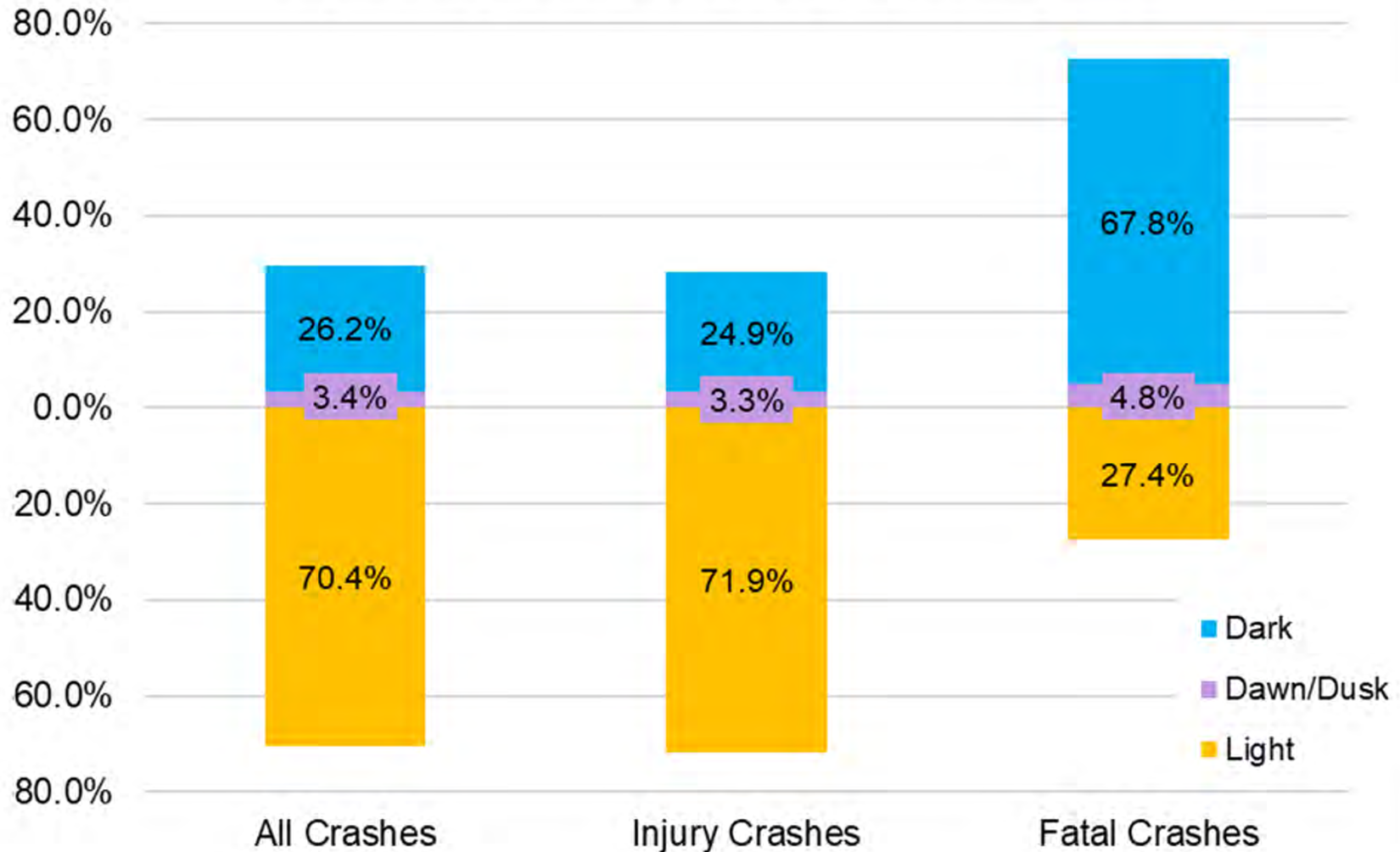


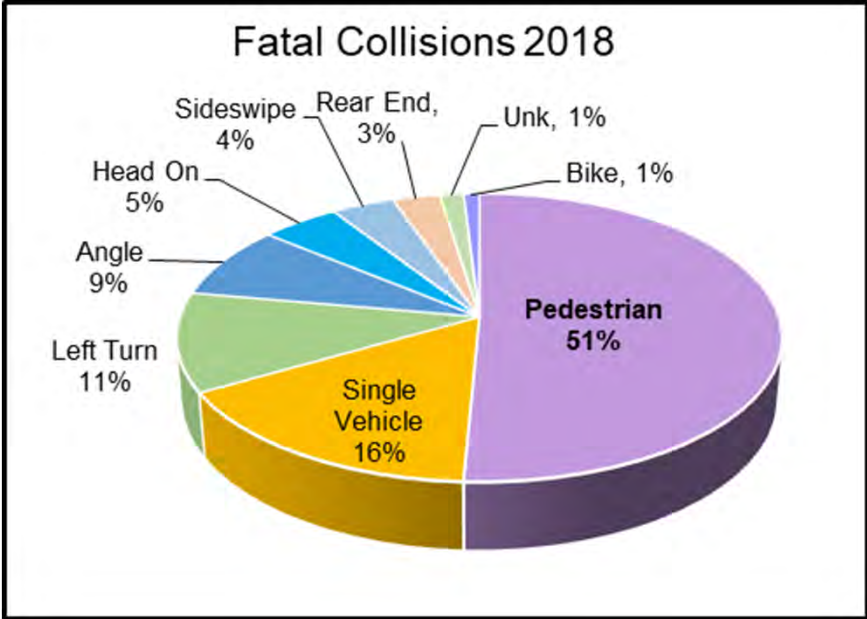
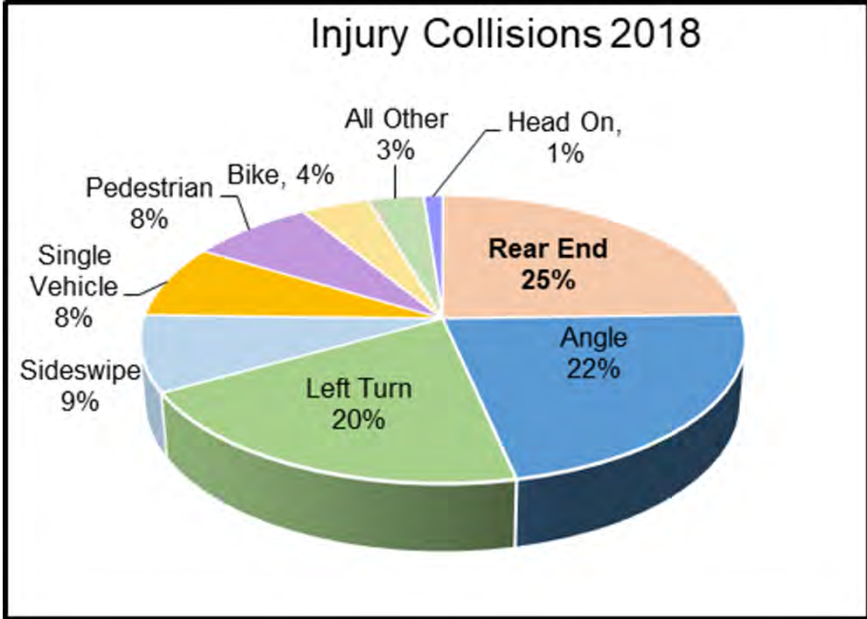
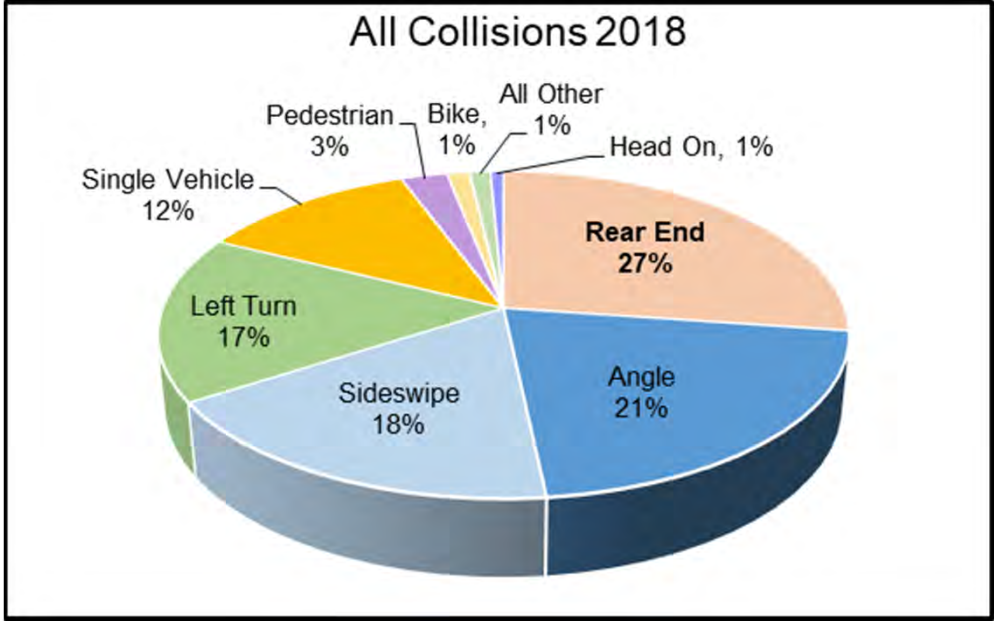
Rush Hour Injuries and Fatalities 2018



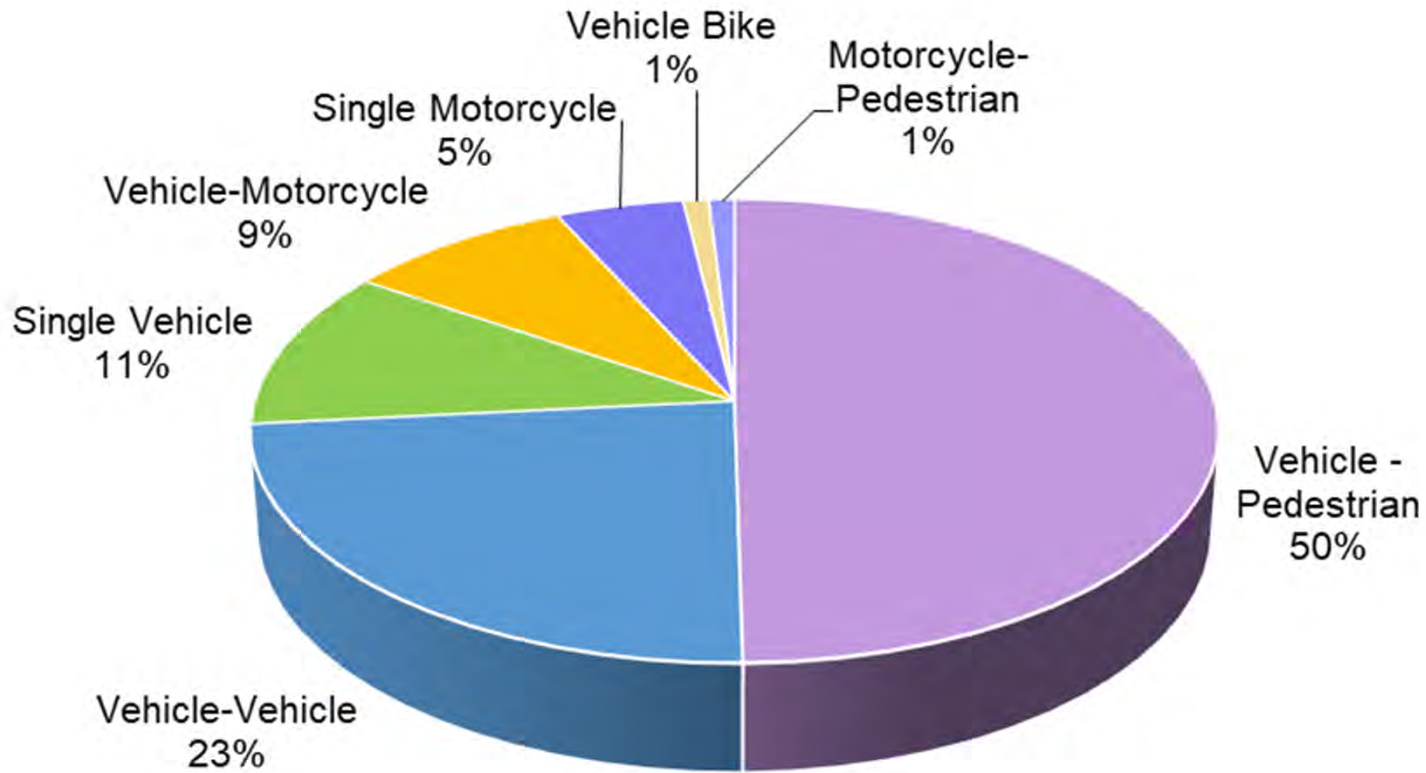
2018 Rush Hour related crashes were 41% of total injuries and 19% of total fatalities

Collision Severity by Light Conditions 2018



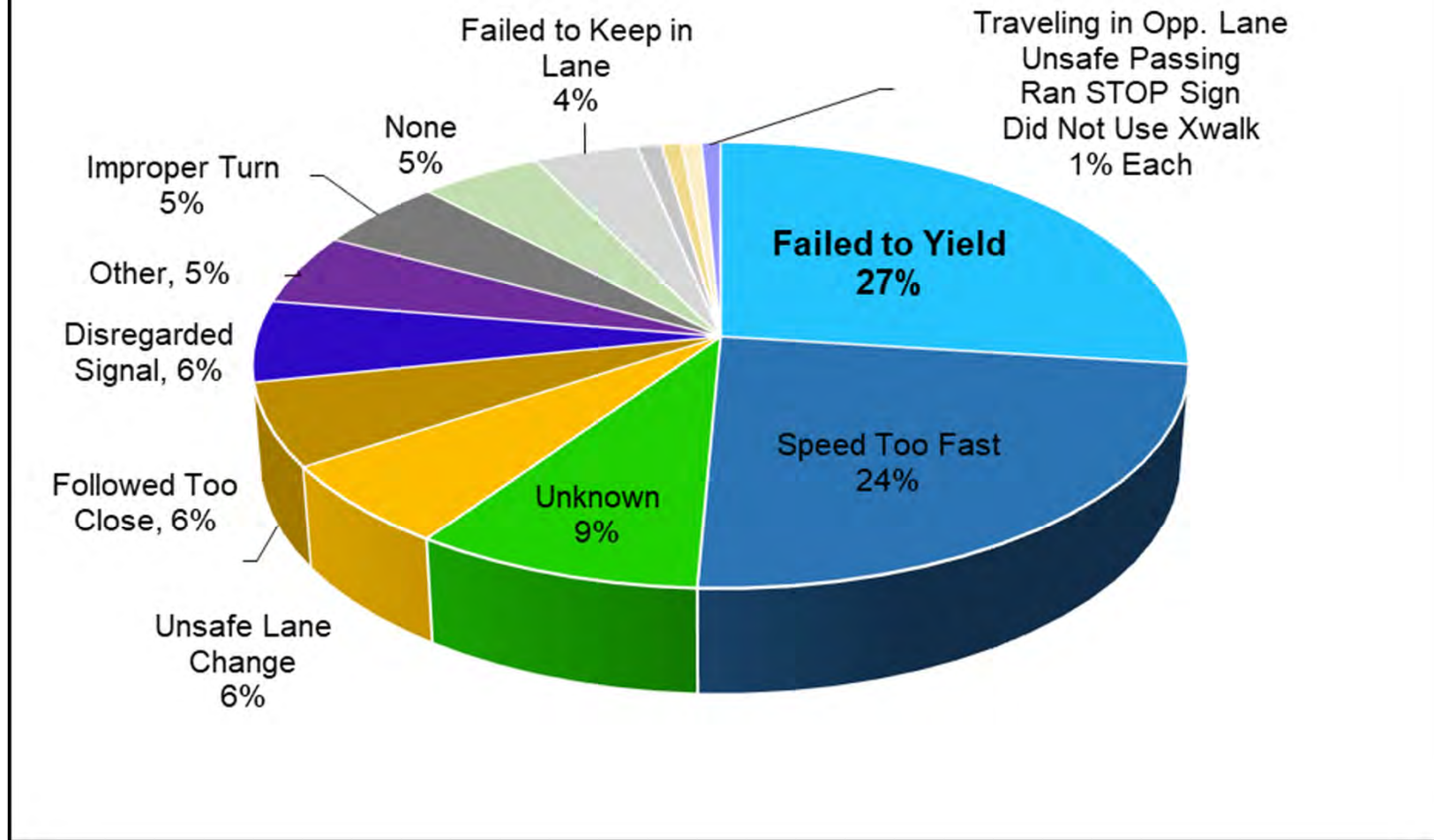


Fatal Collisions by Mode of Transportation 2018



208 Total Fatal Collisions

Collisions by Primary Behavior/Violation 2018



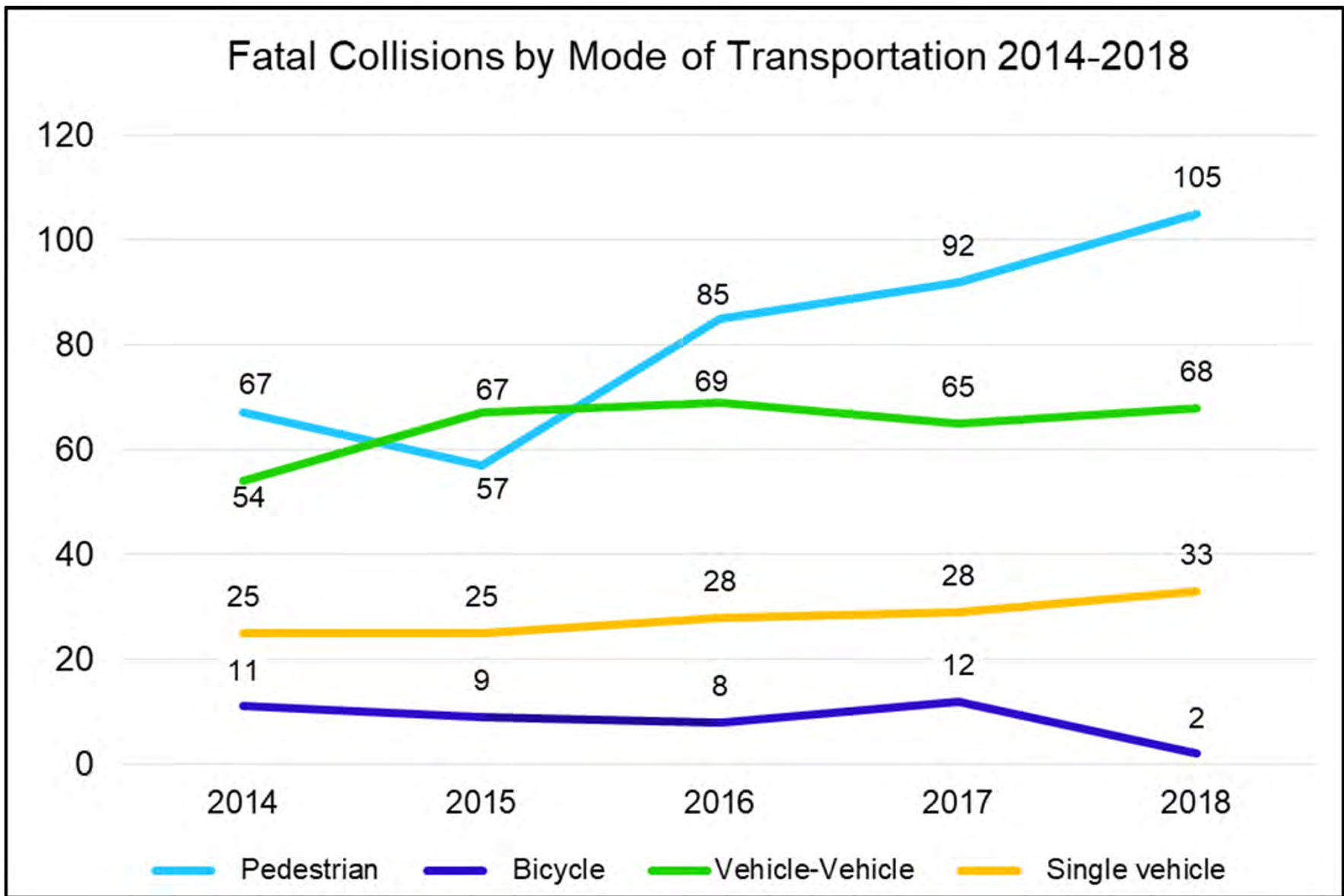
1 – “Speed Too Fast” does not necessarily mean the person was exceeding the speed limit but rather the person was traveling too fast for the conditions at the time.

2 – “Unknown” includes leaving the scene, conflicting statements without witnesses, incapacitated persons.

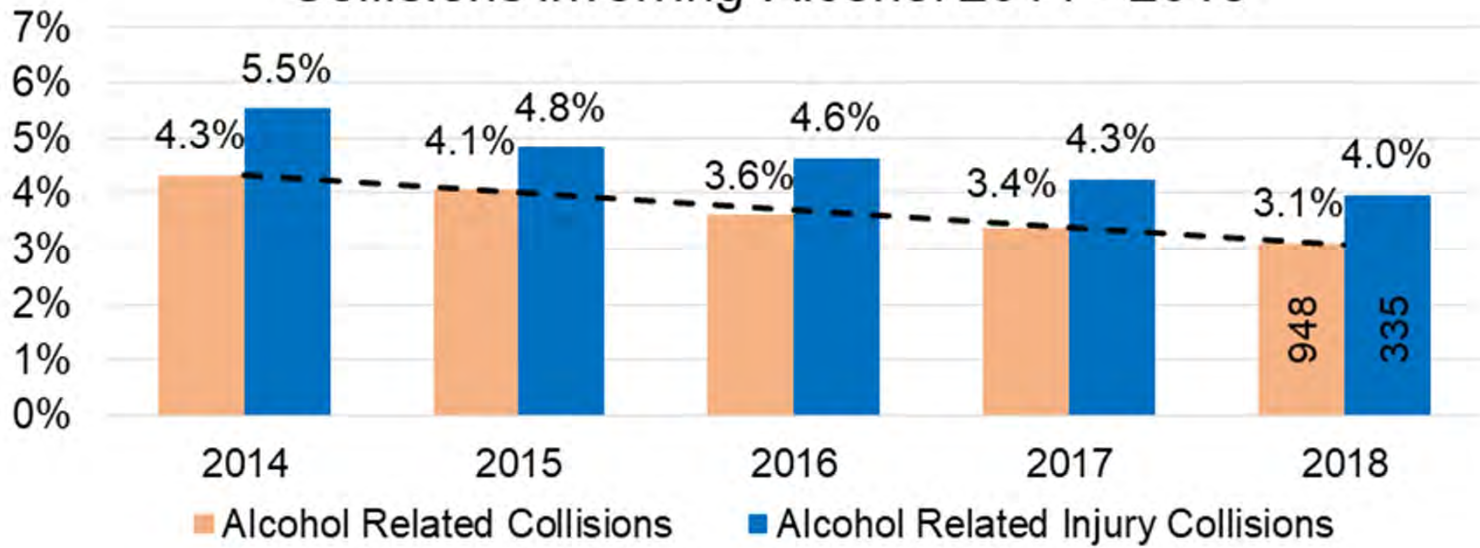
3 – “Other” includes less common violations such as Unsafe Passing and Operating with Faulty Equipment.

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.

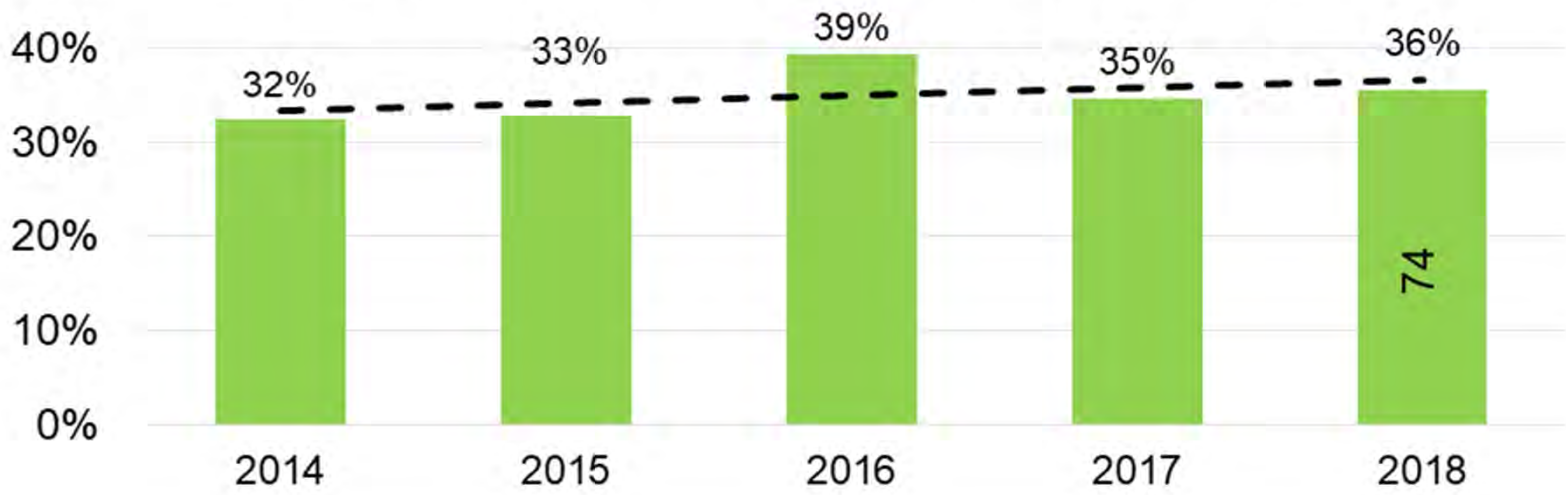
Fatal Collisions by Mode of Transportation 2014-2018



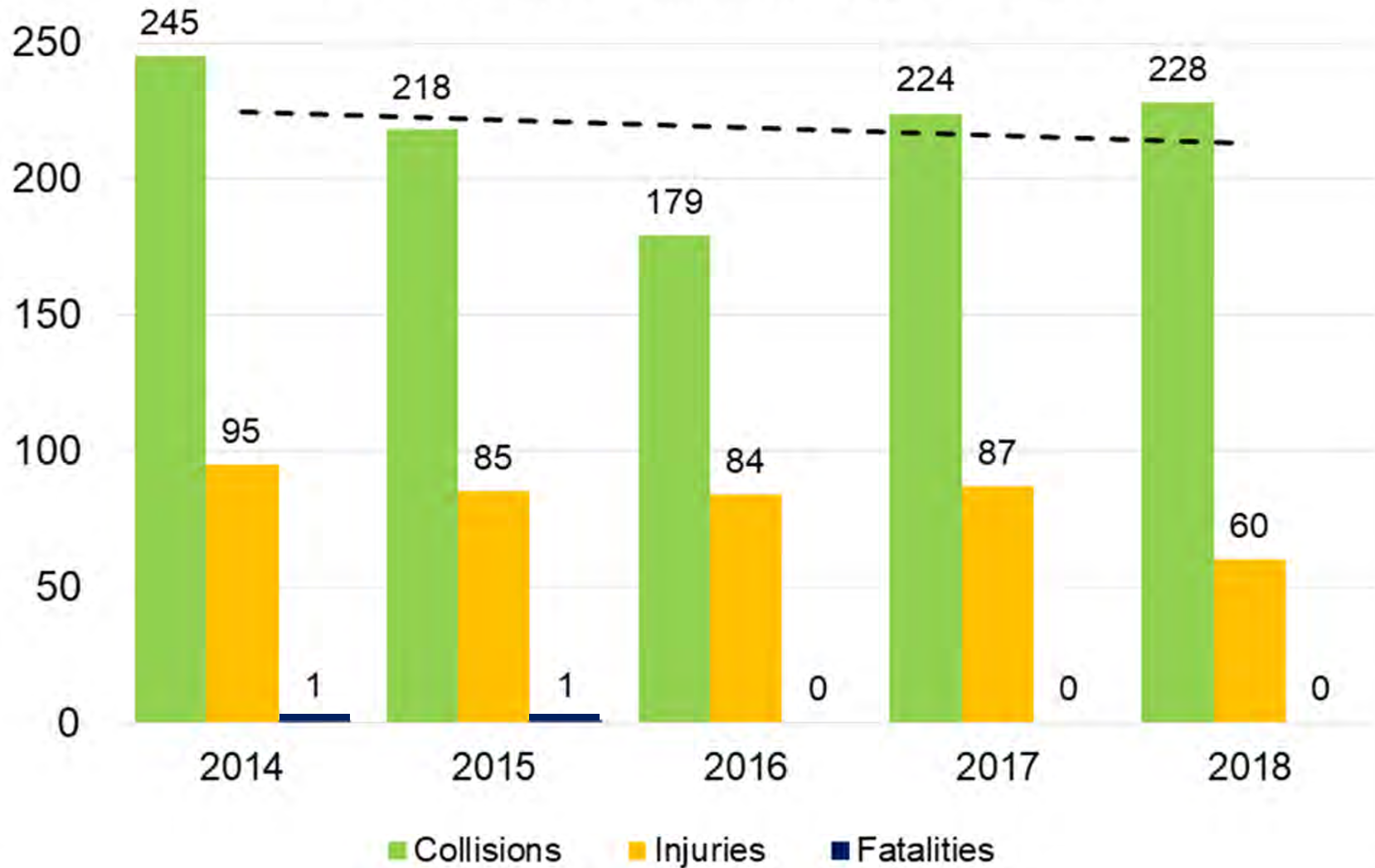
Collisions Involving Alcohol 2014 - 2018



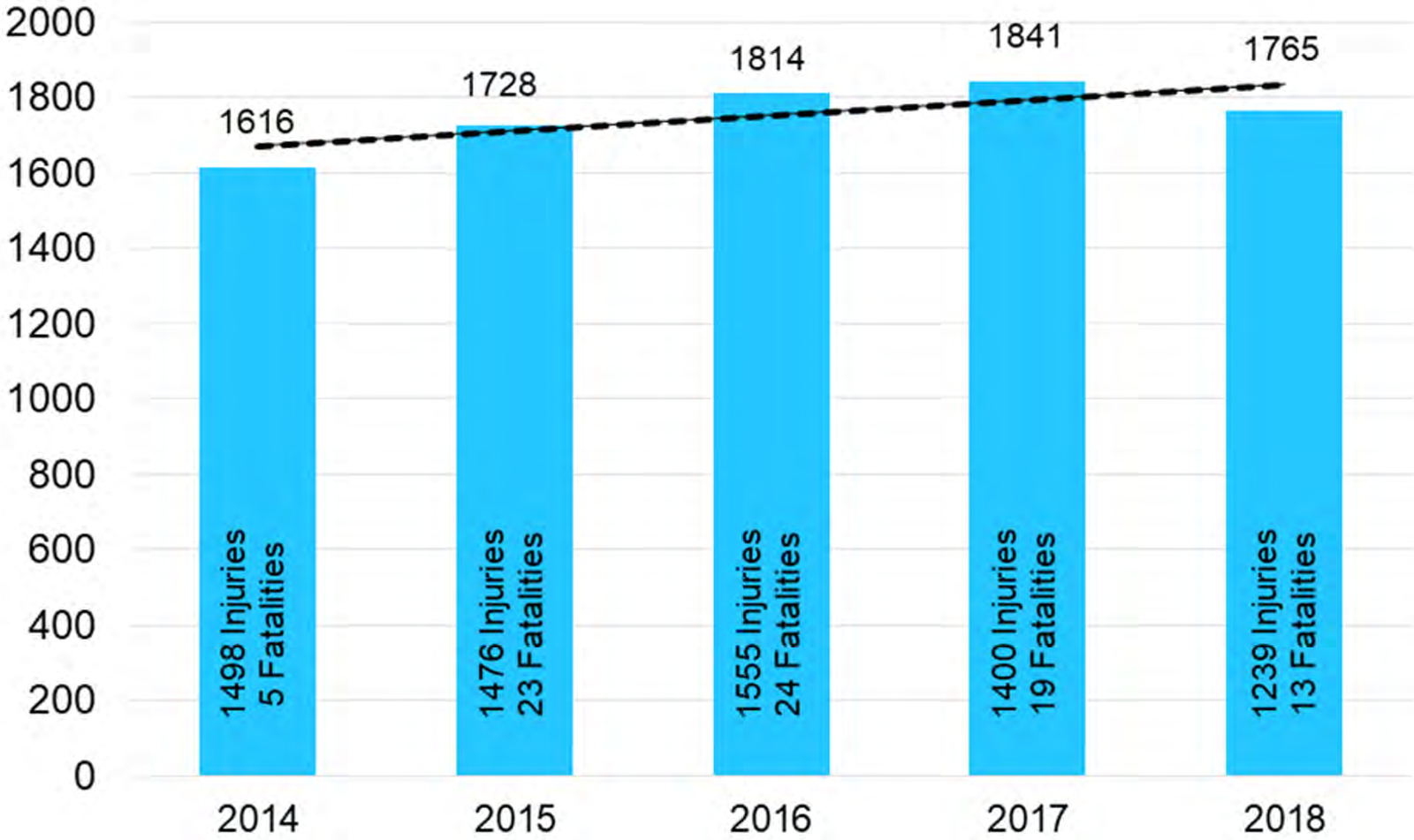
Fatal Collisions Involving Alcohol 2014 - 2018



Work Zone Collisions 2014 - 2018

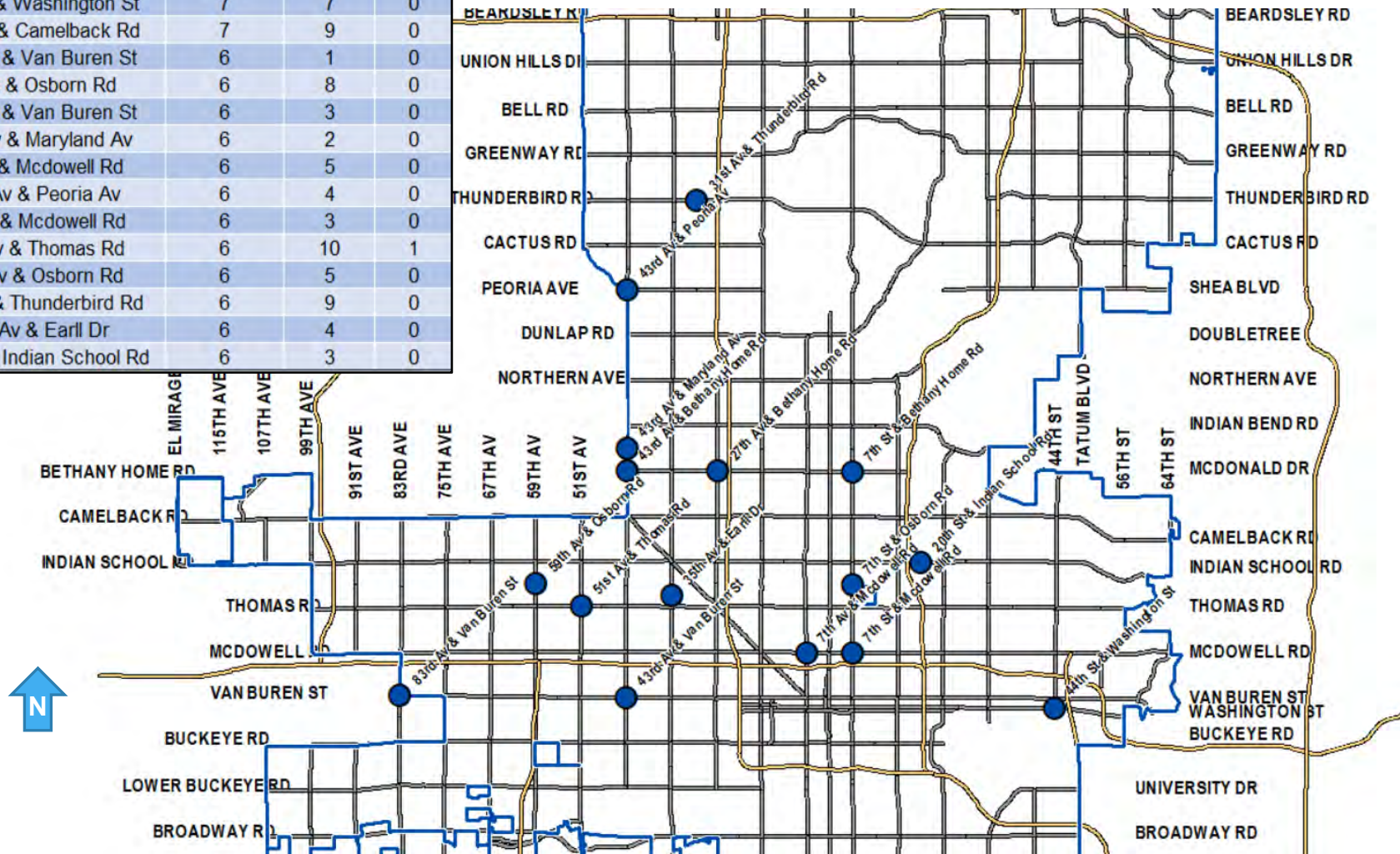


Motorist Run-Red Collisions 2014 - 2018

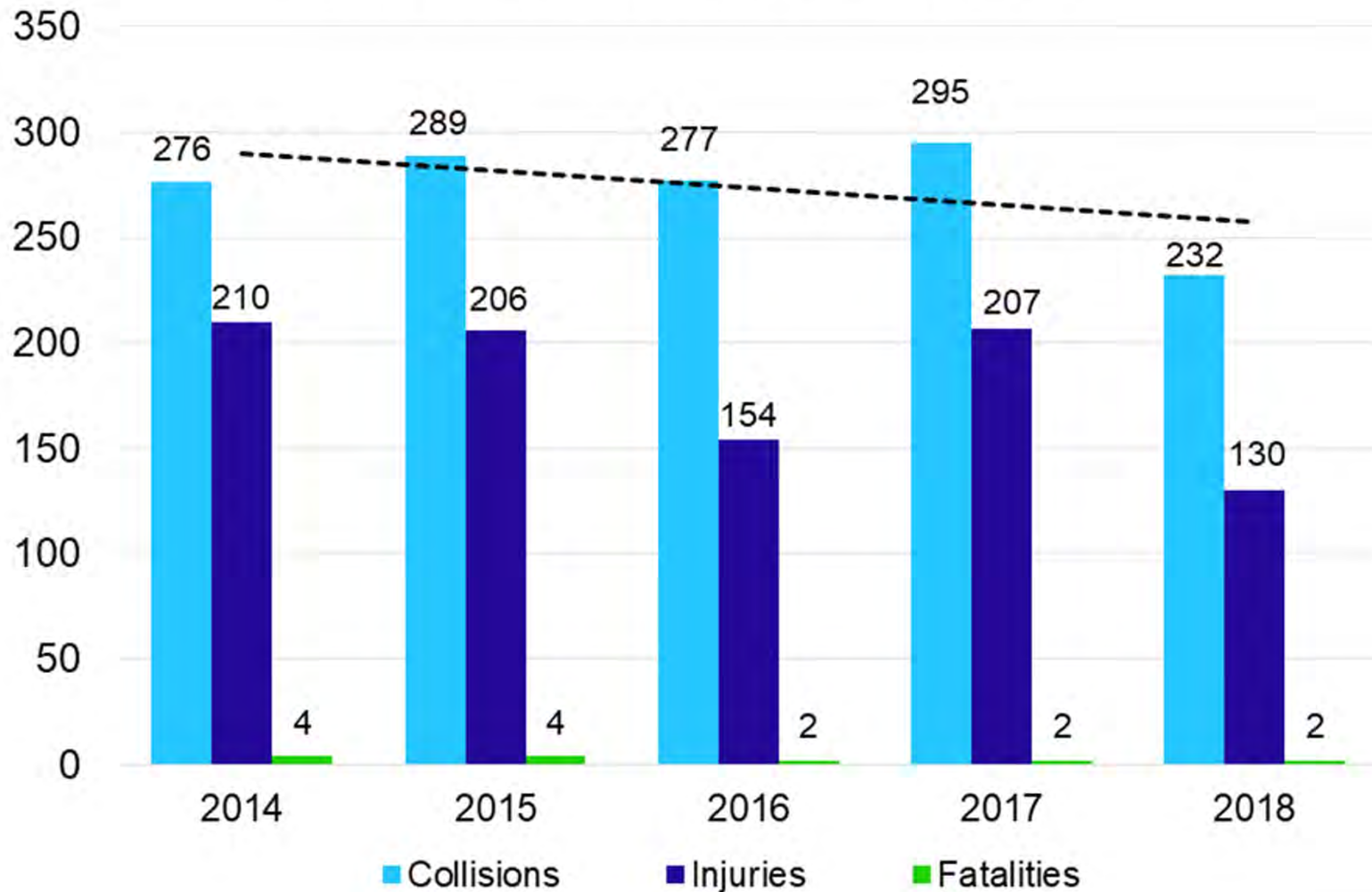


Locations with the Highest Number of Motorist Run Red Collisions 2018

Intersection	Total Collisions	Total Injuries	Total Fatals
7th St & Bethany Home Rd	8	5	0
43rd Av & Encanto Blvd	8	3	0
27th Av & Bethany Home Rd	8	5	0
43rd Av & Bethany Home Rd	7	6	1
44th St & Washington St	7	7	0
27th Av & Camelback Rd	7	9	0
83rd Av & Van Buren St	6	1	0
7th St & Osborn Rd	6	8	0
43rd Av & Van Buren St	6	3	0
43rd Av & Maryland Av	6	2	0
7th St & Mcdowell Rd	6	5	0
43rd Av & Peoria Av	6	4	0
7th Av & Mcdowell Rd	6	3	0
51st Av & Thomas Rd	6	10	1
59th Av & Osborn Rd	6	5	0
31st Av & Thunderbird Rd	6	9	0
35th Av & Earll Dr	6	4	0
20th St & Indian School Rd	6	3	0

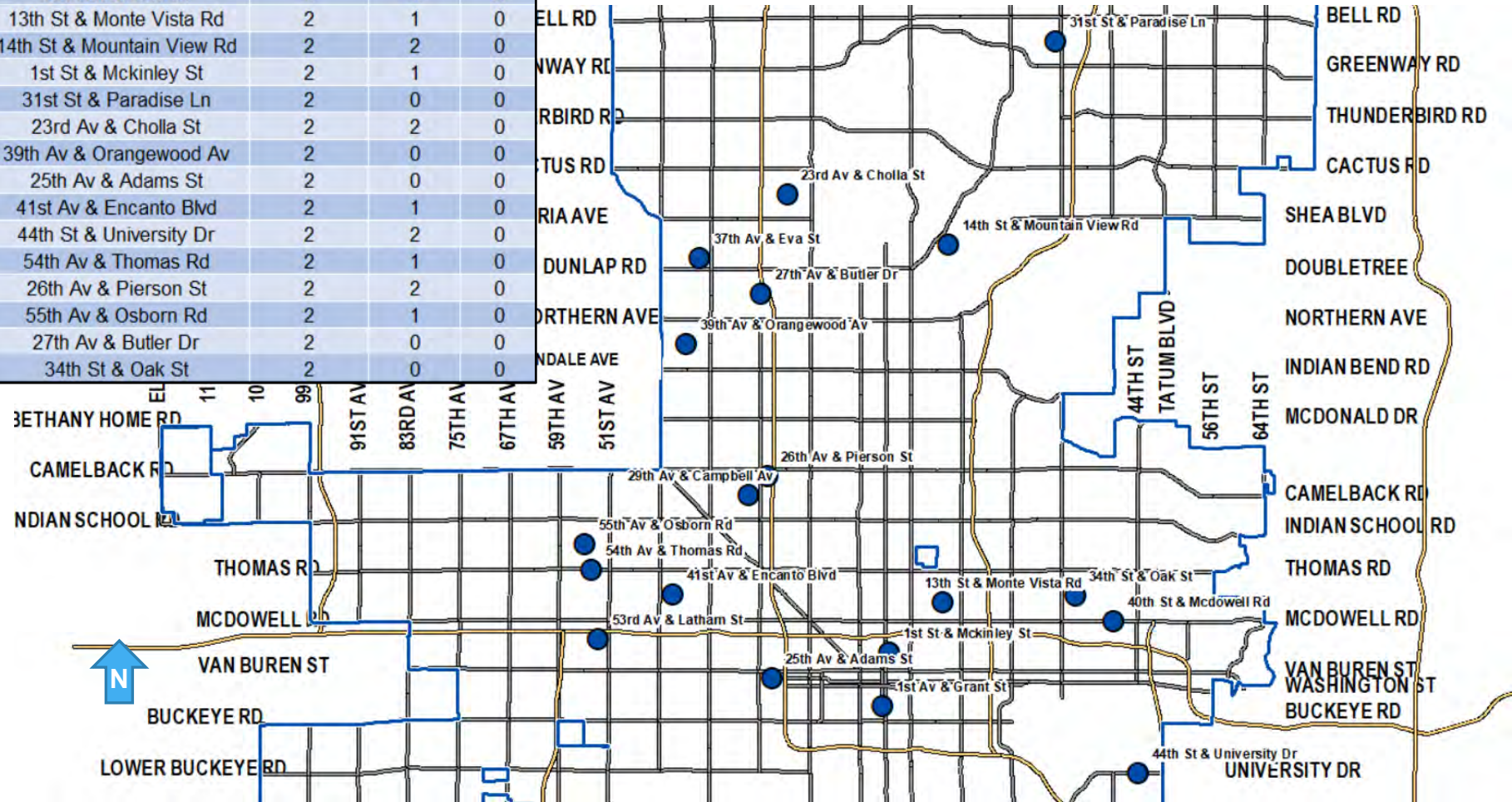


Run STOP Sign Collisions 2014-2018

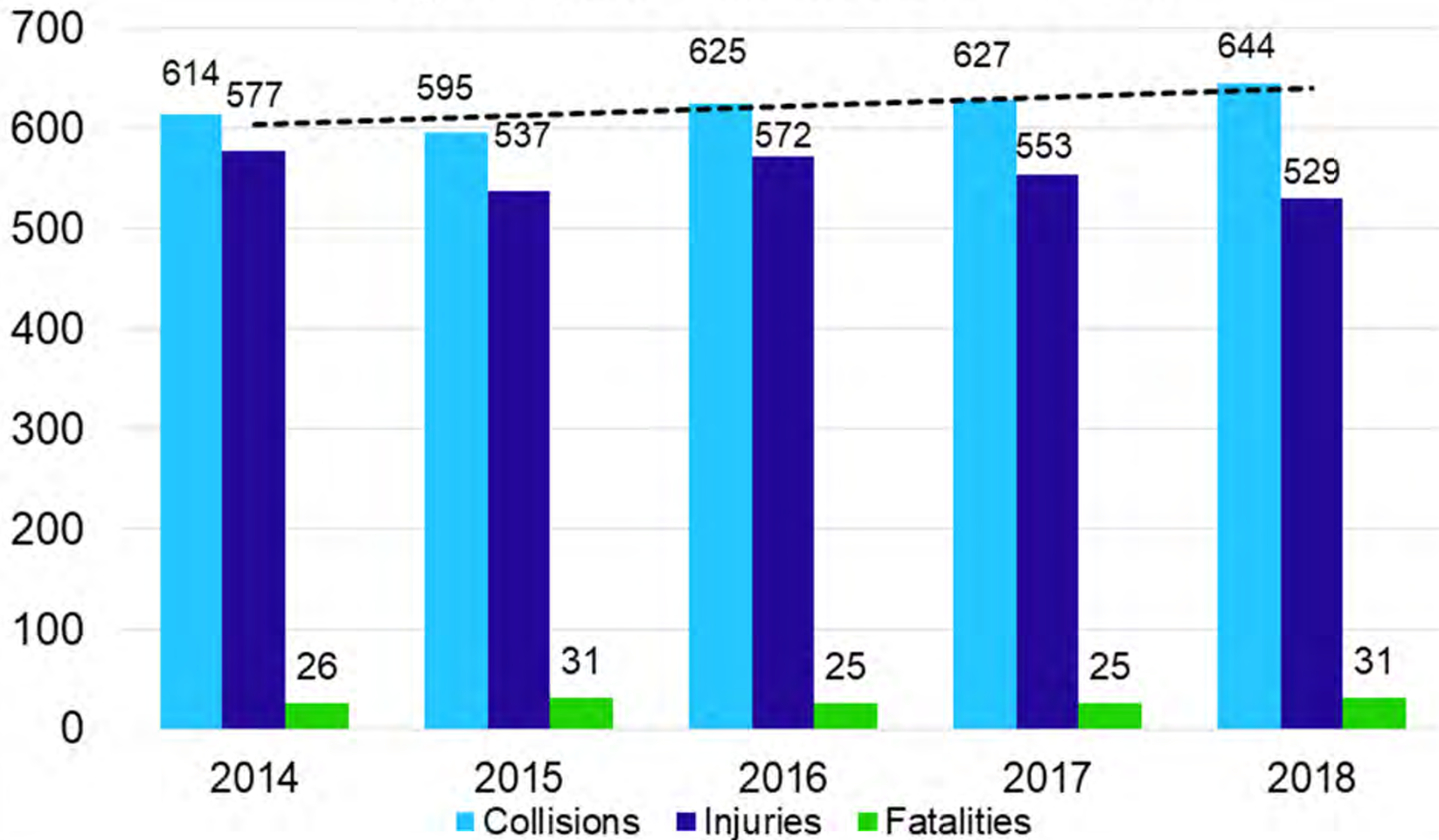


Locations with the Highest Number of Motorist Run Stop Sign Collisions 2018

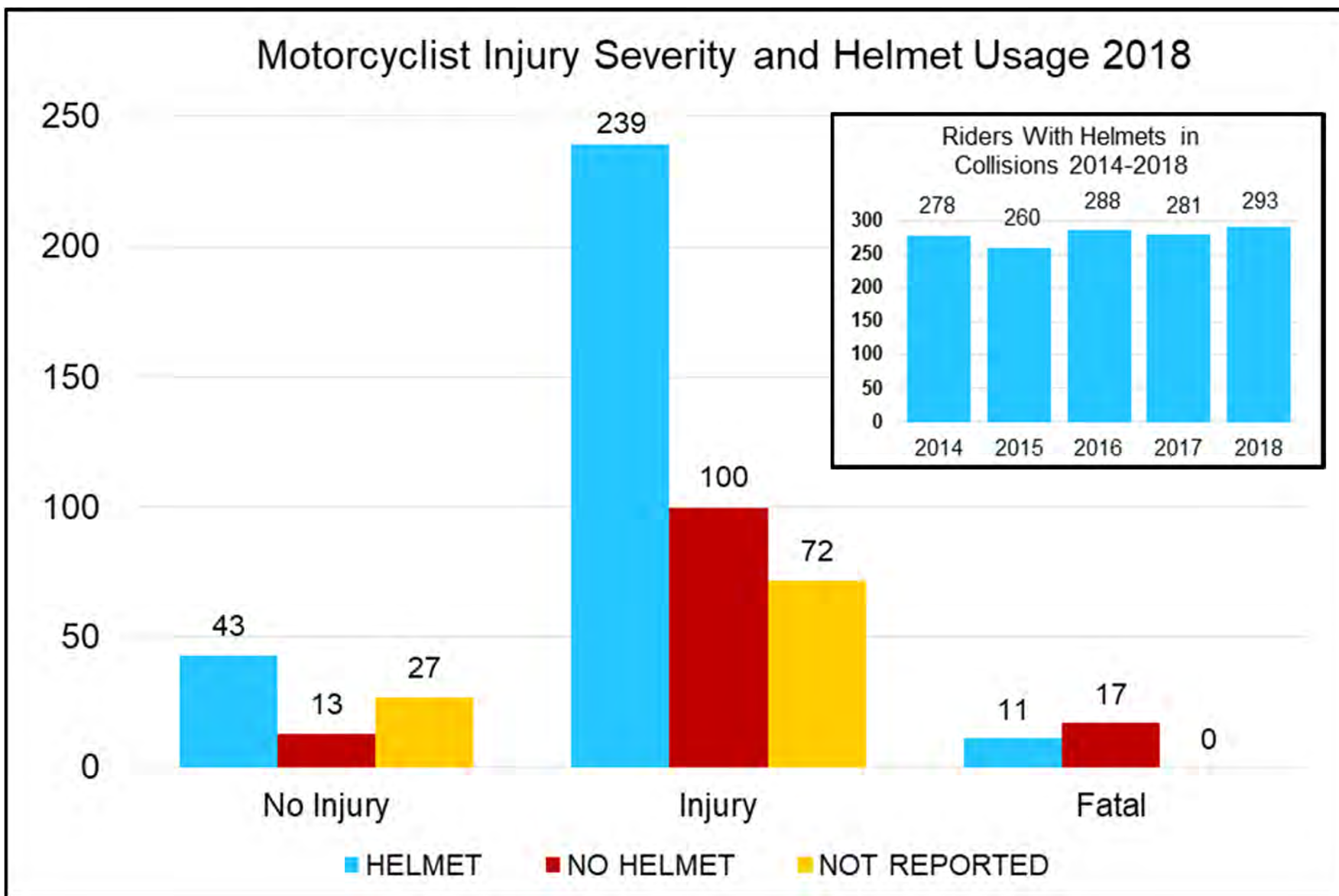
Intersection	Total Collisions	Total Injuries	Total Fatals
1st Av & Grant St	3	2	0
53rd Av & Latham St	3	4	0
29th Av & Campbell Av	2	3	0
40th St & Mcdowell Rd	2	0	0
37th Av & Eva St	2	0	0
13th St & Monte Vista Rd	2	1	0
14th St & Mountain View Rd	2	2	0
1st St & Mckinley St	2	1	0
31st St & Paradise Ln	2	0	0
23rd Av & Cholla St	2	2	0
39th Av & Orangewood Av	2	0	0
25th Av & Adams St	2	0	0
41st Av & Encanto Blvd	2	1	0
44th St & University Dr	2	2	0
54th Av & Thomas Rd	2	1	0
26th Av & Pierson St	2	2	0
55th Av & Osborn Rd	2	1	0
27th Av & Butler Dr	2	0	0
34th St & Oak St	2	0	0



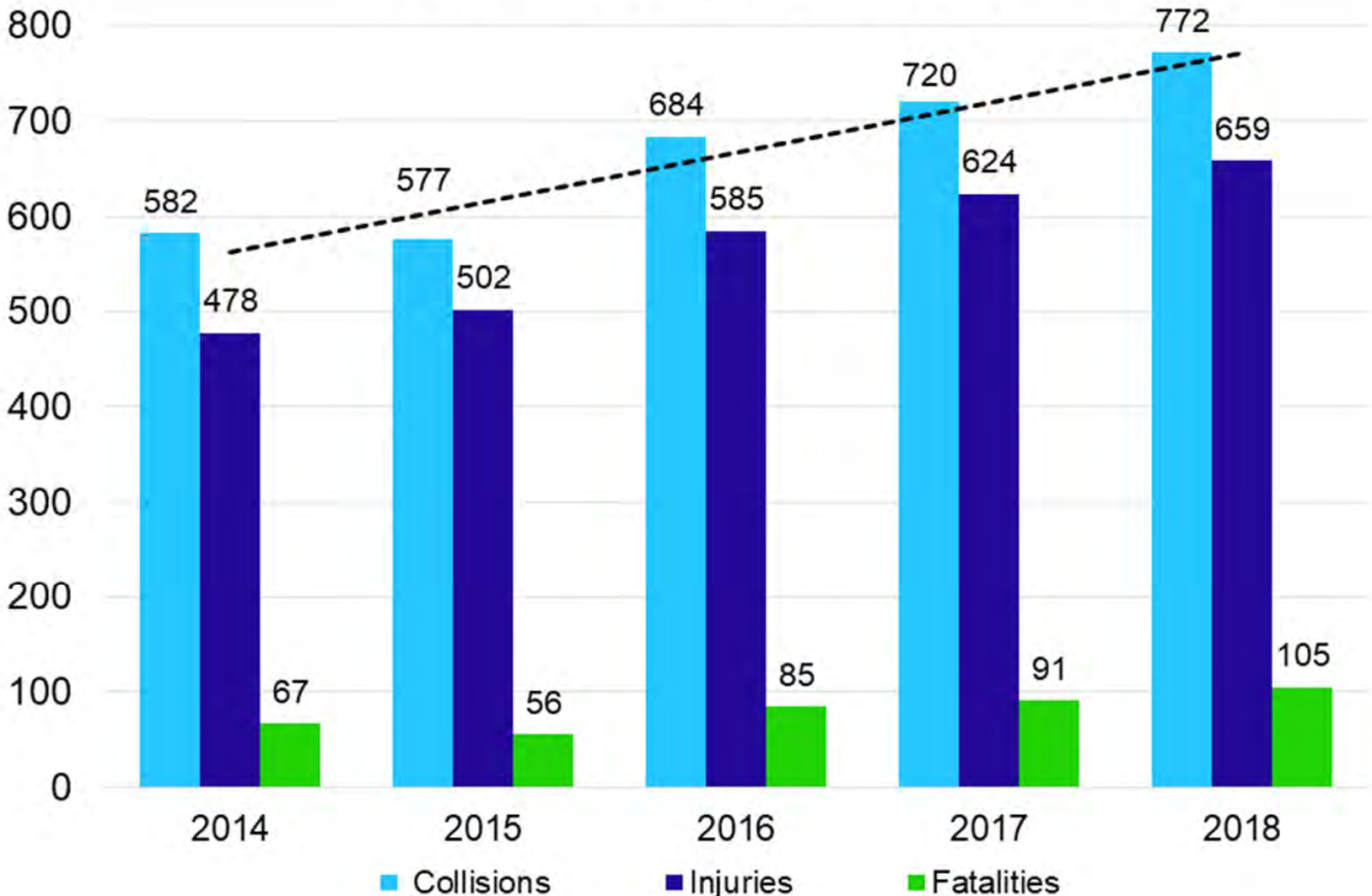
Total Motorcyclist Collisions, Injuries, and Fatalities 2014 - 2018



Motorcyclist Injury Severity and Helmet Usage 2018



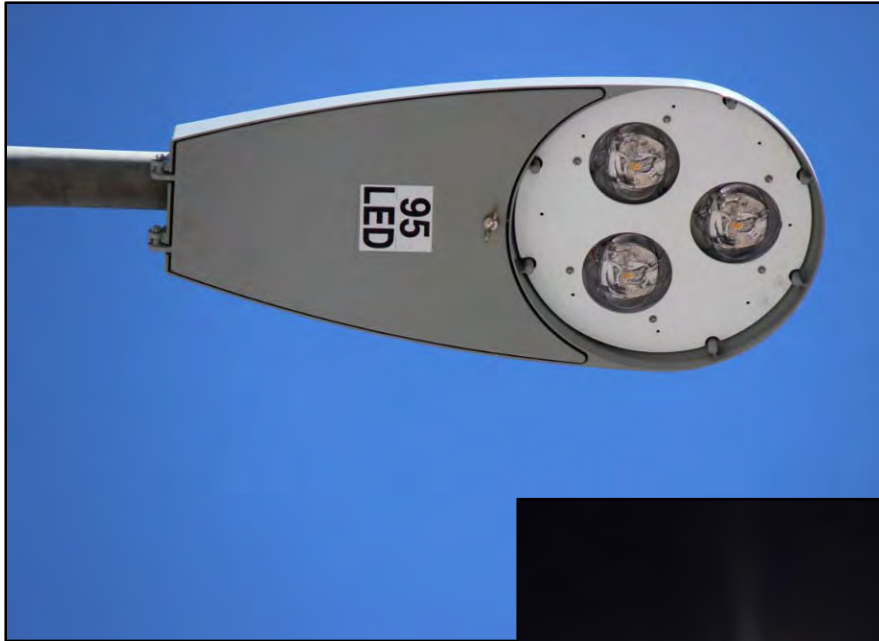
Pedestrian Collisions 2014-2018



Pedestrian signs replaced and crosswalk restriped at 7th and Turney Avenues intersection.



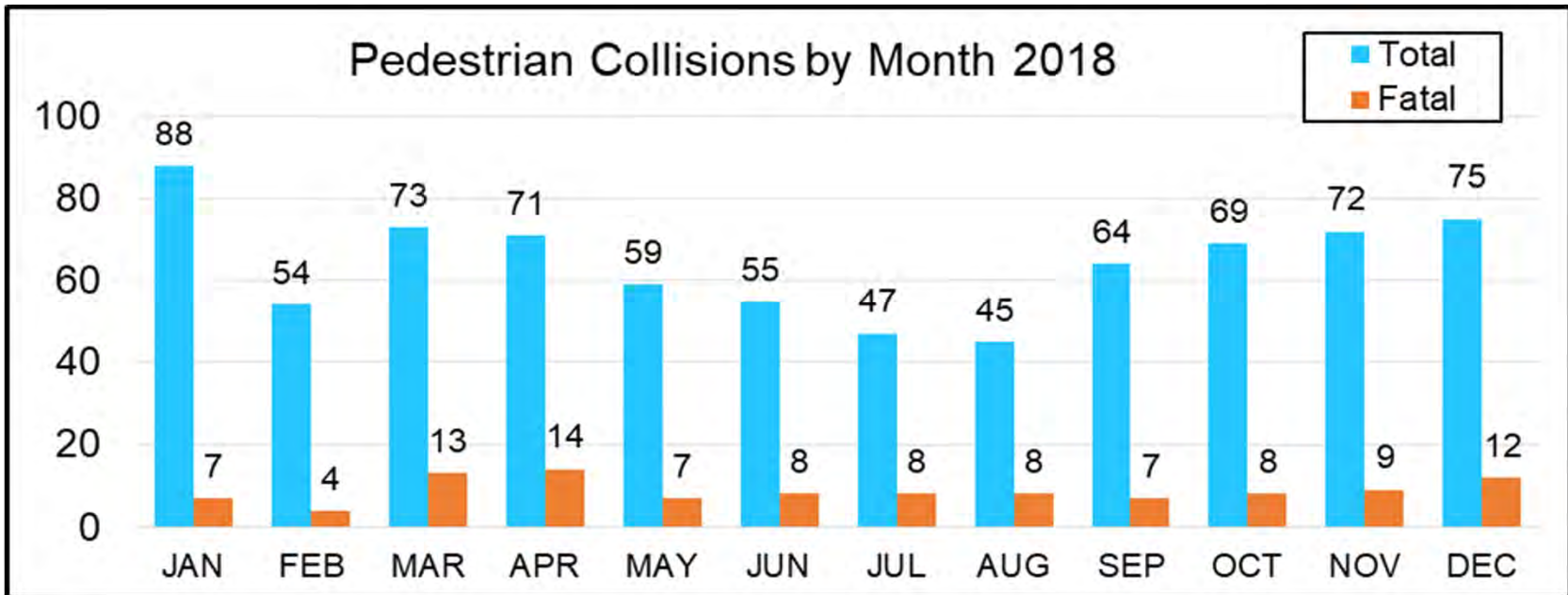
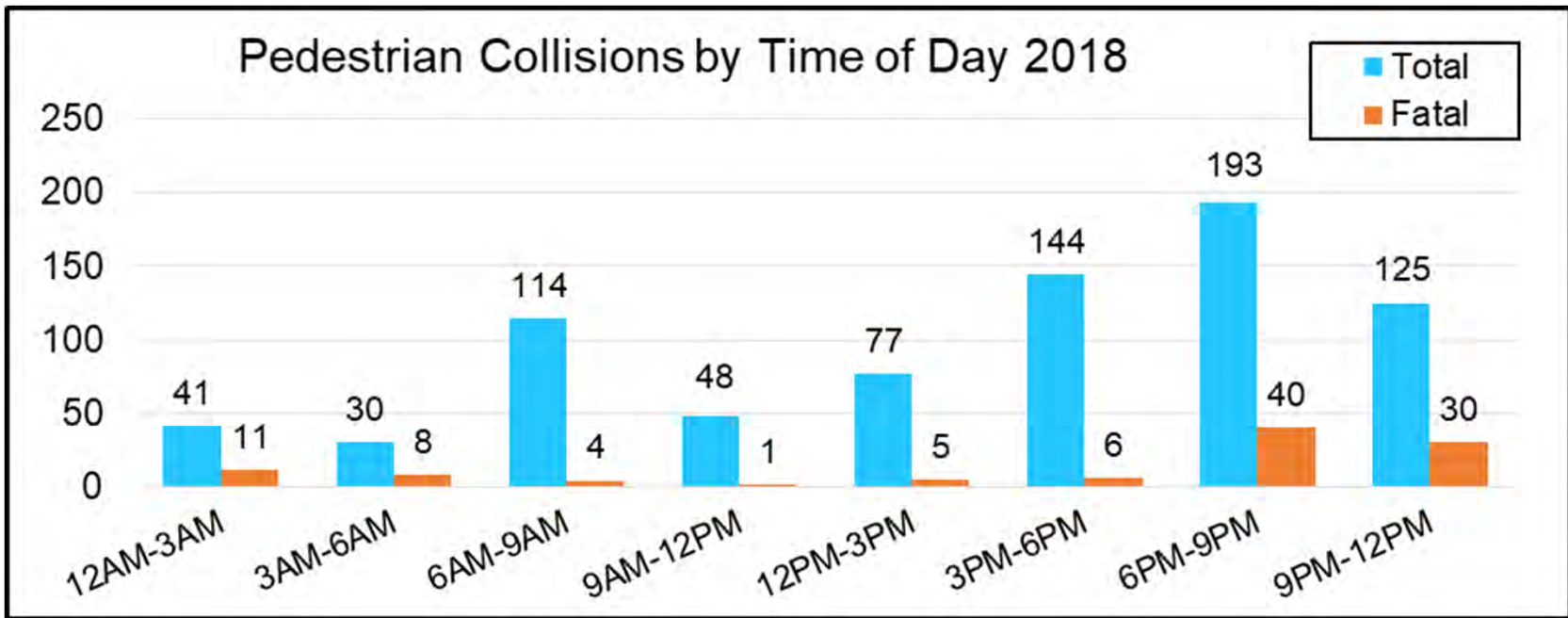
High visibility crosswalks installed along Cambridge Avenue from 16th to 20th Streets per Phoenix Children's Hospital request



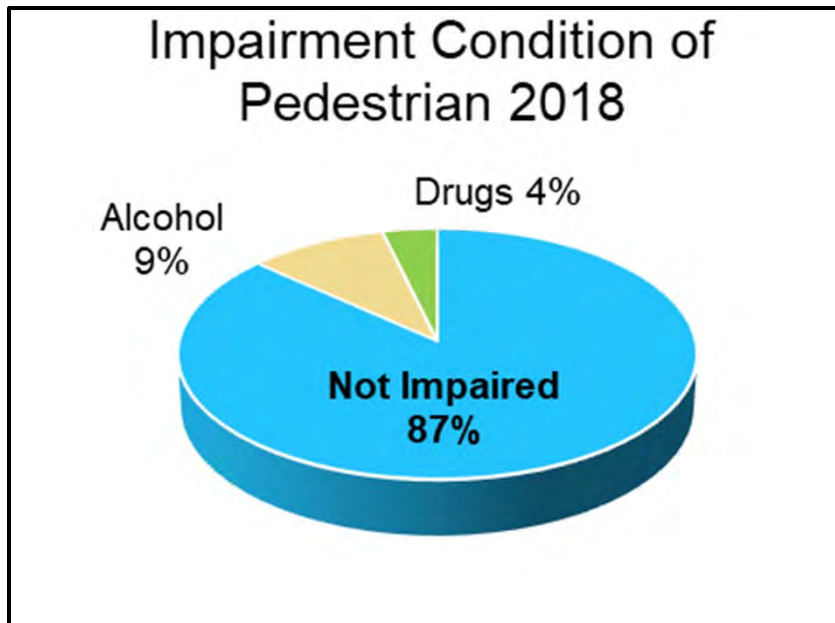
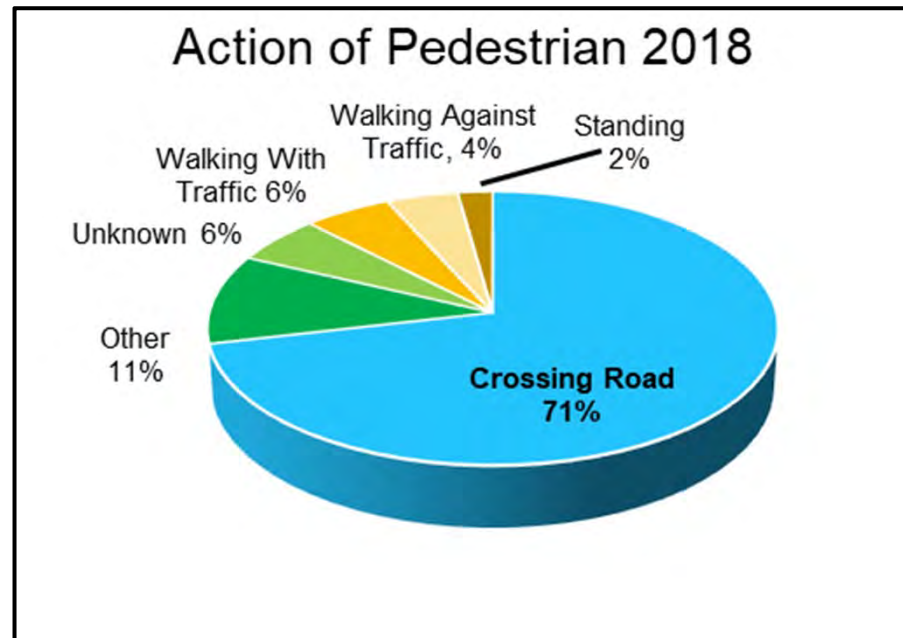
Citywide LED Street Light conversion

The Street Transportation Department completed a project to convert 90,000 street lights to LED for efficiency and night visibility

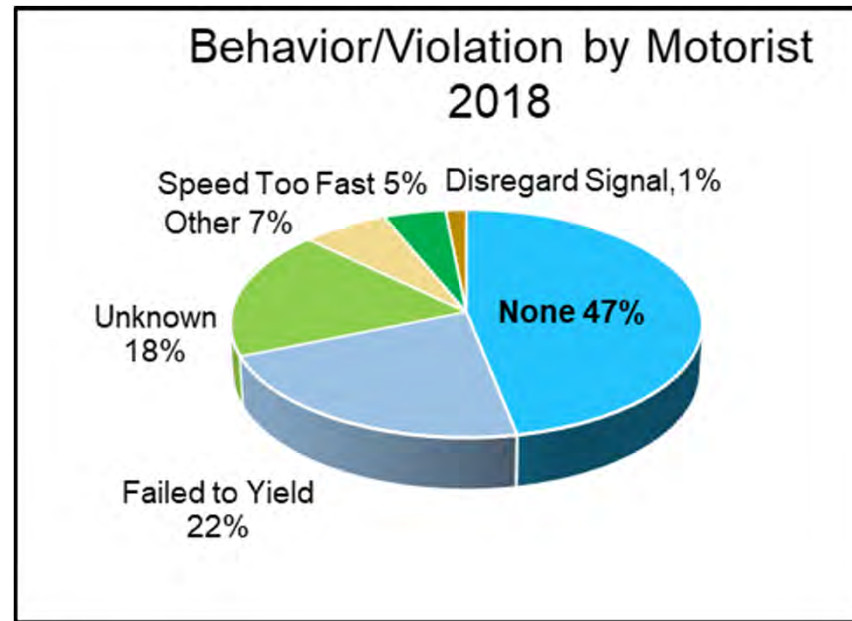
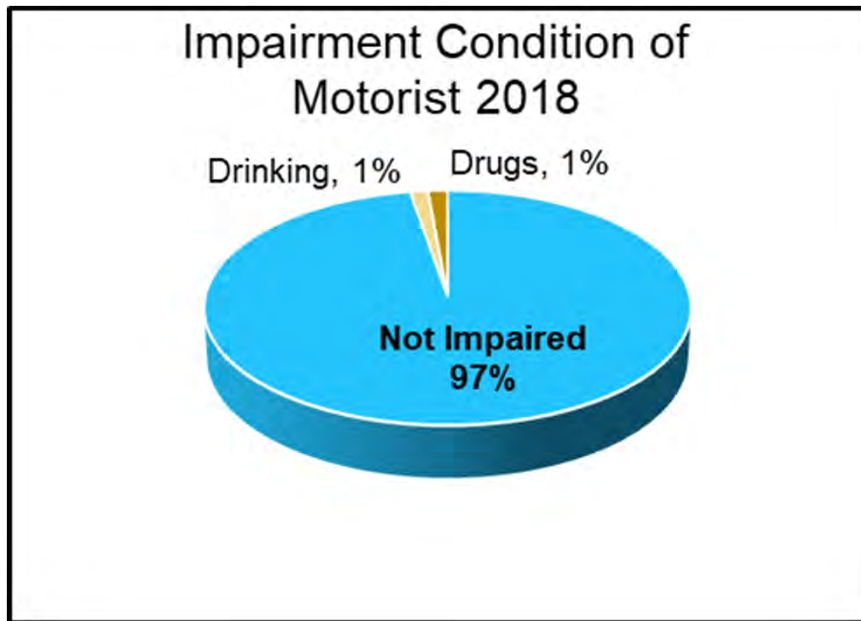
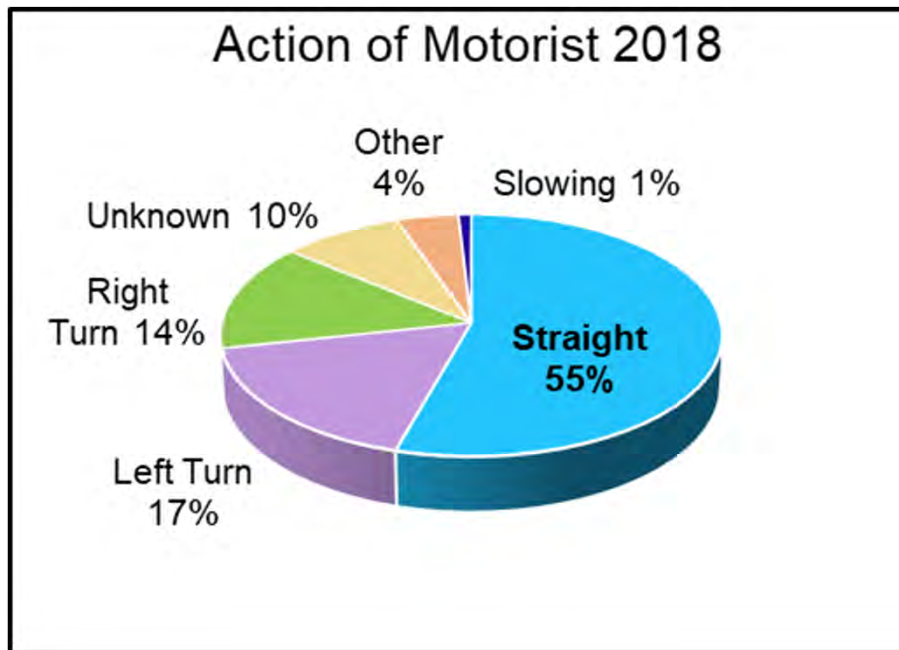




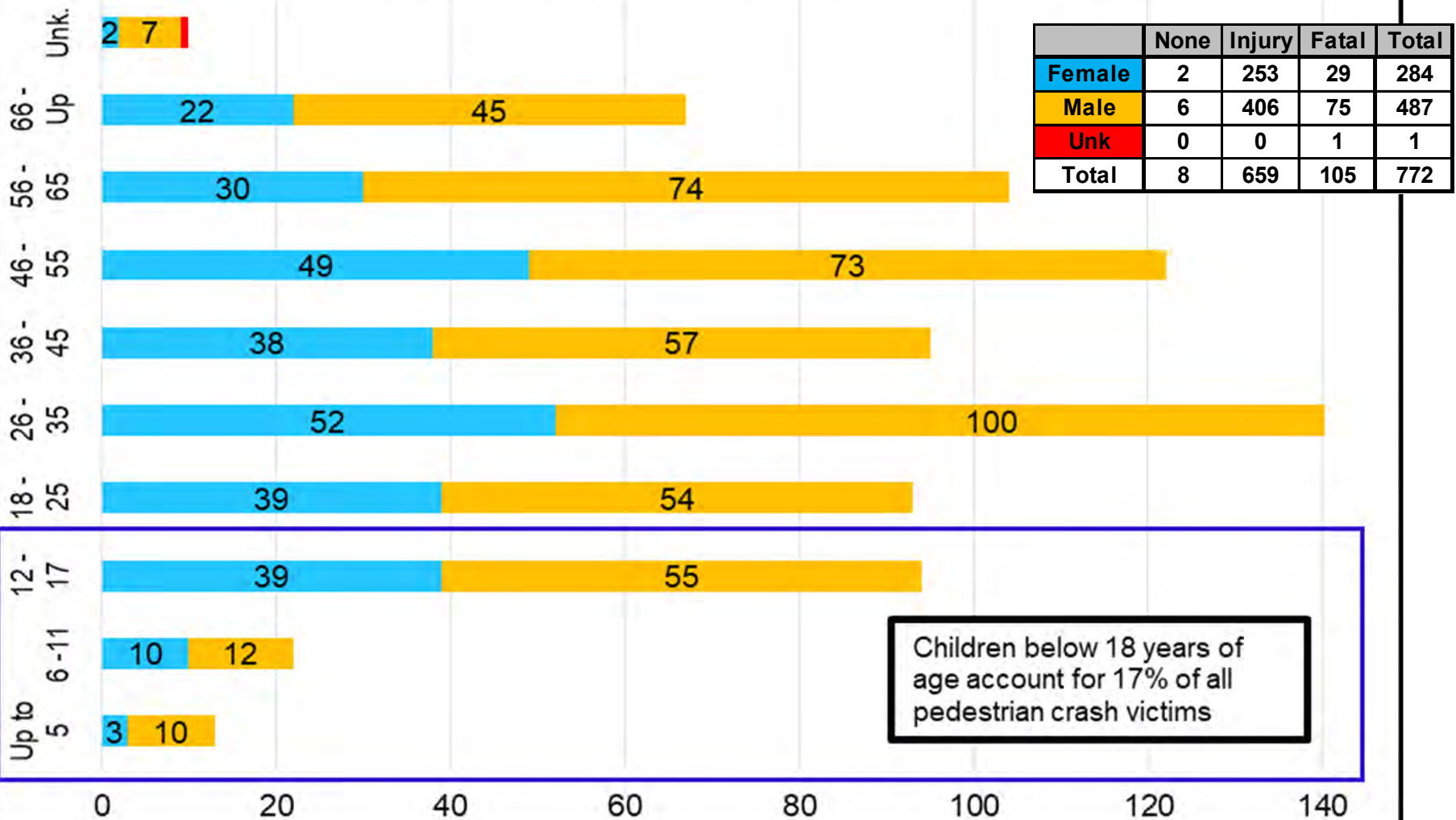
Pedestrian Collisions



Pedestrian Collisions



Age and Gender of Pedestrians* in Collisions 2018



*At this time, for crashes involving multiple pedestrian only the first pedestrian listed in the database is included in this data.

Traffic Safety education

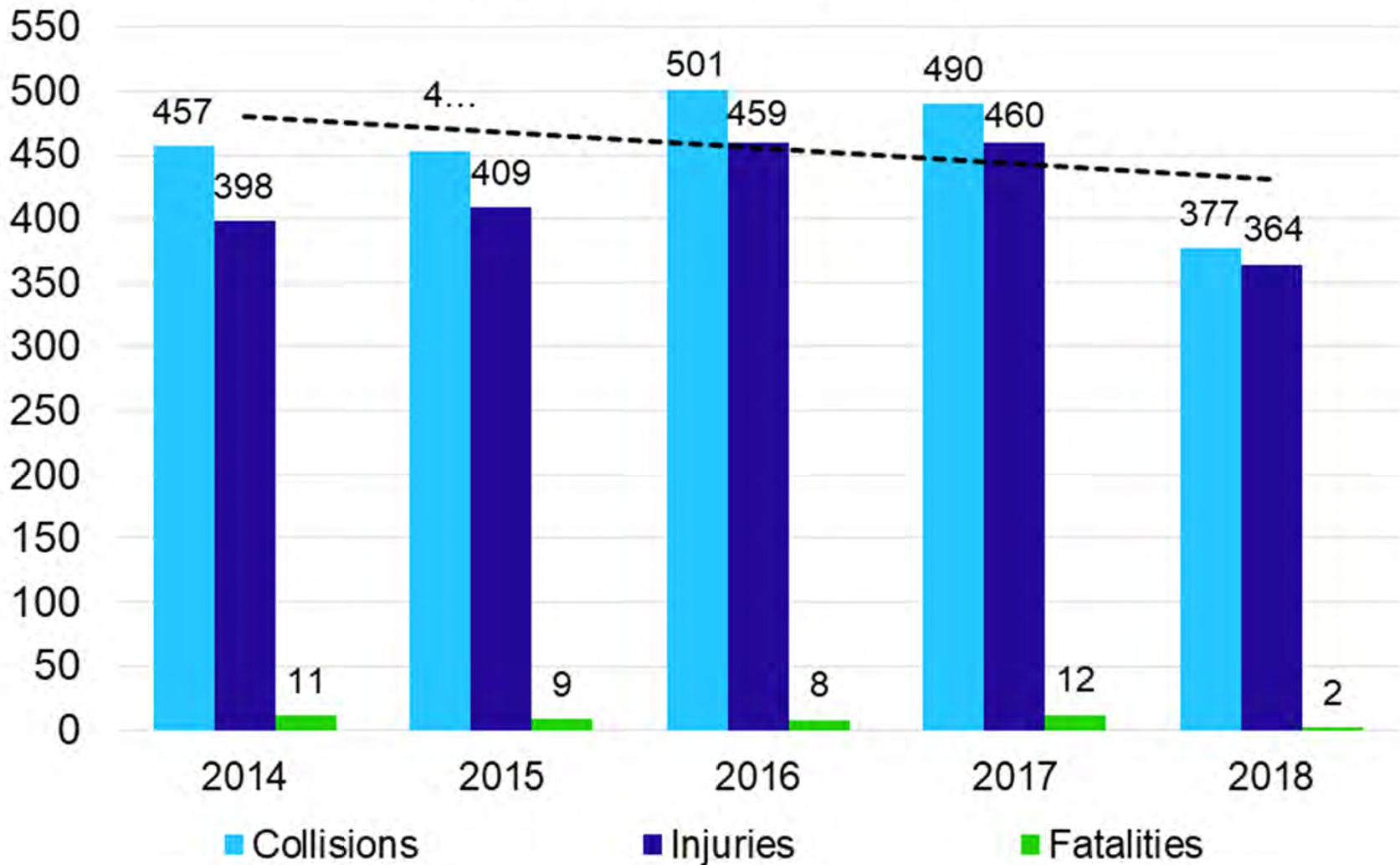
Staff distributed Traffic Safety education materials at several community events including the Governor's Office of Highway Safety Days at the Arizona State Fair



Mercury Mine Community event - School Safety, Police and Fire staff set up and operated a bike rodeo at the Mercury Mine Community event



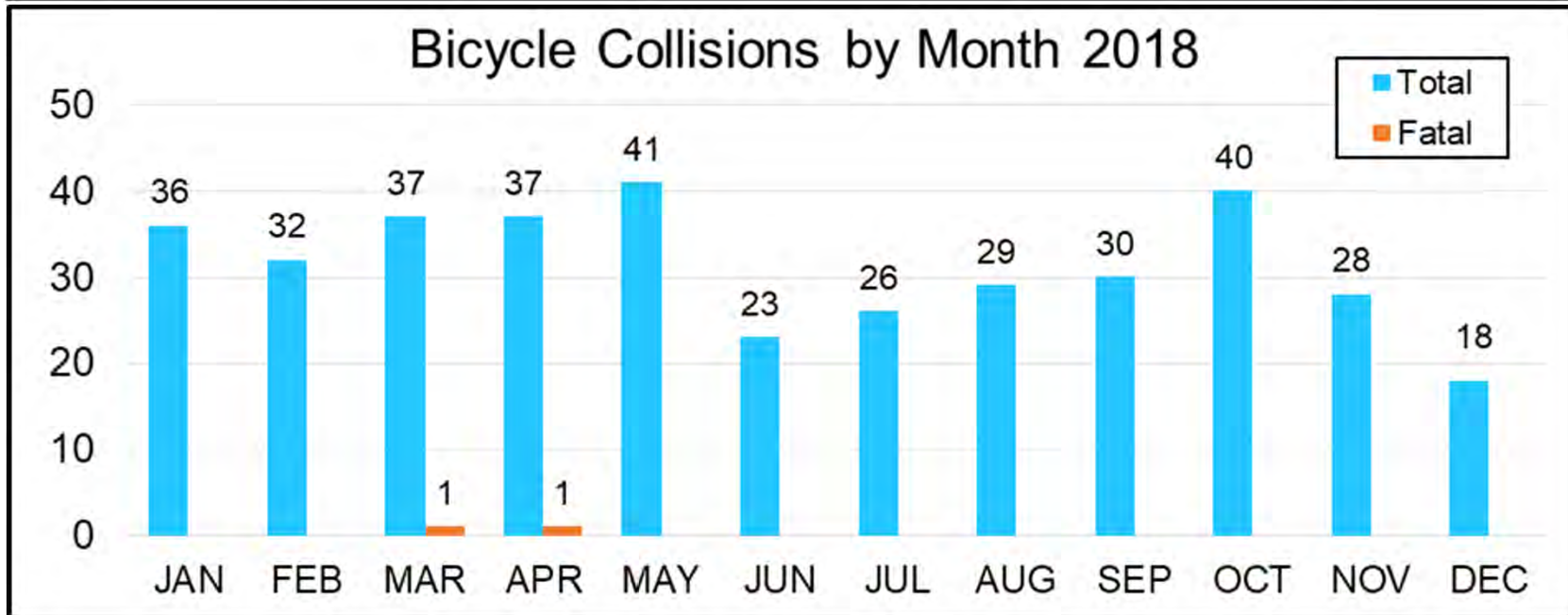
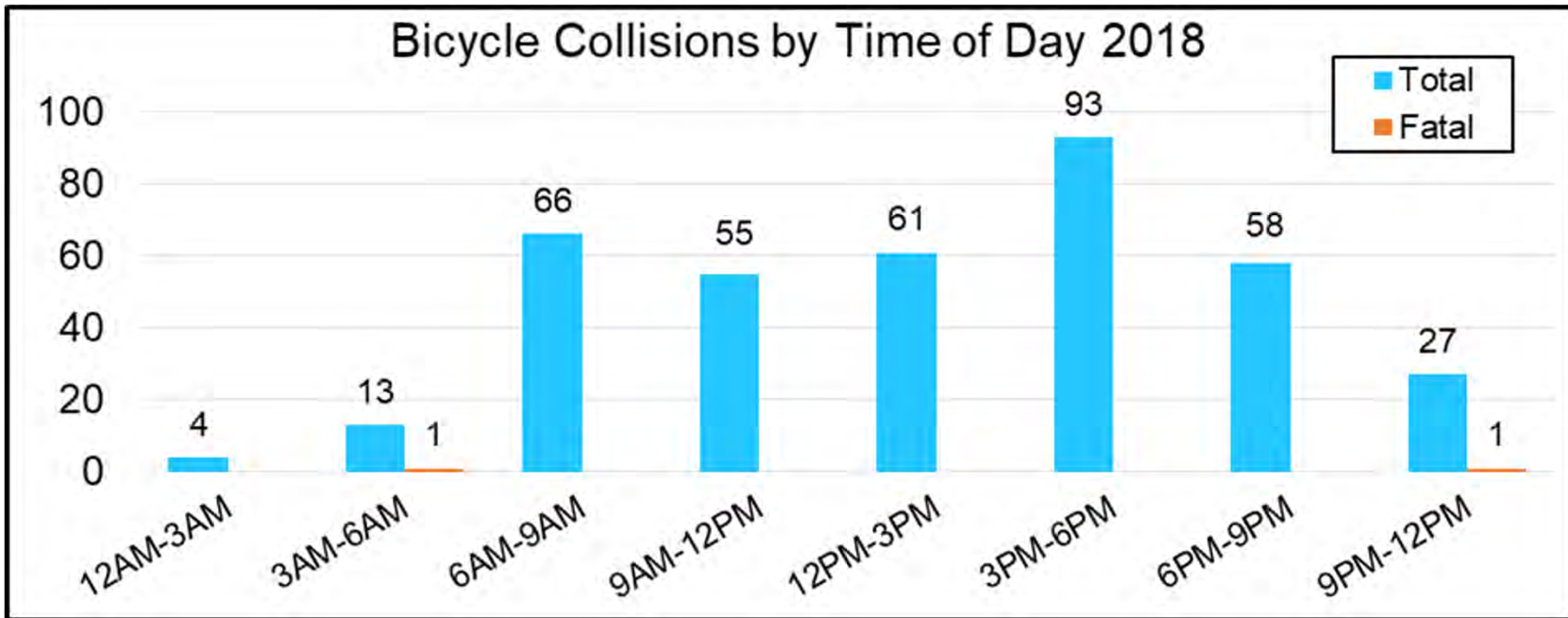
Bicycle Collisions 2014-2018



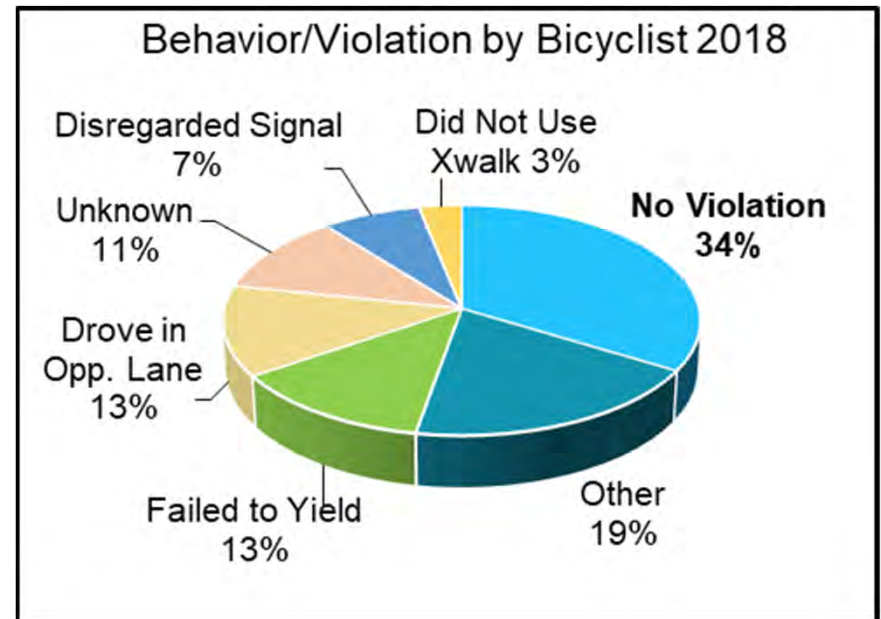
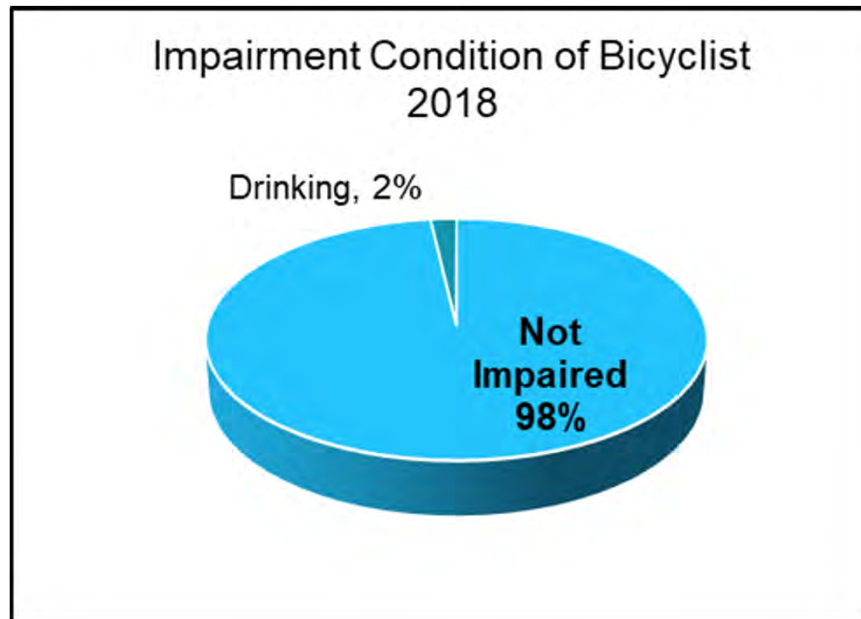
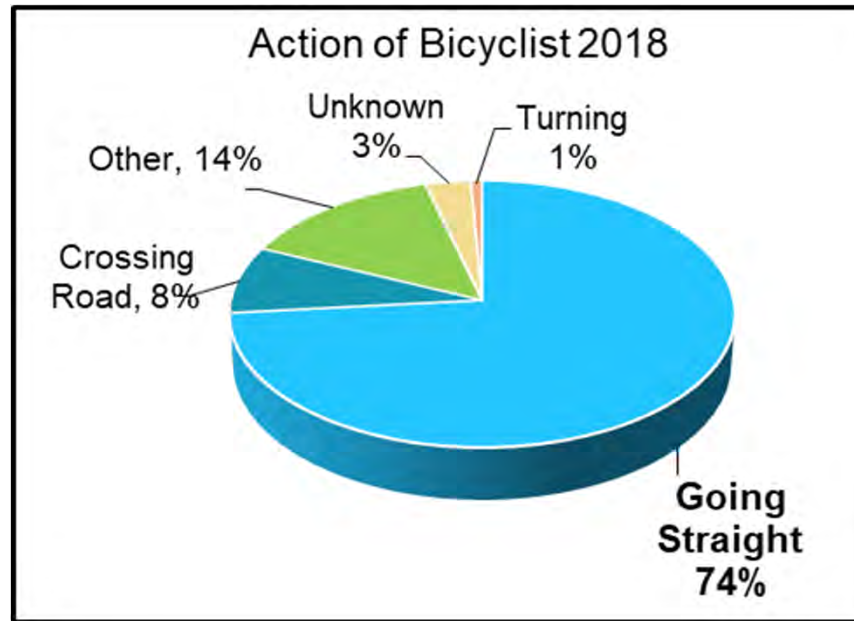
Crews completed a green bike lane demonstration for local TV news



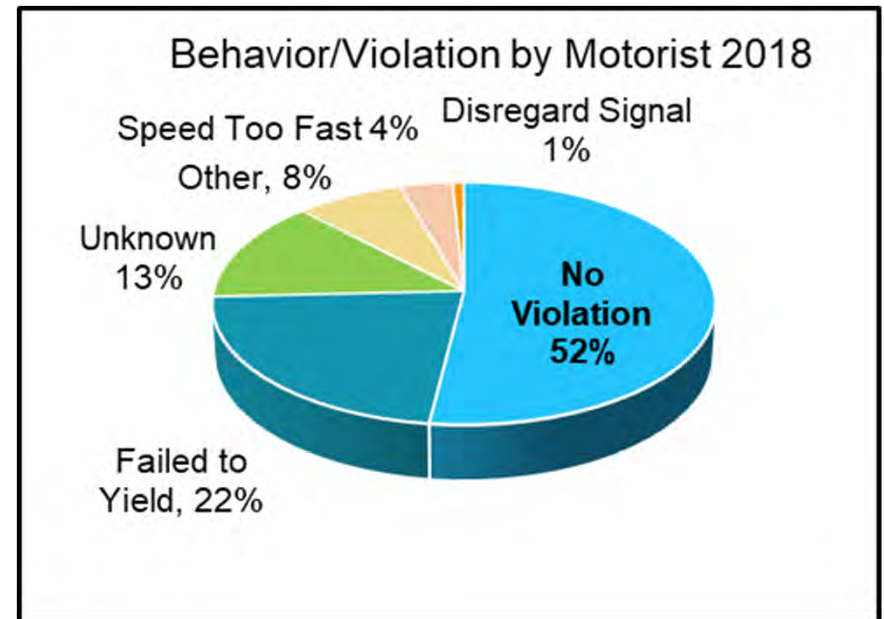
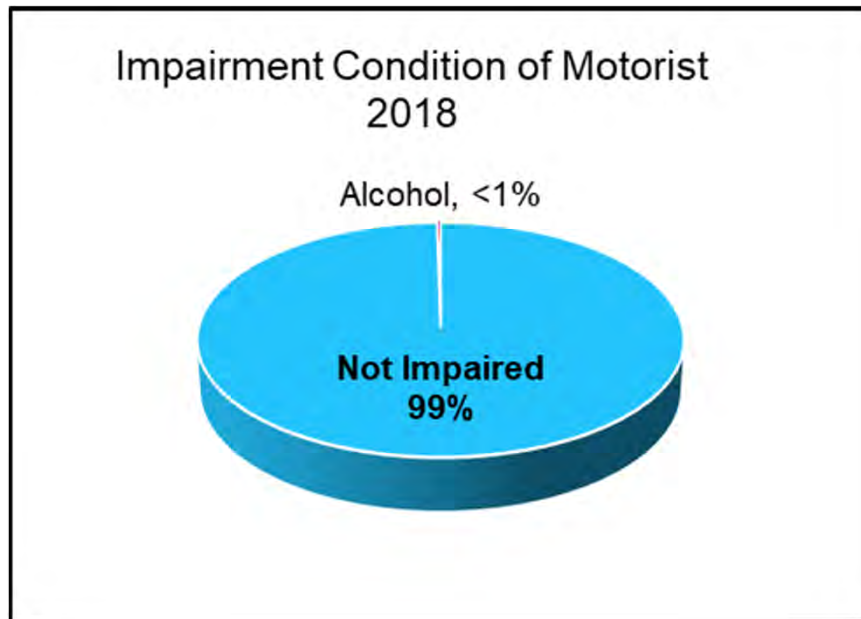
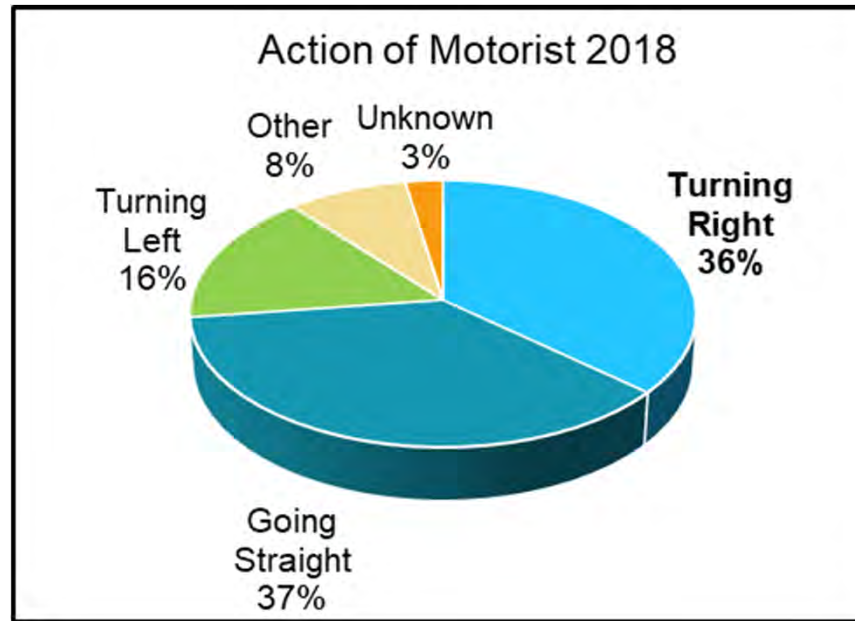
A buffered bike lane was added along 39th Avenue from Pinnacle Peak to Happy Valley Roads



Bicycle Collisions

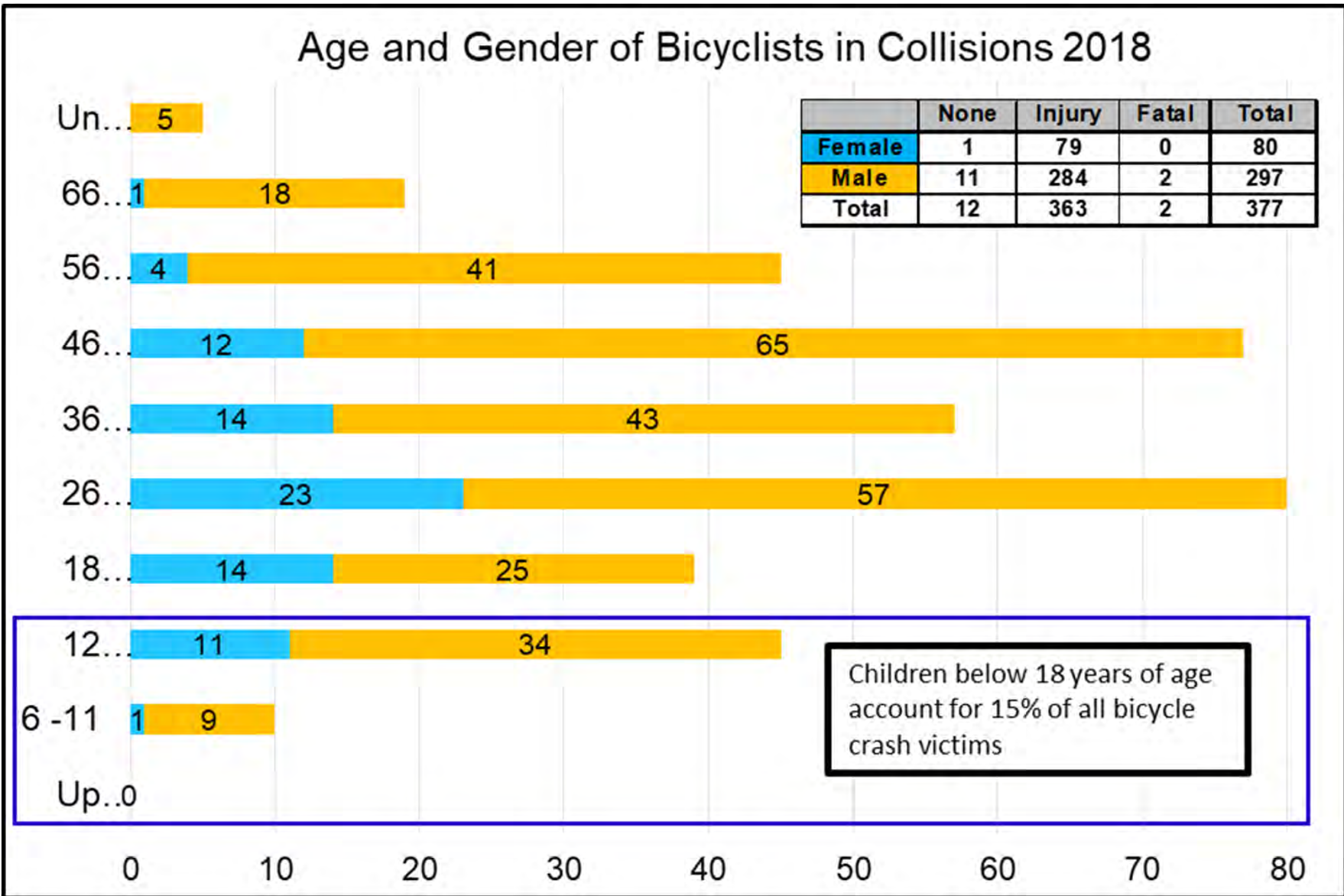


Bicycle Collisions



Bicycle Collisions

Age and Gender of Bicyclists in Collisions 2018



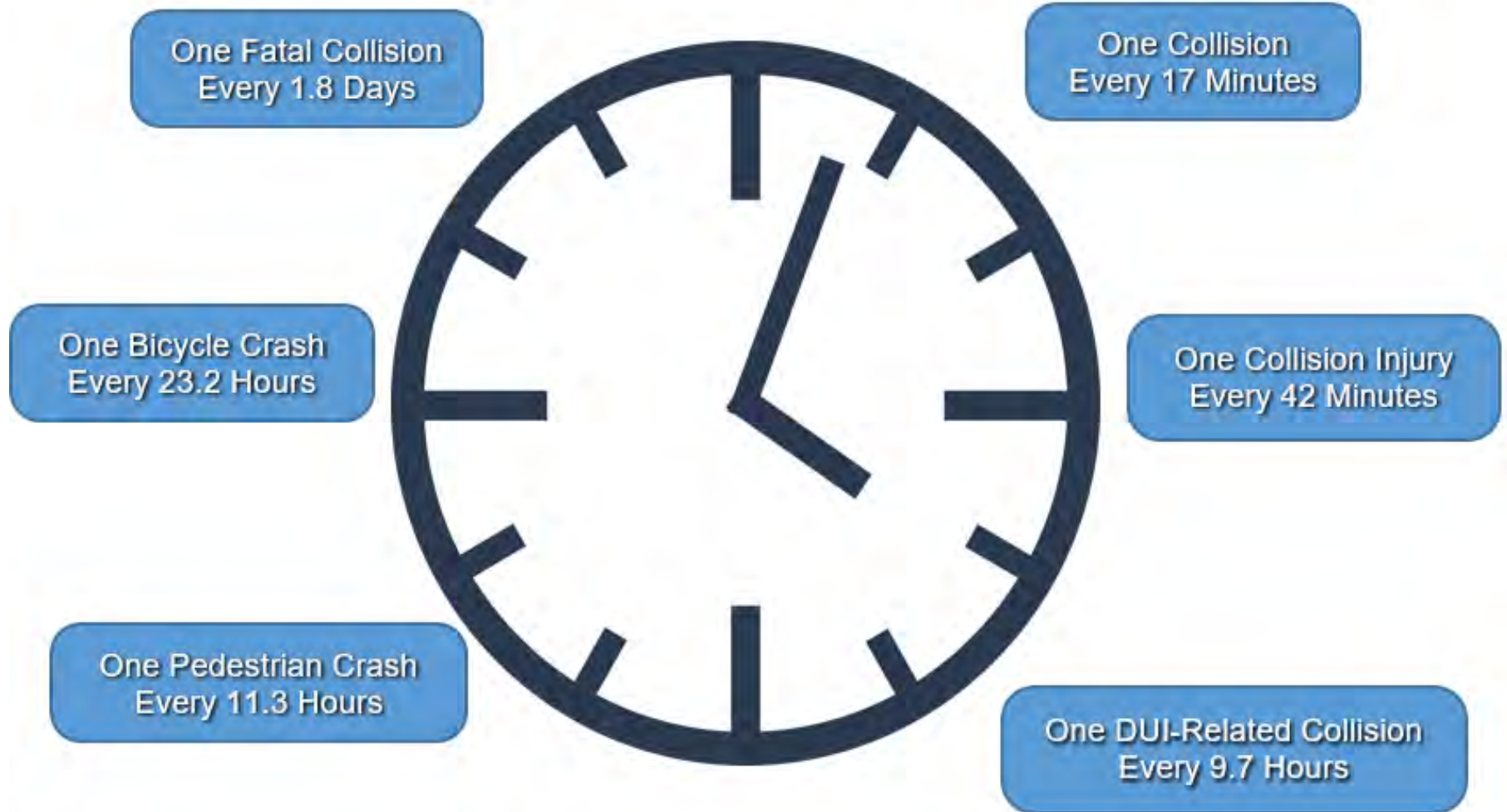
Streets staff worked with Council District 8, Police, Fire, Public Works, NSD and Library staff to provide free bike helmets, operate a bike rodeo and offer free car seat checks.



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



Summary

- **Seventy-Two** percent of all collisions resulted in property damage only.
- Approximately **34** people were injured every day as a result of traffic crashes.
- **Thirty-three** percent of pedestrian collisions involved the pedestrian not using the crosswalk.
- Bicyclist collisions decreased from **490** in 2017 to **377** in 2018.

Acknowledgements

The 2018 Phoenix Collision Summary documents the collisions in the City of Phoenix throughout the 2018 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 2018 Comprehensive Traffic Collision Summary was prepared by Subhankar Dey (ASU Intern) with assistance from 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 \$1,000.

Cover photograph: The aerial city view cover photograph is courtesy of Ibrahim Alotaibi (ASU Graduate)

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



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STREET TRANSPORTATION DEPARTMENT