# 2019 Comprehensive Traffic Collision Summary





TRAFFIC SERVICES DIVISION OCTOBER 2021

2019 COMPREHENSIVE TRAFFIC COLLISION SUMMARY

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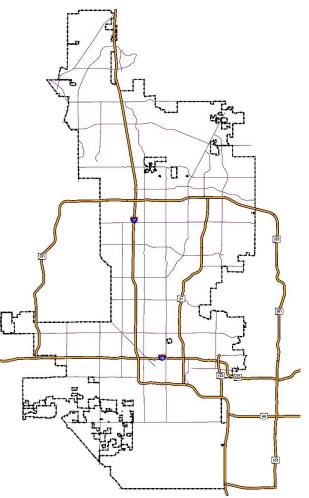
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# This is an overview of the crash data for the City of Phoenix during 2019:

2019 Facts-at-a-Glance

- Total of 31,328 collisions resulting in 11,855 injuries and 177 fatalities.
- Eighty-three percent of all crashes were either rear end, angle, sideswipe or left turn.
- Following the highest year for pedestrian collision, 2019 fell to the second lowest number of pedestrian collisions in five years at 638 incidents. These crashes resulted in 566 injury collisions and 72 fatal collisions.

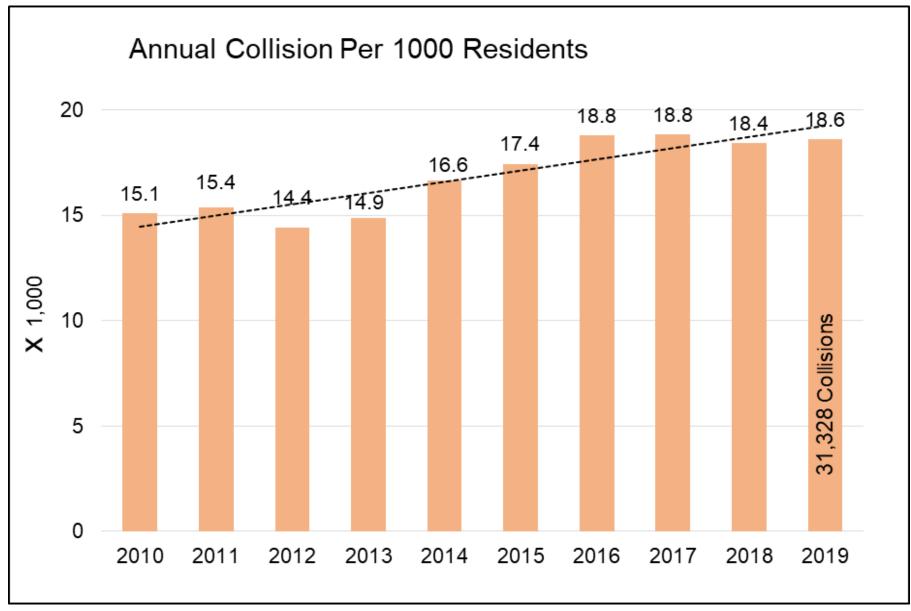




#### Annual Collision Trend 35 31.3 30.8 30.6\_---30.3 30 27.7 25.9 22.7 25 21.6 22.6 21.9 20 **X** 1,000 31,328 Collisions 15 10 5 0 2011 2010 2012 2013 2014 2015 2016 2017 2018 2019



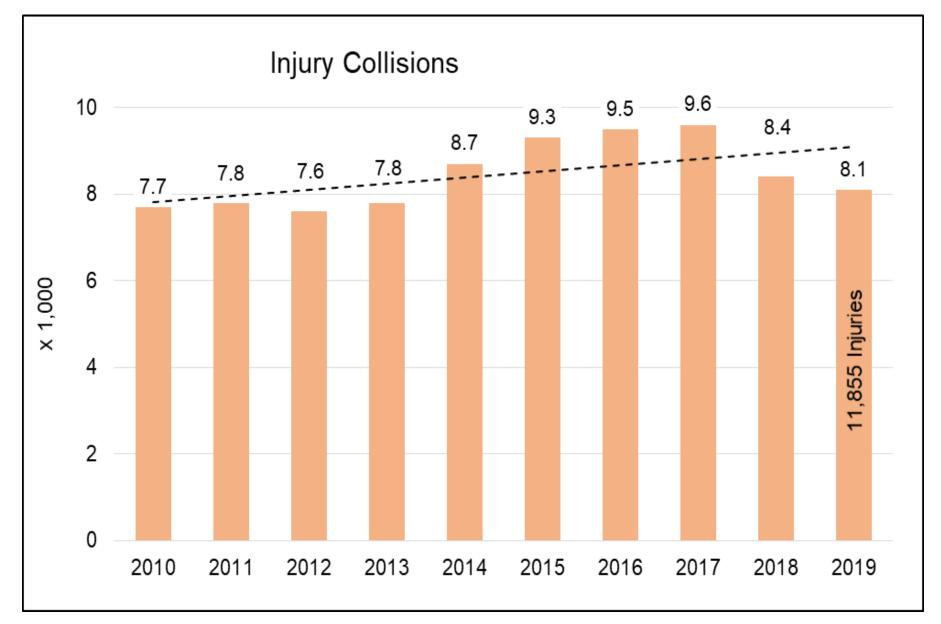
Number/Severity of Crashes 2019 COMPREHENSIVE TRAFFIC COLLISION SUMMARY Home



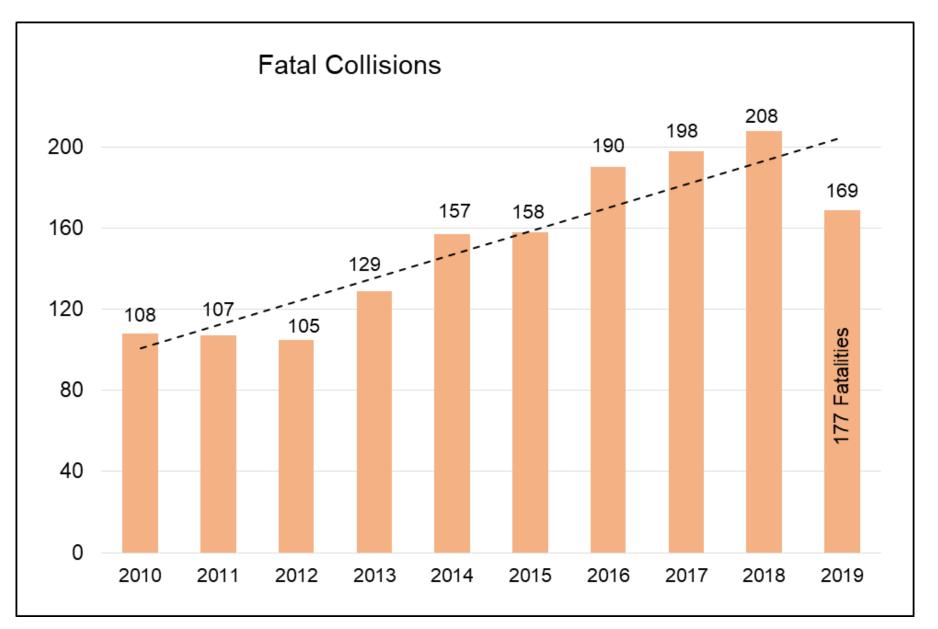
Census Data: https://www.azmag.gov/Programs/Maps-and-Data/Community-Profiles







Note: Some collisions result in multiple injuries.



Note: Some collisions result in multiple fatalities.





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.







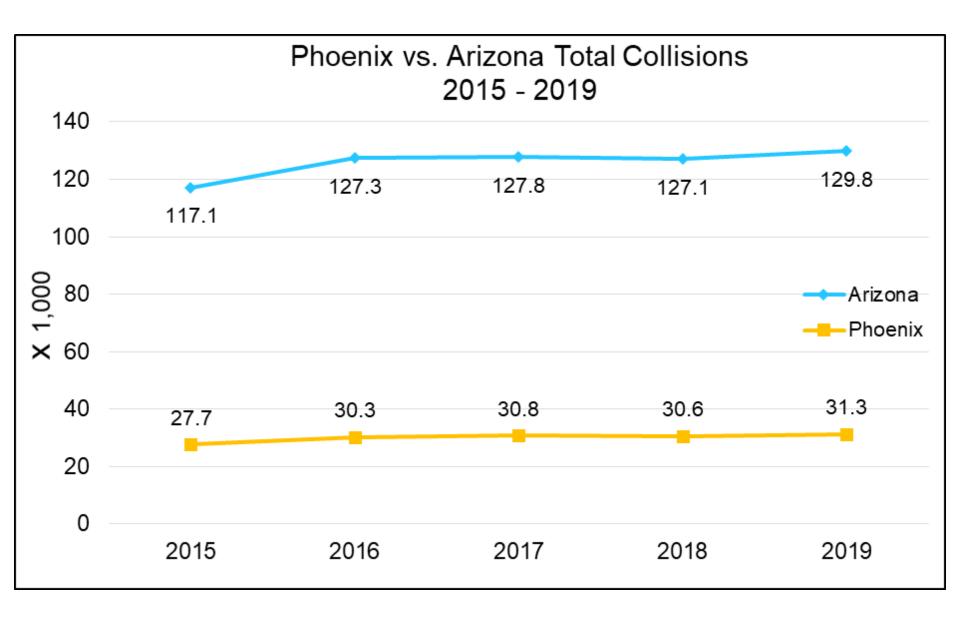
Protected Bike lanes on 15th Avenue from Jefferson to Van Buren Streets.

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

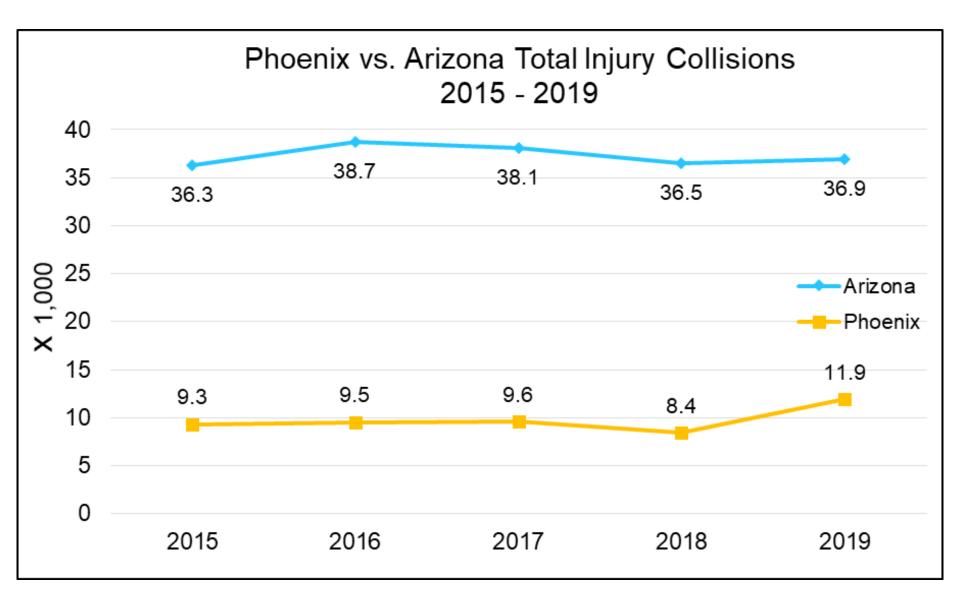




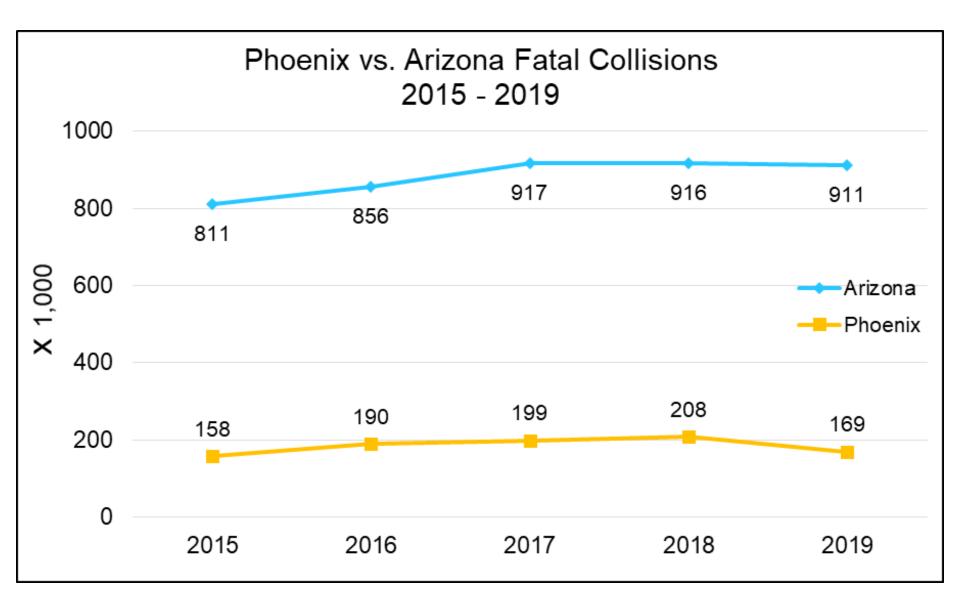




\*Arizona data comes from the 2019 Arizona Crash Facts Summary (ADOT)



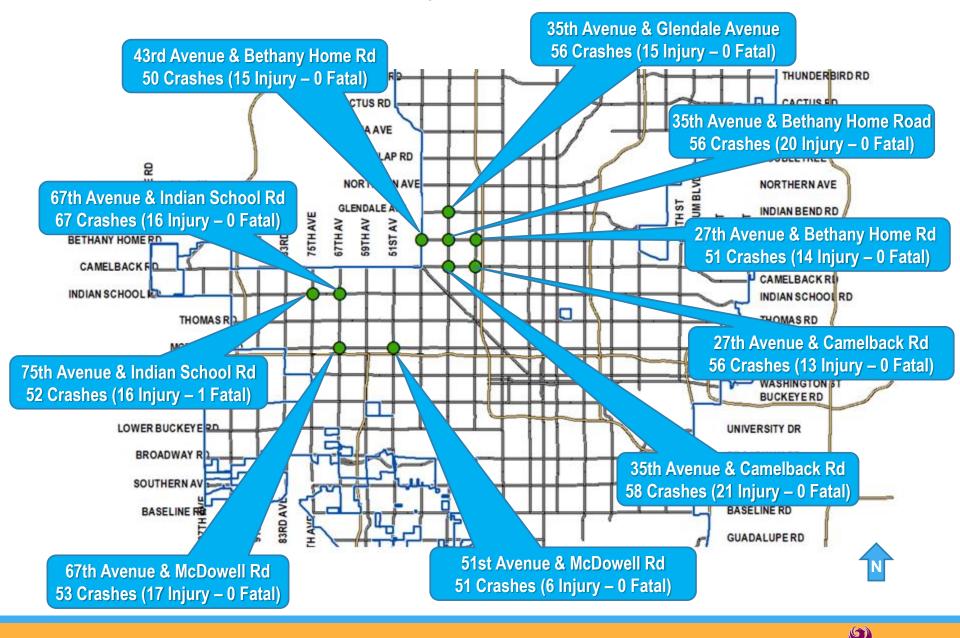
\*Arizona data comes from the 2019 Arizona Crash Facts Summary (ADOT)



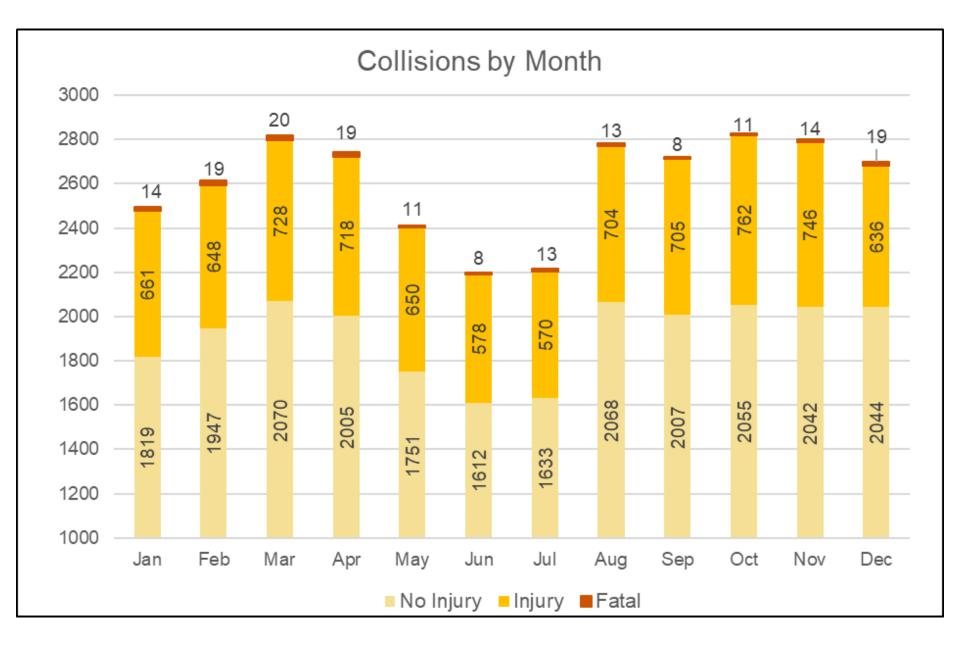
\*Arizona data comes from the 2019 Arizona Crash Facts Summary (ADOT)



#### Locations with the Highest Number of Collisions 2019

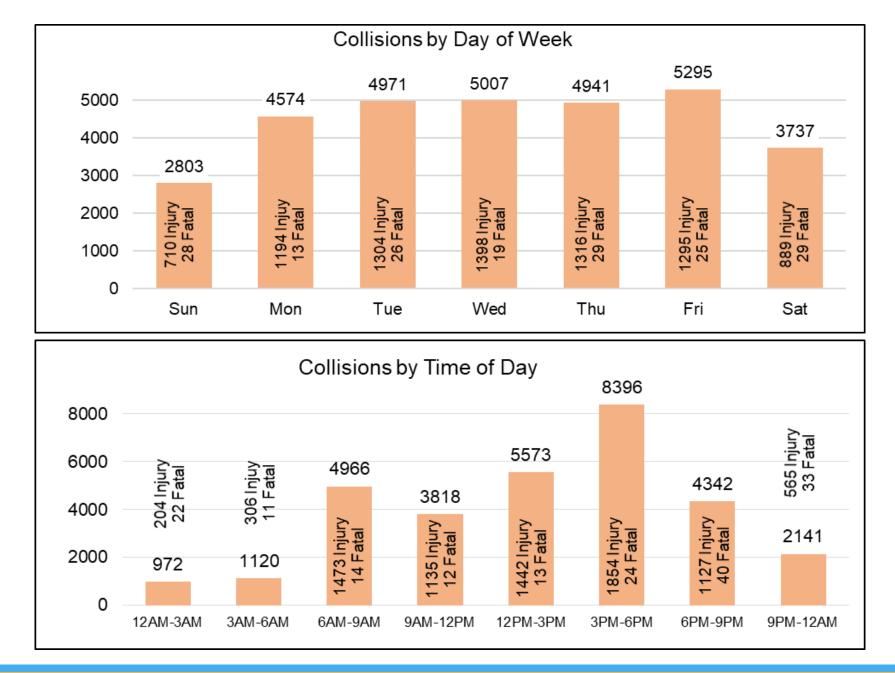


Number/Severity of Crashes Home 2019 COMPREHENSIVE TRAFFIC COLLISION SUMMARY



When Do Collisions Occur <u>Home</u> 2019 COMPREHENSIVE TRAFFIC COLLISION SUMMARY

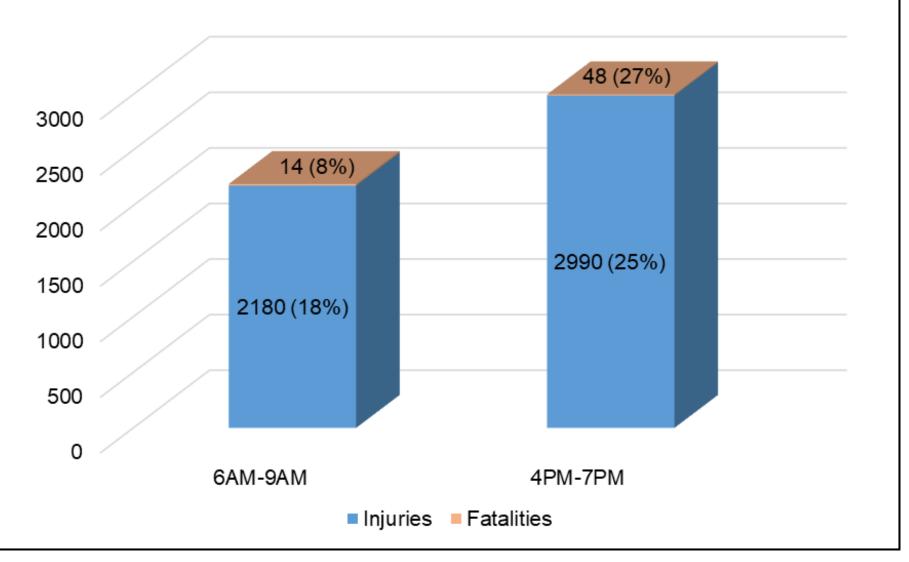






When Do Collisions Occur Home 2019 COMPREHENSIVE TRAFFIC COLLISION SUMMARY

### Rush Hour Injuries and Fatalities

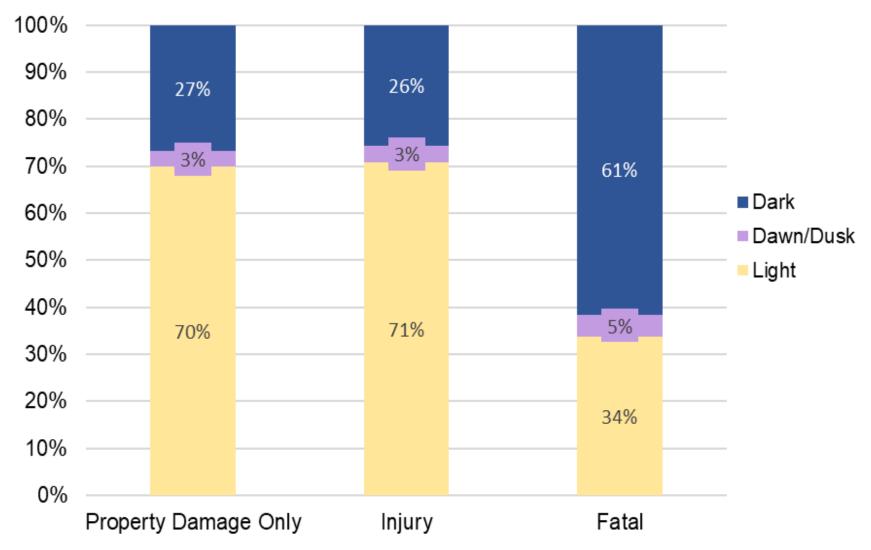


Rush Hour related crashes were 43% of total injuries and 35% of total fatalities



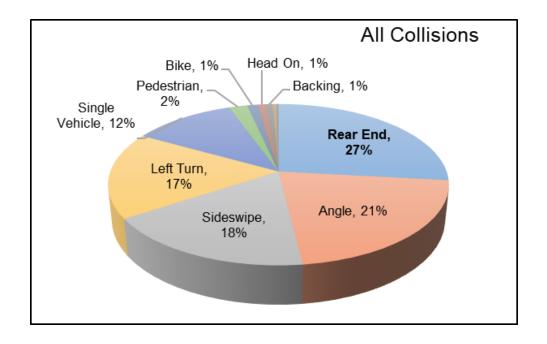
When Do Collisions Occur <u>Home</u> 2019 COMPREHENSIVE TRAFFIC COLLISION SUMMARY

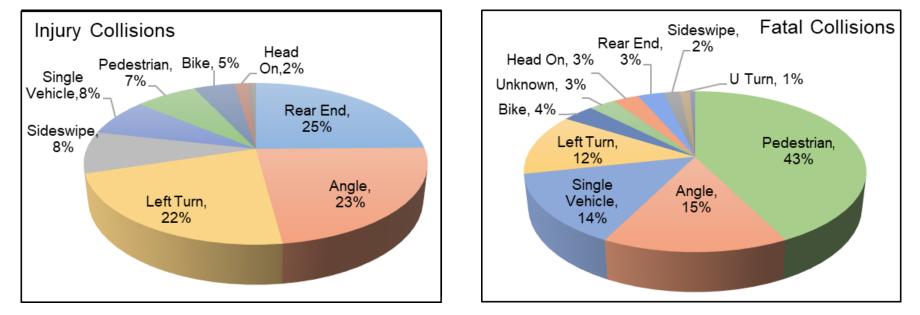
# Collision Severity by Light Conditions





When Do Collisions Occur Home 2019 COMPREHENSIVE TRAFFIC COLLISION SUMMARY

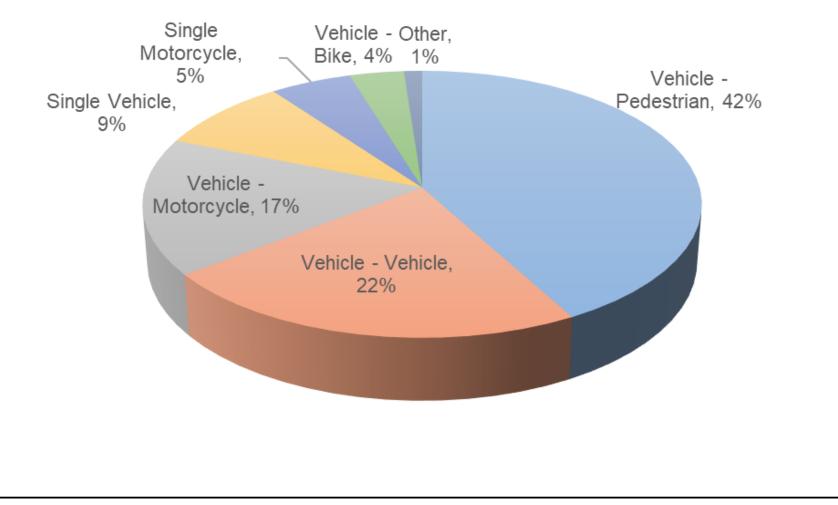






How Do Collisions Occur Home 2019 COMPREHENSIVE TRAFFIC COLLISION SUMMARY

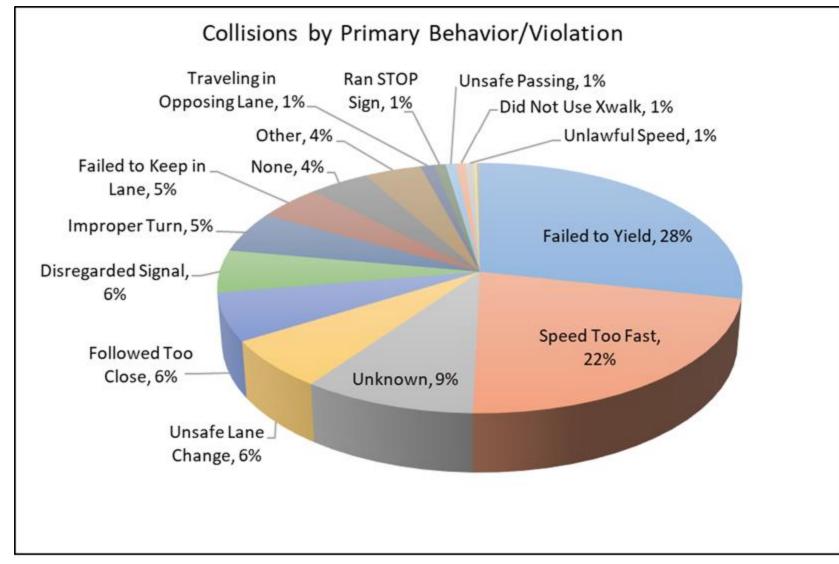
### Fatal Collisions by Mode of Transportation



#### 169 Total Fatal Collisions



How Do Collisions Occur <u>Home</u> 2019 COMPREHENSIVE TRAFFIC COLLISION SUMMARY



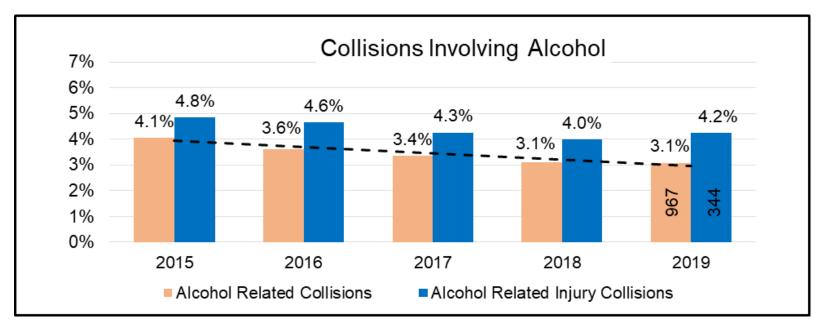
- 1 "Speed Too Fast" does not necessarily mean the person was exceeding the speed limit but rather the person was traveling too fast for the conditions at the time.
- 2 "Unknown" includes leaving the scene, conflicting statements without witnesses, incapacitated persons.
- 3 "Other" includes less common 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.

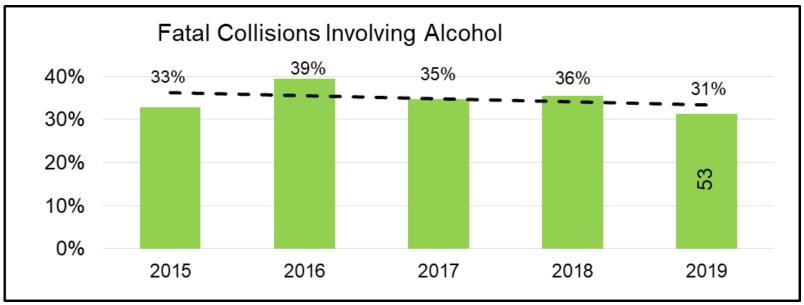


#### Fatal Collisions by Mode of Transportation -Vehicle-Vehicle — Pedestrian — Single vehicle — Bicycle



How Do Collisions Occur <u>Home</u> 2019 COMPREHENSIVE TRAFFIC COLLISION SUMMARY

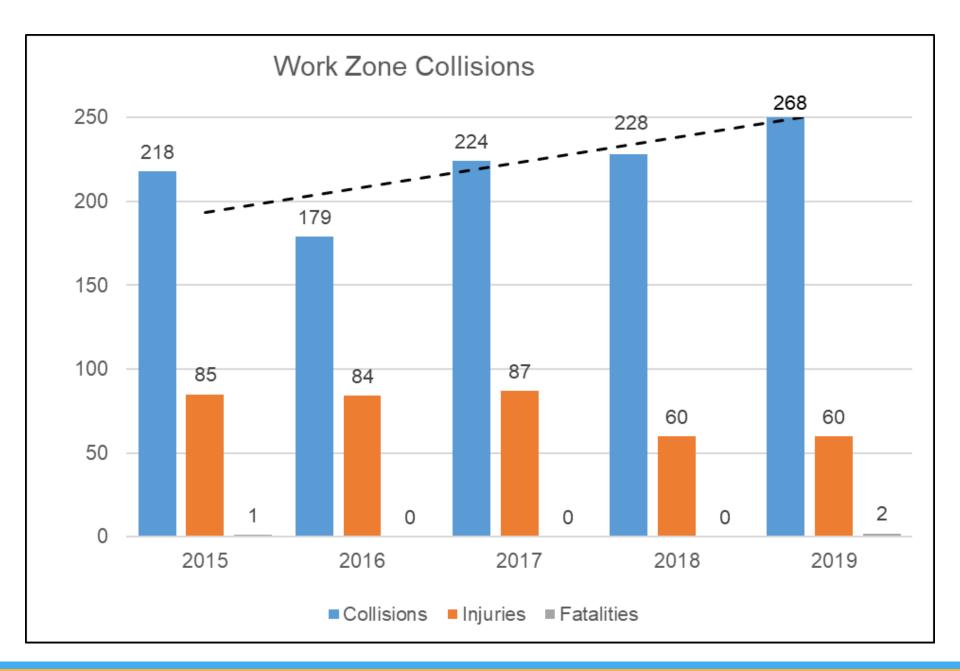






ons Occur Home 2019 COMPREHENSIVE TRAFFIC COLLISION SUMMARY

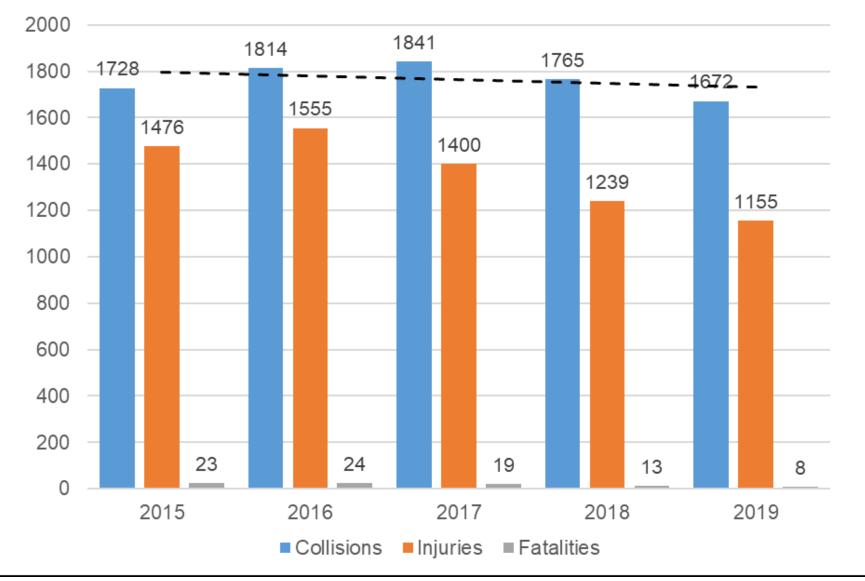
How Do Collisions Occur



**How Do Collisions Occur** 



## Motorist Run-Red Collisions



How Do Collisions Occur

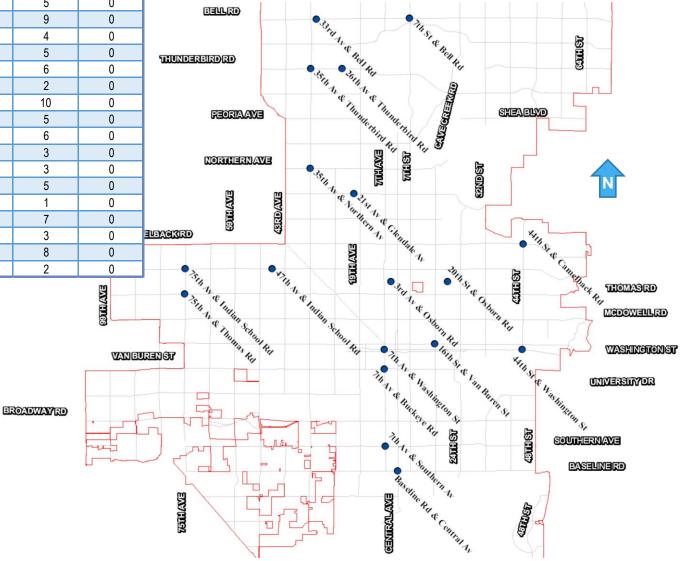
Home 2019 COMPREHENSIVE TRAFFIC COLLISION SUMMARY

City of Phoenix STREET TRANSPORTATION DEPARTMENT

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Intersection	Total	Total	Total	
InterSection	Collisions		Fatalities	
75th Av & Indian School Rd	8	4	0	
7th Av & Washington St	7	5	0	
7th Av & Southern Av	7	9	0	
44th St & Washington St	7	4	0	
7th St & Bell Rd	7	5	0	
Baseline Rd & Central Av	7	6	0	
21st Av & Glendale Av	7	2	0	
35th Av & Thunderbird Rd	7	10	0	
7th Av & Buckeye Rd	6	5	0	
47th Av & Indian School Rd	6	6	0	
3rd Av & Osborn Rd	6	3	0	
44th St & Camelback Rd	6	3	0	
75th Av & Thomas Rd	6	5	0	
26th Av & Thunderbird Rd	6	1	0	
35th Av & Northern Av	6	7	0	
33rd Av & Bell Rd	6	3	0	Ð
20th St & Osborn Rd	6	8	0	
16th St & Van Buren St	6	2	0	_

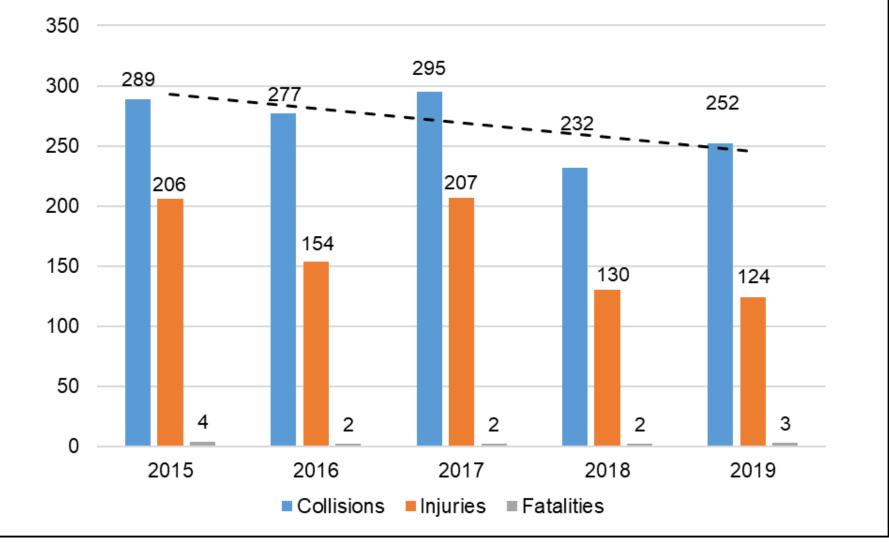
#### Locations with the Highest Number of Motorist Run Red Collisions



How Do Collisions Occur



# Run STOP Sign Collisions



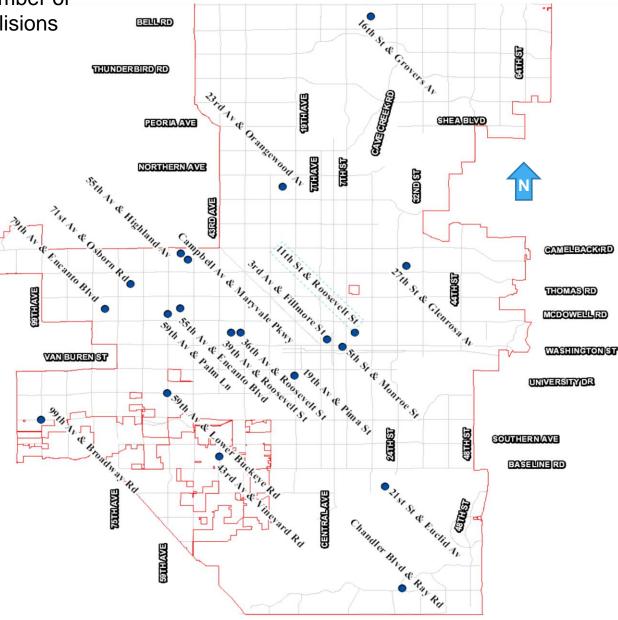
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#### Locations with the Highest Number of Motorist Run STOP Sign Collisions

	Total	Total	Total	1
Intersection	Intersection Collisions		Fatals	
99th Av & Broadway Rd	5	2	0	L
Campbell Av & Maryvale Pkwy	5	0	0	
23rd Av & Orangewood Av	3	3	0	
71st Av & Osborn Rd	3	1	0	
59th Av & Lower Buckeye Rd	3	1	0	
55th Av & Encanto Blvd	3	1	0	Ļ
Chandler Blvd & Ray Rd	3	1	0	
3rd Av & Fillmore St	2	0	0	ľ
5th St & Monroe St	2	2	0	
55th Av & Highland Av	2	0	0	
11th St & Roosevelt St	2	1	0	
39th Av & Roosevelt St	2	0	0	
16th St & Grovers Av	2	0	0	
43rd Av & Viney ard Rd	2	0	0	1
19th Av & Pima St	2	2	1	
59th Av & Palm Ln	2	2	0	)
21st St & Euclid Av	2	3	0	
79th Av & Encanto Blvd	2	2	0	
27th St & Glenrosa Av	2	0	0	
36th Av & Roosevelt St	2	0	0	

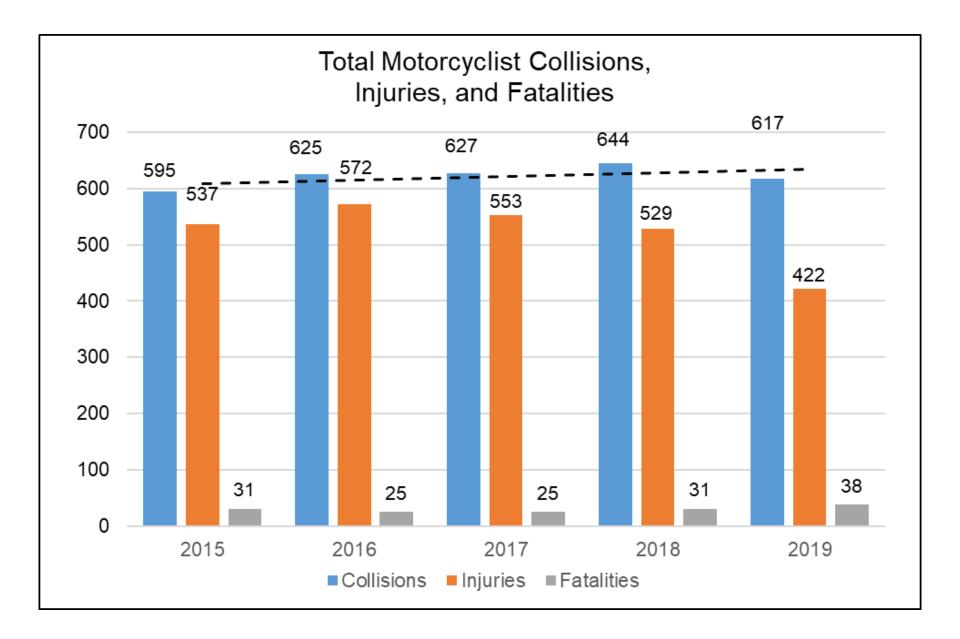
**How Do Collisions Occur** 



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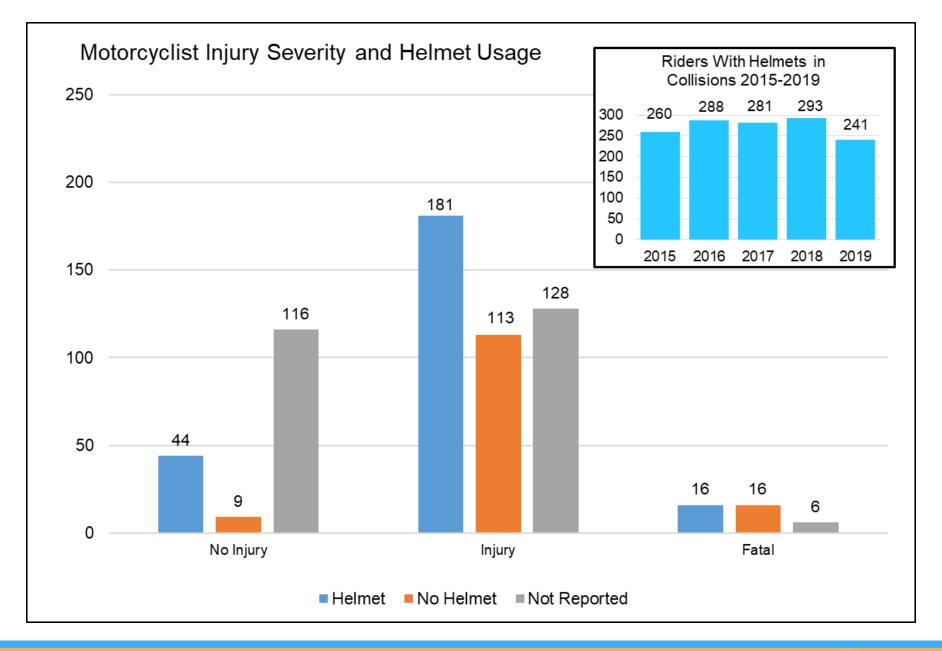
**City of Phoenix** STREET TRANSPORTATION DEPARTMENT

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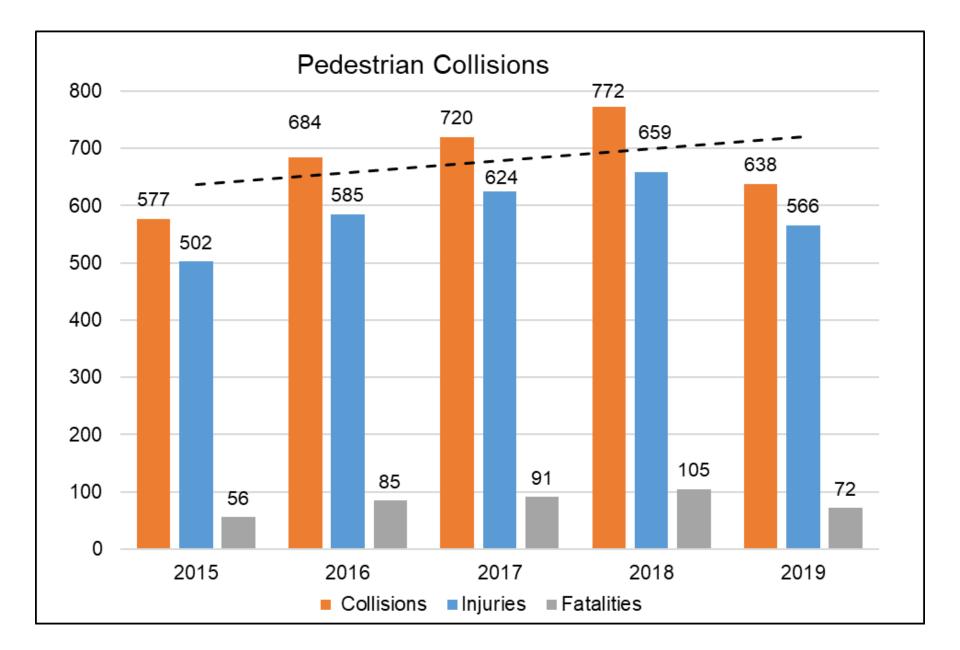
Motorcyclist Collisions Home 201





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**Motorcyclist Collisions** 



Pedestrian Collisions

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



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

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Pedestrian Collisions



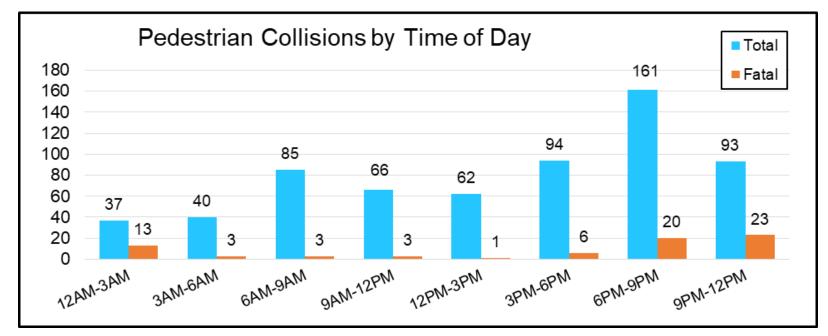
#### Citywide LED Streetlight Conversion

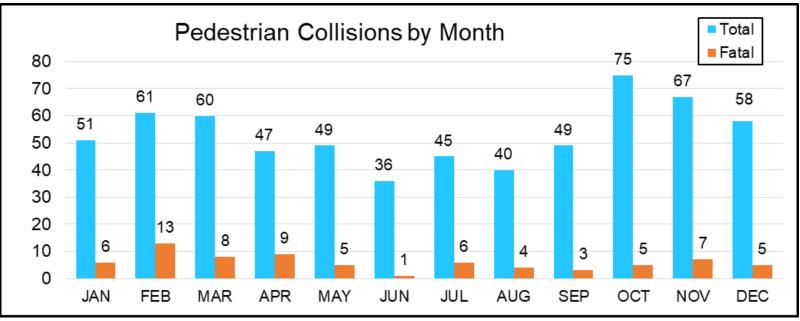
The Street Transportation Department completed a project to convert 90,000 streetlights to LED for efficiency and night visibility.





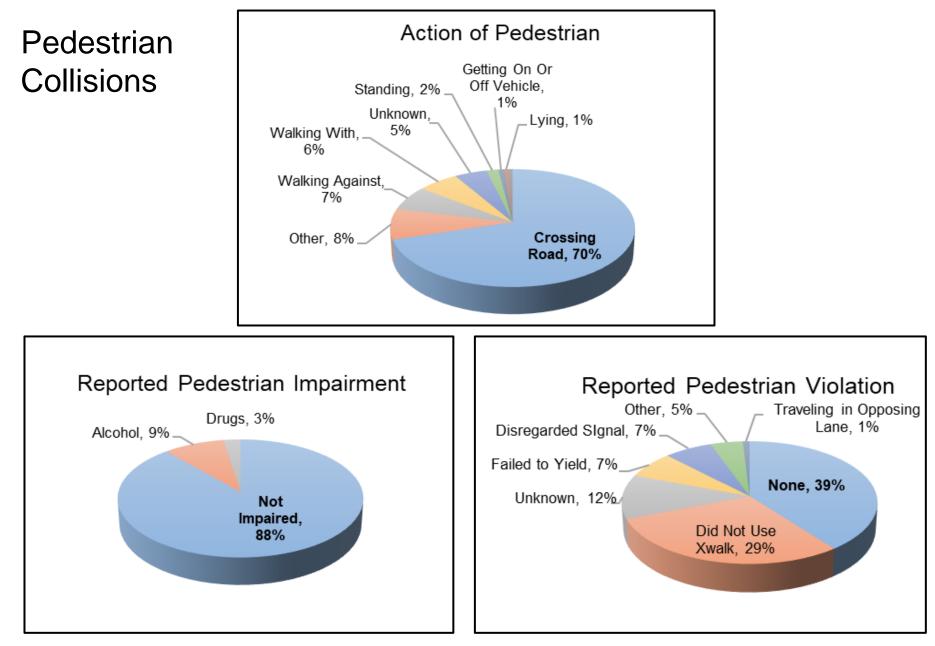






**Pedestrian Collisions** 

Home 2019 COMPREHENSIVE TRAFFIC COLLISION SUMMARY

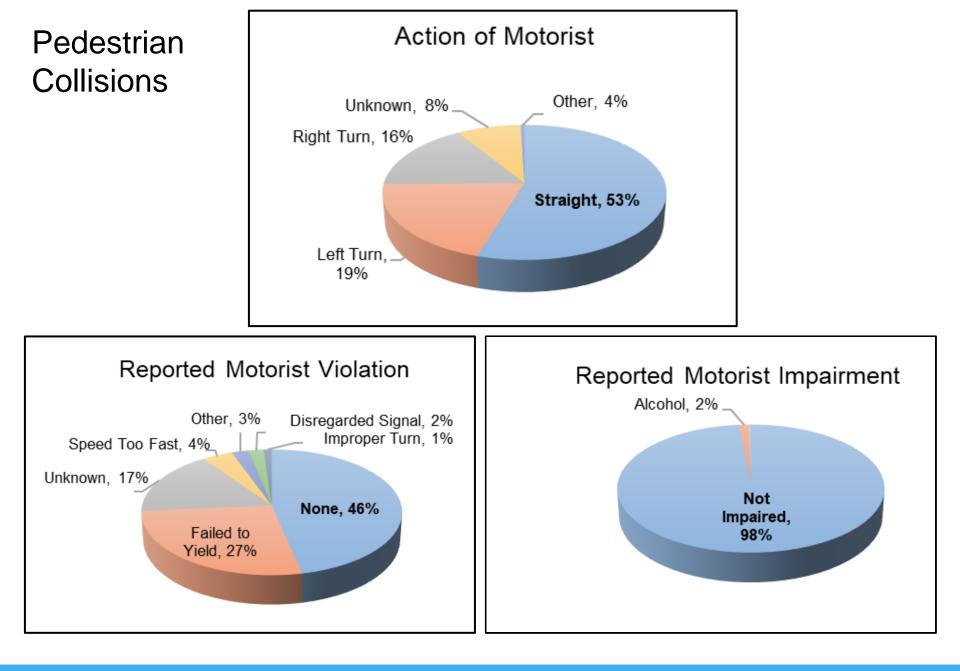


Note: In collisions involving more than one pedestrian, the attributes of only one pedestrian are used and chosen based on higher injury severity, then lowest age if needed.

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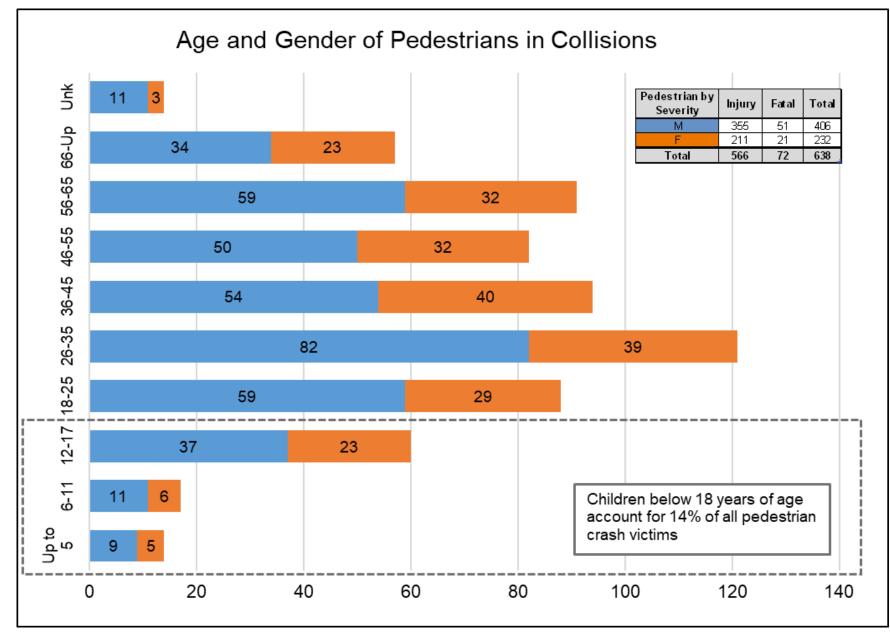
City of Phoenix STREET TRANSPORTATION DEPARTMENT

**Pedestrian Collisions** 



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.



#### 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.



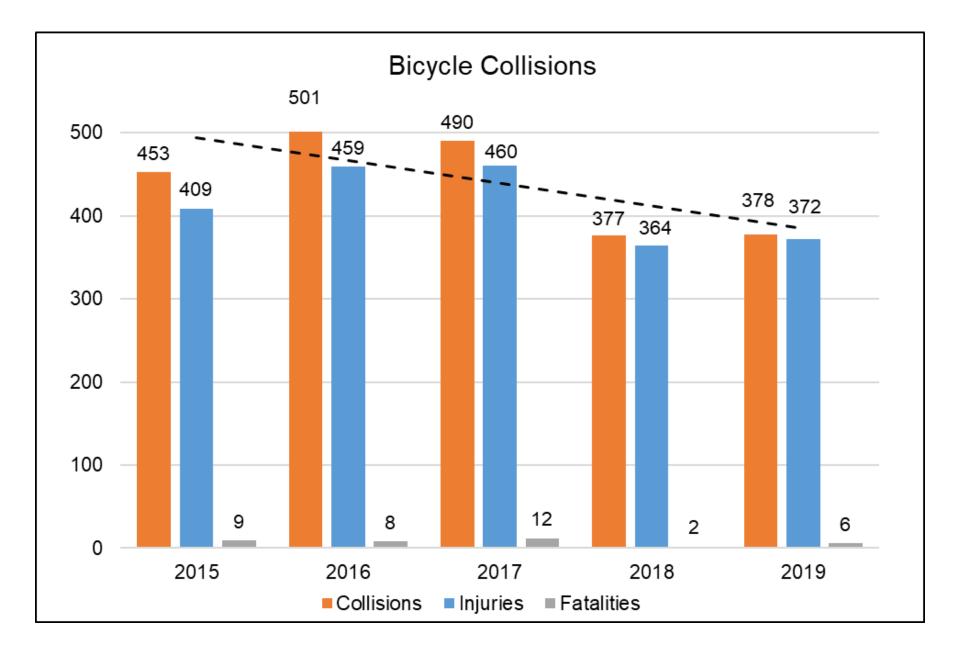
Mercury Mine Community event -School Safety, Police and Fire staff set up and operated a bike rodeo at the Mercury Mine Community event.





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Pedestrian Collisions





Crews completed a green bike lane demonstration for local TV news.

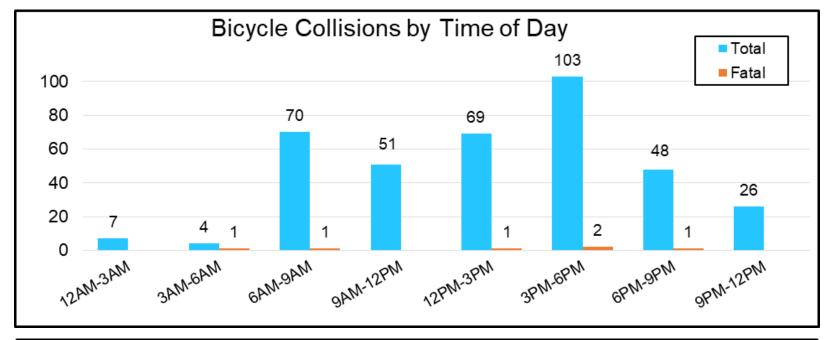


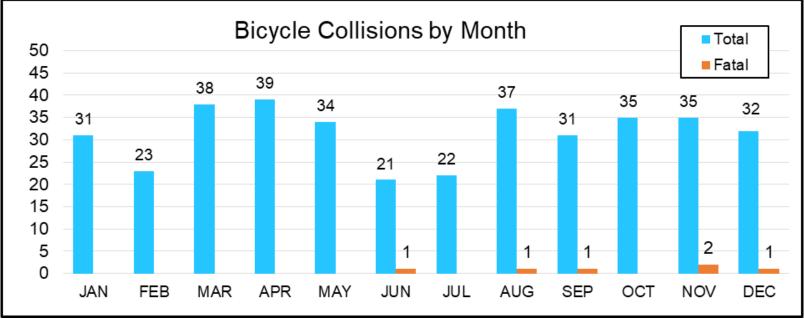


A buffered bike lane was added along 39th Avenue from Pinnacle Peak to Happy Valley Roads.

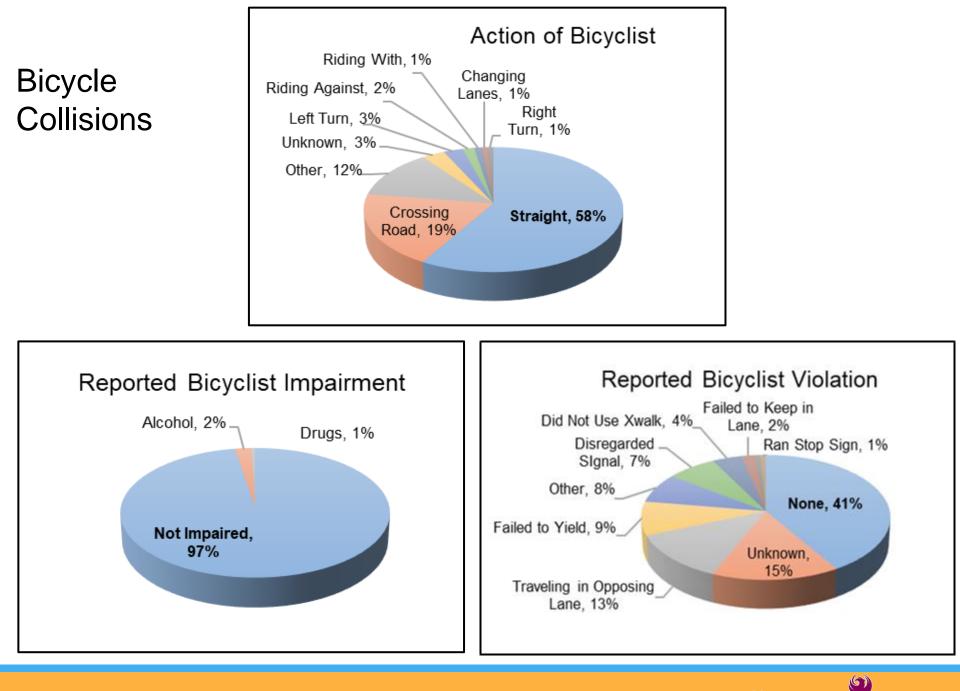


**Bicycle Collisions** 



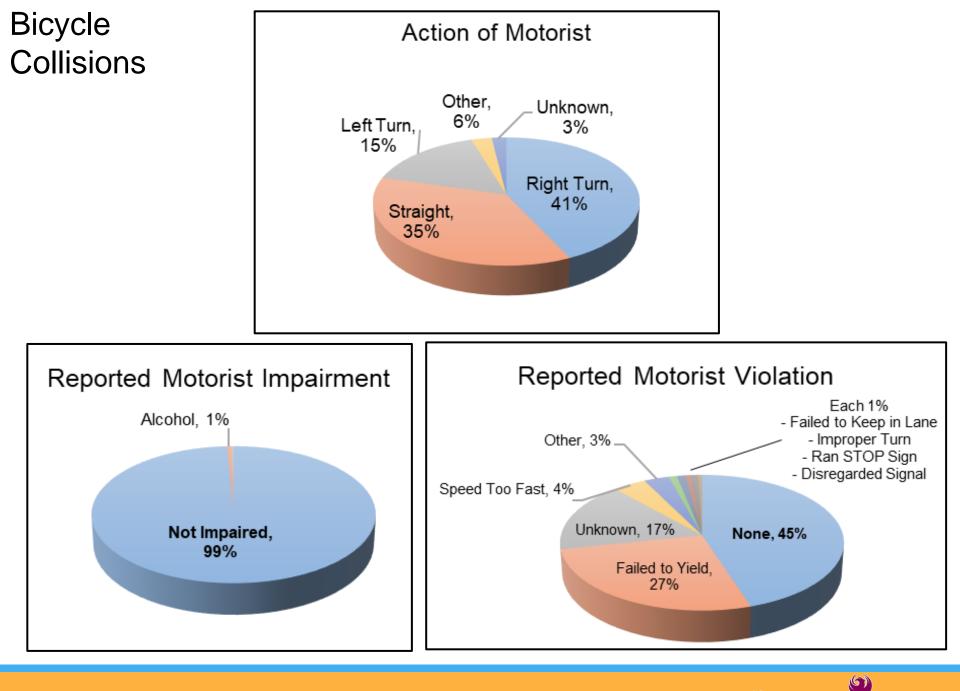






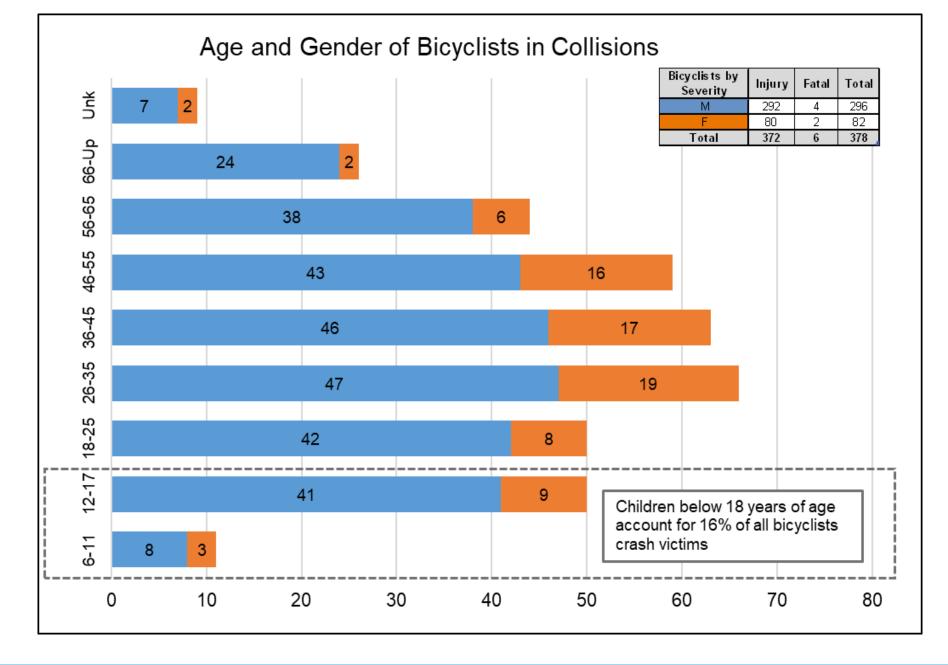
Home 2019 COMPREHENSIVE TRAFFIC COLLISION SUMMARY

City of Phoenix STREET TRANSPORTATION DEPARTMENT



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City of Phoenix STREET TRANSPORTATION DEPARTMENT





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.

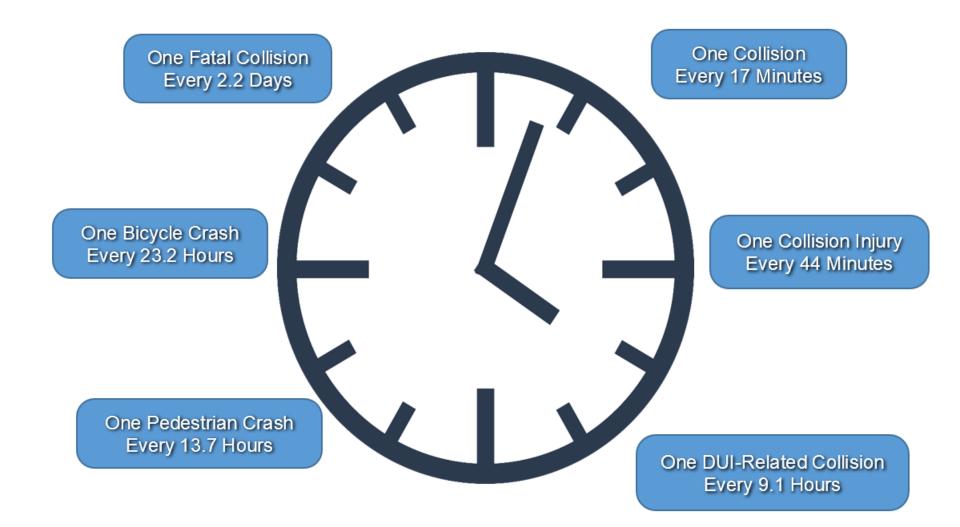


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**Bicycle Collisions** 

#### Phoenix Traffic Clock





Phoenix Traffic Clock

## Summary

- Seventy-Four percent of all collisions resulted in property damage only.
- Approximately **32** people were injured every day as a result of traffic crashes.
- **Twenty-Nine** percent of pedestrian collisions involved the pedestrian not using the crosswalk.
- Pedestrian collisions decreased from 772 in 2018 to 638 in 2019.



# Acknowledgements

The 2019 Phoenix Collision Summary documents the collisions in the City of Phoenix throughout the 2019 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 2019 Comprehensive Traffic Collision Summary was prepared by Nicolas Santiago (Traffic Engineer II) with assistance from Traffic Safety Section staff Jacob Martinez (Senior Engineering Technician).



Jacob Martinez

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.



Nicolas Santiago



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

