

# 2019 Pedestrian Collision Summary



TRAFFIC SERVICES DIVISION  
OFFICE OF PEDESTRIAN SAFETY  
APRIL 2020

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# Introduction

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The 2019 Collision Summary provides a brief analysis of pedestrian collision statistics related to demographics, accident types, and locations. The report also includes collision data from 2015 through 2019 to identify and track pedestrian collision trends that have emerged during the past five years. These statistics provide a strong indication of roadway behaviors that negatively impact pedestrians' safety and helps identify which violations should be prioritized for increased education and enforcement.

The 2019 Pedestrian collision summary includes a reported 637 pedestrian-related collisions resulting in 587 pedestrian injuries and 72 pedestrian fatalities. These pedestrian-related collisions accounted for 2 percent of all collisions, 5 percent of all injuries, and 40 percent of all fatalities occurring on City Streets. As the number of collisions decreased this year, the number of injuries and fatalities also decreased to the lowest they have been in three and four years, respectively. Consistent with previous years, male pedestrians were involved in more collisions at a male to female ratio of 1.7:1. Also, the pedestrian age group with the highest number of collisions were males between the ages of 26 and 35. Just like prior years, the majority (55 percent) of collisions occurred at uncontrolled locations.

The findings in this report are used to inform and influence the design of new pedestrian facilities, the redesign of existing roadways, the development of education programs and enforcement campaigns for pedestrians and motorists. In an effort to identify locations and collision trends that may require special attention, this report also identifies intersections and roadway locations with the highest annual pedestrian collisions.

NOTE: Some figures in the 2019 Pedestrian Collision Summary may differ from 2019 Traffic Collision Summary due to the detailed analysis of crash reports.

# 2019 Phoenix Pedestrian Collision Facts-at-a-Glance

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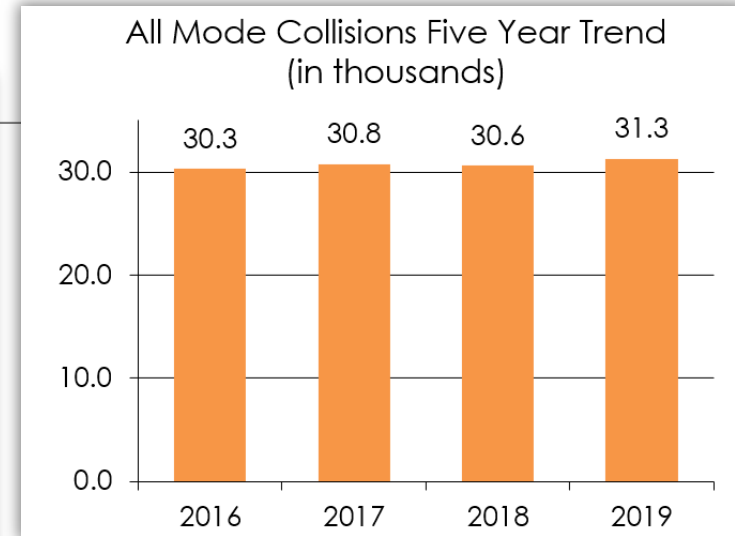
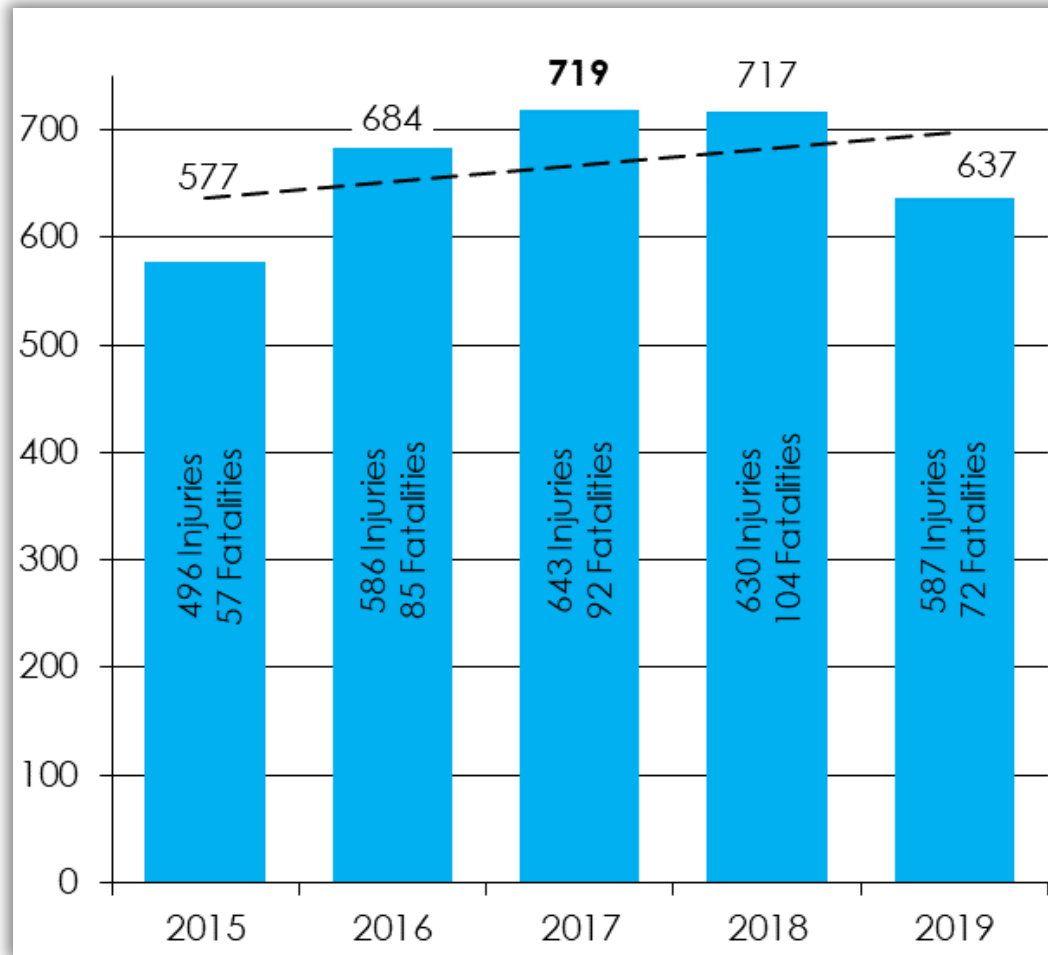
## Important Points to Know About the Pedestrian Collision Summary in 2019:

- Pedestrian collisions decreased for the first time in six years.
- Most pedestrian collisions involve risky behaviors by pedestrians.
- More pedestrians are struck at mid-block crossings than other locations.
- Over 80 percent fatal pedestrian collisions occur at night.
- There is a very small chance for a pedestrian to come out of a collision un-injured.

In 2019,

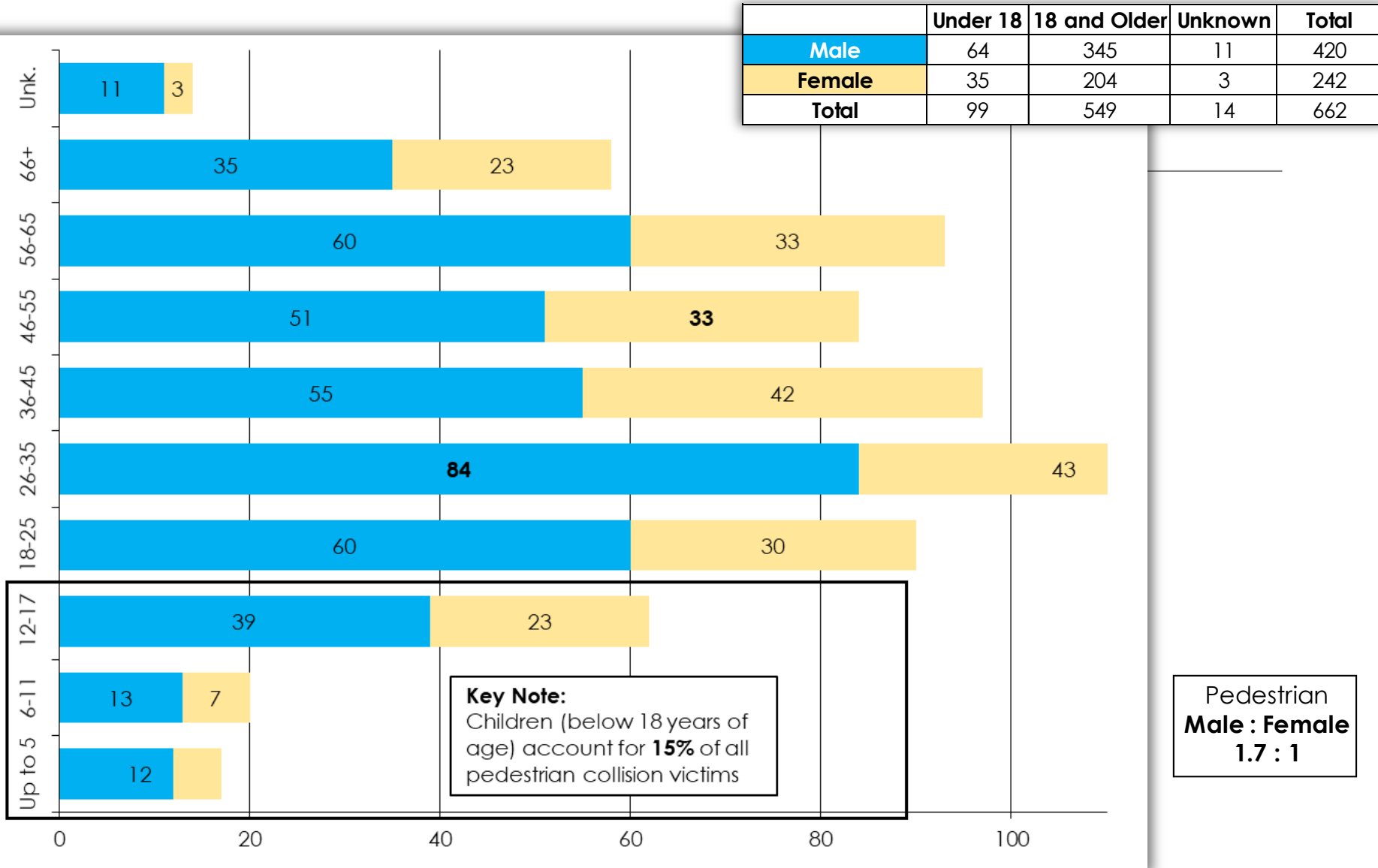
- Pedestrian collisions accounted for 2% of all collisions, but 40% of all pedestrian fatalities on city streets.
- There was a 31% decrease in pedestrian fatalities compared to 2018.
- 40 school-age pedestrians (5 to 17 years old) were hit during school hours (Monday – Friday, 7 AM – 4 PM).
- About half of all pedestrian collisions occurred during dark hours, however over 80% of fatal pedestrian collisions occurred during these same dark hours.
- Pedestrian collisions occurred most frequently between 6 PM and 9 PM.
- Wednesday had the highest percentage (17%) of all pedestrian collisions.
- There were 76 pedestrian-related collisions involving alcohol or drugs. Of those 66 involved a pedestrian under the influence, 3 involved a motorist under the influence and in 7 both pedestrian and motorist were under the influence.
- 36% of all pedestrian collisions occurred at traffic signal-controlled intersections.
- October had the highest number of pedestrian collisions at a total of 75.
- February had the highest number of fatalities at a total of 13.
- 45% of pedestrian related collisions were due to violations by only the pedestrians.
- 17% of pedestrian related collisions involved hit and runs.

# Five-Year Trend of Pedestrian-Involved Collisions, Injuries, and Fatalities

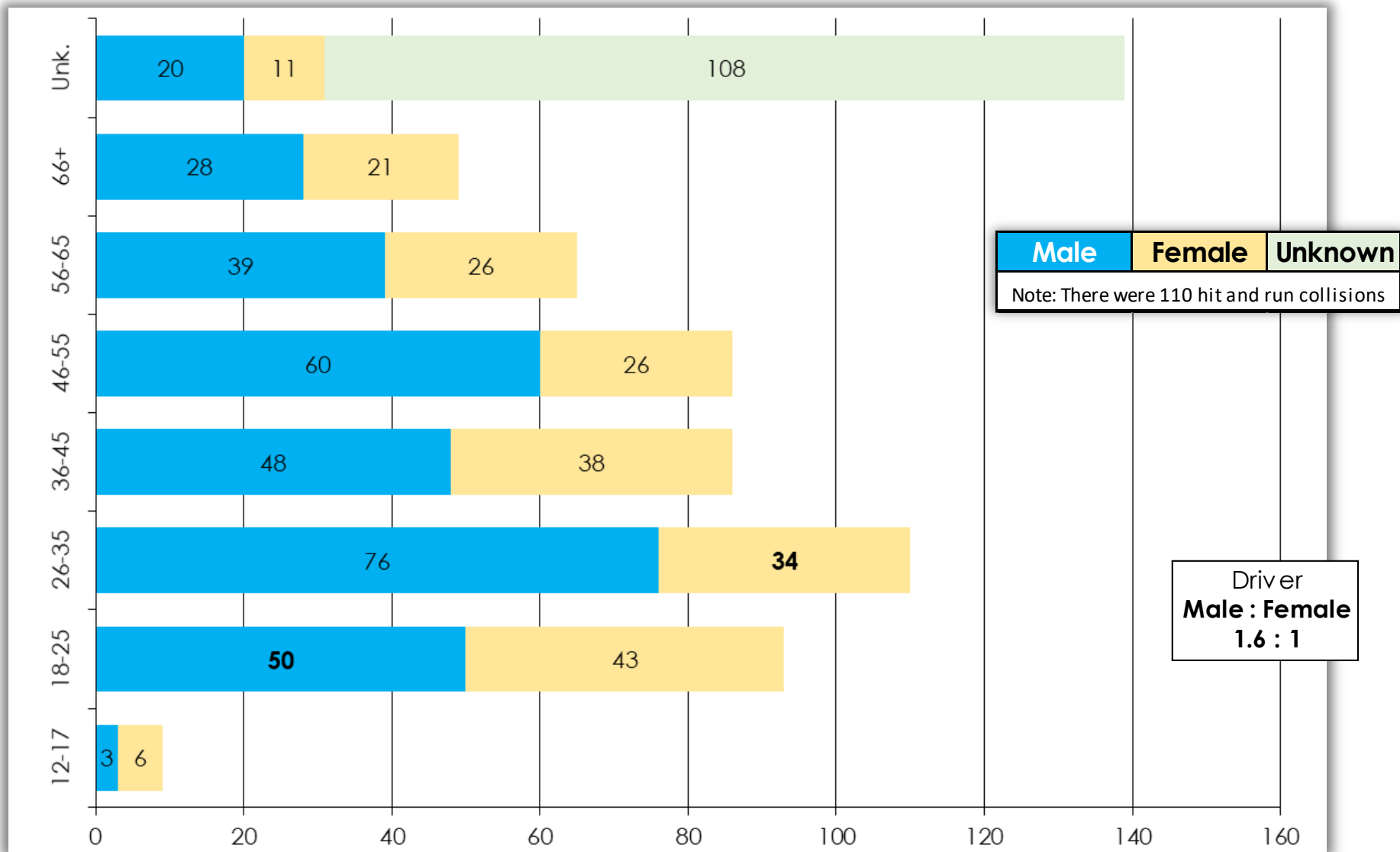


**Key Note:**  
The 10 year average is 589 collisions.

# Age and Gender of Pedestrians in Collisions



# Age and Gender of Drivers in Pedestrian Collisions

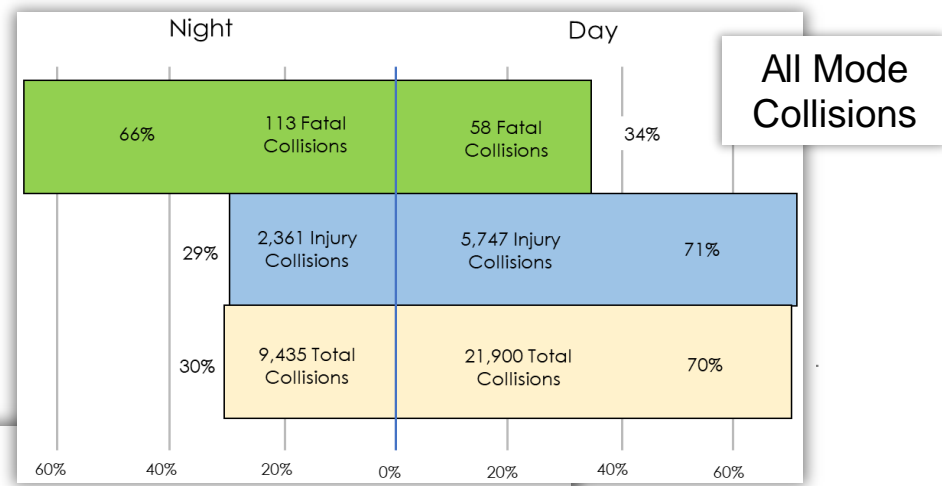




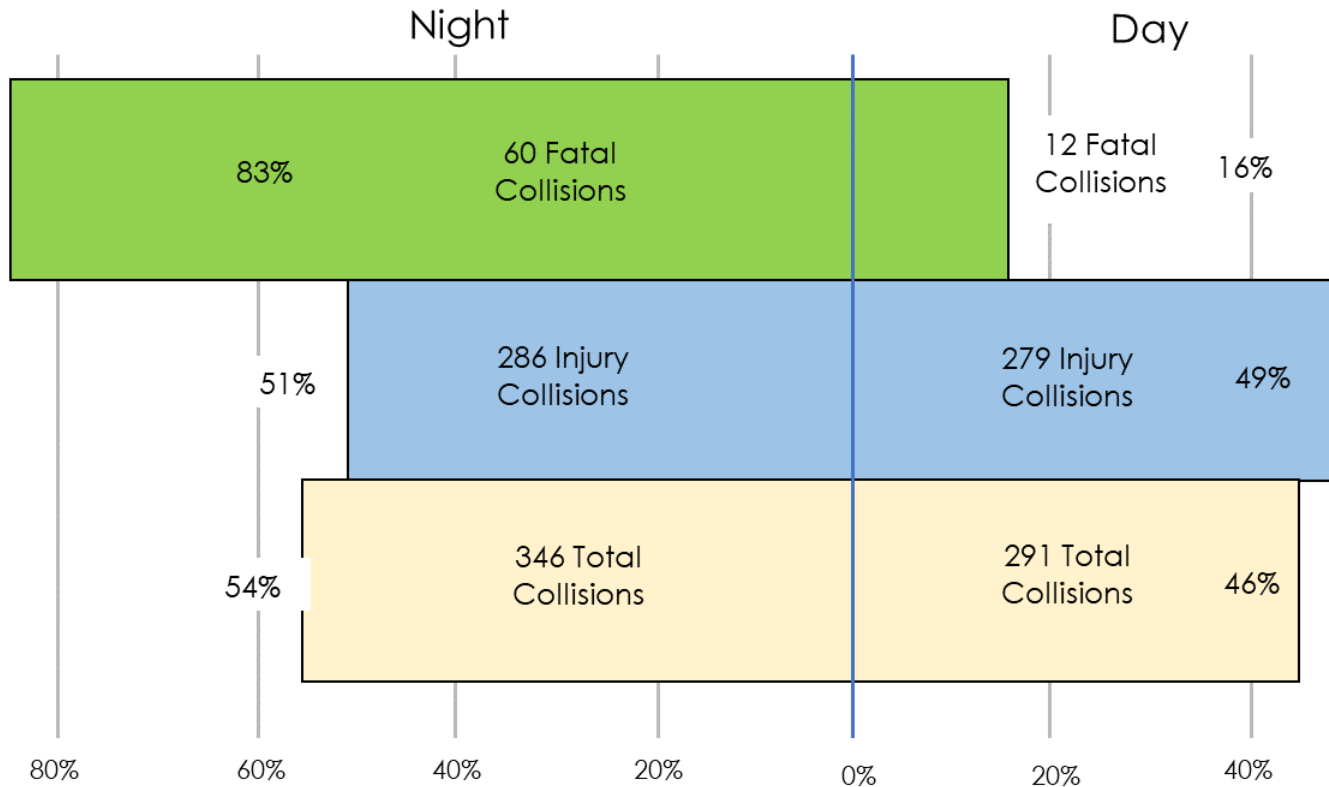
Traffic Signal at North 1st and East Taylor Streets features a “pedestrian scramble” allowing all pedestrian movements to proceed simultaneously.



# Pedestrian-Involved Collisions by Light Conditions

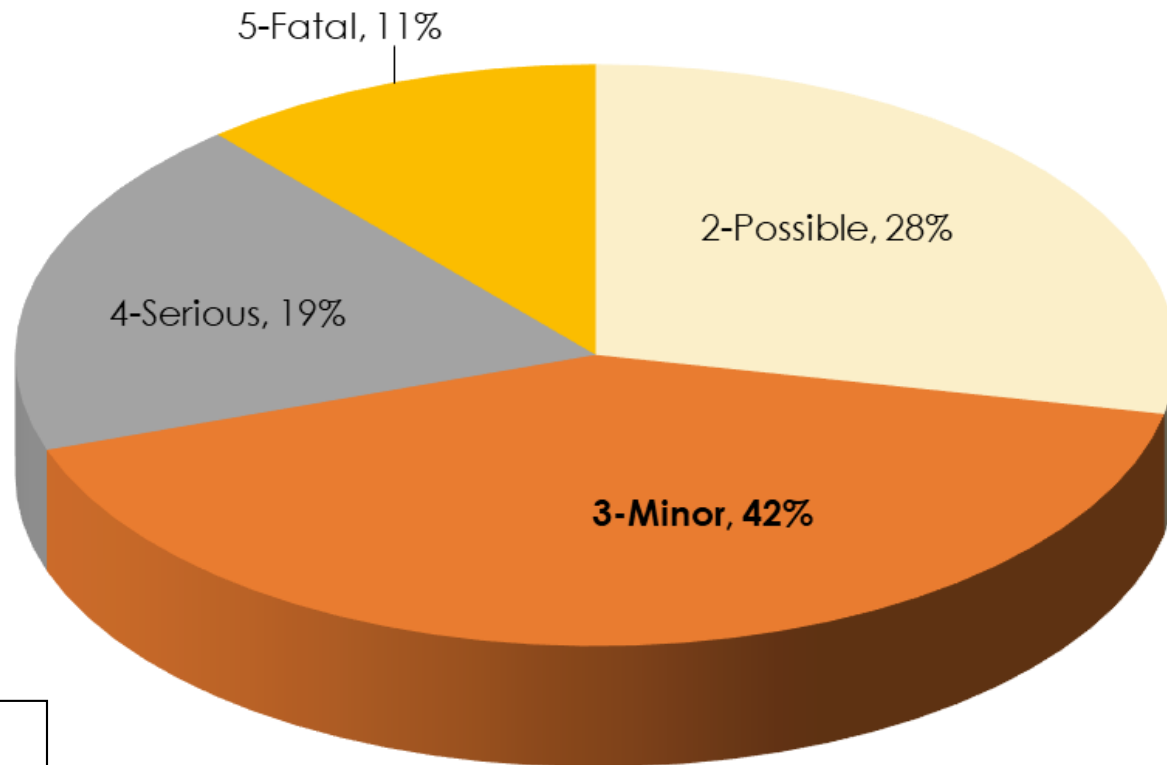


All Mode Collisions



**Keynote:**  
Pedestrians are the highest percentages for night collisions

# Pedestrian-Involved Collisions by Injury Severity



**Keynote:**

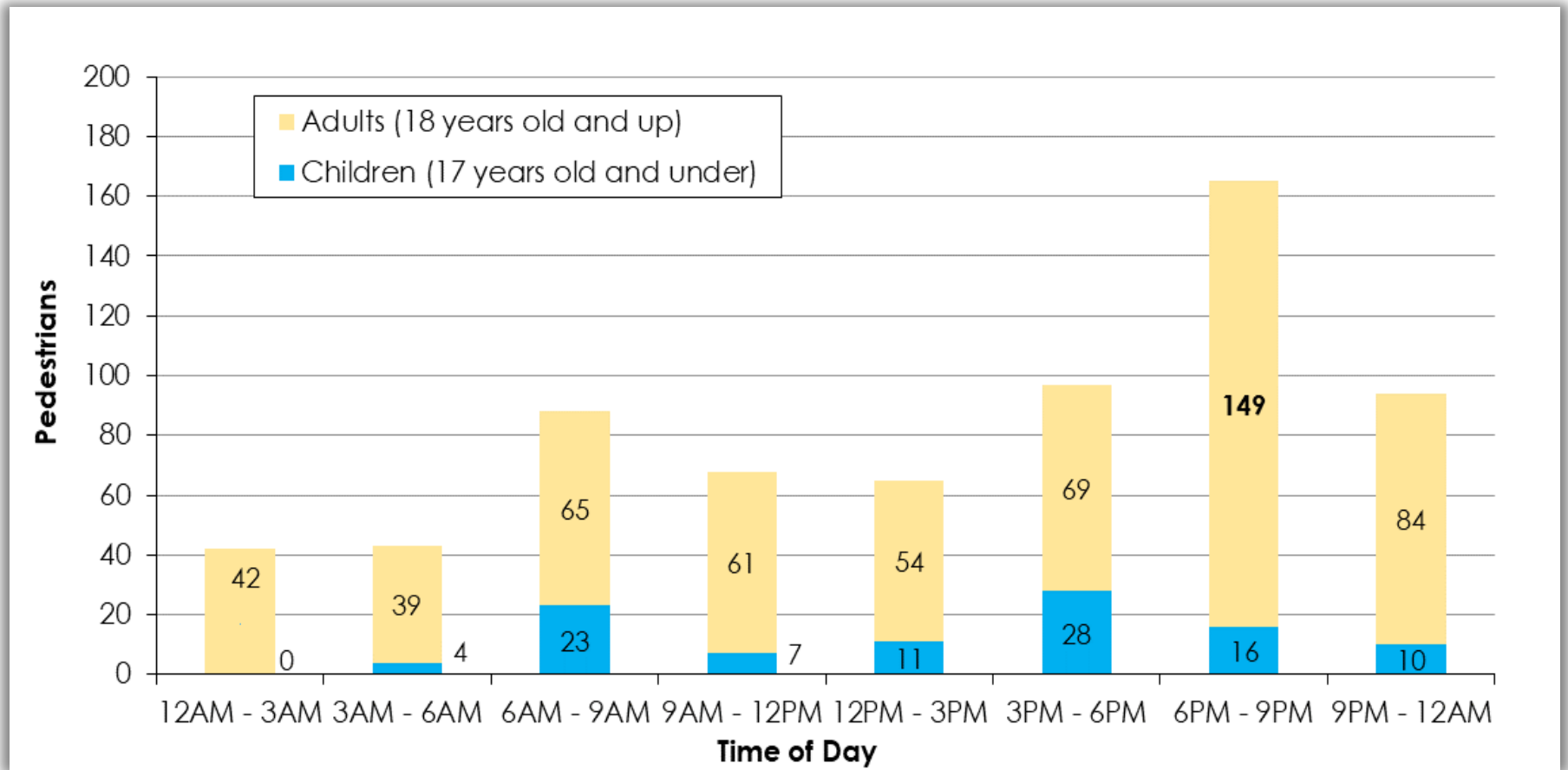
There were 121 serious injury collisions and 72 fatal collisions, accounting for 30% of all Pedestrian collisions.

# Pedestrian Signal (HAWK) at 7th St and Montebello Ave

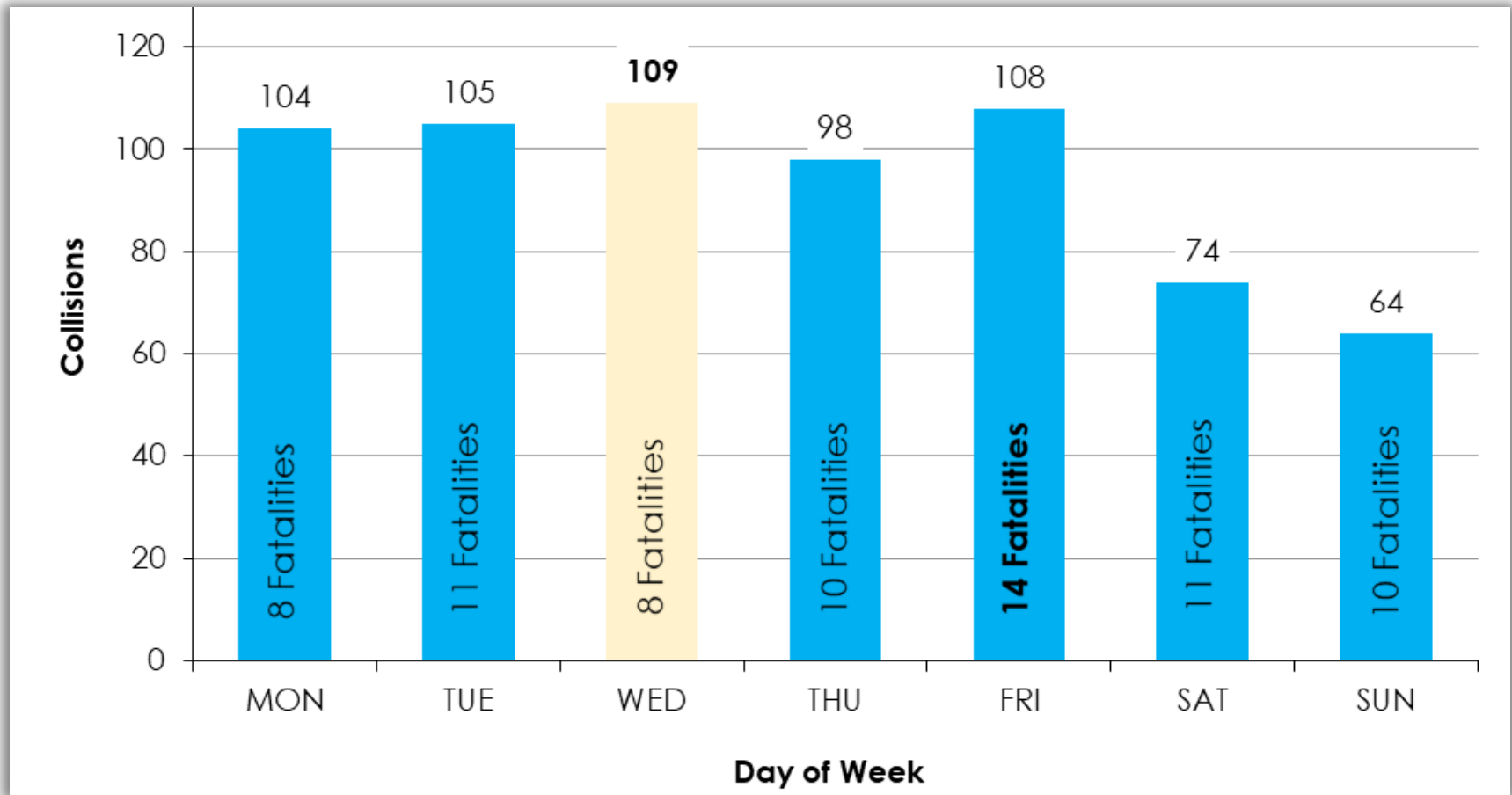


# Pedestrians in Collisions by Time of Day and Age Group

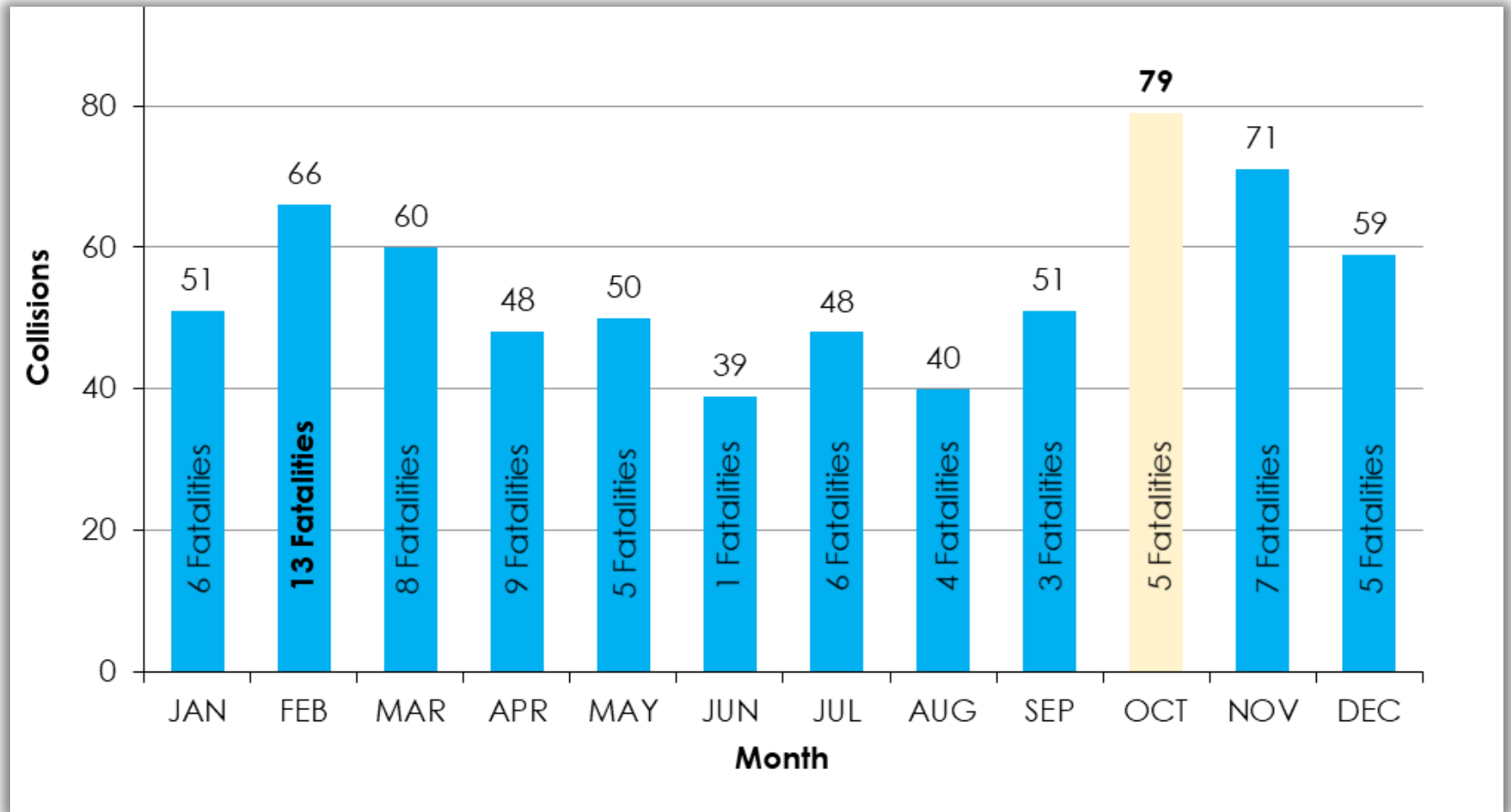
**Keynote:** Between 7 PM and 10 PM there were a total of 26 pedestrian fatalities, or 36% of all pedestrian fatalities



# Pedestrian-Involved Collisions by Day of Week



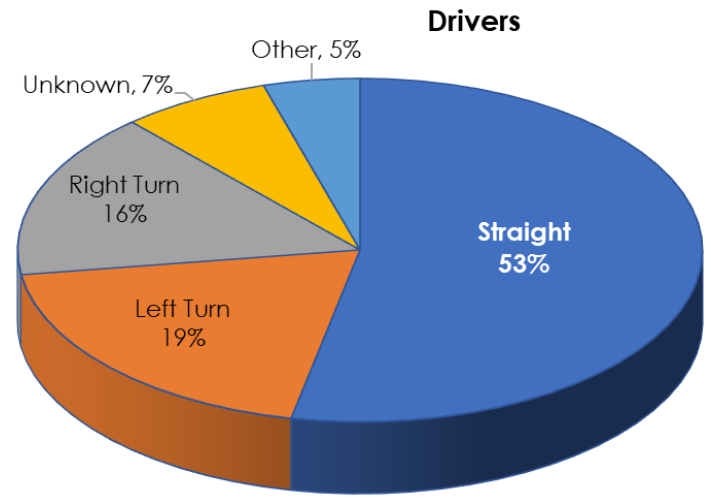
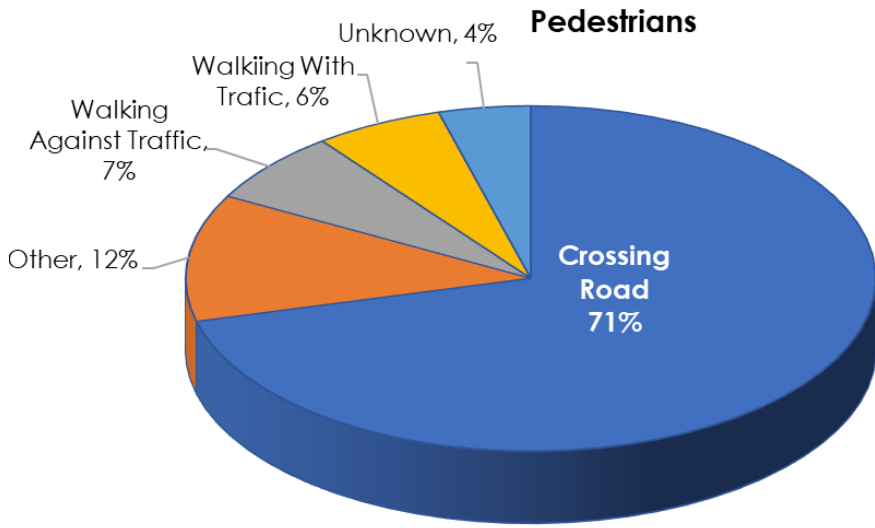
# Pedestrian-Involved Collisions by Month



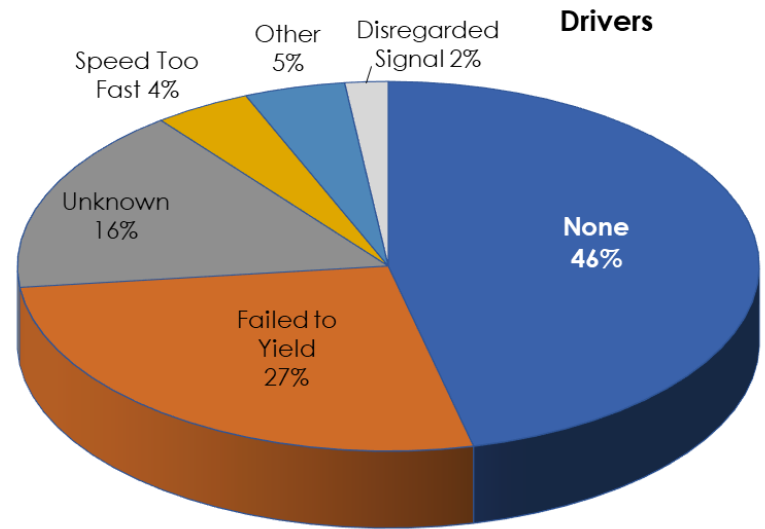
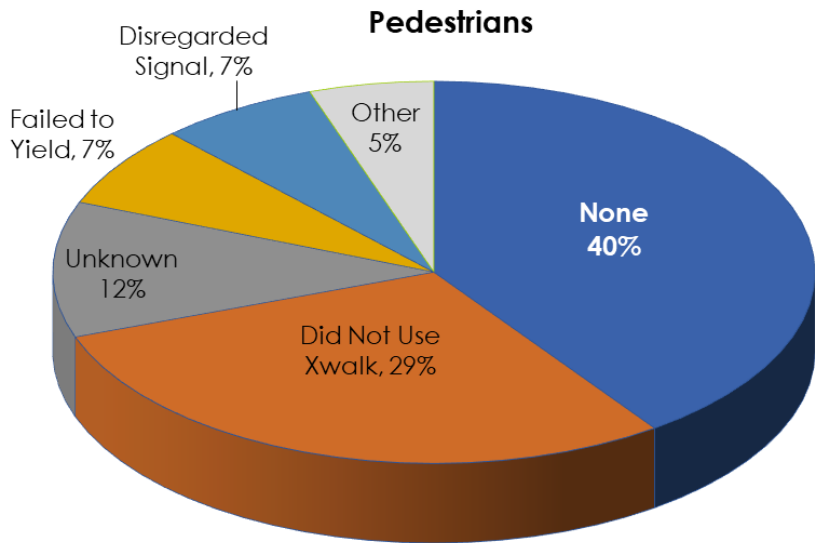


Pedestrian Flashing Beacon (PFB)  
North Fillmore Street and 6<sup>th</sup> Street

# Actions of Pedestrians and Drivers

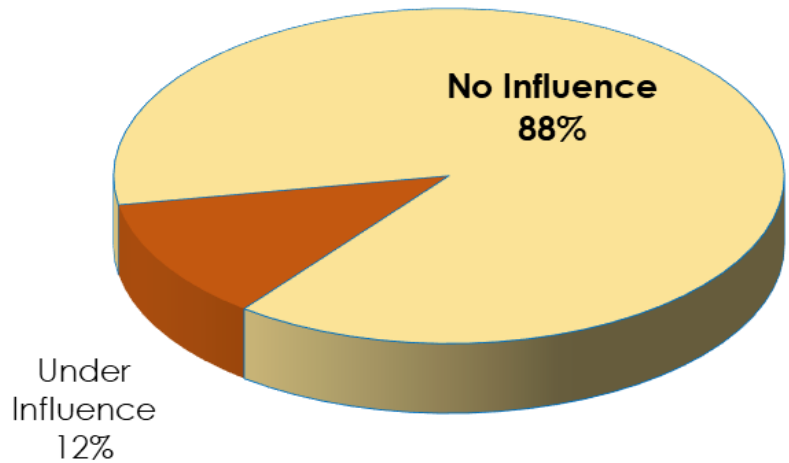


# Behavior/Violations of Pedestrians and Drivers

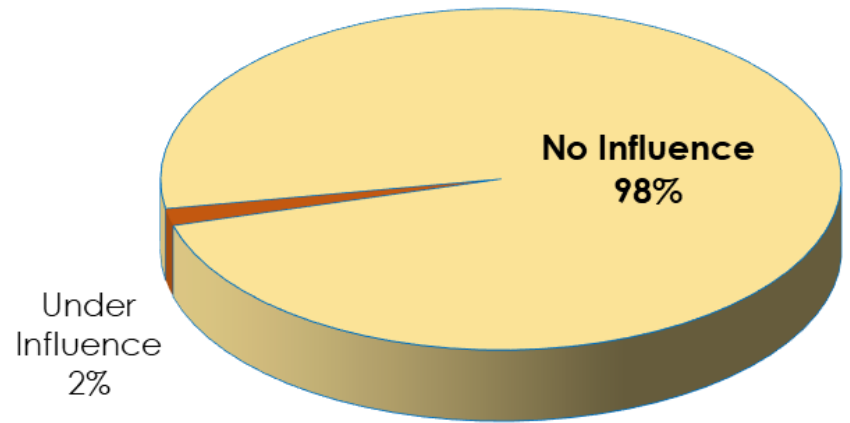




# Impairment of Pedestrians and Drivers

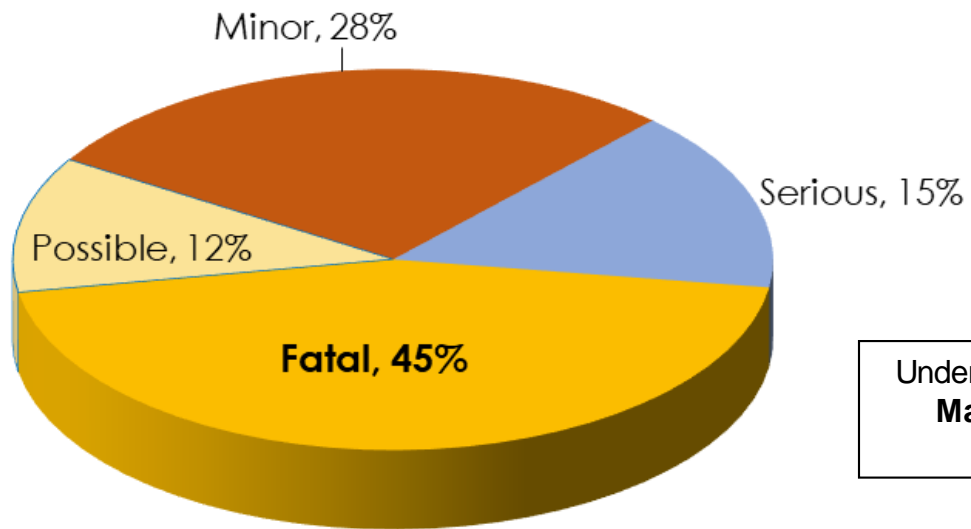
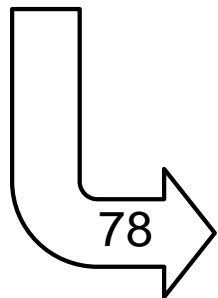


**Pedestrians**



**Drivers**

## Injury Severity of Pedestrians under the Influence

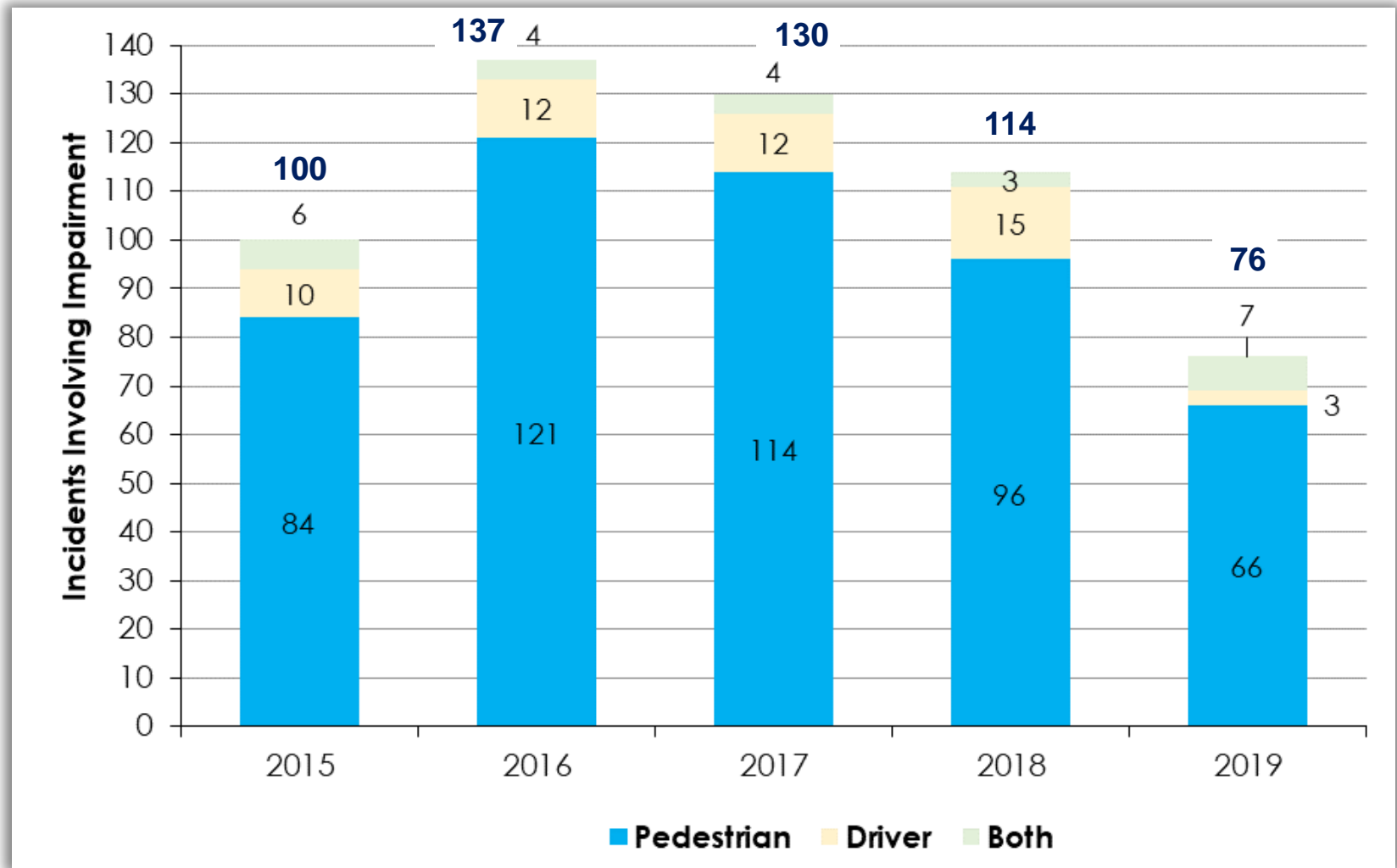


**Keynote:**

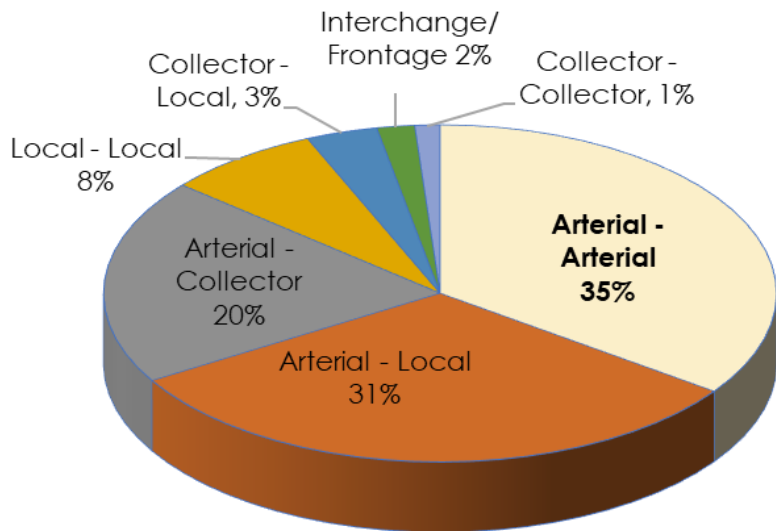
Fatal (35) and seriously injured (12) pedestrians combined for 60% of all pedestrians under the influence of drugs or alcohol.

Under the Influence  
**Male:Female**  
**2.7:1**

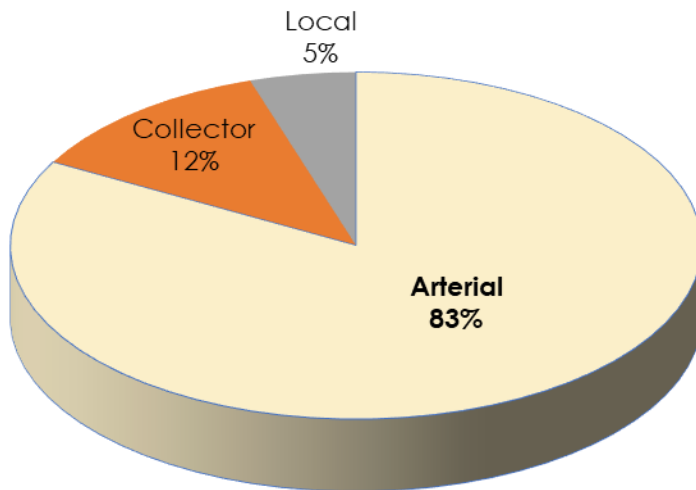
# Five Year Trend of Drugs or Alcohol Use In Pedestrian-Involved Collisions



# Pedestrian-Involved Collisions by Street Classification



**Intersection Related**  
**78%**  
**of all pedestrian collisions**



**Non-Intersection Related**  
**22%**  
**of all pedestrian collisions**

## Street Classification Examples

- Freeways are I-17 (Black Canyon Freeway), I-10, Loop 202, on-ramps, access roads, etc.
- Arterial streets are typically the mile-line streets such as 7th Ave, 16th St, Camelback Rd, and Union Hills Dr as defined on the Phoenix Street Classification Map.
- Collector streets are typically the half-mile-line streets such as 39th Ave, 28th St, Roeser Rd, and Maryland Ave as defined on the Phoenix Street Classification Map. Local streets are typically the neighborhood streets such as 88th Ln, Dromedary Rd, Holly St, 21st St, and Glenn Dr and are not defined as arterial or collector streets.



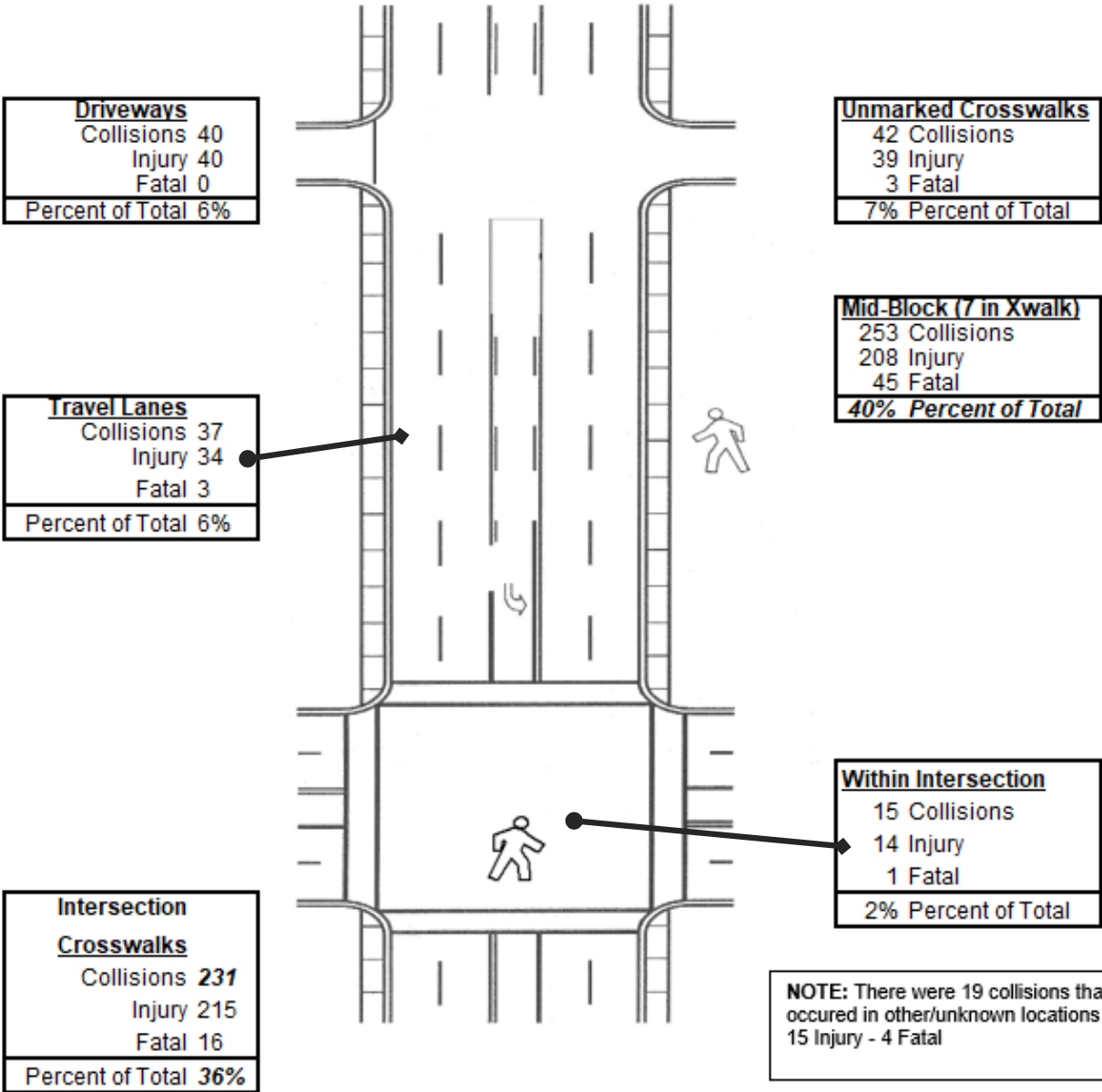
## Pedestrian signals (HAWK) at multiple Grand Canal Crossings

Indian School Rd  
East of 23<sup>rd</sup> Avenue

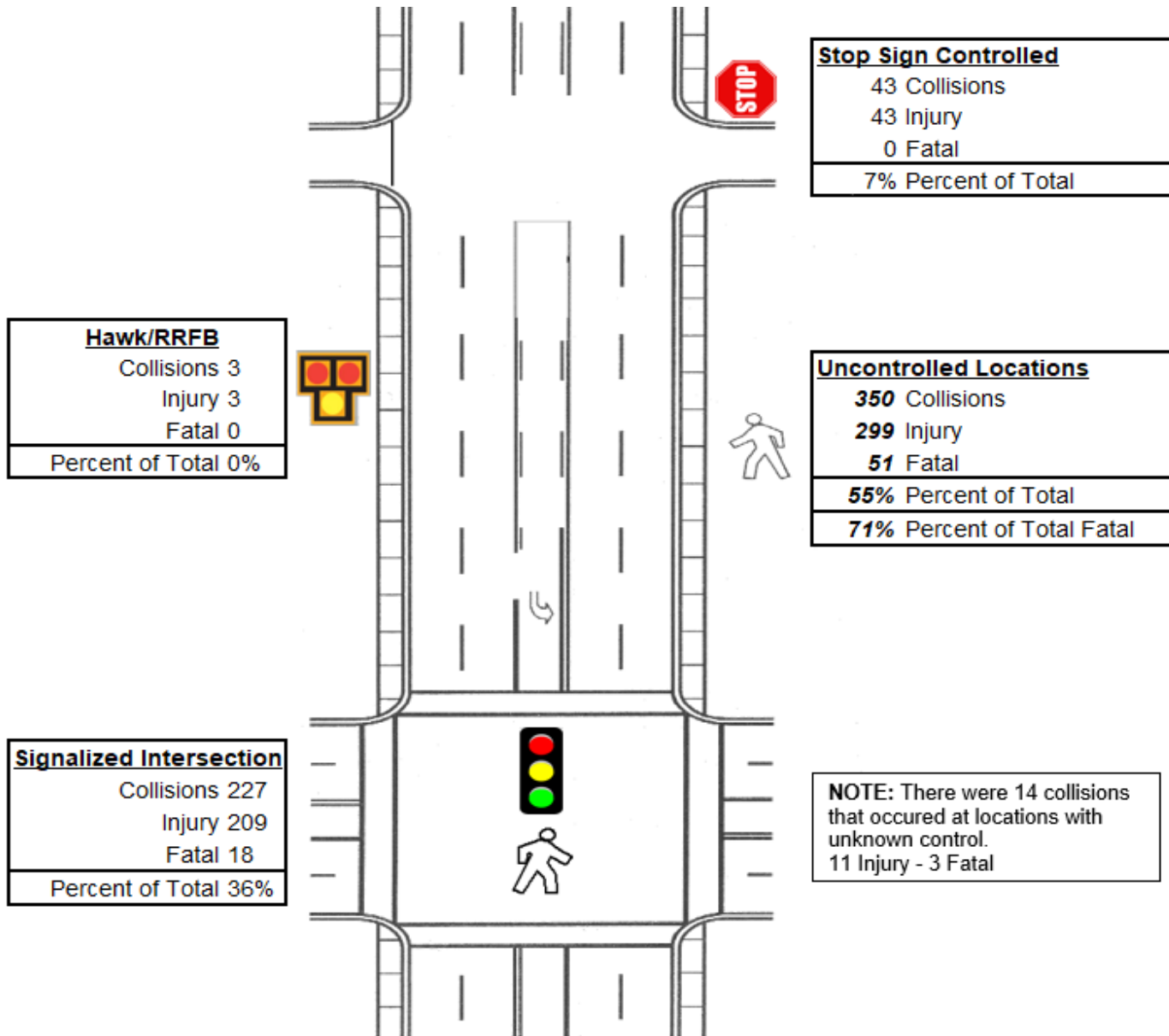


19<sup>th</sup> Ave North of  
Glenrosa Ave

# Pedestrian-Involved Roadway Collisions

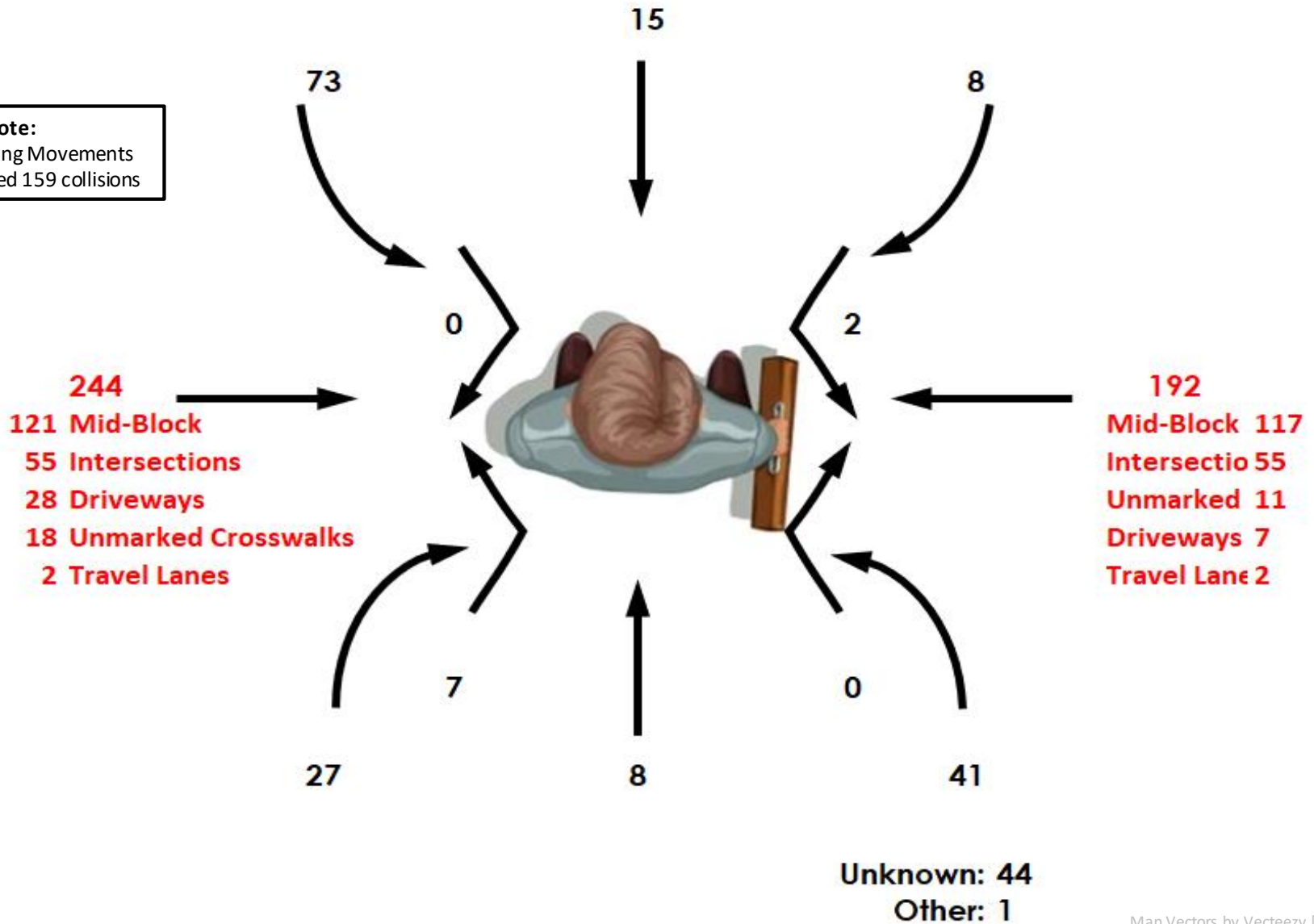


# Pedestrian-Involved Collisions and Traffic Control



# Direction of the Vehicle Impact with Pedestrian

**Keynote:**  
Turning Movements  
totalled 159 collisions



Man Vectors by Vecteezy [vecteezy.com]

# Walk to School Day Events

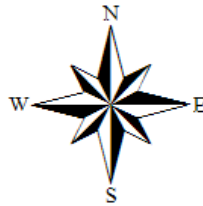




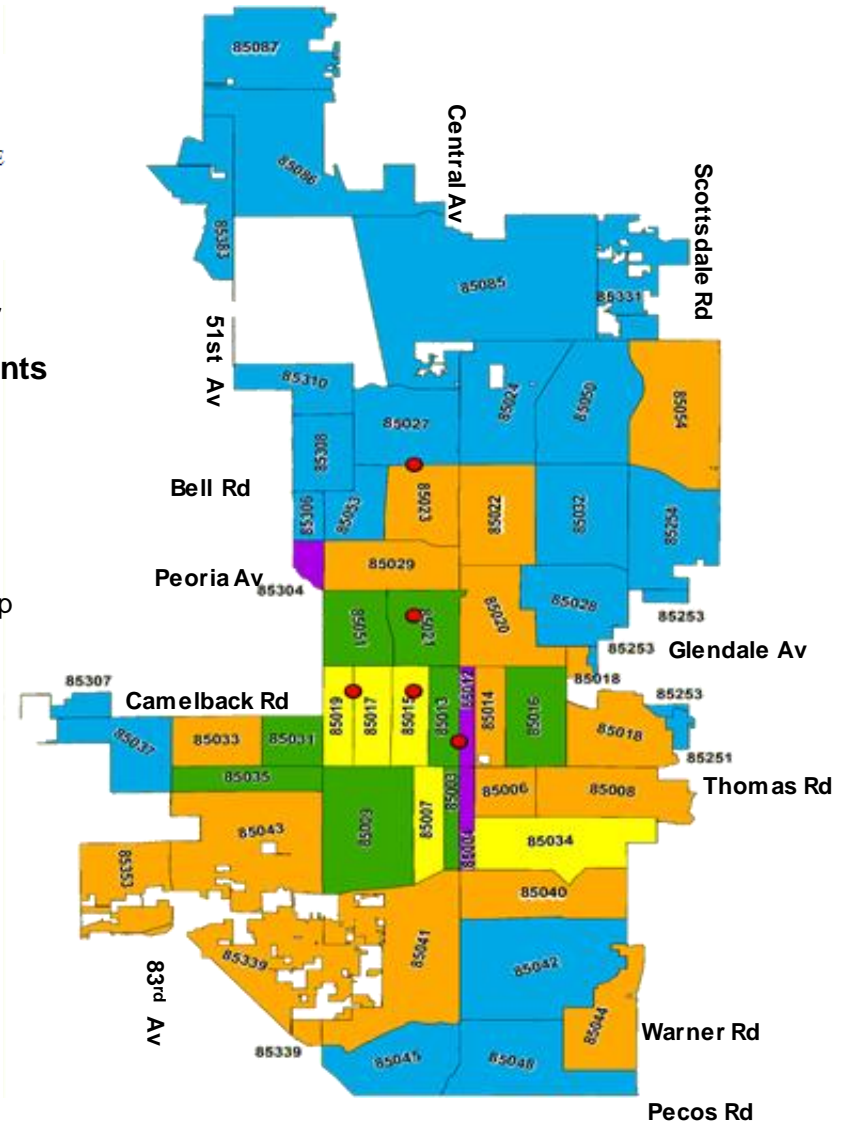
# Pedestrian-Involved Collisions by Zip Code of Collisions Location and High Pedestrian-Involved Collision Intersections

| Intersection                  | Count |
|-------------------------------|-------|
| 35th Av & Bethany Home Rd     | 5     |
| Central Av & Indian School Rd | 4     |
| 19th Av & Bethany Home Rd     | 4     |
| 19th Av & Union Hills Dr      | 3     |
| 19th Av & Dunlap Av           | 3     |

(Collisions Within 150 feet of the intersection)



## Collisions Per 10,000 Residents



# Acknowledgements

The 2019 Phoenix Pedestrian Collision Summary documents the collisions involving pedestrians in the City of Phoenix throughout the 2019 calendar year. Collision data utilized for this report were acquired through Phoenix Police records and the database maintained by the Arizona Department of Transportation (ADOT) known as Safety Data Mart (SDM). The 2019 Phoenix Pedestrian Collision Summary was prepared by Traffic Safety Section staff Jacob Martinez (Senior Engineering Technician).

The SDM database includes motor vehicle collisions involving pedestrians that occurred on public right of way where someone was injured or killed or where property damage exceeded \$1,000.

Cover photograph: The cover photograph is the community turn-on event for the City of Phoenix's 50th High-Intensity Activated crossWalk beacon (HAWK) at North 20th Street and the Grand Canal.

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**

