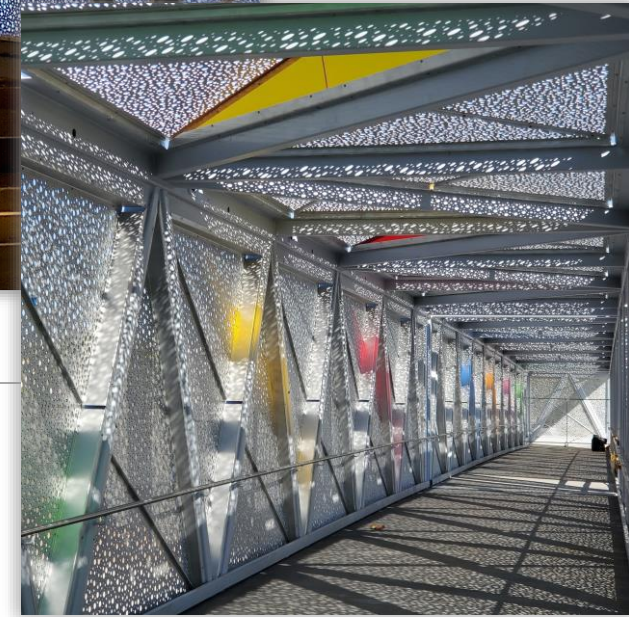


2020 Pedestrian Related Collision Summary



TRAFFIC SERVICES DIVISION
FEBRUARY 2022

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Cover photo of the Elwood Pedestrian Bridge at South Mountain Loop 202 courtesy of Craig Smith and the Phoenix Office of Arts & Culture.

Introduction

The 2020 Collision Summary provides a brief analysis of pedestrian collision statistics related to demographics, accident types, and locations. The report also includes collision data from 2016 through 2020 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 2020 Pedestrian collision summary includes a reported 560 pedestrian related collisions involving 574 pedestrians, which resulted in 508 pedestrian injuries and 65 pedestrian fatalities. These pedestrian related collisions accounted for 2 percent of all collisions, 6 percent of all injuries, and 35 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 five years. Consistent with previous years, male pedestrians were involved in more collisions at a male to female ratio of 1.8:1. 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 (61 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 and the development of education 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 related collisions.

NOTE: Some figures in the 2020 Pedestrian Related Collision Summary may differ from 2020 Traffic Collision Summary due to the detailed analysis of crash reports.

2020 Phoenix Pedestrian Related Collision Facts-at-a-Glance

Pedestrian related collisions continued to decrease for the third time in 5 years.

Most pedestrian related collisions involve risky behaviors by pedestrians.

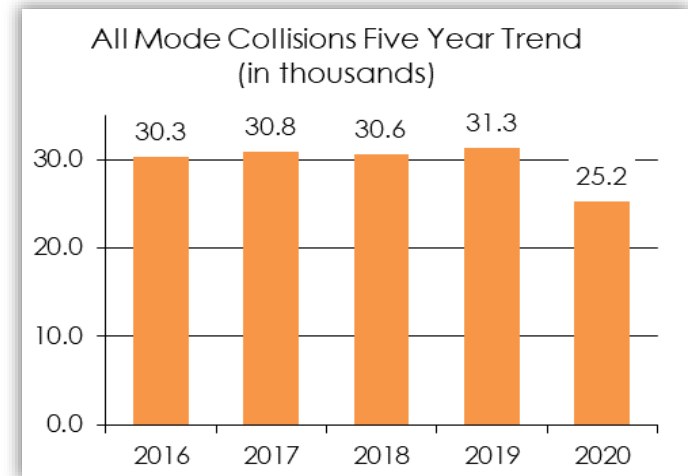
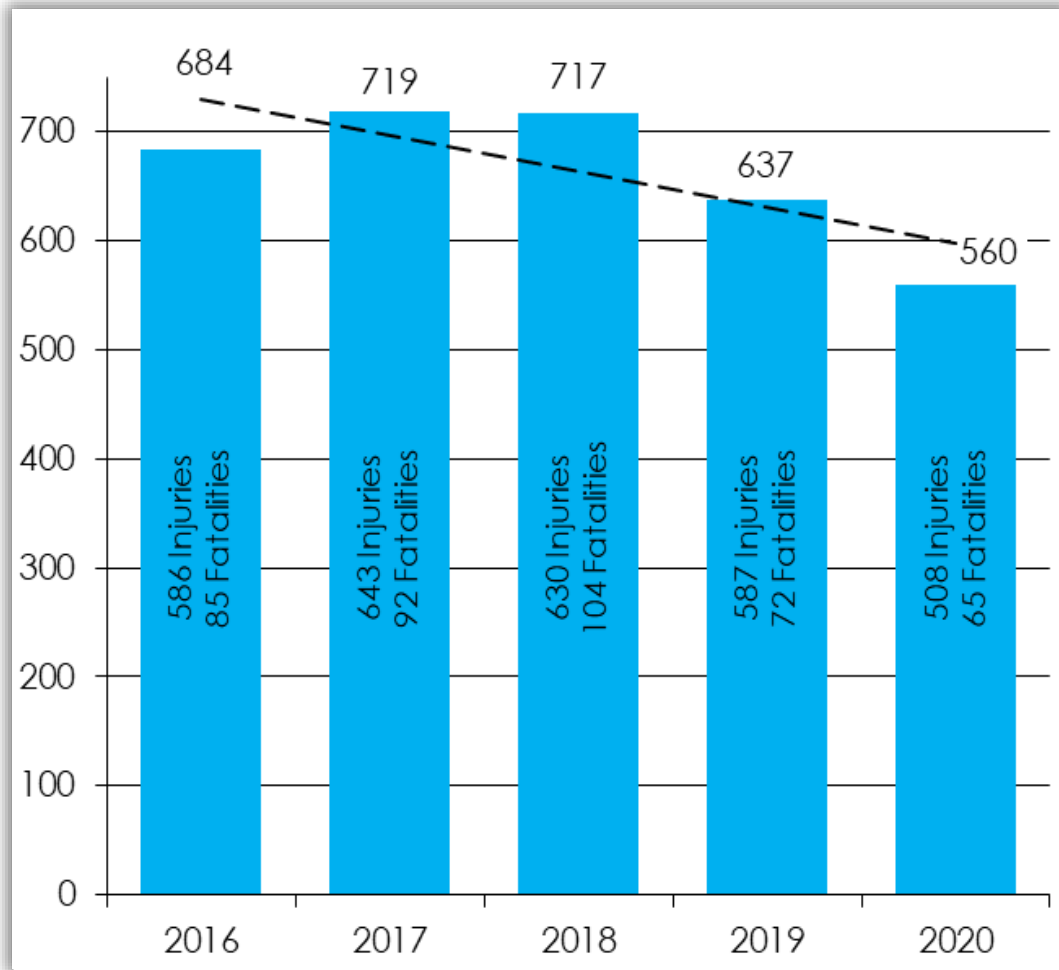
More pedestrians are struck at mid-block crossings than other locations.

There is practically no chance of a pedestrian to come out of a collision un-injured.

In 2020,

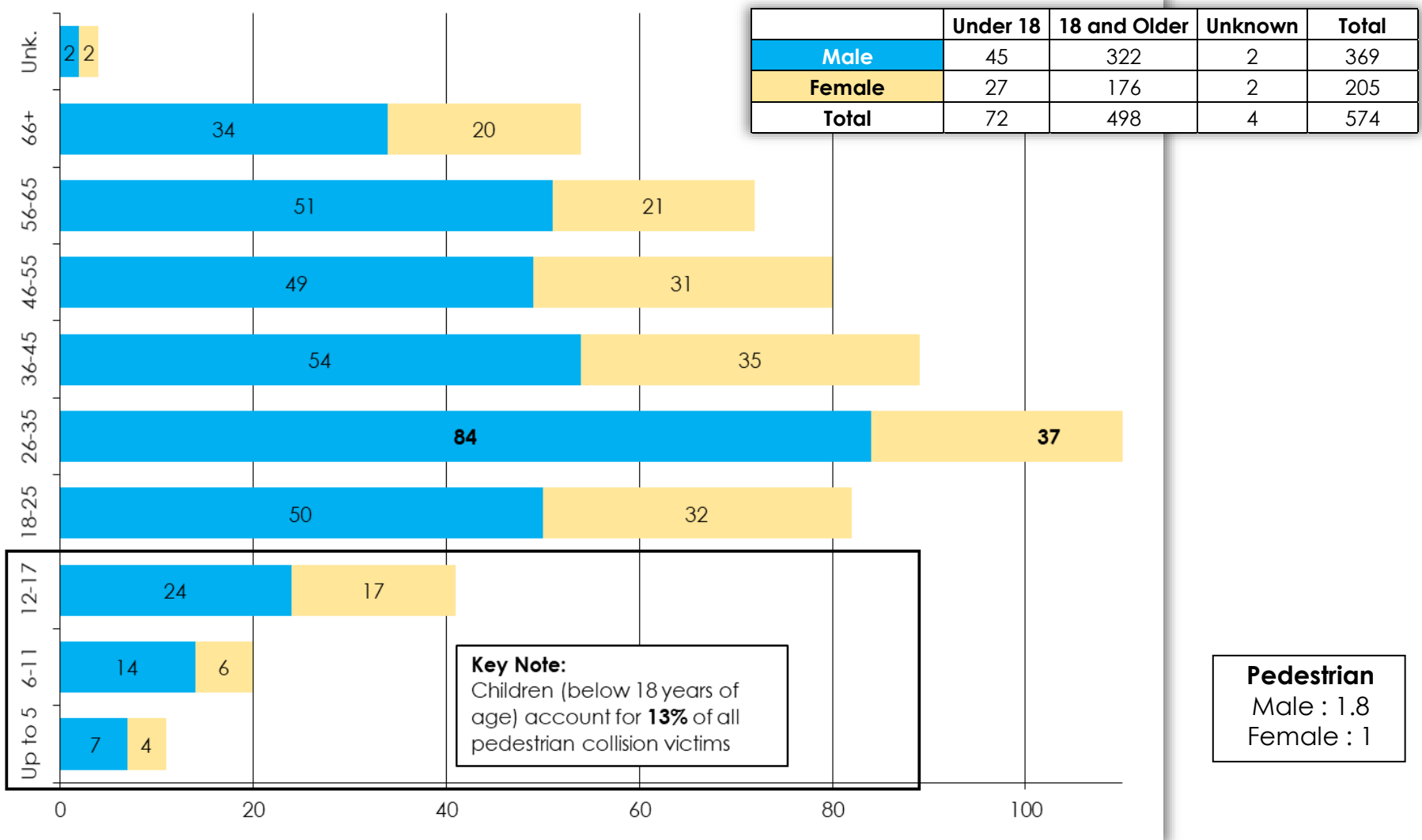
- Pedestrian related collisions accounted for 2% of all collisions and 35% of all fatalities on city streets.
- There was a 10% decrease in pedestrian fatalities compared to 2019.
- 22 school-age pedestrians (5 to 17 years old) were hit during school hours (Monday – Friday, 7 AM – 4 PM).
- 57% of all pedestrian related collisions and 85% of fatal pedestrian related collisions occurred during dark hours.
- Pedestrian related collisions occurred most frequently between 6 PM and 9 PM.
- Wednesday had the highest percentage of all pedestrian related collisions at 17%.
- January had the highest number of pedestrian related collisions with a total of 77 and November had the highest number of pedestrian fatalities with a total of 11.
- There were 54 pedestrian related collisions involving alcohol or drugs. Of those 43 involved a pedestrian under the influence, 10 involved a motorist under the influence and in 1 both pedestrian and motorist were under the influence.
- 32% of all pedestrian related collisions occurred at traffic signal-controlled intersections.
- 55% of pedestrian related collisions were due to improper behavior by only the pedestrians.
- 25% of pedestrian related collisions involved a reported hit and run driver.

Five-Year Trend of Pedestrian Related Collisions, Injuries, and Fatalities

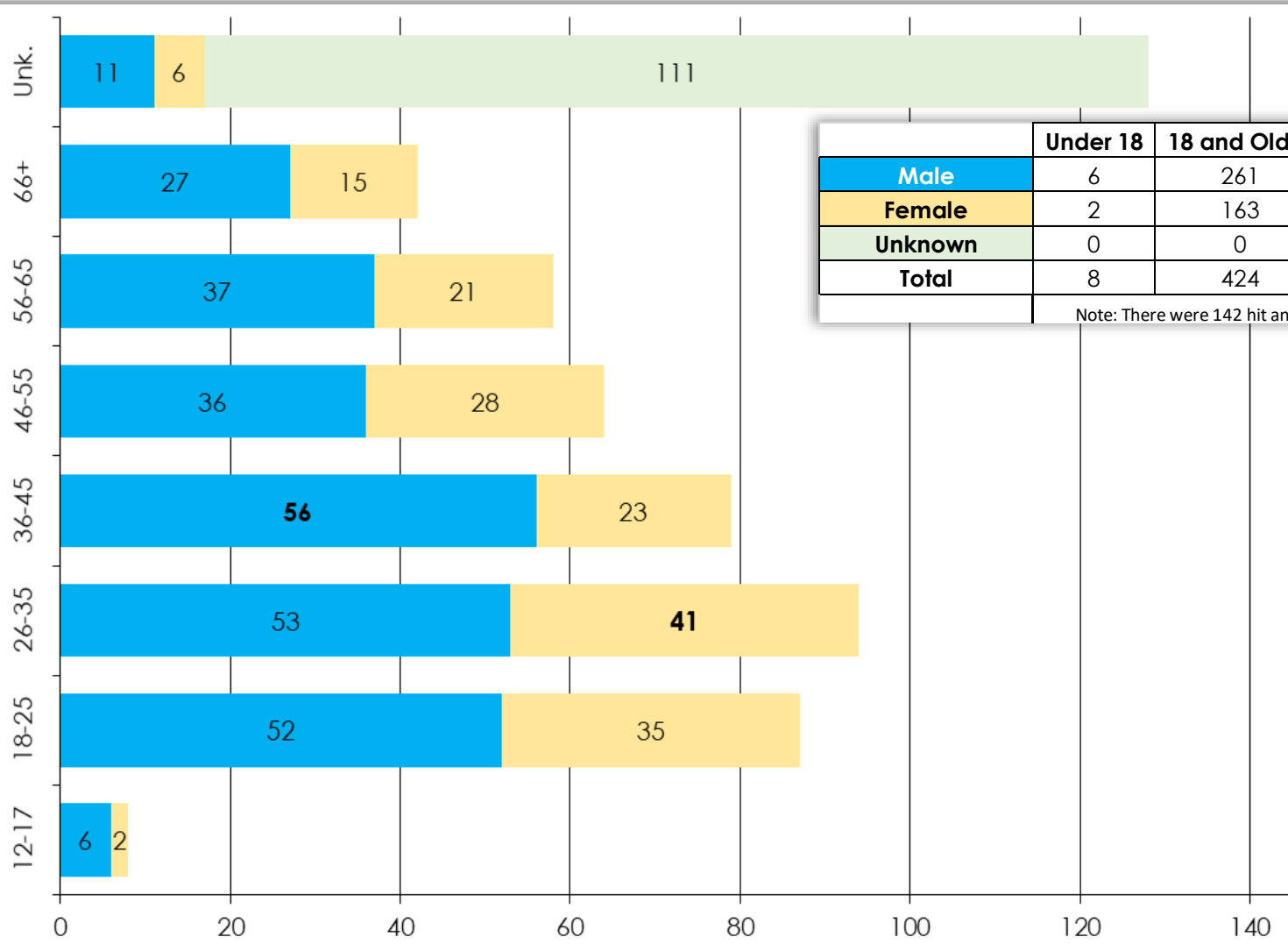


Key Note:
The 10-year average is 596 collisions.

Age and Gender of Pedestrians



Age and Gender of Drivers



	Under 18	18 and Older	Unknown	Total
Male	6	261	11	278
Female	2	163	6	171
Unknown	0	0	111	111
Total	8	424	128	560

Note: There were 142 hit and run collisions

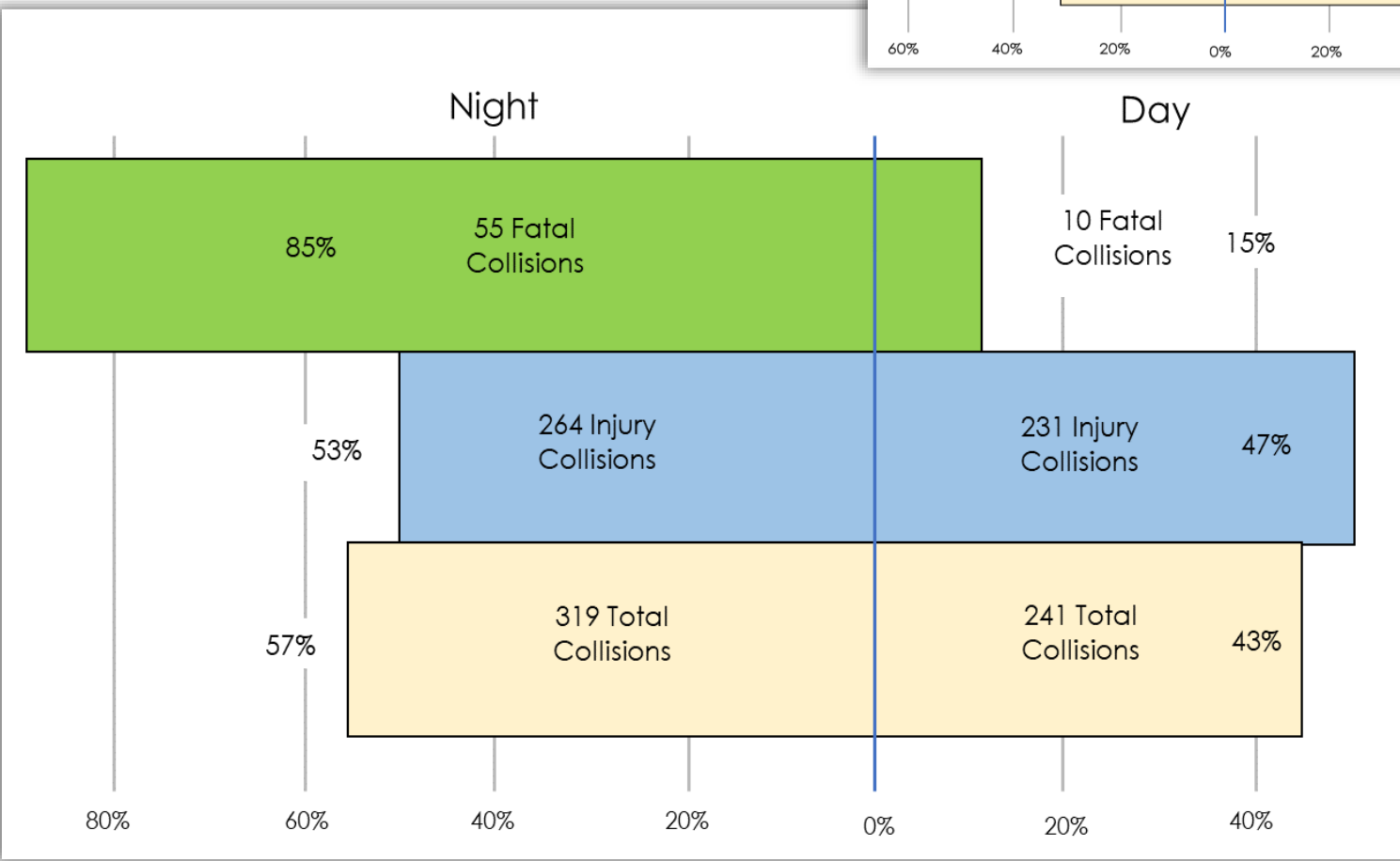
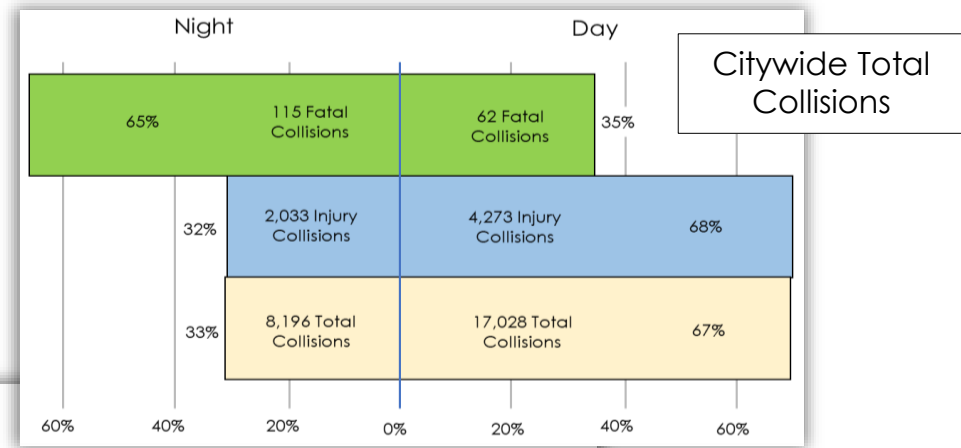
Driver
 Male : 1.6
 Female : 1

NOTE: Unknown driver gender typically involves an unknown driver that fled the scene without stopping to render aid.



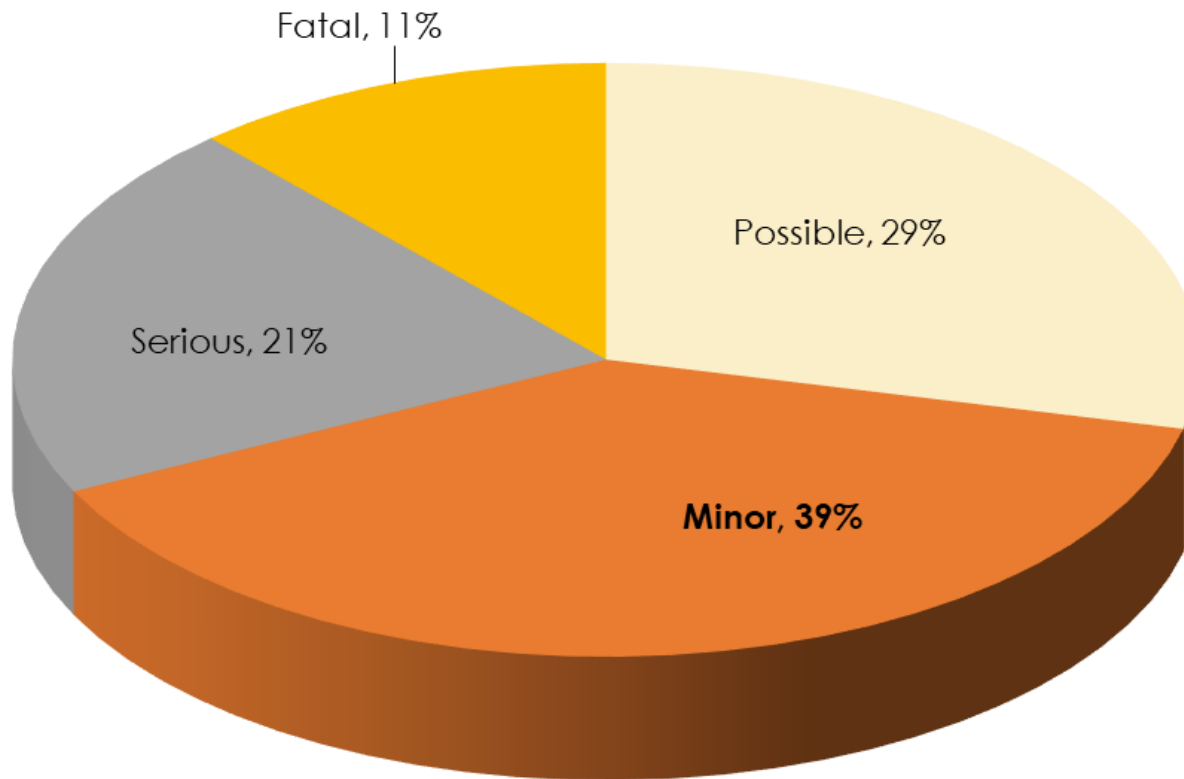
Traffic Signal at North 1st and East Taylor Streets features a “pedestrian scramble” allowing all pedestrian movements to proceed simultaneously.

Collisions by Light Conditions



Keynote:
Pedestrians are the highest percentages for night collisions

Collisions by Injury Severity



Key Note:

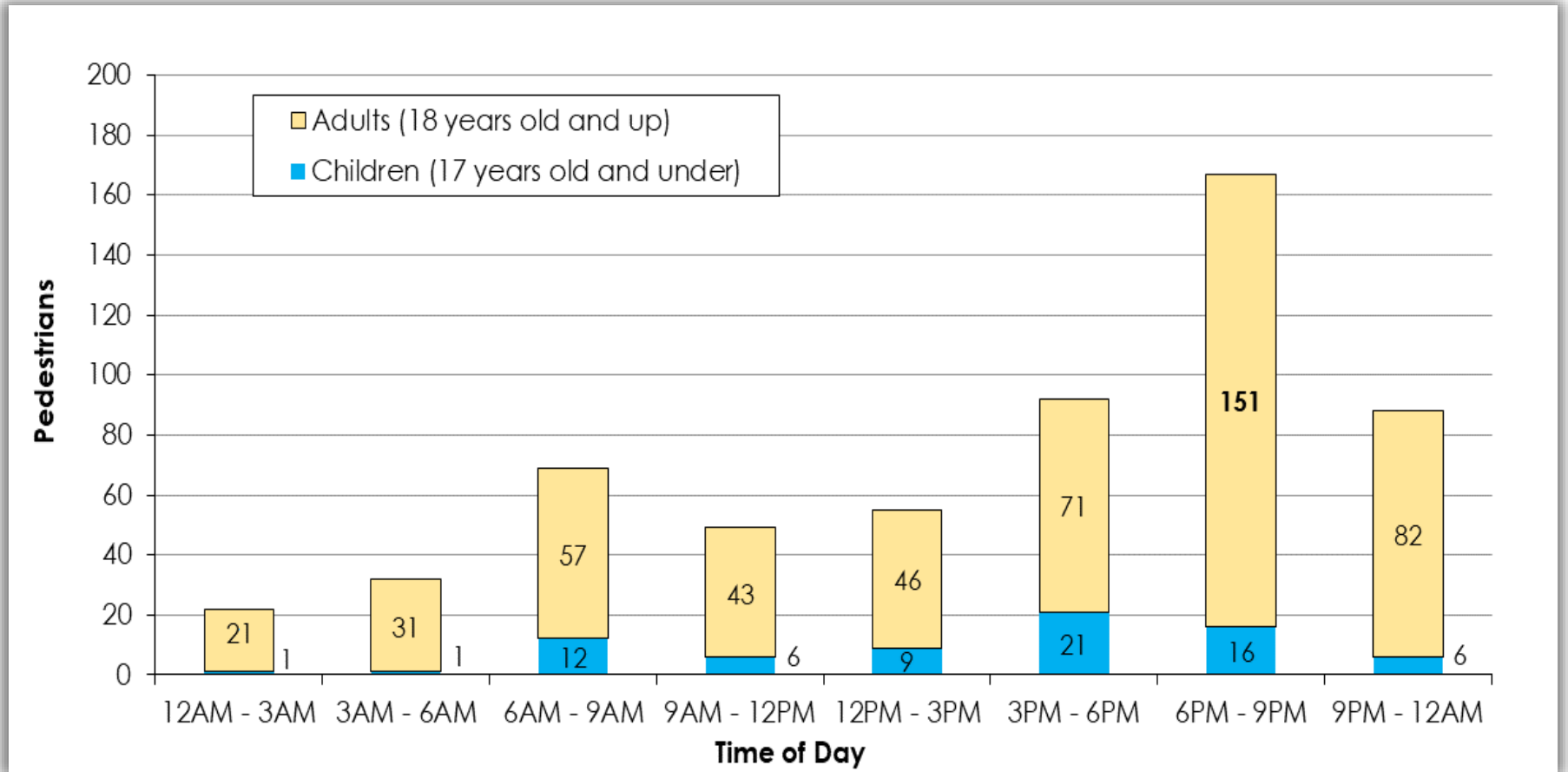
There were 116 serious injury collisions and 65 fatal collisions, accounting for 32% of all pedestrian related collisions.

Pedestrian Signals (HAWK) at Various Grand Canal Crossings

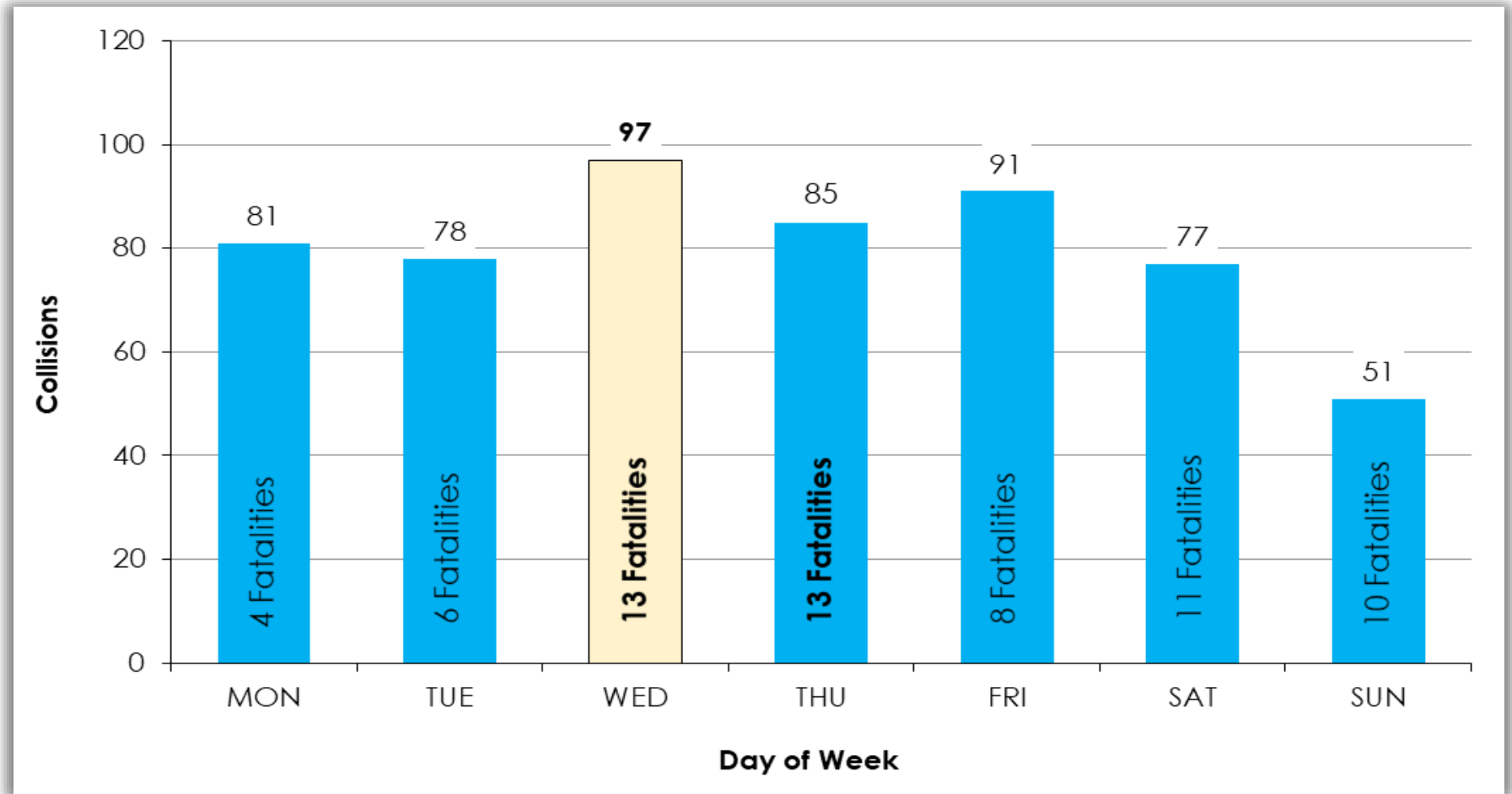


Pedestrians in Collisions by Time of Day and Age Group

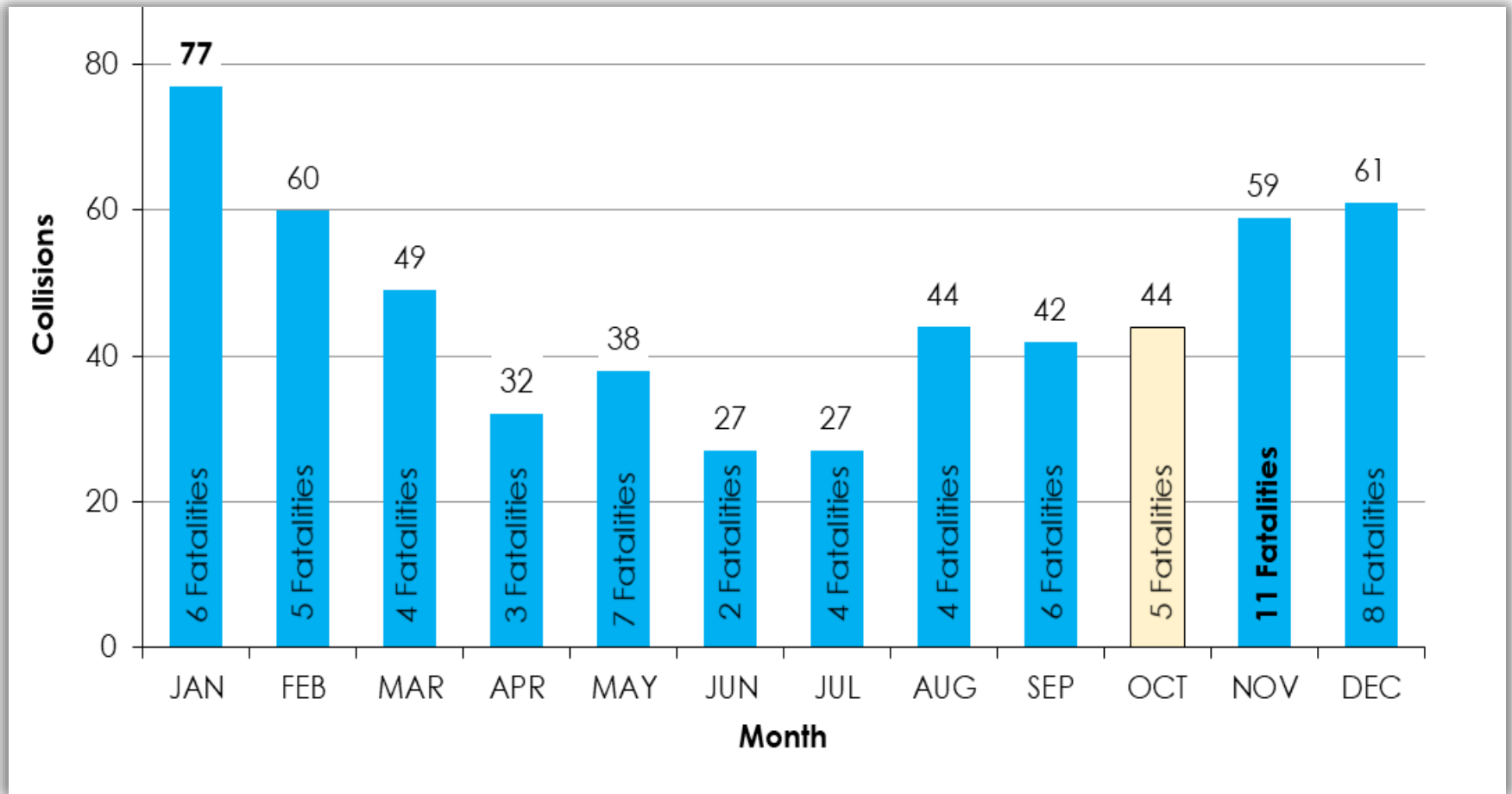
Key Note:
Between 7 PM and 10 PM there were a total of 23 pedestrian fatalities, or 35% of all pedestrian fatalities



Collisions by Day of Week



Collisions by Month

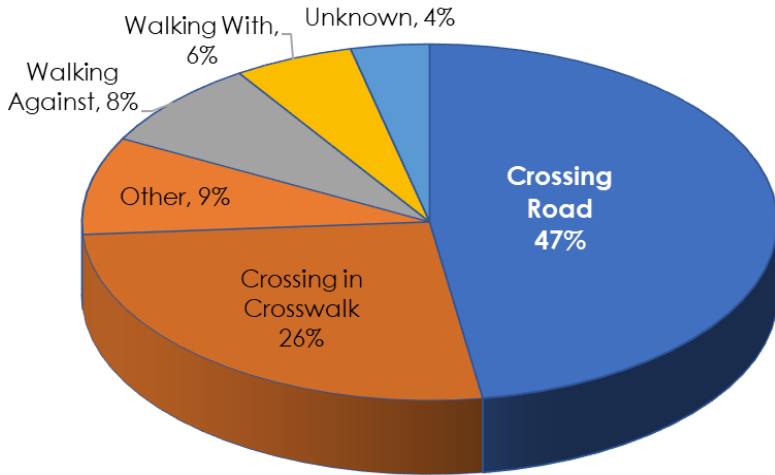




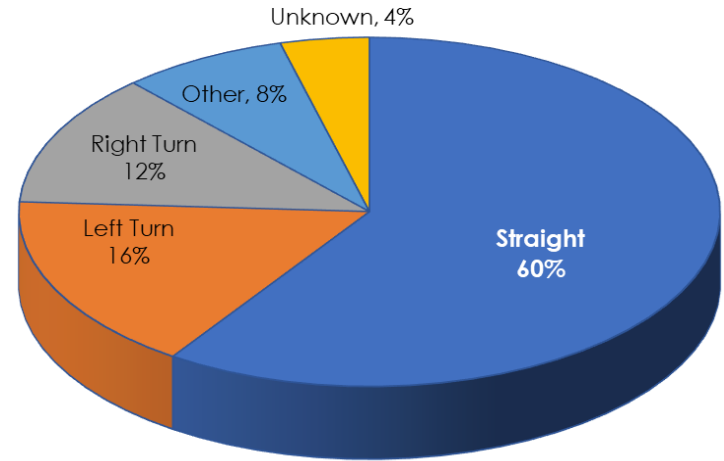
Pedestrian Flashing Beacon (PFB)
North Fillmore Street and 6th Street

Actions

Pedestrian Action

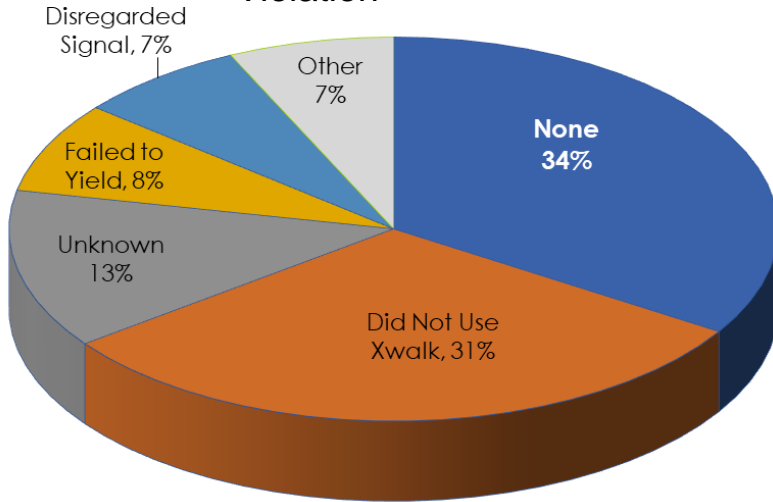


Driver Action

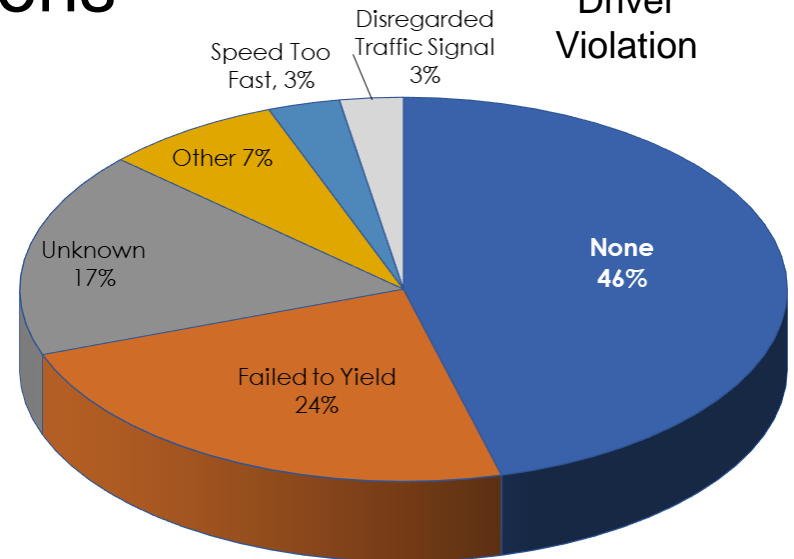


Violations

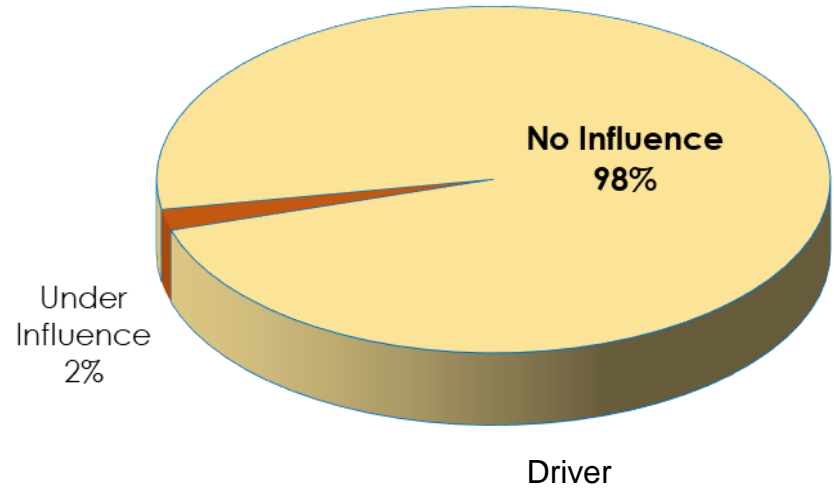
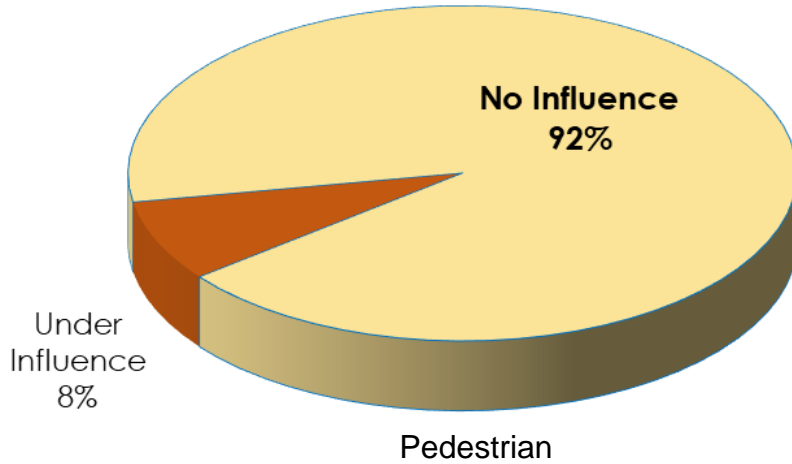
Pedestrian Violation



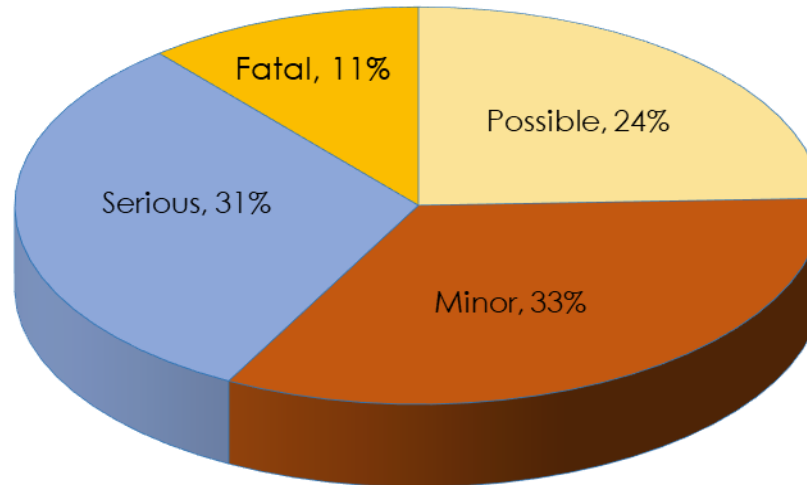
Driver Violation



Impairment of Pedestrians and Drivers



Injury Severity of Impaired Pedestrians

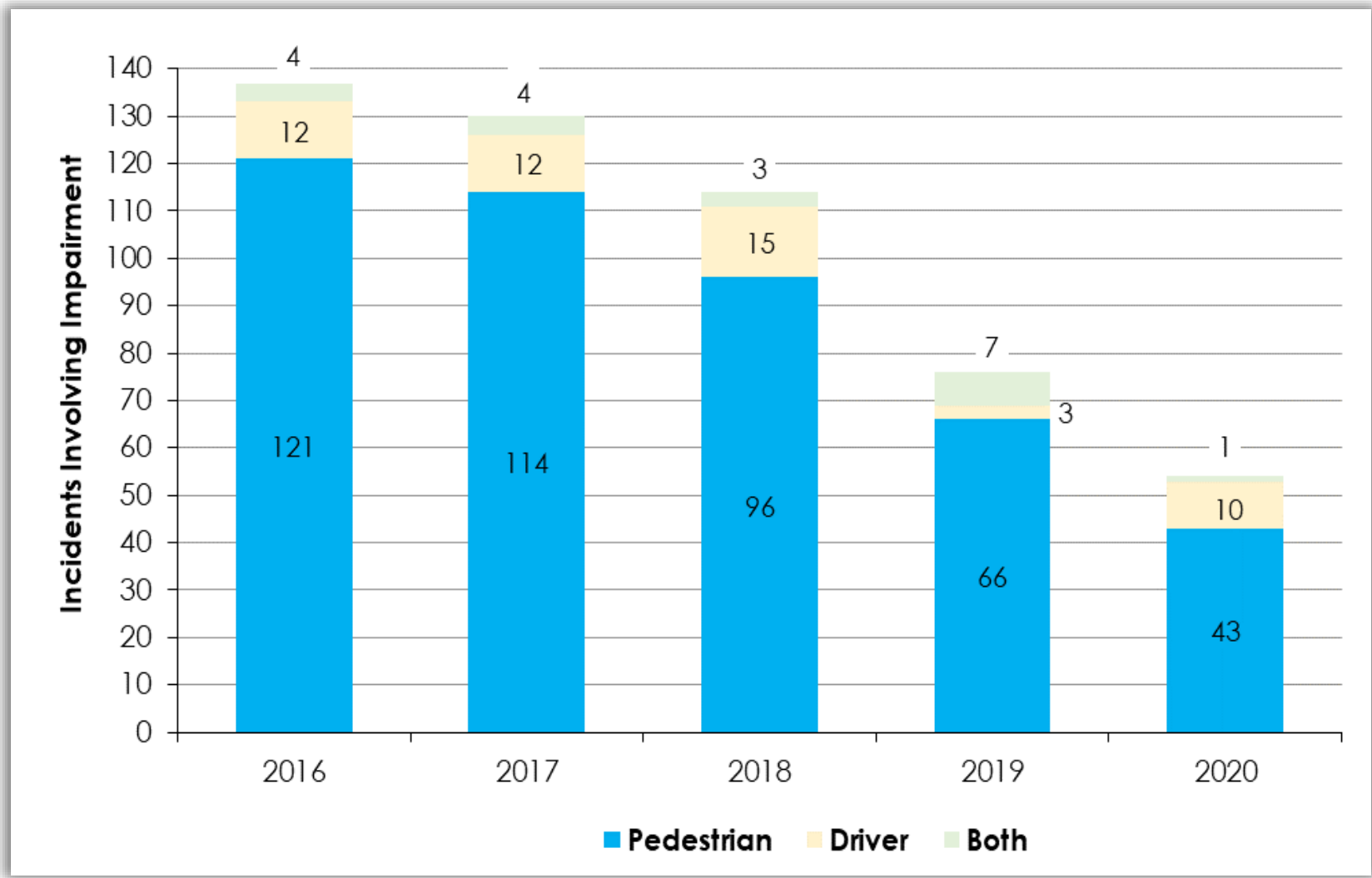


Intoxicated Pedestrians
Male: 3
Female: 1

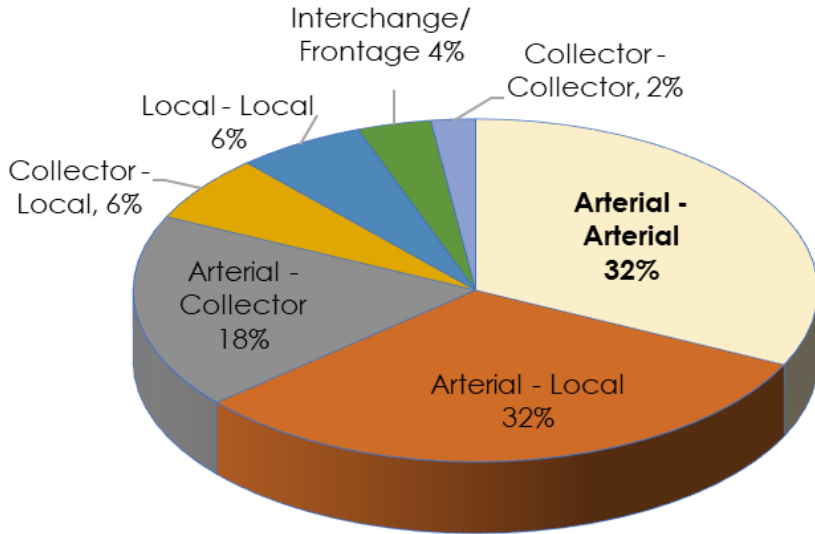
Key Note:

Fatal (5) and seriously injured (14) pedestrians combined for 42% of all (45) pedestrians under the influence of drugs or alcohol.

Five-Year Trend of Drug or Alcohol Use



Collisions by Street Classification



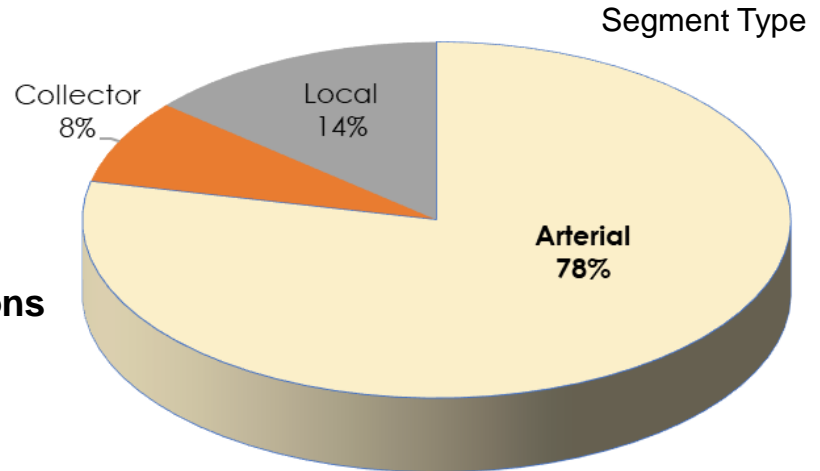
Intersection Type

Intersection Related
77%
of all pedestrian related collisions

At or Near Intersection
 (within 150 feet from intersection)

Non-Intersection Related
23%
of all pedestrian related collisions

Away from Intersection
 (more than 150 feet from intersection)



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.



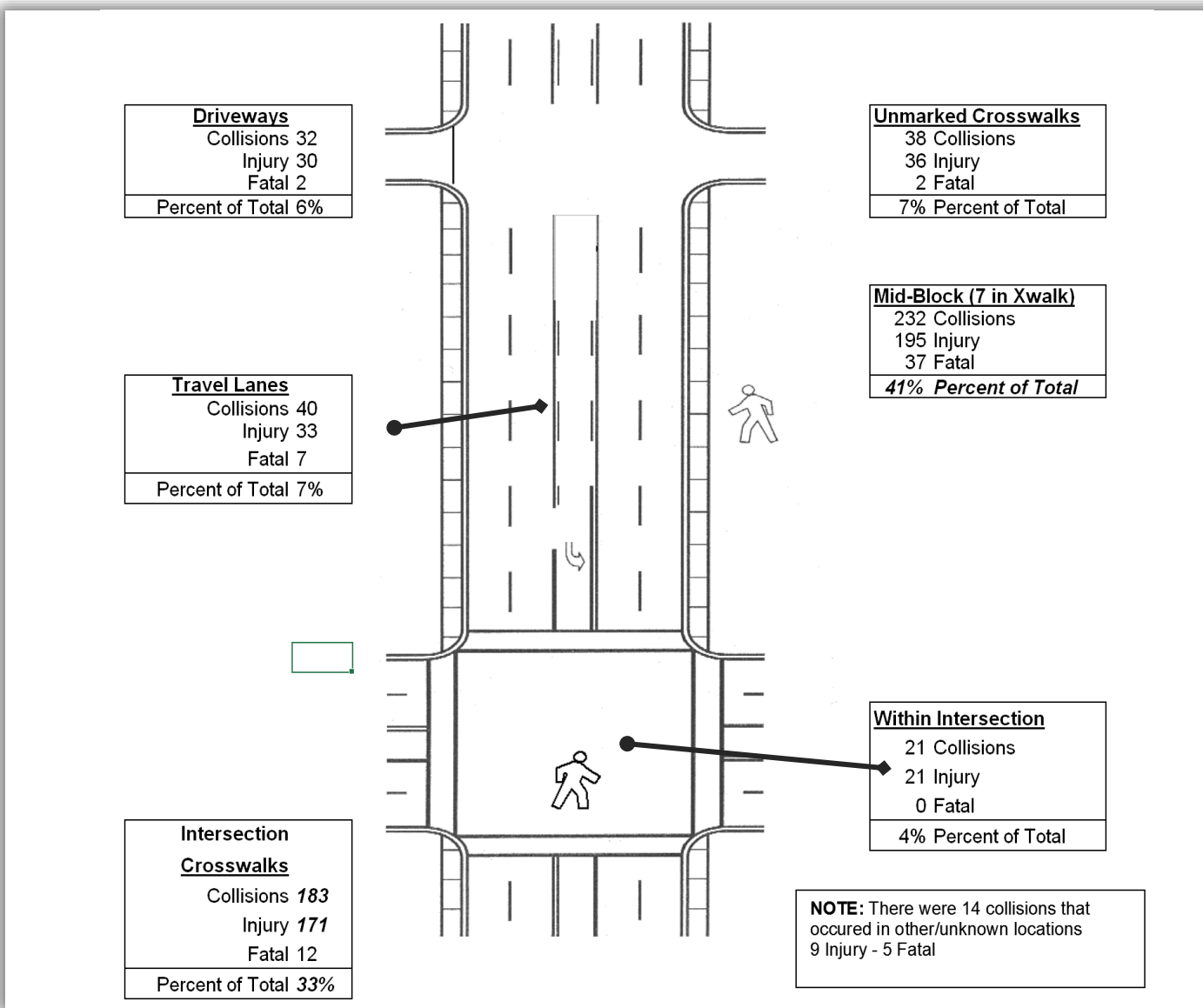
Pedestrian Signals (HAWK) at Various Grand Canal Crossings

Indian School Rd
East of 23rd Avenue

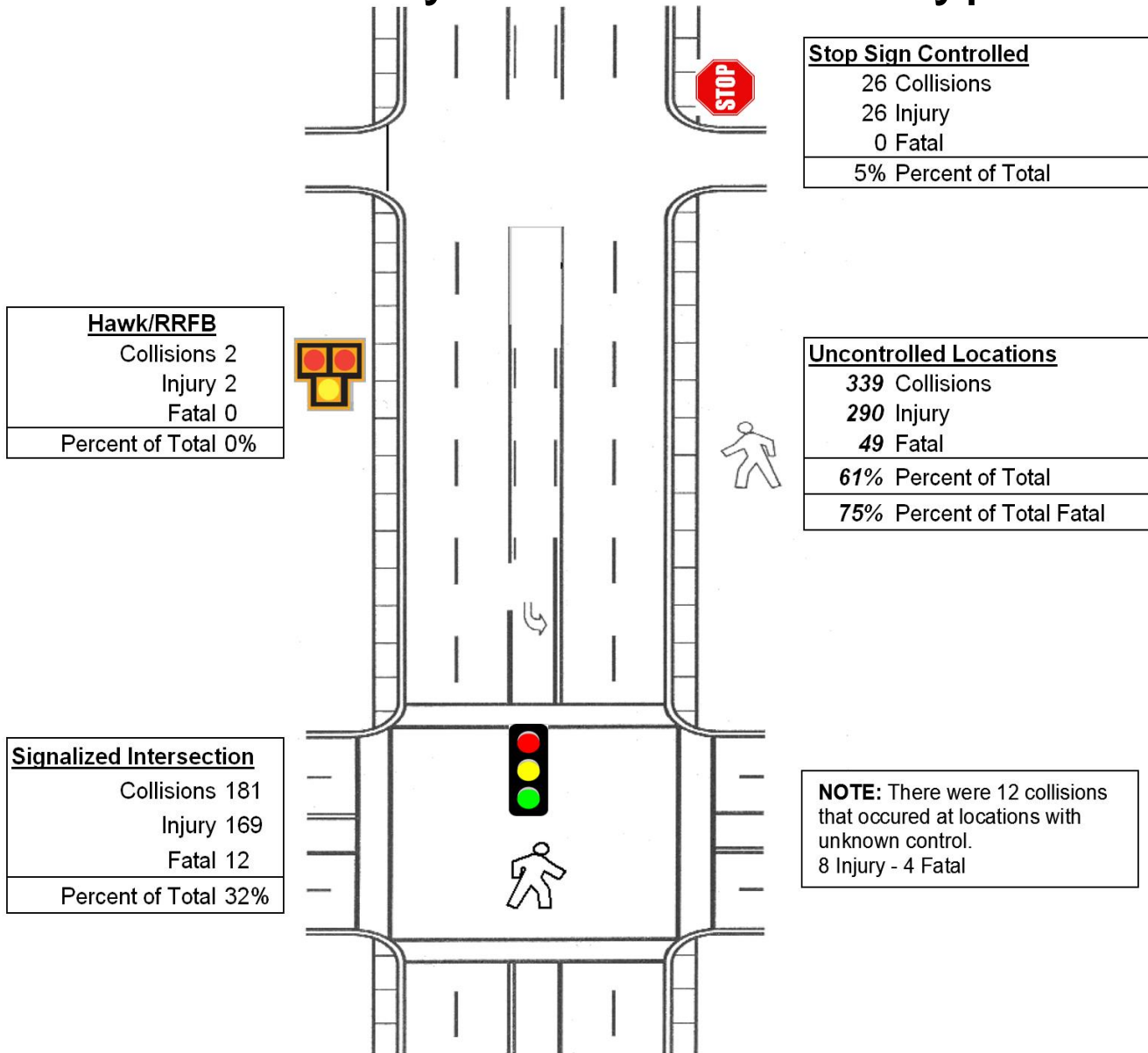


19th Ave North of
Glenrosa Ave

Collisions by Location Type

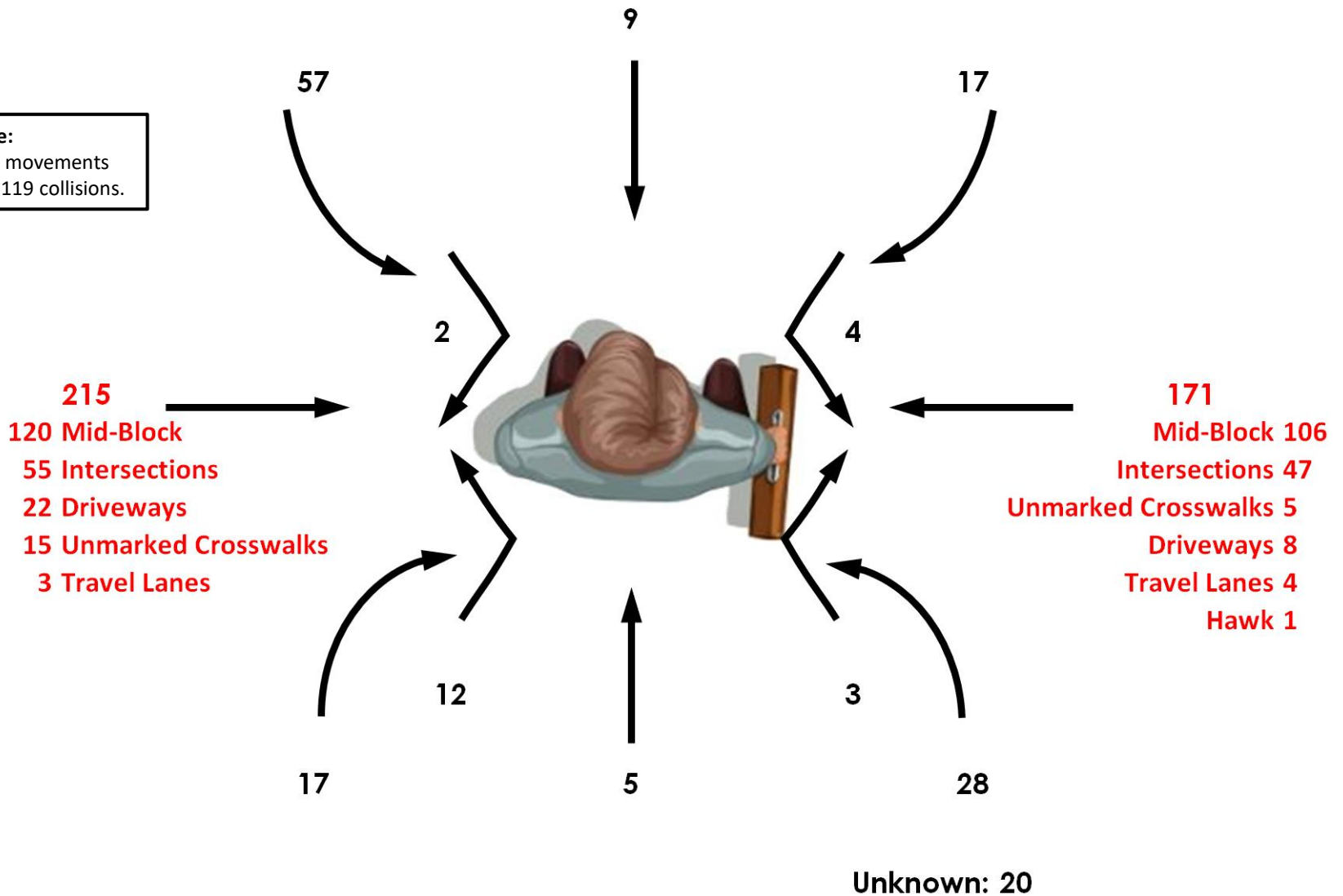


Collisions by Traffic Control Type



Vehicle Movement Prior to Impact

Keynote:
Turning movements
totaled 119 collisions.



Man Vectors by Vecteezy [vecteezy.com]

Walk to School Day Events

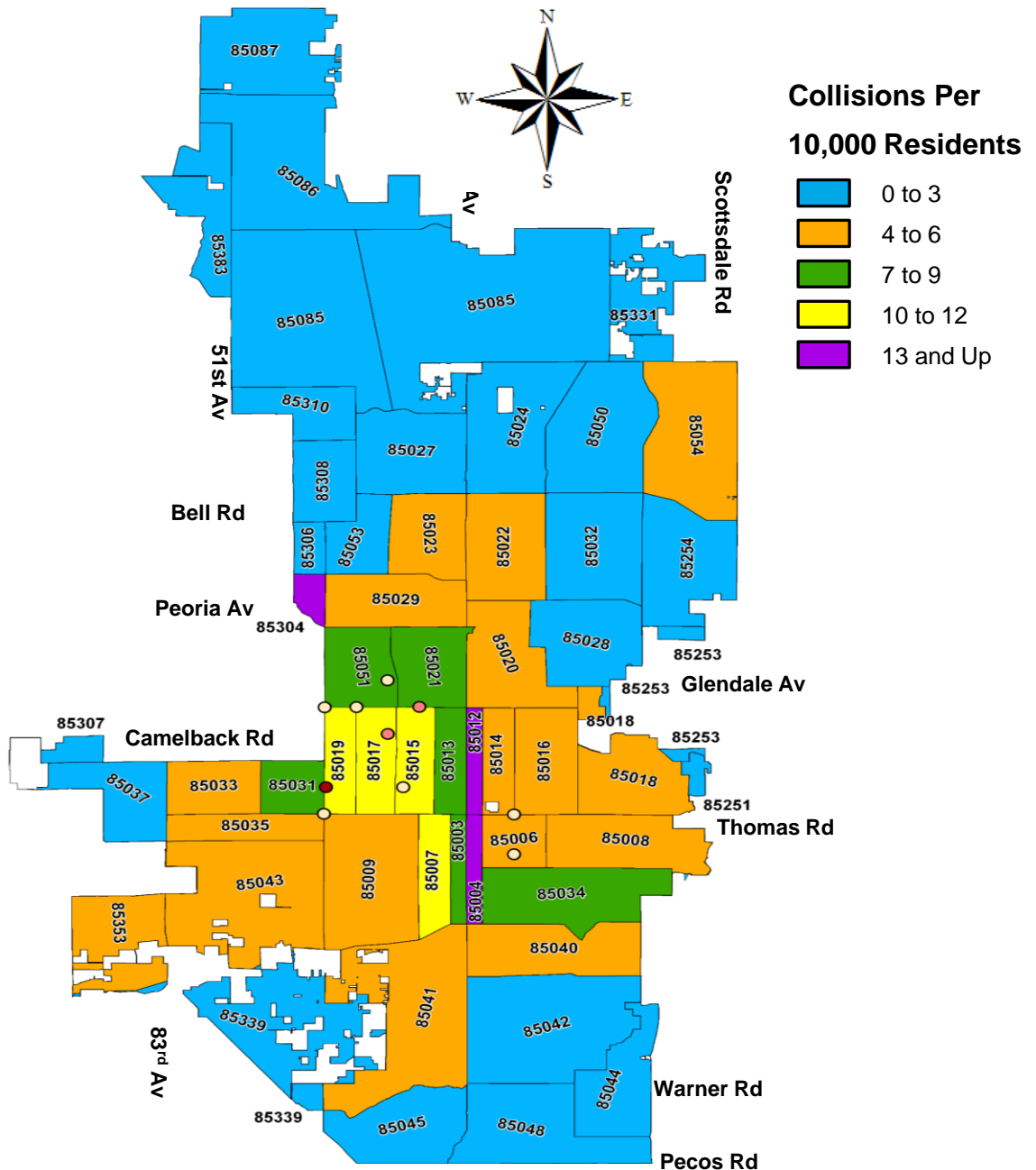


Collisions by Location Zip Code

Top Intersections

Intersection	Count
43rd Av & Indian School Rd	5
27th Av & Bethany Home Rd	4
19th Av & Glendale Av	4
35th Av & Glendale Av	3
27th Av & Northern Av	3
23rd Av & Indian School Rd	3
43rd Av & Glendale Av	3
43rd Av & Thomas Rd	3
16th St & Roosevelt St	3
16th St & Thomas Rd	3

(Collisions Within 150 feet of the intersection)



Acknowledgements

The 2020 Phoenix Pedestrian Related Collision Summary documents the collisions involving pedestrians in the City of Phoenix throughout the 2020 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 2020 Phoenix Pedestrian Related 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 \$2,000.

Cover photo of the Elwood Pedestrian Bridge at South Mountain Loop 202 courtesy of Craig Smith and the Phoenix Office of Arts & Culture.

Some pictures of the roadway facilities are screen captures from Google Street-View, all other photographs used 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**

