2015 Pedestrian Collision Summary
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Introduction

The 2015 Collision Summary provides a brief analysis of pedestrian collision statistics related to demographics, accident types, and locations. The report also includes collision data from 2011 through 2015 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 2015 Pedestrian collision summary includes a reported 577 pedestrian-related collisions resulting in 502 pedestrian injuries and 56 pedestrian fatalities. These pedestrian-related collisions accounted for 2 percent of all collisions, 4 percent of all injuries, and 32 percent of all fatalities occurring on City Streets. Statistics show the number of pedestrian-related collisions is down (1 percent) as compared to the 2014 collisions but the 5-year trend is increasing. Consistent with previous years, male pedestrians were involved in more collisions at a male to female ratio of 1.7:1. Also, the age group with the highest number of pedestrian-related collisions were males between the ages of 26 and 35. The majority (56 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 2015 Pedestrian Collision Summary differ from 2015 Traffic Collision Summary due to the detailed analysis of crash reports.
2015 Phoenix Pedestrian Collision Facts-at-a-Glance

Important Points to Know About the Pedestrian Collision Summary in 2015:

- Pedestrian collisions are on a five year increasing trend.
- The majority of pedestrian collisions involve risky behaviors by pedestrians.
- More pedestrians are struck at mid-block crossings than other locations.
- A large majority of fatal pedestrian collisions occur at night.
- There is a very small chance for a pedestrian to come out of a collision un-injured.

In 2015,

- Pedestrian collisions accounted for 2% of all collisions, but 32% of all fatal collisions on city streets.
- 56 school-age pedestrians (5 to 17 years old) were hit during school hours (Monday – Friday, 7 AM – 4 PM).
- 47% of all pedestrians were struck at night/twilight, but 87% of all pedestrian fatalities occurred at night/twilight.
- Pedestrian collisions occurred most frequently between 6 PM and 9 PM.
- Friday had the highest percentage (9%) of all pedestrian collisions.
- There were 100 pedestrian-related collisions involving alcohol or drugs, a 11% increase from 2014; of those, 84 involved a pedestrian under the influence, 10 involved a motorist under the influence, and in 6 both pedestrian and motorist were under the influence. (These statistics exclude any hit and run motorists who may also have been under the influence.)
- 35% of all pedestrian collisions occurred at traffic signal controlled intersections.
- November had the highest number of pedestrian crashes at a total of 75.
- June had the highest number of fatalities at a total of 11.
- 49% of pedestrian related collisions were due to violations by only the pedestrians.
- 18% 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 545 collisions.
Age and Gender of Pedestrians in Collisions

Pedestrians
Male: Female
1.7:1

Children below 18 years of age account for 23% of all pedestrian crash victims.
Age and Gender of Drivers in Collisions

Note: There were 104 hit and runs.
HAWK Signal at North Central Avenue and East Taylor Street
Pedestrian-Related Collisions by Light Conditions

Citywide All Collisions

Key Note: Pedestrians are the highest percentages for night collisions.
Pedestrians-Involved Collisions by Injury Severity

Key Note:
Serious/Fatal Collisions combined at 174 for 30% of all Pedestrian collisions.

- Minor, 40%
- Possible, 25%
- Serious, 20%
- Fatal, 10%
- None, 5%
Pedestrians in Collisions by Time of Day and Age Group

Key Note: Between 6 PM and 9 PM there were a total of 23 pedestrian fatalities, or 41% of all pedestrian fatalities.
Pedestrian-Involved Collisions by Day of Week

- Monday: 79 collisions, 6 fatalities
- Tuesday: 82 collisions, 4 fatalities
- Wednesday: 91 collisions, 5 fatalities
- Thursday: 96 collisions, 10 fatalities
- Friday: 111 collisions, 13 fatalities
- Saturday: 71 collisions, 11 fatalities
- Sunday: 47 collisions, 7 fatalities
HAWK Signal Crossing near Metro Tech High School at North 22nd Drive and West Thomas Road
Actions of Pedestrians and Drivers

Pedestrians
- Crossing Road, 69%
- Walking Along Roadway, 12%
- Other, 12%
- Unknown, 4%
- Standing, 3%

Drivers
- Straight/Slowing, 58%
- Left Turn, 17%
- Right Turn, 15%
- Other, 4%
- Unknown, 6%

Behavior/Violations of Pedestrians and Drivers

Pedestrians
- None, 39%
- Failed to Yield, 9%
- Disregarded Signal, 5%
- Inattention, 2%
- Other, 6%
- Unknown, 8%

Drivers
- None, 48%
- Failed to Yield, 26%
- Improper Turn, 1%
- Inattention, 3%
- Disregarded Signal, 1%
- Speed Too Fast, 2%
- Other, 4%
- Unknown, 15%
Physical Conditions of Pedestrians and Drivers

Pedestrians

Under Influence: Drugs or Alcohol, 16%

No Influence, 84%

Drivers

Under Influence: Drugs or Alcohol, 3%

No Influence, 97%

Injury Severity of Pedestrians under the Influence

Key Note:
Fatal and seriously injured pedestrian combined for 55% of all Pedestrian under the influence of drugs or alcohol.

Serious, 22%

Fatal, 33%

Minor, 31%

None, 4%

Possible, 10%

Under the Influence
Male:Female
3.3:1
Five Year Trend of Drugs or Alcohol Use In Pedestrian-Involved Collisions

<table>
<thead>
<tr>
<th>Year</th>
<th>Pedestrian</th>
<th>Driver</th>
<th>Both</th>
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</thead>
<tbody>
<tr>
<td>2011</td>
<td>70</td>
<td>14</td>
<td>1</td>
</tr>
<tr>
<td>2012</td>
<td>64</td>
<td>8</td>
<td>1</td>
</tr>
<tr>
<td>2013</td>
<td>80</td>
<td>6</td>
<td>9</td>
</tr>
<tr>
<td>2014</td>
<td>77</td>
<td>8</td>
<td>5</td>
</tr>
<tr>
<td>2015</td>
<td>84</td>
<td>10</td>
<td>6</td>
</tr>
</tbody>
</table>

Trend Line

Intoxicated Incidents
Pedestrian-Involved Collisions by Street Classification

At or Near Intersection (Within 150 feet)
- Arterial - Local, 32%
- Arterial - Arterial, 28%
- Arterial - Collector, 21%
- Collector - Collector, 3%
- Other - Freeway, 2%
- Local - Local, 8%

Intersection Related 75% of all pedestrian collisions

Away From Intersection (More than 150 feet from intersection)
- Arterial, 78%
- Local, 12%
- Collector, 9%
- Frontage, 1%

Non-Intersection Related 25% 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.

Home 2015 PEDESTRIAN COLLISION SUMMARY 18
Two-Stage Crosswalk at North 7th Street & East Monroe Street
Pedestrian-Involved Roadway Collisions

577 Total Roadway Related Crashes

Driveways
39 Crashes
39 Pedestrians
38 Injuries – 1 Fatality

Unmarked Crosswalks
13 Crashes
13 Pedestrians
12 Injuries – 1 Fatality

Mid-Block (8 in crosswalks)
253 Crashes
259 Pedestrians
204 Injuries – 40 Fatalities

44% of all crashes

Travel Lanes/Within Intersections
50 Crashes
50 Pedestrians
42 injuries - 5 Fatality

Intersection Crosswalks
208 Crashes
210 Pedestrians
194 Injuries – 7 Fatalities
36% of all crashes

NOTE: There were 3 collisions at school zones and 11 collisions at other or unknown locations
14 pedestrians
12 injuries - 2 fatalities.
Pedestrian-Involved Collisions and Traffic Control

School Zones
3 Crashes
3 Pedestrians
3 Injuries – 0 Fatalities

STOP Sign Controlled Locations
47 Crashes
47 Pedestrians
43 Injuries – 1 Fatality

Uncontrolled Locations
321 Crashes
327 Pedestrians
267 Injuries – 45 Fatalities
56% of all crashes

Signalized Locations
199 Crashes
201 Pedestrians
185 Injuries – 7 Fatalities
35% of all crashes

NOTE: There were 7 collisions at locations with unknown traffic control
7 pedestrians
4 injuries - 3 fatalities.
Direction of the Vehicle Impact with Pedestrian

Key Note:
Turning Movements totaled 128 collisions

192
92 – Mid-block
75 – Intersections
20 – Driveways
3 – Other
2 – Unknown

152
Mid-block – 91
Intersections – 51
Driveways – 5
Other – 5

NOTE: There were 62 collisions involving unknown pedestrian or vehicle directions.
2015 PEDESTRIAN COLLISION SUMMARY

Pedestrians Hit Per 10,000 Residents
- Blue: 0 to 1
- Yellow: 2 to 3
- Green: 4 to 5
- Orange: 6 to 7
- Purple: 8 and Up

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

Collisions Per 10,000 Residents
- 0 to 3
- 4 to 6
- 7 to 9
- 10 to 12
- 13 and Up

<table>
<thead>
<tr>
<th>Intersection</th>
<th>Count</th>
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<tbody>
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<td>Central Av &amp; Thomas Rd</td>
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</tr>
<tr>
<td>19th Av &amp; Camelback Rd</td>
<td>3</td>
</tr>
<tr>
<td>20th Dr &amp; Thomas Rd</td>
<td>3</td>
</tr>
<tr>
<td>24th St &amp; Van Buren St</td>
<td>3</td>
</tr>
<tr>
<td>32nd St &amp; Thomas Rd</td>
<td>3</td>
</tr>
<tr>
<td>35th Av &amp; Bell Rd</td>
<td>3</td>
</tr>
<tr>
<td>75th Av &amp; Thomas Rd</td>
<td>3</td>
</tr>
<tr>
<td>7th Av &amp; Indian School Rd</td>
<td>3</td>
</tr>
<tr>
<td>7th Av &amp; McDowell Rd</td>
<td>3</td>
</tr>
<tr>
<td>7th Av &amp; Pima St</td>
<td>3</td>
</tr>
</tbody>
</table>

(Collisions Within 150 feet of the intersection)
The 2015 Phoenix Pedestrian Collision Summary documents the collisions involving pedestrians in the City of Phoenix throughout the 2015 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 2015 Phoenix Pedestrian Collision Summary was prepared by Parth Soneji (ASU Intern) with assistance from Traffic Safety Section staff Richard Russ (Principal Engineering Technician) and Jacob Martinez (Senior Engineering Technician).

The SDM database includes motor vehicle crashes 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 Two-Stage Crosswalk at North 3rd Avenue/West Merrell Street.

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