

ARIZONA

MOTOR VEHICLE CRASH FACTS

2016



2016 Motor Vehicle Crash Facts for the State of Arizona

Prepared by:
The Arizona Department of Transportation
Transportation Systems Management and Operations

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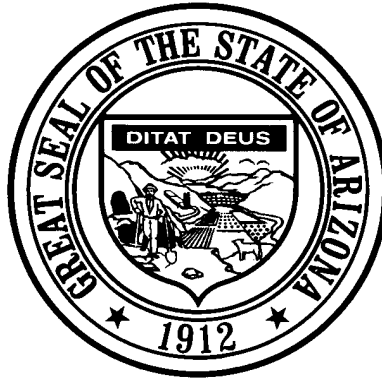
This publication is an annual statistical review of the motor vehicle crashes in the State of Arizona for the calendar year 2016. The results are compiled from Arizona Traffic Crash Reports submitted to the Arizona Department of Transportation by state, county, city, tribal, and other law enforcement agencies. Specific inquiries regarding the data in this report should be directed to:

The Arizona Department of Transportation
Transportation Systems Management and Operations
Traffic Safety Section
1615 West Jackson Street
Phoenix, AZ 85007

E-mail: azcrashfacts@azdot.gov

In order to provide the most current information, preliminary data is utilized when necessary. For this reason, previous or future reports may differ slightly and we encourage you to refer to the latest issue of Motor Vehicle Crash Facts.

This issue as well as previous issues of this publication may be viewed and downloaded from ADOT's Web Site at:
www.azdot.gov/crashfacts



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2016 Arizona Crash Facts Summary

BREAKDOWN OF ALL CRASHES IN ARIZONA

| | |
|----------------------|---------|
| TOTAL | 126,987 |
| FATAL | 856 |
| INJURY | 38,616 |
| PROPERTY DAMAGE ONLY | 87,515 |
| URBAN | 103,339 |
| RURAL | 23,648 |
| ALCOHOL RELATED | 4,942 |
| PEDESTRIAN | 1,643 |
| PEDALCYCLE | 1,479 |
| MOTORCYCLE | 3,115 |
| SINGLE VEHICLE | 20,073 |
| MULTI-VEHICLE | 106,914 |

BREAKDOWN OF FATAL CRASHES IN ARIZONA

| | |
|--------------------------------|-----|
| TOTAL | 856 |
| ALCOHOL RELATED | 267 |
| URBAN | 489 |
| RURAL | 367 |
| SINGLE VEHICLE | 295 |
| MULTI-VEHICLE | 561 |
| ALCOHOL RELATED SINGLE VEHICLE | 99 |
| ALCOHOL RELATED MULTI-VEHICLE | 168 |

BREAKDOWN OF PERSONS KILLED AND INJURED

| TYPE | KILLED | INJURED |
|------------------------------------|--------|---------|
| IN ALL CRASHES | 952 | 56,753 |
| IN ALCOHOL RELATED CRASHES | 302 | 3,324 |
| IN URBAN CRASHES | 518 | 46,181 |
| IN RURAL CRASHES | 434 | 10,572 |
| SPEED RELATED* | 314 | 23,126 |
| USING SAFETY DEVICE | 270 | 46,307 |
| NOT USING SAFETY DEVICE | 333 | 3,320 |
| DRIVERS AGE 24 OR YOUNGER | 100 | 8,885 |
| DRINKING DRIVERS AGE 24 OR YOUNGER | 30 | 367 |

BREAKDOWN OF CRASHES BY TIME

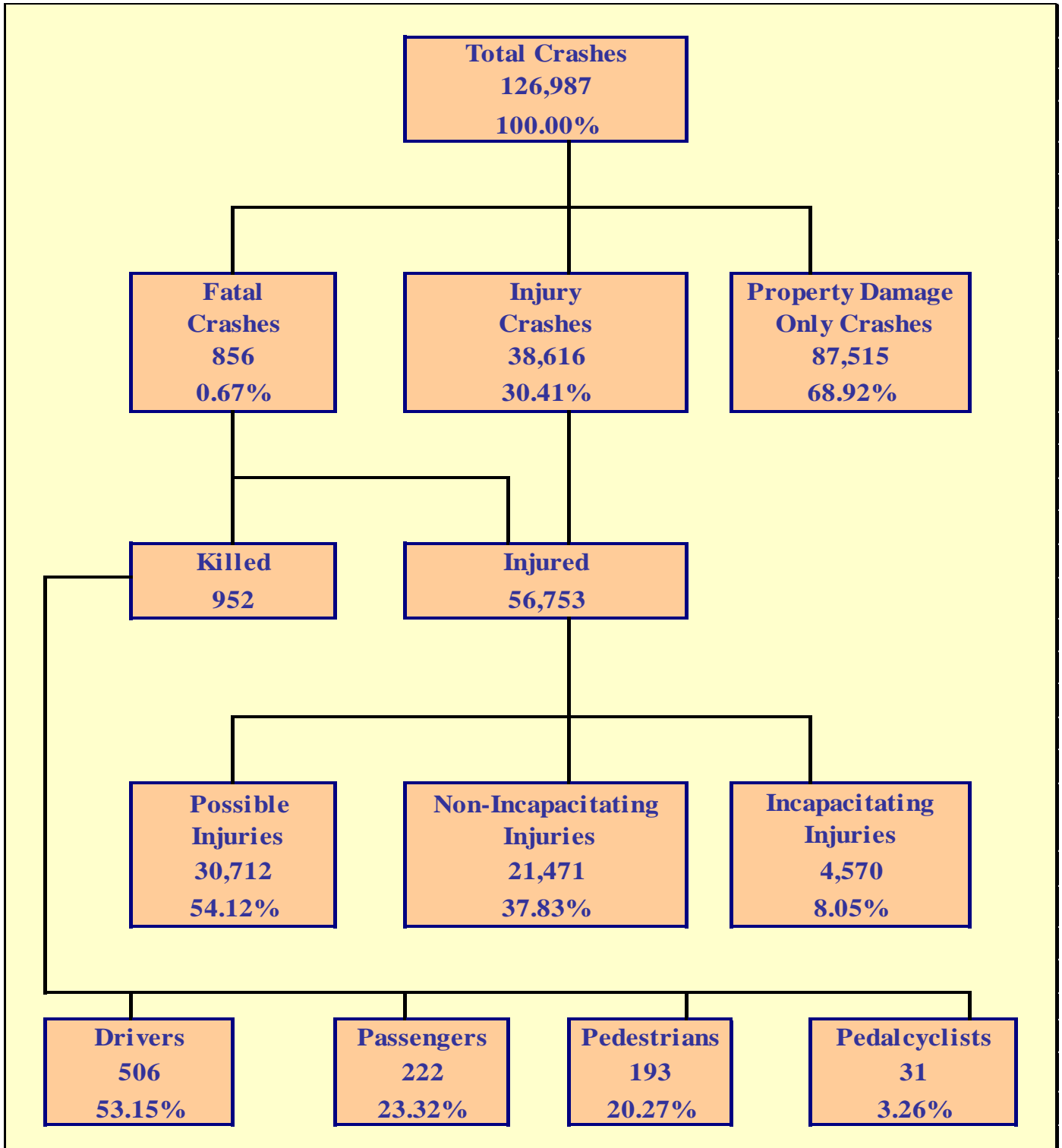
| | |
|---------------------------------------|---------------------------|
| PEAK MONTH FOR ALL CRASHES | MARCH |
| PEAK DAY FOR ALL CRASHES | FRIDAY |
| PEAK HOUR FOR ALL CRASHES | 4 PM - 5 PM |
| PEAK HOUR FOR FATAL CRASHES | 7 PM - 8 PM |
| PEAK DAY FOR FATAL CRASHES | SATURDAY |
| PEAK DATE FOR ALL CRASHES IN 2016 | JANUARY 7TH (577 CRASHES) |
| PEAK DATE FOR FATAL CRASHES IN 2016 | NOVEMBER 8TH (8 CRASHES) |
| PEAK HOUR FOR ALCOHOL RELATED CRASHES | 2 AM - 3 AM |
| PEAK DAY FOR MOTORCYCLE CRASHES | SATURDAY |
| PEAK HOUR FOR ALL MOTORCYCLE CRASHES | 4 PM - 5 PM |

OTHER FACTS

| | |
|---------------------------------|-------------------------------|
| MOST COMMON MANNER OF COLLISION | REAR END |
| MOST COMMON DRIVER VIOLATION | SPEED TOO FAST FOR CONDITIONS |

*Note: These numbers represent the total number of fatalities and injuries in crashes where the violation "speed too fast for conditions" or "exceeded lawful speed" was marked on the crash form.

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Section 1: – Highlights and Historical Trends

Table 1 – 1

Arizona Crash Facts Summary and Comparison

| Category | 2015 | 2016 | Percent Change |
|---|---------|---------|----------------|
| Total Crashes | 116,821 | 126,987 | 8.70% |
| Total Fatalities | 897 | 952 | 6.13% |
| Total Injuries | 53,716 | 56,753 | 5.65% |
| Alcohol Related Fatalities | 329 | 302 | -8.21% |
| Alcohol Related Injuries | 3,245 | 3,324 | 2.43% |
| Urban Fatalities | 468 | 518 | 10.68% |
| Urban Injuries | 43,514 | 46,181 | 6.13% |
| Rural Fatalities | 429 | 434 | 1.17% |
| Rural Injuries | 10,202 | 10,572 | 3.63% |
| MC Operator and Passenger Fatalities | 134 | 145 | 8.21% |
| MC Operator and Passenger Injuries | 2,527 | 2,602 | 2.97% |
| Pedestrians Fatalities | 163 | 193 | 18.40% |
| Pedestrians Injuries | 1,246 | 1,458 | 17.01% |
| Pedalcyclist Fatalities | 28 | 31 | 10.71% |
| Pedalcyclist Injuries | 1,278 | 1,350 | 5.63% |
| Millions of vehicle miles traveled (VMT) | 65,045 | 65,606 | 0.86% |
| Fatalities per 100 million VMT | 1.38 | 1.45 | 5.22% |
| Injuries per 100 million VMT | 82.58 | 86.51 | 4.75% |

Arizona at a Glance – 2016

- Approximately **2.61** persons were killed each day.
- One person was killed every **9.21** hours.
- There were **155.38** persons injured every day.
- One person was injured every **9.27** minutes.
- Alcohol Related crashes accounted for **3.89%** of all crashes and **31.19%** of all fatal crashes.
- Of all alcohol related crashes, **78.71%** occurred in Urban areas and **21.29%** occurred in Rural areas, while **66.67%** of all alcohol related fatal crashes occurred in Urban areas and **33.33%** occurred in Rural areas.
- Single vehicle crashes accounted for **15.81%** of all crashes and **34.46%** of all fatal crashes.
- Of all Pedestrian crashes, **11.75%** were fatal while **2.10%** of Pedalcycle crashes were fatal.
- Crashes which occurred during daylight hours (6:00 a.m. to 6:00 p.m.) accounted for **72.4%** of all crashes.
- Motor vehicle crashes resulted in **\$10.707** billion in economic losses to Arizona.
- Children age 14 and younger accounted for **36** fatalities and **3,597** injuries in motor vehicle crashes.

Section 1: – Highlights and Historical Trends

Table 1 – 2
Licensed Drivers, Motor Vehicle Registration
and Crash History in Arizona

| Calendar Year | Total Crashes | Fatal Crashes | Injury Crashes | Property Damage Only Crashes | Total Persons Killed | Total Persons Injured | Total Licensed Drivers | Total Registered Vehicles |
|---------------|---------------|---------------|----------------|------------------------------|----------------------|-----------------------|------------------------|---------------------------|
| 2002 | 134,893 | 984 | 46,394 | 87,515 | 1,132 | 74,548 | 3,668,704 | 4,089,662 |
| 2003 | 131,207 | 978 | 45,293 | 84,936 | 1,125 | 72,113 | 3,819,823 | 4,193,262 |
| 2004 | 138,898 | 998 | 46,788 | 91,112 | 1,159 | 73,686 | 3,784,365 | 4,364,857 |
| 2005 | 140,574 | 1,049 | 45,826 | 93,699 | 1,193 | 71,083 | 3,963,005 | 4,556,448 |
| 2006 | 143,504 | 1,126 | 45,395 | 96,983 | 1,301 | 70,013 | 4,091,789 | 4,748,957 |
| 2007 | 141,193 | 952 | 43,560 | 96,681 | 1,071 | 66,062 | 4,212,393 | 4,848,162 |
| 2008 | 120,557 | 843 | 37,515 | 82,199 | 938 | 56,539 | 4,360,711 | 4,842,188 |
| 2009 | 107,149 | 709 | 33,506 | 72,934 | 806 | 50,809 | 4,434,719 | 4,787,350 |
| 2010 | 106,900 | 695 | 33,419 | 72,786 | 759 | 50,463 | 4,537,653 | 4,805,904 |
| 2011 | 103,958 | 756 | 33,223 | 69,979 | 827 | 49,856 | 4,634,405 | 4,855,014 |
| 2012 | 103,940 | 738 | 33,594 | 69,608 | 821 | 50,086 | 4,736,517 | 4,969,620 |
| 2013 | 107,575 | 782 | 34,136 | 72,657 | 849 | 50,439 | 4,826,903 | 5,130,780 |
| 2014 | 109,684 | 709 | 34,524 | 74,451 | 774 | 51,022 | 4,922,676 | 5,300,980 |
| 2015 | 116,821 | 811 | 36,231 | 79,779 | 897 | 53,716 | 5,025,811 | 5,487,058 |
| 2016 | 126,987 | 856 | 38,616 | 87,515 | 952 | 56,753 | 5,135,262 | 5,677,208 |

Table 1 – 3
Historical Trends – VMT and Rates

| Calendar Year | Arizona Fatality Rate | Arizona Injury Rate | Arizona Traffic Fatalities | Estimated Motor Vehicle Miles Traveled | Arizona Fatal Crash Rate |
|---------------|-----------------------|---------------------|----------------------------|--|--------------------------|
| 2012 | 1.37 | 83.30 | 821 | 60,129 | 1.23 |
| 2013 | 1.40 | 83.25 | 849 | 60,586 | 1.29 |
| 2014 | 1.24 | 81.46 | 774 | 62,631 | 1.13 |
| 2015 | 1.38 | 82.58 | 897 | 65,045 | 1.25 |
| 2016 | 1.45 | 86.51 | 952 | 65,606 | 1.30 |

Vehicle miles traveled are shown in million miles and rates per 100 million miles

Section 1: – Highlights and Historical Trends

Statewide Economic Loss Due to Motor Vehicle Crashes

| | |
|-----------------------------|-------------------------|
| Fatalities | \$5,521,600,000 |
| Incapacitating Injuries | \$1,828,000,000 |
| Non-Incapacitating Injuries | \$1,717,680,000 |
| Possible Injuries | \$1,289,904,000 |
| Property Damage Only | \$350,060,000 |
| TOTAL | \$10,707,244,000 |

Table 1 – 4

Estimated Economic Loss by County

| County | Cost of Traffic Crashes | | | |
|-------------------|-------------------------|-------------------------|-----------------------|--------------------------|
| | Fatalities | Injuries | PDO | Total |
| Apache | \$ 208,800,000 | \$ 26,616,000 | \$ 1,052,000 | \$ 236,468,000 |
| Cochise | \$ 150,800,000 | \$ 58,888,000 | \$ 3,932,000 | \$ 213,620,000 |
| Coconino | \$ 290,000,000 | \$ 121,080,000 | \$ 12,344,000 | \$ 423,424,000 |
| Gila | \$ 110,200,000 | \$ 40,880,000 | \$ 2,112,000 | \$ 153,192,000 |
| Graham | \$ 29,000,000 | \$ 13,084,000 | \$ 640,000 | \$ 42,724,000 |
| Greenlee | \$ 5,800,000 | \$ 6,154,000 | \$ 300,000 | \$ 12,254,000 |
| La Paz | \$ 104,400,000 | \$ 30,816,000 | \$ 1,176,000 | \$ 136,392,000 |
| Maricopa | \$ 2,778,200,000 | \$ 3,301,562,000 | \$ 259,324,000 | \$ 6,339,086,000 |
| Mohave | \$ 307,400,000 | \$ 151,344,000 | \$ 8,576,000 | \$ 467,320,000 |
| Navajo | \$ 174,000,000 | \$ 51,126,000 | \$ 3,000,000 | \$ 228,126,000 |
| Pima | \$ 649,600,000 | \$ 568,864,000 | \$ 27,828,000 | \$ 1,246,292,000 |
| Pinal | \$ 359,600,000 | \$ 182,122,000 | \$ 11,476,000 | \$ 553,198,000 |
| Santa Cruz | \$ 17,400,000 | \$ 19,046,000 | \$ 1,640,000 | \$ 38,086,000 |
| Yavapai | \$ 232,000,000 | \$ 166,916,000 | \$ 9,888,000 | \$ 408,804,000 |
| Yuma | \$ 104,400,000 | \$ 97,086,000 | \$ 6,772,000 | \$ 208,258,000 |
| TOTALS | \$ 5,521,600,000 | \$ 4,835,584,000 | \$ 350,060,000 | \$ 10,707,244,000 |

Table 1 – 5

Average Economic Cost per Incident

| | | |
|----|---------------------------|-------------|
| 1. | Fatality | \$5,800,000 |
| 2. | Incapacitating Injury | \$400,000 |
| 3. | Non-Incapacitating Injury | \$80,000 |
| 4. | Possible Injury | \$42,000 |
| 5. | Property Damage Only | \$4,000 |

Source: www.cmfclearinghouse.org/resources_servlifecrashcostguide.cfm

Section 1: – Highlights and Historical Trends

Traffic Crashes in Arizona by Year

Chart 1 – 1
Total Crashes

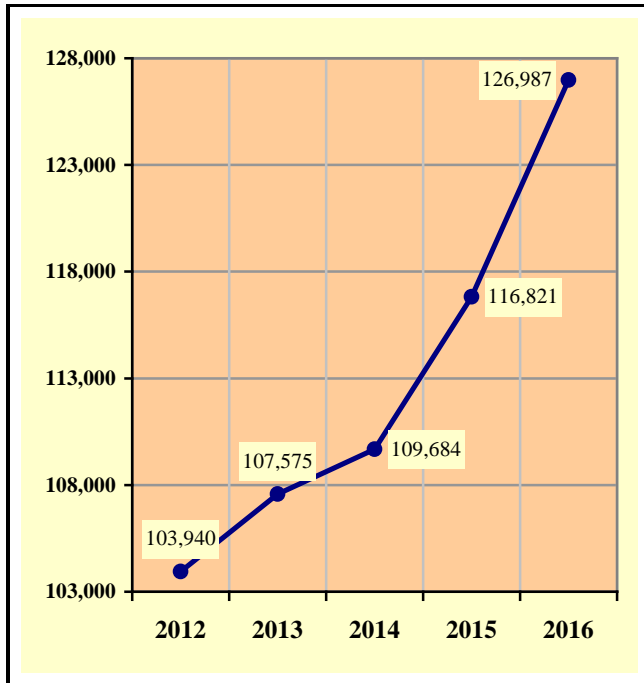


Chart 1 – 2
Fatal Crashes

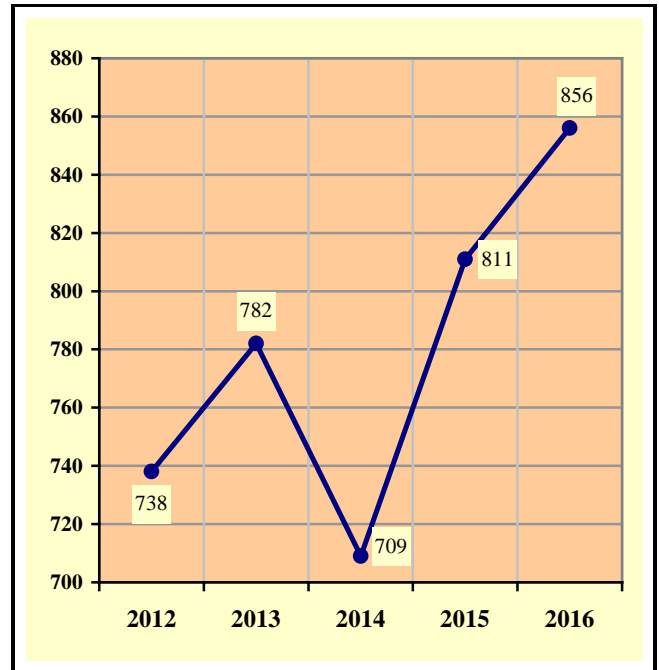


Chart 1 – 3
Injury Crashes

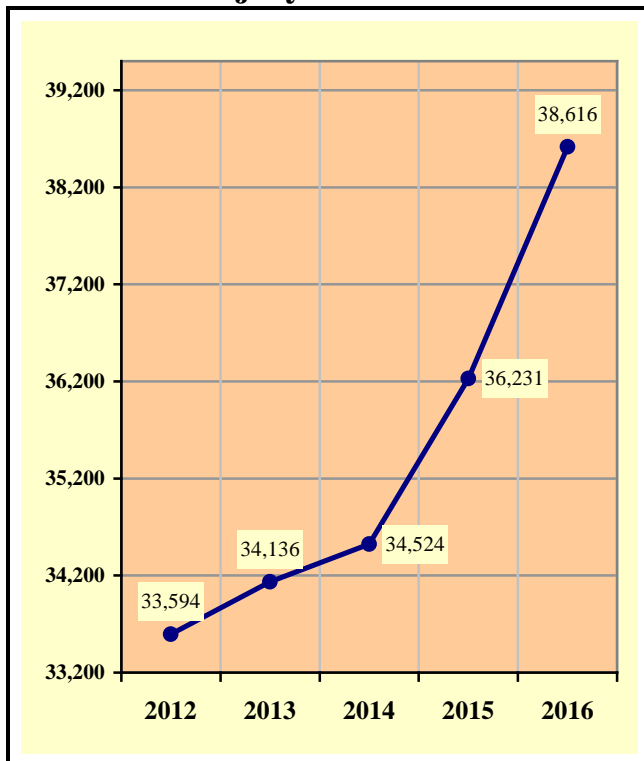
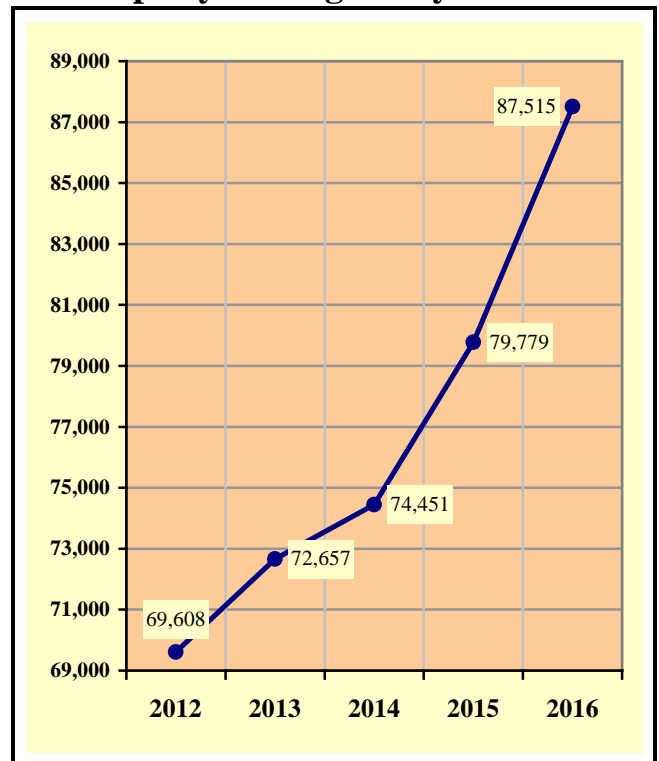


Chart 1 – 4
Property Damage Only Crashes



Section 1: – Highlights and Historical Trends

Table 1 – 6
Victims of Motor Vehicle Crashes

| Age of Victim | Persons Killed | | | | Persons Injured | | | |
|-----------------------|----------------|------------|------------|----------------|-----------------|---------------|---------------|----------------|
| | Total | Male | Female | Gender Unknown | Total | Male | Female | Gender Unknown |
| 0-4 | 14 | 9 | 5 | 0 | 906 | 469 | 437 | 0 |
| 5-9 | 7 | 5 | 2 | 0 | 1,231 | 610 | 621 | 0 |
| 10-14 | 15 | 8 | 7 | 0 | 1,460 | 665 | 795 | 0 |
| 15-19 | 59 | 32 | 27 | 0 | 5,693 | 2,705 | 2,988 | 0 |
| 20-24 | 112 | 82 | 30 | 0 | 7,596 | 3,700 | 3,896 | 0 |
| 25-34 | 143 | 101 | 42 | 0 | 11,162 | 5,382 | 5,780 | 0 |
| 35-44 | 129 | 94 | 35 | 0 | 8,210 | 3,854 | 4,356 | 0 |
| 45-54 | 160 | 128 | 32 | 0 | 7,717 | 3,757 | 3,960 | 0 |
| 55-64 | 136 | 102 | 34 | 0 | 6,220 | 3,000 | 3,220 | 0 |
| 65-74 | 86 | 56 | 30 | 0 | 3,737 | 1,732 | 2,005 | 0 |
| 75 & Older | 89 | 56 | 33 | 0 | 2,141 | 970 | 1,171 | 0 |
| Unknown | 2 | 0 | 0 | 2 | 680 | 288 | 297 | 95 |
| TOTAL | 952 | 673 | 277 | 2 | 56,753 | 27,132 | 29,526 | 95 |

Table 1 – 7
Fatalities by Person Type 2012-2016

| Year | Drivers | Passengers | Pedestrians | Pedalcyclists | Total |
|--------------|--------------|------------|-------------|---------------|--------------|
| 2012 | 475 | 197 | 131 | 18 | 821 |
| 2013 | 474 | 186 | 160 | 29 | 849 |
| 2014 | 426 | 164 | 155 | 29 | 774 |
| 2015 | 511 | 195 | 163 | 28 | 897 |
| 2016 | 506 | 222 | 193 | 31 | 952 |
| TOTAL | 2,392 | 964 | 802 | 135 | 4,293 |

Table 1 – 8
Young drivers (age 15-24) killed in crashes 2012-2016

| Year | Age of Driver | | | | | | | | | | Total |
|--------------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
| 2012 | 0 | 5 | 9 | 11 | 7 | 9 | 17 | 18 | 14 | 10 | 100 |
| 2013 | 2 | 2 | 7 | 7 | 12 | 12 | 17 | 9 | 13 | 9 | 90 |
| 2014 | 0 | 0 | 1 | 14 | 8 | 5 | 9 | 10 | 13 | 10 | 70 |
| 2015 | 1 | 2 | 4 | 7 | 7 | 13 | 15 | 15 | 10 | 10 | 84 |
| 2016 | 2 | 2 | 1 | 13 | 12 | 11 | 9 | 18 | 15 | 14 | 97 |
| TOTAL | 5 | 11 | 22 | 52 | 46 | 50 | 67 | 70 | 65 | 53 | 441 |

Section 1: – Highlights and Historical Trends

Chart 1 – 5
Vehicle Miles Traveled

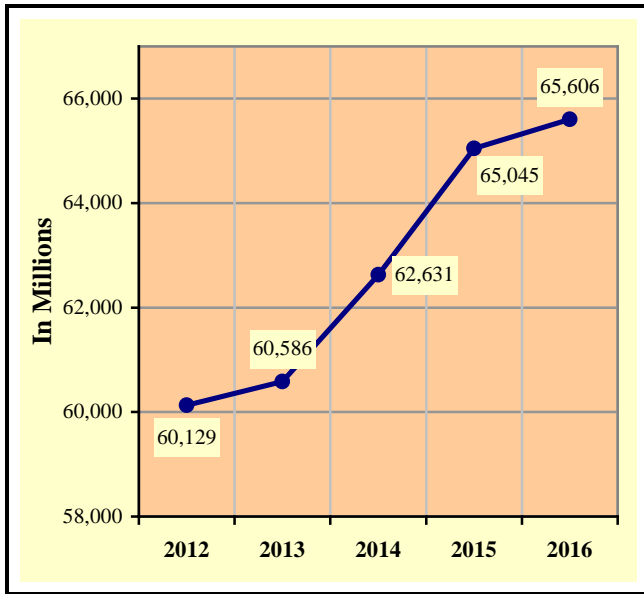
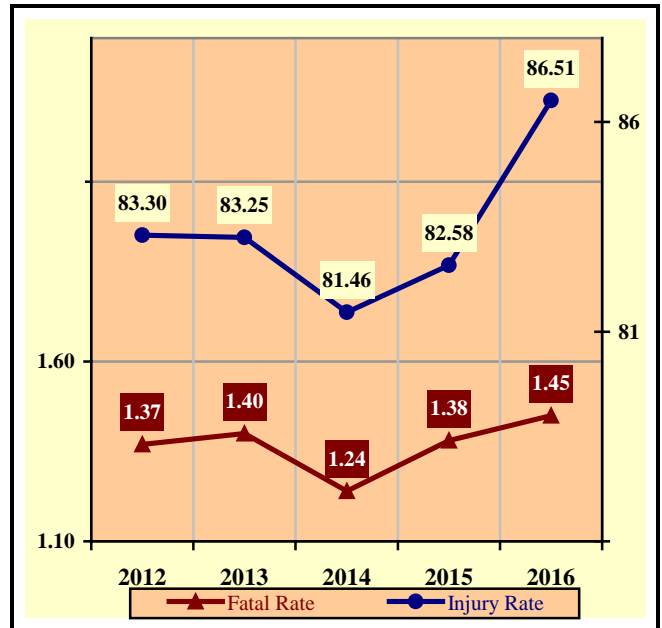


Chart 1 – 6
Arizona Fatality Rate vs. Injury Rate



Source: ADOT – Multimodal Planning Division

Chart 1 – 7
Traffic Fatalities by Geographic Region

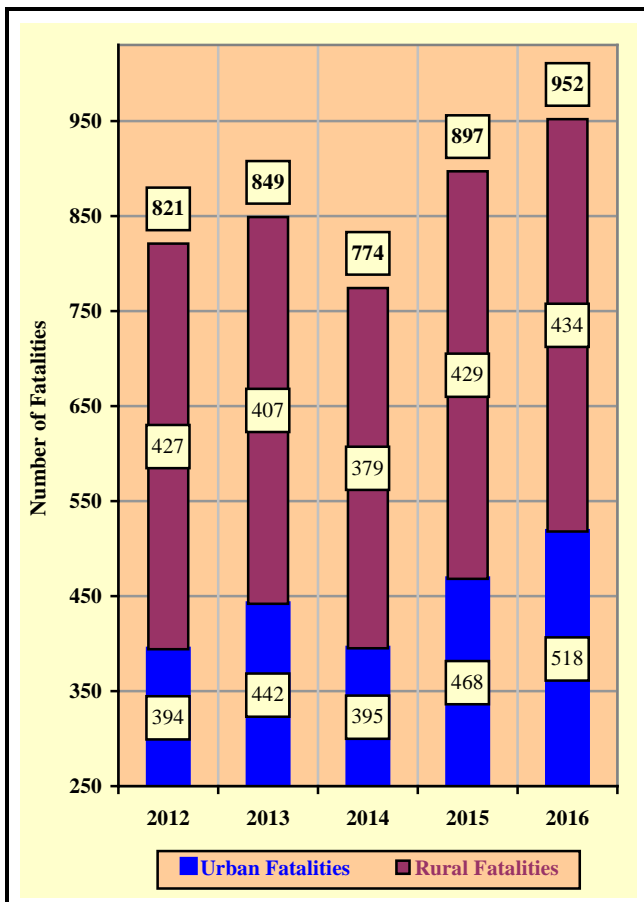
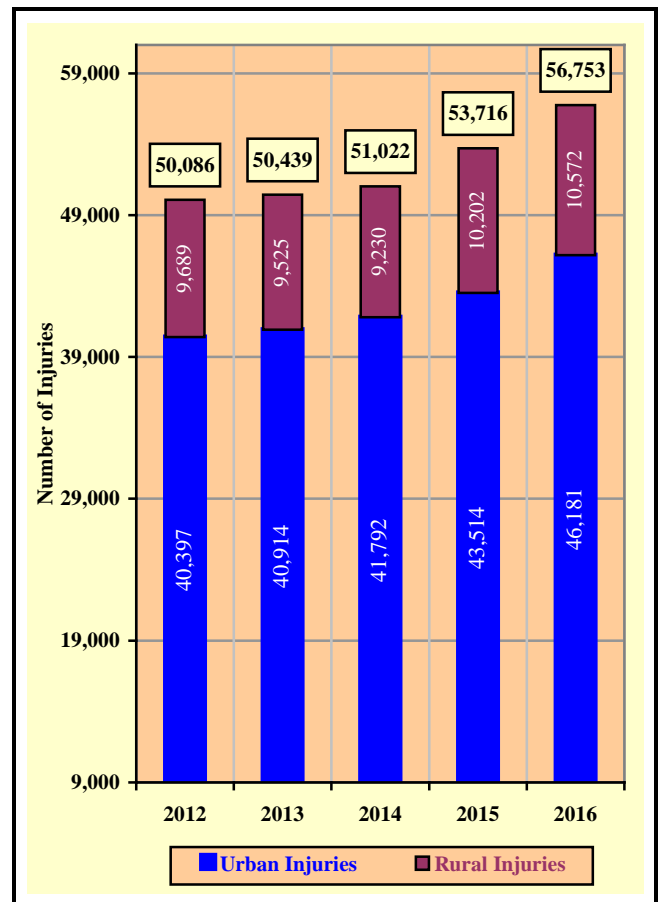


Chart 1 – 8
Traffic Injuries by Geographic Region



Section 1: – Highlights and Historical Trends

Table 1 – 9

Holiday Crash Statistics

Holidays such as Memorial Day, Labor Day, and Thanksgiving are regarded as three or four day weekend holidays for statistical purposes. Holidays such as Christmas, New Year’s Day, and the Fourth of July are celebrated on specific dates; which make the holiday period range from two to five days in length.

Holiday fatality statistics are based on fatal crashes occurring from 6:00 p.m. on the last working day prior to the holiday through 5:59 a.m. the day following the holiday period. Example: Thanksgiving fatalities are counted from Wednesday evening at 6:00 p.m. through 5:59 a.m. of the following Monday.

| 2016 Holidays | Beginning at 6:00 p.m. | Ending at 5:59 a.m. | Number of Days | Fatal Crashes | Persons Killed | Alcohol Related Fatal Crashes | Alcohol Related Fatalities |
|------------------|------------------------|---------------------|----------------|---------------|----------------|-------------------------------|----------------------------|
| New Year’s Day | Thursday | Monday | 4 | 6 | 6 | 3 | 3 |
| | 12/31/2015 | 1/4/2016 | | | | | |
| Memorial Day | Friday | Tuesday | 4 | 7 | 7 | 2 | 2 |
| | 5/27/2016 | 5/31/2016 | | | | | |
| July 4th | Friday | Tuesday | 4 | 13 | 15 | 7 | 8 |
| | 7/1/2016 | 7/5/2016 | | | | | |
| Labor Day | Friday | Tuesday | 4 | 7 | 8 | 3 | 4 |
| | 9/2/2016 | 9/6/2016 | | | | | |
| Thanksgiving Day | Wednesday | Monday | 5 | 11 | 11 | 5 | 5 |
| | 11/23/2016 | 11/28/2016 | | | | | |
| Christmas Day | Friday | Tuesday | 4 | 4 | 6 | 1 | 1 |
| | 12/23/2016 | 12/27/2016 | | | | | |

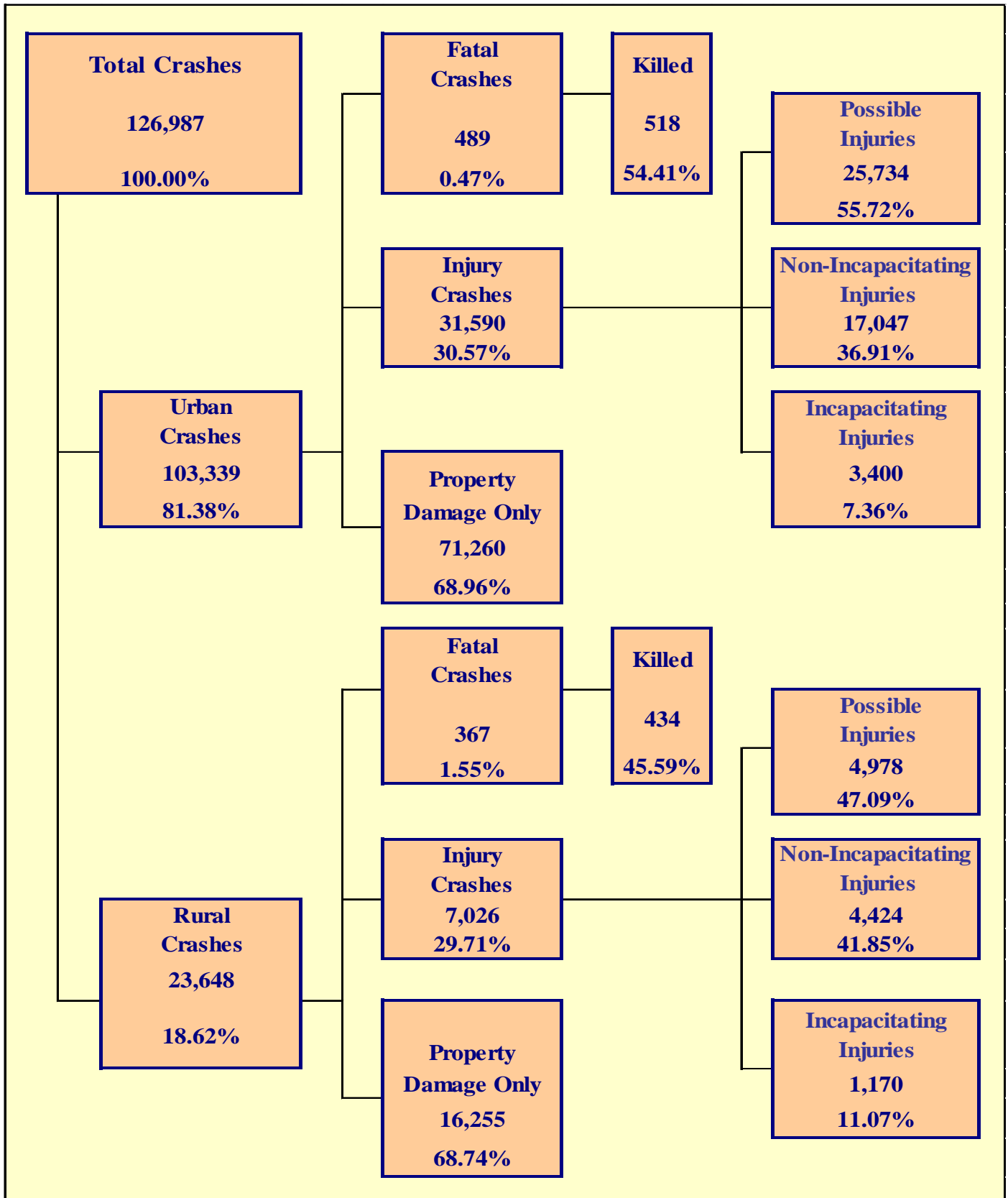
| Fatal Crashes by Year | New Year’s Day | Memorial Day | July 4th | Labor Day | Thanksgiving | Christmas Day | Total |
|-----------------------|----------------|--------------|----------|-----------|--------------|---------------|-------|
| 2012 | 14 | 7 | 5 | 15 | 11 | 4 | 56 |
| 2013 | 3 | 9 | 15 | 8 | 11 | 1 | 47 |
| 2014 | 3 | 7 | 7 | 4 | 14 | 7 | 42 |
| 2015 | 7 | 10 | 11 | 10 | 10 | 4 | 52 |
| 2016 | 6 | 7 | 13 | 7 | 11 | 4 | 48 |

| Persons Killed | New Year’s Day | Memorial Day | July 4th | Labor Day | Thanksgiving | Christmas Day | Total |
|----------------|----------------|--------------|----------|-----------|--------------|---------------|-------|
| 2012 | 14 | 8 | 6 | 18 | 11 | 4 | 61 |
| 2013 | 4 | 10 | 16 | 8 | 14 | 1 | 53 |
| 2014 | 3 | 8 | 9 | 6 | 18 | 8 | 52 |
| 2015 | 7 | 11 | 11 | 10 | 16 | 6 | 61 |
| 2016 | 6 | 7 | 15 | 8 | 11 | 6 | 53 |

| Number of Days | New Year’s Day | Memorial Day | July 4th | Labor Day | Thanksgiving | Christmas Day | Total |
|----------------|----------------|--------------|----------|-----------|--------------|---------------|-------|
| 2012 | 4 | 4 | 2 | 4 | 5 | 5 | 24 |
| 2013 | 5 | 4 | 5 | 4 | 5 | 2 | 25 |
| 2014 | 2 | 4 | 4 | 4 | 5 | 5 | 24 |
| 2015 | 5 | 4 | 4 | 4 | 5 | 4 | 26 |
| 2016 | 4 | 4 | 4 | 4 | 5 | 4 | 25 |

Section 2

Geographic Location



Section 2: – Geographic Location

Fatal Crashes in Arizona (856) accounted for 0.67% of all crashes, Injury Crashes (38,616) accounted for 30.41%, and Property Damage Only (PDO) Crashes (87,515) accounted for 68.92%.

**Table 2 – 1
Crash Severity by First Harmful Event Statewide**

| First Harmful Event Type | Number of Crashes | | | | Number of Persons | |
|---|-------------------|------------|---------------|---------------|-------------------|---------------|
| | Total | Fatal | Injury | PDO | Killed | Injured |
| Collision with Motor Vehicle in Transport | 93,259 | 314 | 27,609 | 65,336 | 372 | 42,799 |
| Overturning | 2,868 | 132 | 1,798 | 938 | 150 | 2,507 |
| Collision with Pedestrian | 1,429 | 185 | 1,207 | 37 | 185 | 1,299 |
| Collision with Pedalcyclist | 1,380 | 29 | 1,251 | 100 | 30 | 1,286 |
| Collision with Animal | 2,149 | 1 | 187 | 1,961 | 1 | 234 |
| Collision with Fixed Object | 13,063 | 159 | 3,828 | 9,076 | 176 | 4,747 |
| Collision with Non-fixed Object* | 5,242 | 12 | 526 | 4,704 | 12 | 624 |
| Vehicle Fire or Explosion | 336 | 1 | 6 | 329 | 1 | 8 |
| Other Non-collision** | 599 | 8 | 101 | 490 | 8 | 109 |
| Unknown | 6,662 | 15 | 2,103 | 4,544 | 17 | 3,140 |
| TOTAL | 126,987 | 856 | 38,616 | 87,515 | 952 | 56,753 |
| *Includes Collision with Parked Vehicles, Trains, Railway Vehicles, and Work Zone Equipment | | | | | | |
| **Includes Vehicle Immersion, Jackknife, and Cargo Loss or Shift | | | | | | |

**Table 2 – 2
Crashes by County**

| County | Number of Crashes | | | | Number of Persons | |
|--------------|-------------------|------------|---------------|---------------|-------------------|---------------|
| | Total | Fatal | Injury | PDO | Killed | Injured |
| Apache | 429 | 30 | 136 | 263 | 36 | 229 |
| Cochise | 1,399 | 23 | 393 | 983 | 26 | 580 |
| Coconino | 3,987 | 44 | 857 | 3,086 | 50 | 1,285 |
| Gila | 795 | 14 | 253 | 528 | 19 | 375 |
| Graham | 255 | 4 | 91 | 160 | 5 | 121 |
| Greenlee | 106 | 1 | 30 | 75 | 1 | 41 |
| La Paz | 459 | 15 | 150 | 294 | 18 | 243 |
| Maricopa | 92,797 | 453 | 27,513 | 64,831 | 479 | 40,336 |
| Mohave | 3,086 | 40 | 902 | 2,144 | 53 | 1,366 |
| Navajo | 1,108 | 25 | 333 | 750 | 30 | 529 |
| Pima | 11,646 | 98 | 4,591 | 6,957 | 112 | 6,645 |
| Pinal | 4,220 | 56 | 1,295 | 2,869 | 62 | 1,971 |
| Santa Cruz | 552 | 3 | 139 | 410 | 3 | 199 |
| Yavapai | 3,588 | 34 | 1,082 | 2,472 | 40 | 1,592 |
| Yuma | 2,560 | 16 | 851 | 1,693 | 18 | 1,241 |
| TOTAL | 126,987 | 856 | 38,616 | 87,515 | 952 | 56,753 |

Section 2: – Geographic Location

**Table 2 – 3
Crash Severity by First Harmful Event in Urban Areas**

| First Harmful Event Type | Number of Crashes | | | | Number of Persons | |
|---|-------------------|------------|---------------|---------------|-------------------|---------------|
| | Total | Fatal | Injury | PDO | Killed | Injured |
| Collision with Motor Vehicle in Transport | 79,921 | 196 | 23,587 | 56,138 | 211 | 36,290 |
| Overturning | 951 | 36 | 676 | 239 | 41 | 838 |
| Collision with Pedestrian | 1,296 | 148 | 1,114 | 34 | 148 | 1,199 |
| Collision with Pedalcyclist | 1,239 | 20 | 1,139 | 80 | 20 | 1,171 |
| Collision with Animal | 282 | 0 | 25 | 257 | 0 | 31 |
| Collision with Fixed Object | 8,605 | 76 | 2,501 | 6,028 | 85 | 3,019 |
| Collision with Non-fixed Object* | 4,104 | 5 | 412 | 3,687 | 5 | 464 |
| Vehicle Fire or Explosion | 103 | 0 | 0 | 103 | 0 | 0 |
| Other Non-collision** | 275 | 6 | 63 | 206 | 6 | 65 |
| Unknown | 6,563 | 2 | 2,073 | 4,488 | 2 | 3,104 |
| TOTAL | 103,339 | 489 | 31,590 | 71,260 | 518 | 46,181 |
| *Includes Collision with Parked Vehicles, Trains, Railway Vehicles, and Work Zone Equipment | | | | | | |
| **Includes Vehicle Immersion, Jackknife, and Cargo Loss or Shift | | | | | | |

**Table 2 – 4
Crash Severity by First Harmful Event in Rural Areas**

| First Harmful Event Type | Number of Crashes | | | | Number of Persons | |
|---|-------------------|------------|--------------|---------------|-------------------|---------------|
| | Total | Fatal | Injury | PDO | Killed | Injured |
| Collision with Motor Vehicle in Transport | 13,338 | 118 | 4,022 | 9,198 | 161 | 6,509 |
| Overturning | 1,917 | 96 | 1,122 | 699 | 109 | 1,669 |
| Collision with Pedestrian | 133 | 37 | 93 | 3 | 37 | 100 |
| Collision with Pedalcyclist | 141 | 9 | 112 | 20 | 10 | 115 |
| Collision with Animal | 1,867 | 1 | 162 | 1,704 | 1 | 203 |
| Collision with Fixed Object | 4,458 | 83 | 1,327 | 3,048 | 91 | 1,728 |
| Collision with Non-fixed Object* | 1,138 | 7 | 114 | 1,017 | 7 | 160 |
| Vehicle Fire or Explosion | 233 | 1 | 6 | 226 | 1 | 8 |
| Other Non-collision** | 324 | 2 | 38 | 284 | 2 | 44 |
| Unknown | 99 | 13 | 30 | 56 | 15 | 36 |
| TOTAL | 23,648 | 367 | 7,026 | 16,255 | 434 | 10,572 |
| *Includes Collision with Parked Vehicles, Trains, Railway Vehicles, and Work Zone Equipment | | | | | | |
| **Includes Vehicle Immersion, Jackknife, and Cargo Loss or Shift | | | | | | |

While Urban Crashes in Arizona (103,339) accounted for 81.38% of all crashes, they accounted for 57.13% of all Fatal Crashes (489) occurring in 2016.

While Rural Crashes in Arizona (23,648) accounted for 18.62% of all crashes, they accounted for 42.87% of all Fatal Crashes (367) occurring in 2016.

Section 2: – Geographic Location

Table 2 – 5
Analysis by Jurisdiction

| COUNTIES Cities | Number of Crashes | | | | No. of Persons | | Alcohol Related | | |
|--------------------|-------------------|-----------|------------|------------|----------------|------------|-----------------|-----------|-----------|
| | Total | Fatal | Injury | PDO | Killed | Injured | Crashes | Killed | Injured |
| Apache County | 381 | 30 | 120 | 231 | 36 | 209 | 32 | 14 | 48 |
| Eagar | 18 | 0 | 6 | 12 | 0 | 8 | 2 | 0 | 1 |
| St. Johns | 14 | 0 | 4 | 10 | 0 | 4 | 2 | 0 | 1 |
| Springerville | 16 | 0 | 6 | 10 | 0 | 8 | 0 | 0 | 0 |
| TOTAL | 429 | 30 | 136 | 263 | 36 | 229 | 36 | 14 | 50 |

| | | | | | | | | | |
|----------------|--------------|-----------|------------|------------|-----------|------------|-----------|----------|-----------|
| Cochise County | 627 | 14 | 168 | 445 | 17 | 258 | 27 | 3 | 20 |
| Benson | 85 | 0 | 22 | 63 | 0 | 32 | 3 | 0 | 2 |
| Bisbee | 4 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 0 |
| Douglas | 140 | 0 | 30 | 110 | 0 | 31 | 4 | 0 | 0 |
| Huachuca City | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| Sierra Vista | 506 | 4 | 160 | 342 | 4 | 236 | 23 | 2 | 5 |
| Tombstone | 17 | 2 | 6 | 9 | 2 | 11 | 3 | 1 | 1 |
| Willcox | 19 | 1 | 5 | 13 | 1 | 9 | 0 | 0 | 0 |
| TOTAL | 1,399 | 23 | 393 | 983 | 26 | 580 | 61 | 7 | 28 |

| | | | | | | | | | |
|-----------------|--------------|-----------|------------|--------------|-----------|--------------|------------|-----------|------------|
| Coconino County | 1,558 | 34 | 379 | 1,145 | 39 | 618 | 64 | 6 | 60 |
| Flagstaff | 2,000 | 8 | 403 | 1,589 | 9 | 557 | 93 | 4 | 39 |
| Fredonia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Williams | 133 | 1 | 23 | 109 | 1 | 36 | 3 | 0 | 1 |
| Page | 113 | 1 | 23 | 89 | 1 | 34 | 17 | 1 | 7 |
| Sedona | 183 | 0 | 29 | 154 | 0 | 40 | 6 | 0 | 1 |
| TOTAL | 3,987 | 44 | 857 | 3,086 | 50 | 1,285 | 183 | 11 | 108 |

| | | | | | | | | | |
|--------------|------------|-----------|------------|------------|-----------|------------|-----------|----------|-----------|
| Gila County | 550 | 13 | 177 | 360 | 17 | 265 | 29 | 4 | 29 |
| Globe | 44 | 1 | 13 | 30 | 2 | 24 | 3 | 0 | 3 |
| Hayden | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Miami | 3 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 0 |
| Payson | 197 | 0 | 63 | 134 | 0 | 86 | 10 | 0 | 6 |
| Winkelman | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 795 | 14 | 253 | 528 | 19 | 375 | 43 | 4 | 38 |

| | | | | | | | | | |
|---------------|------------|----------|-----------|------------|----------|------------|-----------|----------|-----------|
| Graham County | 126 | 4 | 46 | 76 | 5 | 64 | 10 | 5 | 12 |
| Pima | 2 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |
| Safford | 70 | 0 | 23 | 47 | 0 | 30 | 5 | 0 | 6 |
| Thatcher | 57 | 0 | 21 | 36 | 0 | 26 | 2 | 0 | 3 |
| TOTAL | 255 | 4 | 91 | 160 | 5 | 121 | 17 | 5 | 21 |

| | | | | | | | | | |
|-----------------|------------|----------|-----------|-----------|----------|-----------|----------|----------|----------|
| Greenlee County | 79 | 0 | 24 | 55 | 0 | 32 | 3 | 0 | 2 |
| Clifton | 25 | 0 | 5 | 20 | 0 | 5 | 0 | 0 | 0 |
| Duncan | 2 | 1 | 1 | 0 | 1 | 4 | 1 | 1 | 0 |
| TOTAL | 106 | 1 | 30 | 75 | 1 | 41 | 4 | 1 | 2 |

Section 2: – Geographic Location

Table 2 – 5
Analysis by Jurisdiction

| COUNTIES Cities | Number of Crashes | | | | No. of Persons | | Alcohol Related | | |
|--------------------|-------------------|-----------|------------|------------|----------------|------------|-----------------|----------|-----------|
| | Total | Fatal | Injury | PDO | Killed | Injured | Crashes | Killed | Injured |
| La Paz County | 383 | 12 | 125 | 246 | 15 | 203 | 15 | 1 | 13 |
| Parker | 30 | 1 | 9 | 20 | 1 | 12 | 0 | 0 | 0 |
| Quartzite | 46 | 2 | 16 | 28 | 2 | 28 | 1 | 0 | 1 |
| TOTAL | 459 | 15 | 150 | 294 | 18 | 243 | 16 | 1 | 14 |

| | | | | | | | | | |
|-----------------|---------------|------------|---------------|---------------|------------|---------------|--------------|------------|--------------|
| Maricopa County | 6,849 | 66 | 2,135 | 4,648 | 73 | 3,047 | 204 | 23 | 157 |
| Avondale | 1,402 | 4 | 405 | 993 | 4 | 583 | 61 | 2 | 33 |
| Buckeye | 661 | 6 | 192 | 463 | 7 | 288 | 30 | 1 | 28 |
| Cave Creek | 74 | 1 | 25 | 48 | 1 | 33 | 11 | 1 | 11 |
| Chandler | 4,611 | 15 | 1,329 | 3,267 | 16 | 1,946 | 154 | 5 | 94 |
| El Mirage | 472 | 2 | 108 | 362 | 2 | 153 | 20 | 1 | 7 |
| Gila Bend | 52 | 2 | 12 | 38 | 3 | 21 | 1 | 0 | 0 |
| Gilbert | 2,989 | 8 | 599 | 2,382 | 8 | 844 | 92 | 2 | 38 |
| Glendale | 5,548 | 34 | 1,527 | 3,987 | 35 | 2,428 | 187 | 10 | 143 |
| Goodyear | 1,047 | 8 | 281 | 758 | 8 | 455 | 55 | 3 | 52 |
| Mesa | 7,520 | 41 | 2,431 | 5,048 | 43 | 3,329 | 286 | 11 | 197 |
| Paradise Valley | 211 | 0 | 66 | 145 | 0 | 80 | 4 | 0 | 1 |
| Peoria | 2,690 | 13 | 897 | 1,780 | 13 | 1,301 | 107 | 5 | 89 |
| Phoenix | 42,900 | 207 | 12,947 | 29,746 | 217 | 19,395 | 1,362 | 93 | 877 |
| Scottsdale | 4,163 | 16 | 1,313 | 2,834 | 16 | 1,831 | 191 | 7 | 91 |
| Surprise | 1,379 | 6 | 340 | 1,033 | 8 | 495 | 51 | 6 | 29 |
| Tempe | 8,697 | 22 | 2,503 | 6,172 | 23 | 3,529 | 254 | 10 | 128 |
| Tolleson | 478 | 1 | 119 | 358 | 1 | 173 | 19 | 0 | 14 |
| Wickenburg | 135 | 1 | 22 | 112 | 1 | 37 | 8 | 1 | 6 |
| Youngtown | 53 | 0 | 18 | 35 | 0 | 27 | 2 | 0 | 2 |
| Guadalupe | 312 | 0 | 91 | 221 | 0 | 124 | 7 | 0 | 2 |
| Litchfield Park | 58 | 0 | 17 | 41 | 0 | 21 | 2 | 0 | 1 |
| Queen Creek | 344 | 0 | 90 | 254 | 0 | 134 | 7 | 0 | 5 |
| Fountain Hills | 114 | 0 | 34 | 80 | 0 | 47 | 4 | 0 | 1 |
| Carefree | 38 | 0 | 12 | 26 | 0 | 15 | 3 | 0 | 2 |
| TOTAL | 92,797 | 453 | 27,513 | 64,831 | 479 | 40,336 | 3,122 | 181 | 2,008 |

| | | | | | | | | | |
|------------------|--------------|-----------|------------|--------------|-----------|--------------|------------|-----------|------------|
| Mohave County | 1,373 | 34 | 415 | 924 | 46 | 681 | 79 | 9 | 74 |
| Kingman | 575 | 0 | 180 | 395 | 0 | 245 | 27 | 0 | 16 |
| Lake Havasu City | 579 | 2 | 144 | 433 | 2 | 195 | 46 | 1 | 22 |
| Bullhead City | 546 | 4 | 159 | 383 | 5 | 236 | 41 | 3 | 34 |
| Colorado City | 13 | 0 | 4 | 9 | 0 | 9 | 1 | 0 | 0 |
| TOTAL | 3,086 | 40 | 902 | 2,144 | 53 | 1,366 | 194 | 13 | 146 |

Section 2: – Geographic Location

Table 2 – 5

Analysis by Jurisdiction

| COUNTIES Cities | Number of Crashes | | | | No. of Persons | | Alcohol Related | | |
|--------------------|-------------------|-----------|------------|------------|----------------|------------|-----------------|----------|-----------|
| | Total | Fatal | Injury | PDO | Killed | Injured | Crashes | Killed | Injured |
| Navajo County | 597 | 22 | 168 | 407 | 27 | 289 | 40 | 6 | 56 |
| Holbrook | 60 | 0 | 20 | 40 | 0 | 35 | 2 | 0 | 1 |
| Show Low | 246 | 2 | 88 | 156 | 2 | 122 | 7 | 0 | 5 |
| Snowflake | 51 | 0 | 11 | 40 | 0 | 20 | 0 | 0 | 0 |
| Taylor | 34 | 0 | 10 | 24 | 0 | 13 | 2 | 0 | 1 |
| Winslow | 24 | 1 | 7 | 16 | 1 | 14 | 4 | 1 | 6 |
| Pinetop-Lakeside | 96 | 0 | 29 | 67 | 0 | 36 | 7 | 0 | 2 |
| TOTAL | 1,108 | 25 | 333 | 750 | 30 | 529 | 62 | 7 | 71 |

| | | | | | | | | | |
|--------------|---------------|-----------|--------------|--------------|------------|--------------|------------|-----------|------------|
| Pima County | 3,667 | 37 | 1,097 | 2,533 | 44 | 1,569 | 208 | 7 | 132 |
| South Tucson | 111 | 0 | 48 | 63 | 0 | 74 | 2 | 0 | 0 |
| Tucson | 6,410 | 49 | 3,060 | 3,301 | 54 | 4,465 | 426 | 18 | 307 |
| Sahuarita | 210 | 0 | 67 | 143 | 0 | 112 | 13 | 0 | 7 |
| Oro Valley | 457 | 4 | 150 | 303 | 4 | 197 | 12 | 1 | 3 |
| Marana | 791 | 8 | 169 | 614 | 10 | 228 | 11 | 4 | 5 |
| TOTAL | 11,646 | 98 | 4,591 | 6,957 | 112 | 6,645 | 672 | 30 | 454 |

| | | | | | | | | | |
|-----------------|--------------|-----------|--------------|--------------|-----------|--------------|------------|-----------|------------|
| Pinal County | 2,291 | 37 | 729 | 1,525 | 41 | 1,137 | 125 | 11 | 95 |
| Casa Grande | 760 | 6 | 219 | 535 | 6 | 313 | 34 | 2 | 27 |
| Coolidge | 177 | 3 | 47 | 127 | 3 | 86 | 13 | 2 | 8 |
| Eloy | 114 | 1 | 35 | 78 | 3 | 61 | 3 | 0 | 4 |
| Florence | 98 | 0 | 35 | 63 | 0 | 58 | 3 | 0 | 6 |
| Kearny | 6 | 1 | 2 | 3 | 1 | 4 | 0 | 0 | 0 |
| Mammoth | 2 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 |
| Superior | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| Apache Junction | 487 | 5 | 157 | 325 | 5 | 216 | 27 | 2 | 14 |
| Maricopa | 284 | 3 | 70 | 211 | 3 | 95 | 11 | 1 | 9 |
| TOTAL | 4,220 | 56 | 1,295 | 2,869 | 62 | 1,971 | 217 | 18 | 163 |

| | | | | | | | | | |
|-------------------|------------|----------|------------|------------|----------|------------|-----------|----------|-----------|
| Santa Cruz County | 336 | 3 | 99 | 234 | 3 | 147 | 16 | 0 | 11 |
| Nogales | 213 | 0 | 40 | 173 | 0 | 52 | 5 | 0 | 2 |
| Patagonia | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 552 | 3 | 139 | 410 | 3 | 199 | 21 | 0 | 13 |

| | | | | | | | | | |
|-----------------|--------------|-----------|--------------|--------------|-----------|--------------|------------|----------|------------|
| Yavapai County | 1,768 | 28 | 532 | 1,208 | 34 | 837 | 87 | 6 | 64 |
| Clarkdale | 14 | 0 | 3 | 11 | 0 | 3 | 0 | 0 | 0 |
| Cottonwood | 245 | 0 | 70 | 175 | 0 | 99 | 12 | 0 | 6 |
| Jerome | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 |
| Prescott | 729 | 1 | 220 | 508 | 1 | 294 | 30 | 0 | 25 |
| Prescott Valley | 492 | 3 | 170 | 319 | 3 | 245 | 20 | 0 | 18 |
| Chino Valley | 152 | 1 | 34 | 117 | 1 | 48 | 9 | 0 | 2 |
| Camp Verde | 147 | 1 | 44 | 102 | 1 | 57 | 10 | 0 | 9 |
| Dewey-Humboldt | 29 | 0 | 9 | 20 | 0 | 9 | 1 | 0 | 1 |
| TOTAL | 3,588 | 34 | 1,082 | 2,472 | 40 | 1,592 | 170 | 6 | 125 |

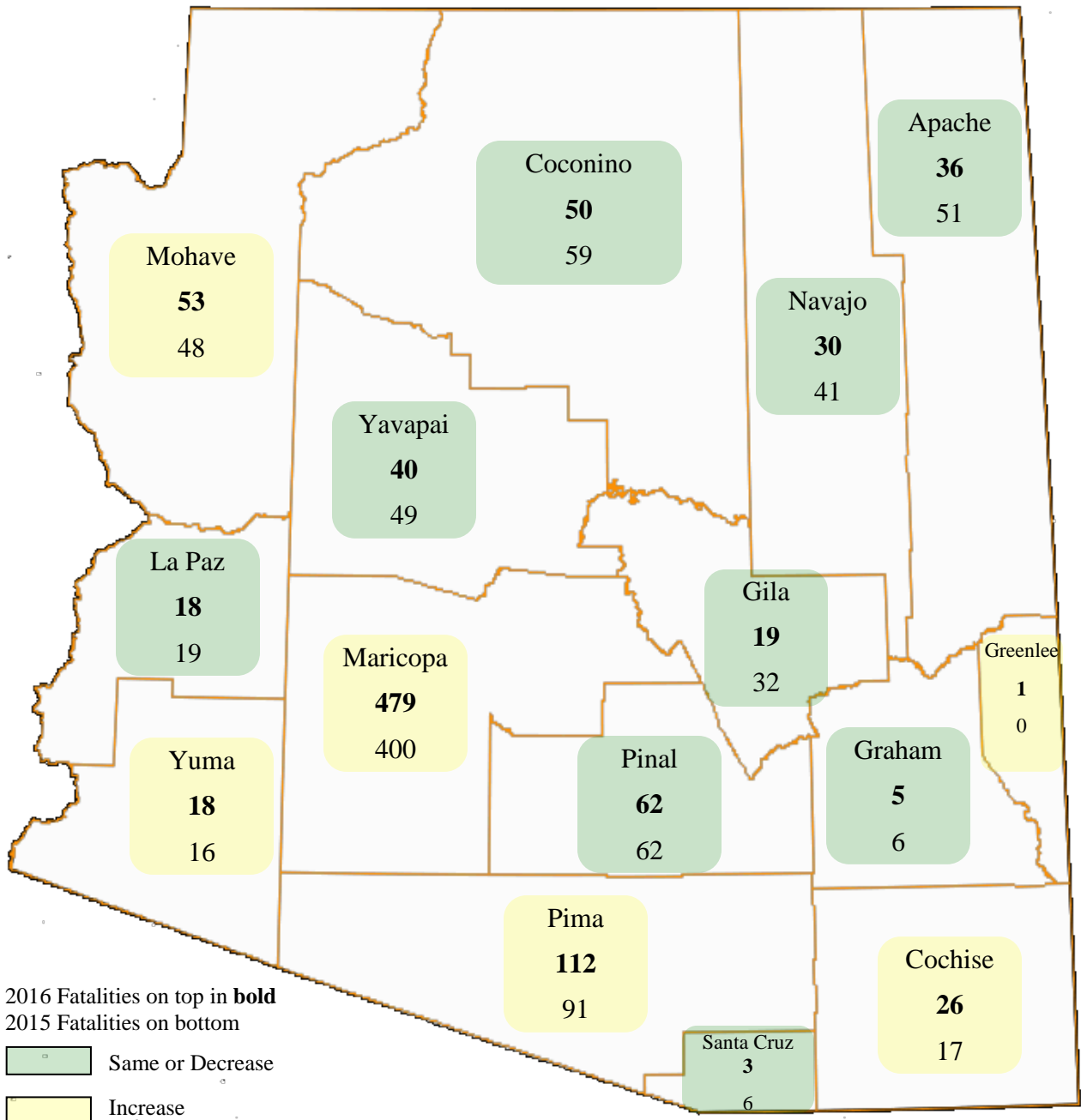
Section 2: – Geographic Location

Table 2 – 5
Analysis by Jurisdiction

| COUNTIES Cities | Number of Crashes | | | | No. of Persons | | Alcohol Related | | |
|--------------------|-------------------|-----------|------------|--------------|----------------|--------------|-----------------|----------|-----------|
| | Total | Fatal | Injury | PDO | Killed | Injured | Crashes | Killed | Injured |
| Yuma County | 720 | 9 | 231 | 480 | 10 | 370 | 31 | 3 | 28 |
| Somerton | 30 | 0 | 9 | 21 | 0 | 13 | 0 | 0 | 0 |
| Yuma | 1,598 | 7 | 581 | 1,010 | 8 | 816 | 90 | 1 | 54 |
| Wellton | 9 | 0 | 2 | 7 | 0 | 5 | 0 | 0 | 0 |
| San Luis | 203 | 0 | 28 | 175 | 0 | 37 | 3 | 0 | 1 |
| TOTAL | 2,560 | 16 | 851 | 1,693 | 18 | 1,241 | 124 | 4 | 83 |

Note: Some individual city data may be incomplete due to lack of timely reporting or changes in crash reporting procedures.

Total Fatalities by County for 2015 and 2016



Section 2: – Geographic Location

Chart 2 – 1

Urban and Rural Crashes by Day of Week

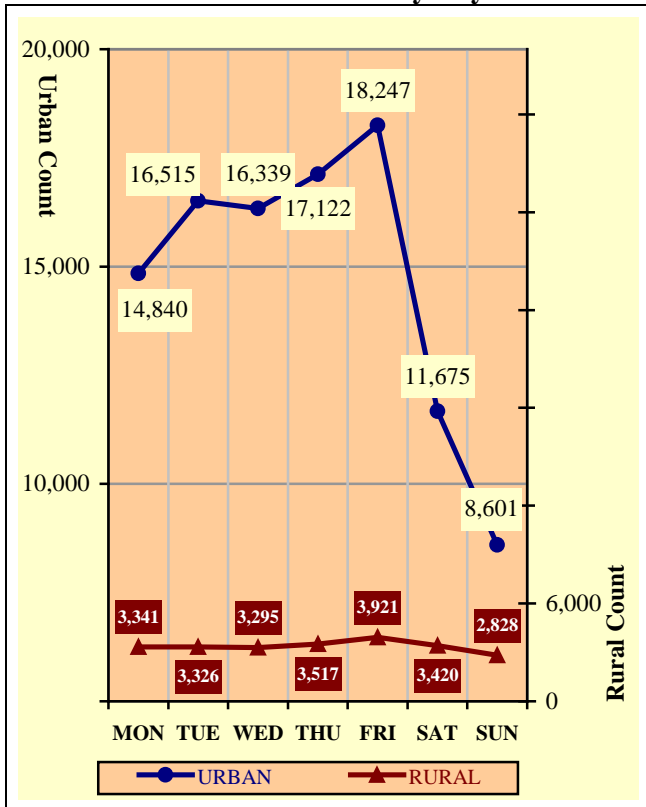


Chart 2 – 2

Urban and Rural Fatal Crashes by Day of Week

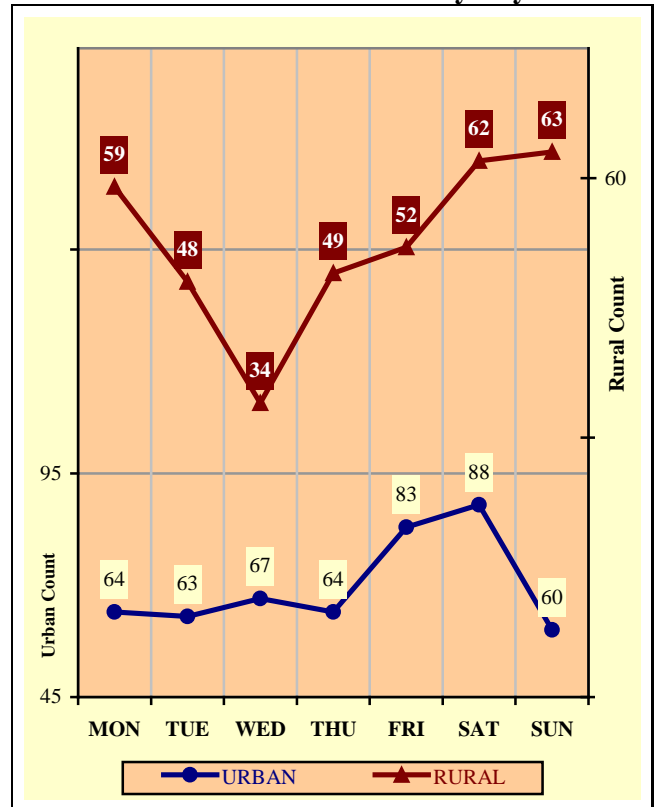
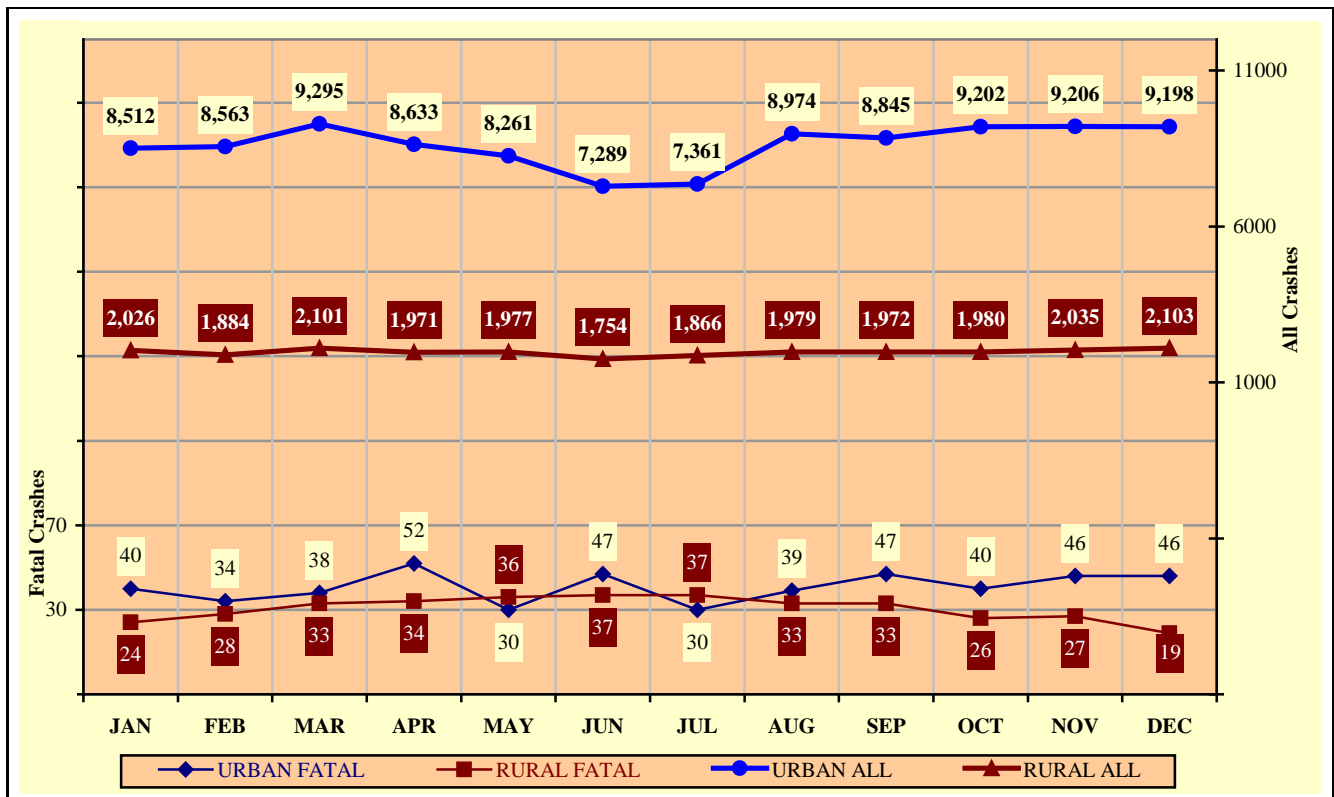


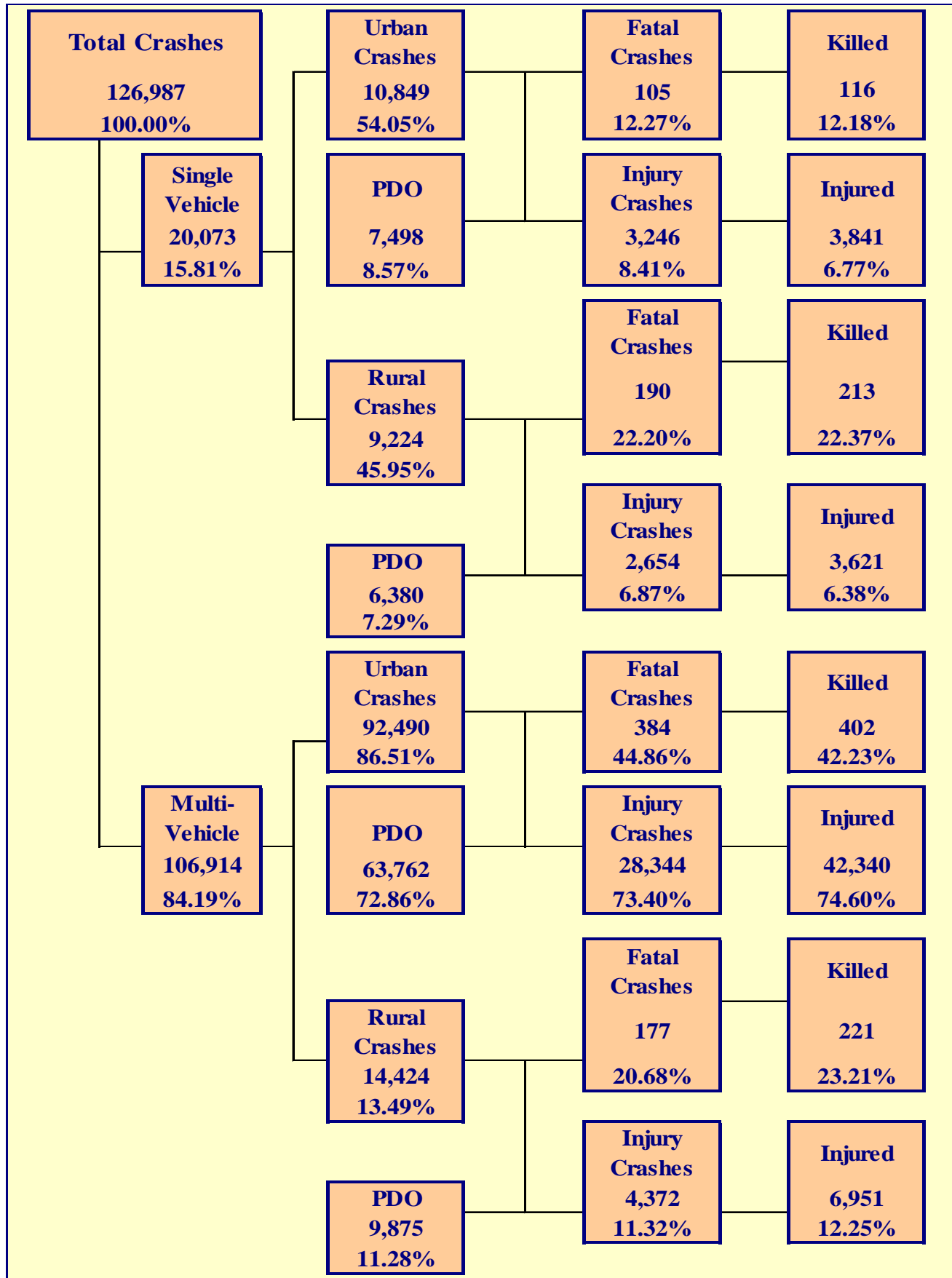
Chart 2 – 3

All Urban and Rural Crashes vs. Urban and Rural Fatal Crashes by Month



Section 3

Crash Descriptions



Section 3: – Crash Descriptions

Table 3 – 1
Manner of Collision in Multi-Vehicle Crashes

| Manner of Collision Type | Number of Crashes | | | | | | | |
|--------------------------|-------------------|--------------------------|------------|--------------------------|---------------|---------------------------|---------------|------------------------|
| | Total | Percent of Total Crashes | Fatal | Percent of Fatal Crashes | Injury | Percent of Injury Crashes | PDO | Percent of PDO Crashes |
| Angle | 15,726 | 14.71% | 80 | 14.26% | 5,736 | 17.53% | 9,910 | 13.46% |
| Left Turn | 16,887 | 15.79% | 60 | 10.70% | 6,747 | 20.62% | 10,080 | 13.69% |
| Rear End | 48,319 | 45.19% | 61 | 10.87% | 14,166 | 43.30% | 34,092 | 46.30% |
| Head-On | 1,854 | 1.73% | 67 | 11.94% | 823 | 2.52% | 964 | 1.31% |
| Sideswipe (same) | 15,275 | 14.29% | 26 | 4.63% | 1,792 | 5.48% | 13,457 | 18.27% |
| Sideswipe (opposite) | 1,563 | 1.46% | 10 | 1.78% | 364 | 1.11% | 1,189 | 1.61% |
| Rear to Side | 791 | 0.74% | 0 | 0.00% | 51 | 0.16% | 740 | 1.00% |
| Rear to Rear | 657 | 0.61% | 0 | 0.00% | 141 | 0.43% | 516 | 0.70% |
| Other | 5,134 | 4.80% | 250 | 44.56% | 2,787 | 8.52% | 2,097 | 2.85% |
| Unknown | 708 | 0.66% | 7 | 1.25% | 109 | 0.33% | 592 | 0.80% |
| TOTAL | 106,914 | 100.00% | 561 | 100.00% | 32,716 | 100.00% | 73,637 | 100.00% |

Table 3 – 2
Lighting Conditions

| Type of Lighting Conditions | Number of Crashes | | | | Number of Persons | |
|-----------------------------|-------------------|------------|---------------|---------------|-------------------|---------------|
| | Total | Fatal | Injury | PDO | Killed | Injured |
| Daylight | 89,847 | 378 | 27,463 | 62,006 | 428 | 40,305 |
| Dawn | 2,208 | 31 | 631 | 1,546 | 33 | 903 |
| Dusk | 3,594 | 22 | 1,127 | 2,445 | 23 | 1,694 |
| Dark - Lighted | 23,568 | 250 | 7,261 | 16,057 | 267 | 10,735 |
| Dark - Not Lighted | 7,174 | 134 | 2,039 | 5,001 | 157 | 2,974 |
| Dark - Unknown Lighting | 596 | 41 | 95 | 460 | 44 | 142 |
| TOTAL | 126,987 | 856 | 38,616 | 87,515 | 952 | 56,753 |

Table 3 – 3
Weather Conditions

| Type of Weather Conditions | Number of Crashes | | | | Number of Persons | |
|----------------------------|-------------------|------------|---------------|---------------|-------------------|---------------|
| | Total | Fatal | Injury | PDO | Killed | Injured |
| Clear | 110,051 | 694 | 33,670 | 75,687 | 772 | 49,501 |
| Cloudy | 10,956 | 78 | 3,389 | 7,489 | 84 | 4,986 |
| Sleet/Hail | 159 | 2 | 42 | 115 | 3 | 80 |
| Rain | 4,357 | 20 | 1,219 | 3,118 | 25 | 1,749 |
| Snow | 572 | 1 | 97 | 474 | 1 | 147 |
| Severe Crosswinds | 87 | 0 | 32 | 55 | 0 | 44 |
| Blowing Sand, Soil, Dirt | 105 | 1 | 33 | 71 | 1 | 51 |
| Fog, Smog, Smoke | 42 | 2 | 11 | 29 | 2 | 22 |
| Blowing Snow | 21 | 0 | 6 | 15 | 0 | 9 |
| Other | 83 | 0 | 23 | 60 | 0 | 34 |
| Unknown | 554 | 58 | 94 | 402 | 64 | 130 |
| TOTAL | 126,987 | 856 | 38,616 | 87,515 | 952 | 56,753 |

Section 3: – Crash Descriptions

Table 3 – 4
Road Surface Conditions

| Type of Road Surface Condition | Number of Drivers | | | | Number of Persons | |
|--------------------------------|-------------------|------------------|-------------------|----------------|-------------------|---------------|
| | Total | In Fatal Crashes | In Injury Crashes | In PDO Crashes | Killed | Injured |
| Dry | 232,213 | 1,206 | 72,526 | 158,481 | 840 | 53,648 |
| Wet | 10,447 | 41 | 3,010 | 7,396 | 29 | 2,330 |
| Snow | 728 | 1 | 114 | 613 | 1 | 109 |
| Slush | 154 | 2 | 55 | 97 | 1 | 75 |
| Ice/Frost | 477 | 3 | 88 | 386 | 4 | 89 |
| Water (standing or moving) | 281 | 1 | 84 | 196 | 1 | 79 |
| Sand | 60 | 4 | 20 | 36 | 3 | 29 |
| Mud, Dirt, Gravel | 432 | 13 | 135 | 284 | 13 | 174 |
| Oil | 27 | 0 | 15 | 12 | 0 | 15 |
| Other | 87 | 8 | 13 | 66 | 3 | 19 |
| Unknown | 2,402 | 59 | 432 | 1,911 | 57 | 186 |
| TOTAL | 247,308 | 1,338 | 76,492 | 169,478 | 952 | 56,753 |

Table 3 – 5
Roadway Grade

| Type of Roadway Grade | Number of Drivers | | | | Number of Persons | |
|-----------------------|-------------------|------------------|-------------------|----------------|-------------------|---------------|
| | Total | In Fatal Crashes | In Injury Crashes | In PDO Crashes | Killed | Injured |
| Level | 229,576 | 1,090 | 71,228 | 157,258 | 745 | 52,318 |
| Downhill | 8,214 | 106 | 2,574 | 5,534 | 82 | 2,334 |
| Uphill | 6,602 | 59 | 1,994 | 4,549 | 45 | 1,622 |
| Hillcrest | 494 | 11 | 178 | 305 | 8 | 170 |
| Sag/Dip/Bottom | 202 | 6 | 82 | 114 | 9 | 94 |
| Unknown | 2,220 | 66 | 436 | 1,718 | 63 | 215 |
| TOTAL | 247,308 | 1,338 | 76,492 | 169,478 | 952 | 56,753 |

Table 3 – 6
Roadway Alignment

| Type of Roadway Alignment | Number of Drivers | | | | Number of Persons | |
|---------------------------|-------------------|------------------|-------------------|----------------|-------------------|---------------|
| | Total | In Fatal Crashes | In Injury Crashes | In PDO Crashes | Killed | Injured |
| Straight | 230,130 | 1,098 | 71,753 | 157,279 | 740 | 52,593 |
| Curve Left | 6,030 | 94 | 1,716 | 4,220 | 77 | 1,706 |
| Curve Right | 6,285 | 79 | 1,867 | 4,339 | 72 | 1,722 |
| Unknown | 4,863 | 67 | 1,156 | 3,640 | 63 | 732 |
| TOTAL | 247,308 | 1,338 | 76,492 | 169,478 | 952 | 56,753 |

Section 3: – Crash Descriptions

Chart 3 – 1
All Crashes vs. Fatal Crashes by Time of Day - Weekdays

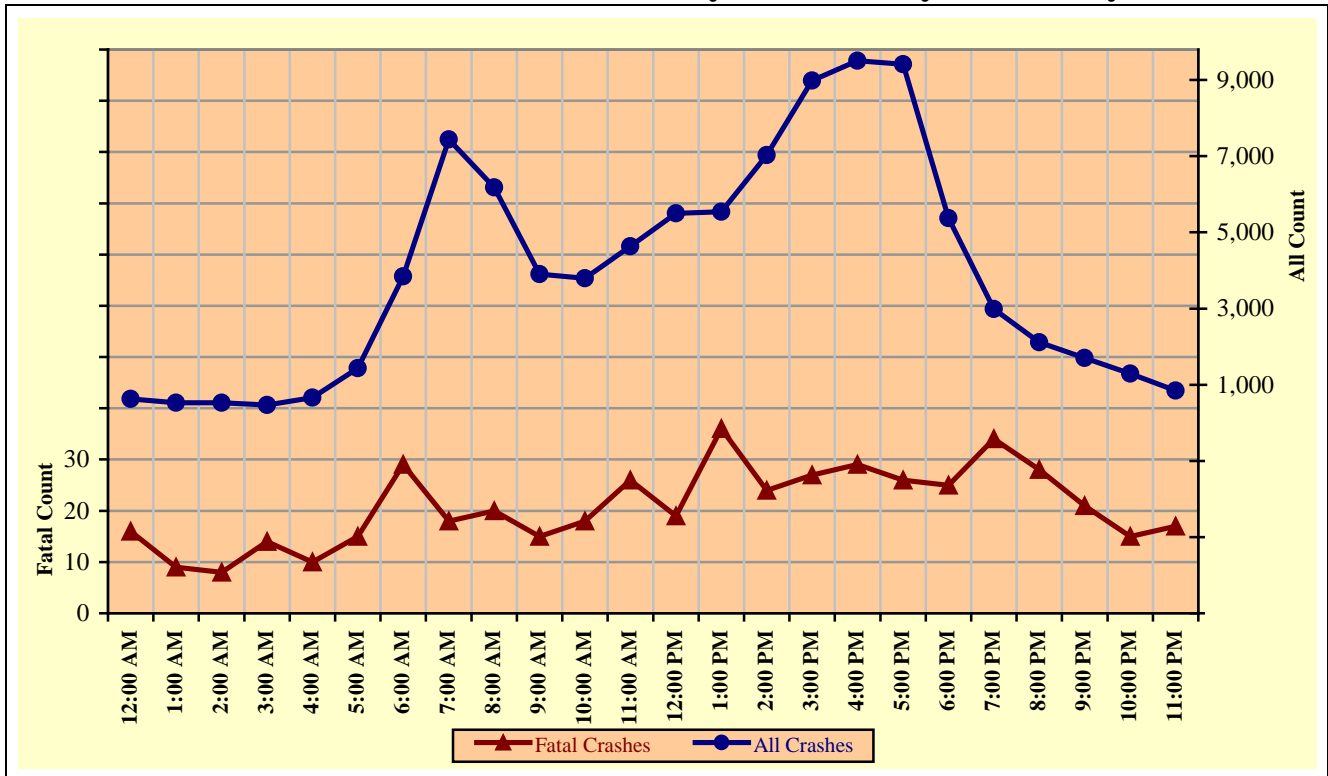
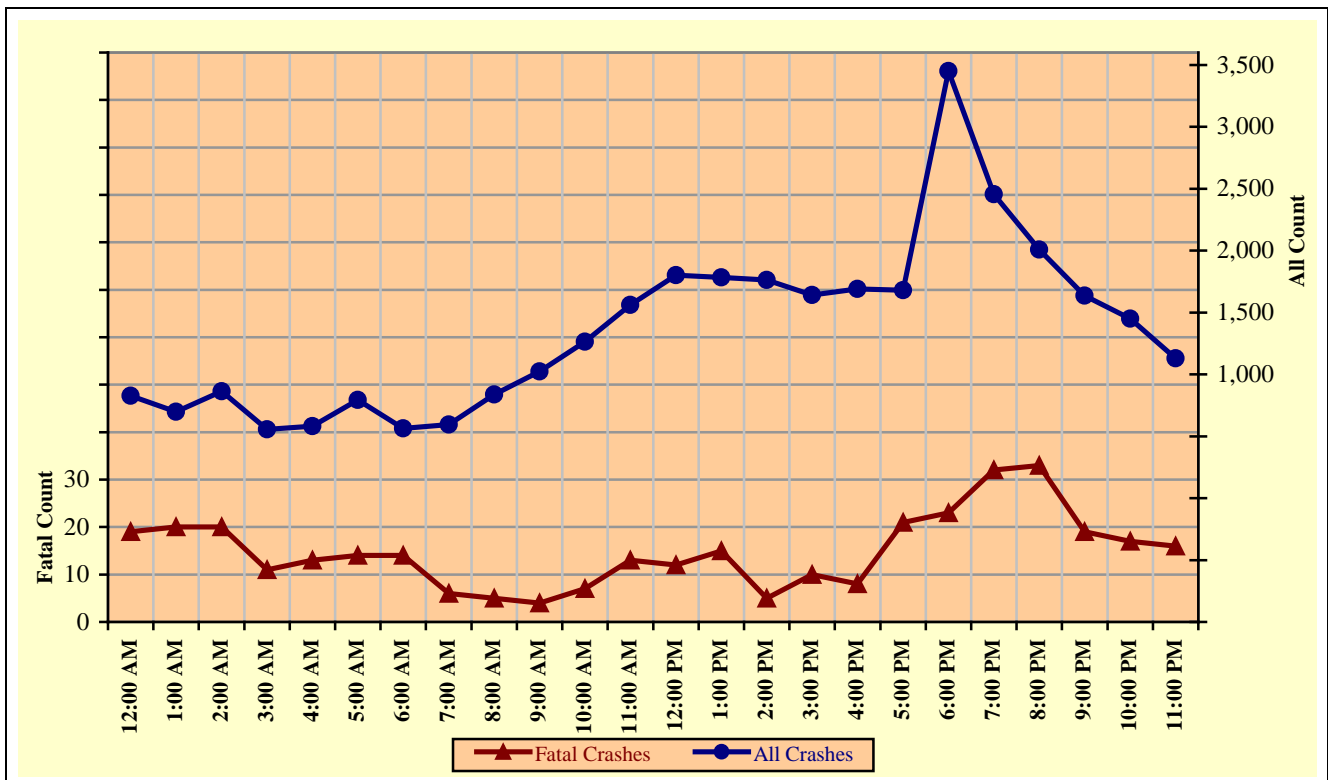


Chart 3 – 2
All Crashes vs. Fatal Crashes by Time of Day - Weekends



Section 3: – Crash Descriptions

Chart 3 – 3
Crashes by Day of Week

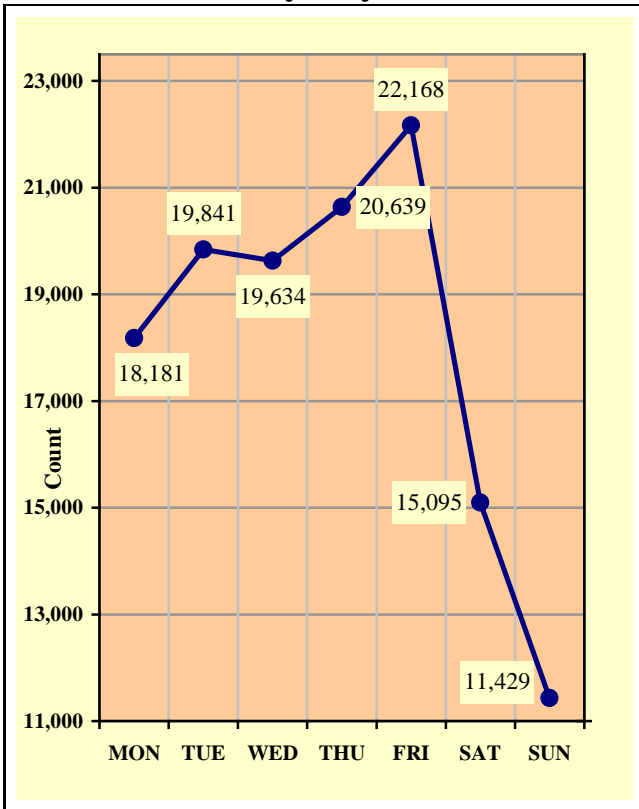


Chart 3 – 4
Fatal Crashes by Day of Week

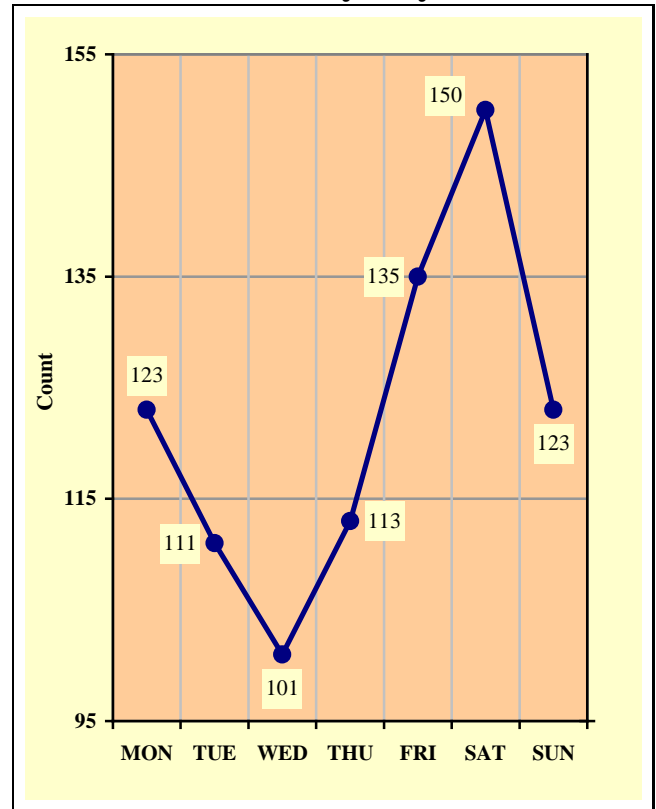
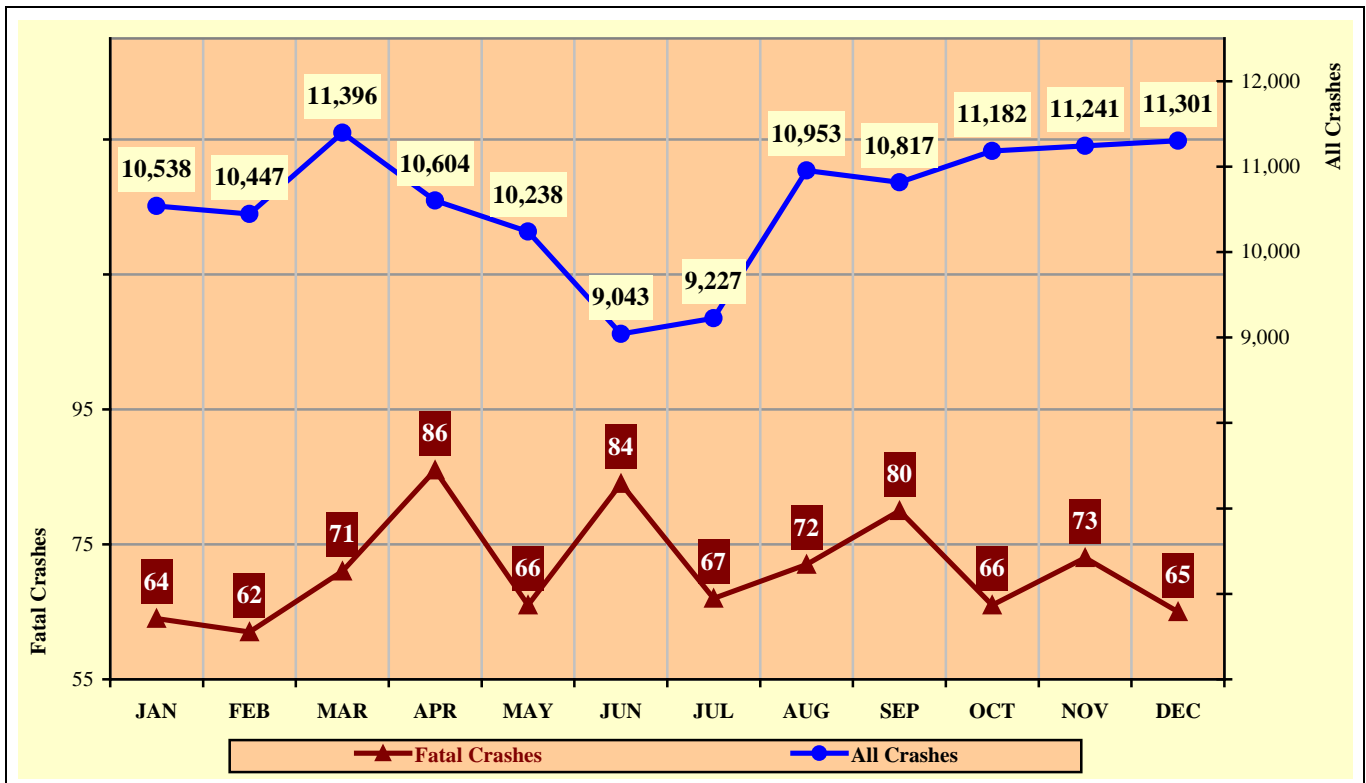


Chart 3 – 5
All Crashes vs. Fatal Crashes by Month



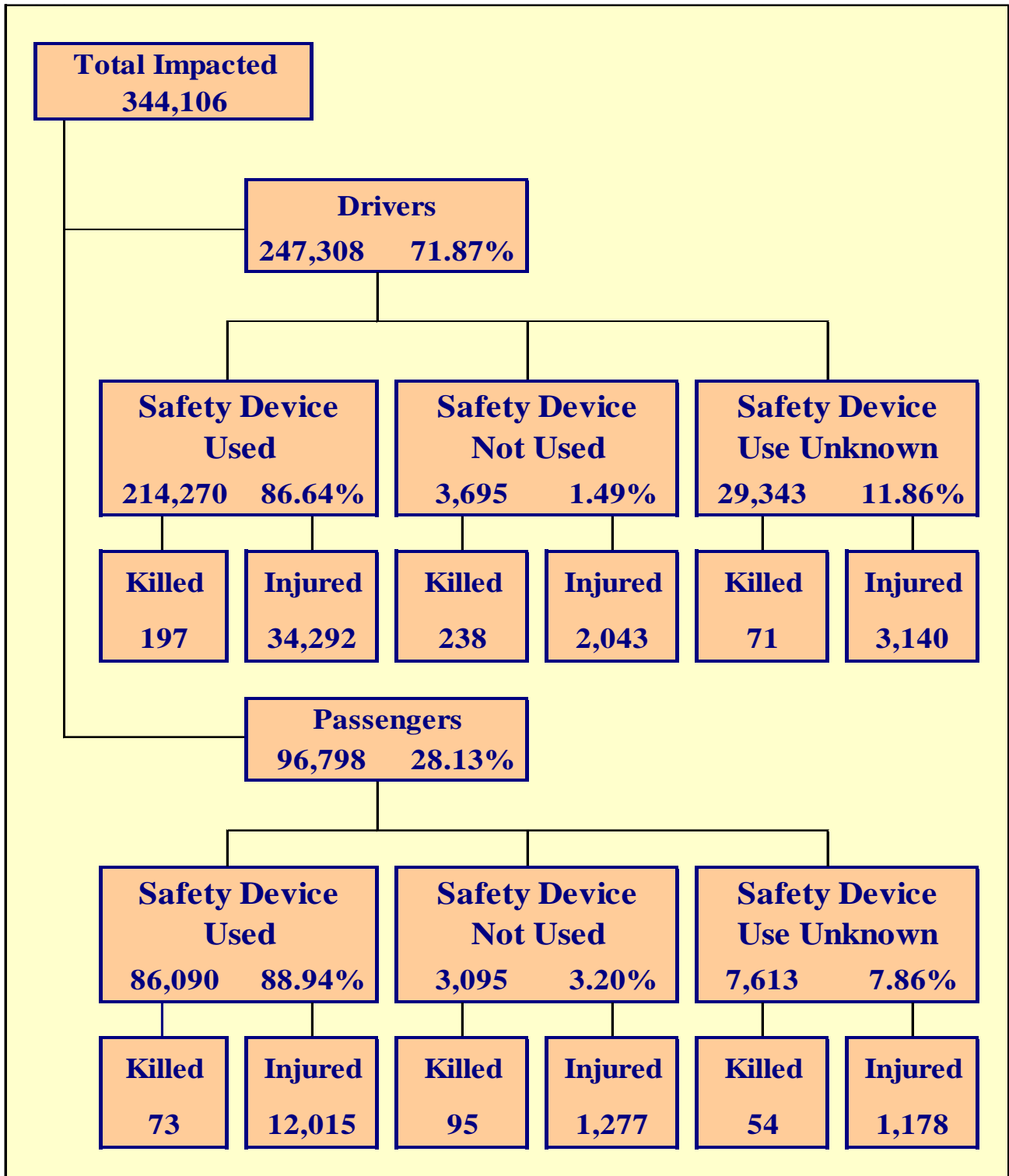
Section 3: – Crash Descriptions

**Table 3 – 7
Crashes by Hour and Day of Week**

| Hour Beginning | Total Crashes | | Monday | | Tuesday | | Wednesday | | Thursday | | Friday | | Saturday | | Sunday | | Weekdays | | Weekends | |
|----------------|----------------|------------|---------------|------------|---------------|------------|---------------|------------|---------------|------------|---------------|------------|---------------|------------|---------------|------------|---------------|------------|---------------|------------|
| | All | Fatal | All | Fatal | All | Fatal | All | Fatal | All | Fatal | All | Fatal | All | Fatal | All | Fatal | All | Fatal | All | Fatal |
| 12:00 AM | 1,452 | 35 | 154 | 2 | 132 | 7 | 133 | 1 | 185 | 5 | 176 | 3 | 341 | 6 | 331 | 11 | 626 | 16 | 826 | 19 |
| 1:00 AM | 1,228 | 29 | 128 | 1 | 102 | 3 | 110 | 1 | 127 | 2 | 191 | 3 | 270 | 9 | 300 | 10 | 530 | 9 | 698 | 20 |
| 2:00 AM | 1,387 | 28 | 170 | 6 | 107 | 1 | 102 | 1 | 129 | 3 | 187 | 3 | 349 | 10 | 343 | 4 | 525 | 8 | 862 | 20 |
| 3:00 AM | 1,024 | 25 | 113 | 3 | 98 | 3 | 93 | 3 | 120 | 3 | 158 | 5 | 220 | 6 | 222 | 2 | 469 | 14 | 555 | 11 |
| 4:00 AM | 1,243 | 23 | 157 | 5 | 143 | 2 | 162 | 3 | 170 | 1 | 187 | 4 | 228 | 5 | 196 | 3 | 662 | 10 | 581 | 13 |
| 5:00 AM | 2,228 | 29 | 317 | 8 | 371 | 4 | 344 | 4 | 382 | 5 | 338 | 2 | 278 | 2 | 198 | 4 | 1,435 | 15 | 793 | 14 |
| 6:00 AM | 4,408 | 43 | 731 | 7 | 849 | 4 | 811 | 8 | 797 | 5 | 657 | 5 | 298 | 7 | 265 | 7 | 3,845 | 29 | 563 | 14 |
| 7:00 AM | 8,033 | 24 | 1,379 | 7 | 1,690 | 5 | 1,607 | 2 | 1,473 | 2 | 1,290 | 2 | 351 | 5 | 243 | 1 | 7,439 | 18 | 594 | 6 |
| 8:00 AM | 7,016 | 25 | 1,142 | 4 | 1,365 | 8 | 1,340 | 5 | 1,247 | 2 | 1,085 | 1 | 521 | 5 | 316 | 0 | 6,179 | 20 | 837 | 5 |
| 9:00 AM | 4,926 | 19 | 694 | 3 | 801 | 3 | 768 | 2 | 814 | 1 | 825 | 6 | 600 | 3 | 424 | 1 | 3,902 | 15 | 1,024 | 4 |
| 10:00 AM | 5,063 | 25 | 757 | 6 | 740 | 3 | 734 | 3 | 764 | 4 | 803 | 2 | 761 | 3 | 504 | 4 | 3,798 | 18 | 1,265 | 7 |
| 11:00 AM | 6,197 | 39 | 872 | 8 | 892 | 9 | 866 | 3 | 956 | 1 | 1,051 | 5 | 921 | 1 | 639 | 12 | 4,637 | 26 | 1,560 | 13 |
| 12:00 PM | 7,302 | 31 | 993 | 4 | 1,035 | 0 | 1,033 | 4 | 1,079 | 3 | 1,360 | 8 | 1,085 | 6 | 717 | 6 | 5,500 | 19 | 1,802 | 12 |
| 1:00 PM | 7,321 | 51 | 991 | 9 | 982 | 8 | 1,132 | 11 | 1,112 | 4 | 1,322 | 4 | 1,044 | 10 | 738 | 5 | 5,539 | 36 | 1,782 | 15 |
| 2:00 PM | 8,790 | 29 | 1,392 | 5 | 1,304 | 5 | 1,360 | 4 | 1,333 | 5 | 1,638 | 5 | 1,019 | 3 | 744 | 2 | 7,027 | 24 | 1,763 | 5 |
| 3:00 PM | 10,628 | 37 | 1,590 | 8 | 1,829 | 4 | 1,685 | 6 | 1,891 | 5 | 1,993 | 4 | 925 | 5 | 715 | 5 | 8,988 | 27 | 1,640 | 10 |
| 4:00 PM | 11,199 | 37 | 1,716 | 4 | 1,907 | 6 | 1,863 | 3 | 1,986 | 10 | 2,037 | 6 | 938 | 4 | 752 | 4 | 9,509 | 29 | 1,690 | 8 |
| 5:00 PM | 11,097 | 47 | 1,703 | 3 | 1,939 | 6 | 1,867 | 5 | 2,119 | 4 | 1,788 | 8 | 938 | 10 | 743 | 11 | 9,416 | 26 | 1,681 | 21 |
| 6:00 PM | 8,819 | 48 | 1,141 | 1 | 1,360 | 5 | 1,383 | 9 | 1,486 | 10 | 1,645 | 12 | 1,028 | 8 | 776 | 3 | 5,370 | 25 | 3,449 | 23 |
| 7:00 PM | 5,446 | 66 | 662 | 9 | 732 | 7 | 730 | 8 | 866 | 10 | 996 | 12 | 793 | 14 | 667 | 6 | 2,990 | 34 | 2,456 | 32 |
| 8:00 PM | 4,126 | 61 | 493 | 8 | 552 | 5 | 519 | 6 | 554 | 9 | 781 | 12 | 662 | 12 | 565 | 9 | 2,118 | 28 | 2,008 | 33 |
| 9:00 PM | 3,338 | 40 | 407 | 4 | 406 | 6 | 434 | 5 | 455 | 6 | 636 | 6 | 563 | 8 | 437 | 5 | 1,702 | 21 | 1,636 | 19 |
| 10:00 PM | 2,744 | 32 | 283 | 3 | 306 | 3 | 341 | 2 | 364 | 7 | 591 | 6 | 524 | 6 | 335 | 5 | 1,294 | 15 | 1,450 | 17 |
| 11:00 PM | 1,972 | 33 | 196 | 5 | 199 | 4 | 217 | 2 | 230 | 6 | 433 | 11 | 438 | 2 | 259 | 3 | 842 | 17 | 1,130 | 16 |
| TOTAL | 126,987 | 856 | 18,181 | 123 | 19,841 | 111 | 19,634 | 101 | 20,639 | 113 | 22,168 | 135 | 15,095 | 150 | 11,429 | 123 | 94,342 | 499 | 32,645 | 357 |

Crashes during Weekends accounted for 25.71% of all crashes and 41.71% of Fatal Crashes.

Crashes during Weekdays accounted for 74.29% of all crashes and 58.29% of Fatal Crashes.



Section 4: – Safety Devices

**Table 4 – 1
Child Safety Device Usage (less than five years old)**

| Severity of Injury | Safety Device Used | Percent of Safety Device Used | Safety Device Not Used | Percent of Safety Device Not Used | Safety Device Use Unknown | Percent of Unknown |
|---------------------------|--------------------|-------------------------------|------------------------|-----------------------------------|---------------------------|--------------------|
| No Injury | 11,677 | 91.07% | 118 | 67.82% | 239 | 72.21% |
| Unknown Injury | 136 | 1.06% | 2 | 1.15% | 53 | 16.01% |
| Possible Injury | 674 | 5.26% | 16 | 9.20% | 17 | 5.14% |
| Non-Incapacitating Injury | 288 | 2.25% | 26 | 14.94% | 15 | 4.53% |
| Incapacitating Injury | 44 | 0.34% | 9 | 5.17% | 2 | 0.60% |
| Fatal Injury | 3 | 0.02% | 3 | 1.72% | 5 | 1.51% |
| TOTALS | 12,822 | 100.00% | 174 | 100.00% | 331 | 100.00% |

**Table 4 – 2
Driver Safety Device Usage**

| Severity of Injury | Safety Device Used | Percent of Safety Device Used | Safety Device Not Used | Percent of Safety Device Not Used | Safety Device Use Unknown | Percent of Unknown |
|---------------------------|--------------------|-------------------------------|------------------------|-----------------------------------|---------------------------|--------------------|
| No Injury | 178,542 | 83.33% | 1,367 | 37.00% | 14,866 | 50.66% |
| Unknown Injury | 1,239 | 0.58% | 47 | 1.27% | 11,266 | 38.39% |
| Possible Injury | 19,707 | 9.20% | 574 | 15.53% | 1,293 | 4.41% |
| Non-Incapacitating Injury | 12,691 | 5.92% | 979 | 26.50% | 1,340 | 4.57% |
| Incapacitating Injury | 1,894 | 0.88% | 490 | 13.26% | 507 | 1.73% |
| Fatal Injury | 197 | 0.09% | 238 | 6.44% | 71 | 0.24% |
| TOTALS | 214,270 | 100.00% | 3,695 | 100.00% | 29,343 | 100.00% |

**Table 4 – 3
Passenger Safety Device Usage**

| Severity of Injury | Safety Device Used | Percent of Safety Device Used | Safety Device Not Used | Percent of Safety Device Not Used | Safety Device Use Unknown | Percent of Unknown |
|---------------------------|--------------------|-------------------------------|------------------------|-----------------------------------|---------------------------|--------------------|
| No Injury | 73,232 | 85.06% | 1,693 | 54.70% | 5,181 | 68.05% |
| Unknown Injury | 770 | 0.89% | 30 | 0.97% | 1,200 | 15.76% |
| Possible Injury | 7,348 | 8.54% | 430 | 13.89% | 534 | 7.01% |
| Non-Incapacitating Injury | 4,042 | 4.70% | 607 | 19.61% | 466 | 6.12% |
| Incapacitating Injury | 625 | 0.73% | 240 | 7.75% | 178 | 2.34% |
| Fatal Injury | 73 | 0.08% | 95 | 3.07% | 54 | 0.71% |
| TOTALS | 86,090 | 100.00% | 3,095 | 100.00% | 7,613 | 100.00% |

Section 4: – Safety Devices

**Table 4 – 4
Driver Safety Device Usage by Gender**

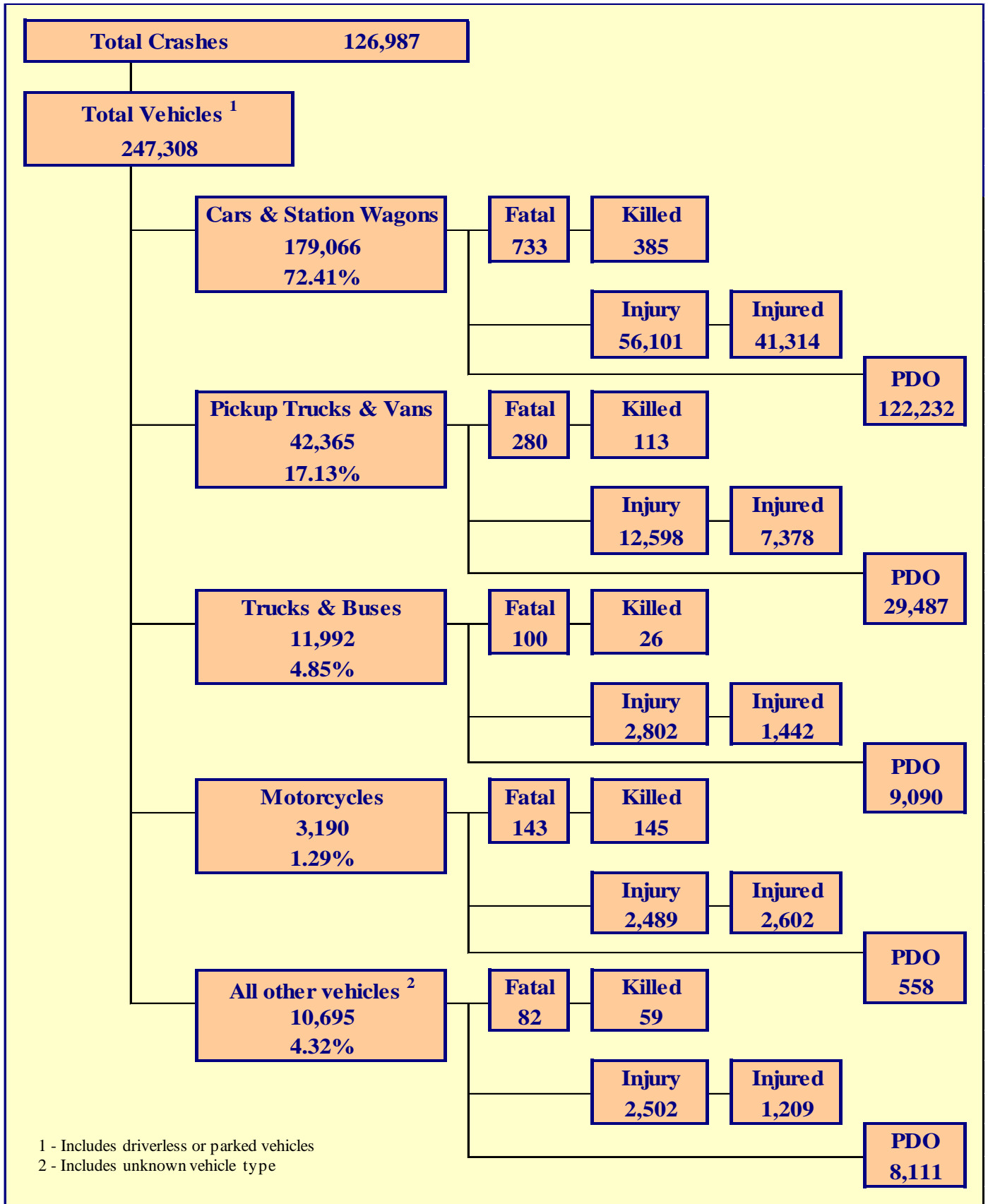
| Gender of Driver | Number of Drivers | | | | | | | Total | Percent of Total |
|------------------|--------------------|-------------------------------|------------------------|-----------------------------------|---------------------------|--------------------|----------------|----------------|------------------|
| | Safety Device Used | Percent of Safety Device Used | Safety Device Not Used | Percent of Safety Device Not Used | Safety Device Use Unknown | Percent of Unknown | | | |
| Male | 119,706 | 55.87% | 2,656 | 71.88% | 10,034 | 34.20% | 132,396 | 53.53% | |
| Female | 94,408 | 44.06% | 1,015 | 27.47% | 4,781 | 16.29% | 100,204 | 40.52% | |
| Unknown | 156 | 0.07% | 24 | 0.65% | 14,528 | 49.51% | 14,708 | 5.95% | |
| TOTAL | 214,270 | 100.00% | 3,695 | 100.00% | 29,343 | 100.00% | 247,308 | 100.00% | |

**Table 4 – 5
Driver Safety Device Usage by Age**

| Driver Age Group | Number of Drivers | | | | | | | Total | Percent of Total |
|-----------------------|--------------------|-------------------------------|------------------------|-----------------------------------|---------------------------|--------------------|----------------|----------------|------------------|
| | Safety Device Used | Percent of Safety Device Used | Safety Device Not Used | Percent of Safety Device Not Used | Safety Device Use Unknown | Percent of Unknown | | | |
| 15 & Under | 238 | 0.11% | 34 | 0.92% | 63 | 0.21% | 335 | 0.14% | |
| 16 | 2,823 | 1.32% | 40 | 1.08% | 161 | 0.55% | 3,024 | 1.22% | |
| 17 | 4,368 | 2.04% | 76 | 2.06% | 232 | 0.79% | 4,676 | 1.89% | |
| 18 | 5,906 | 2.76% | 140 | 3.79% | 369 | 1.26% | 6,415 | 2.59% | |
| 19 | 6,618 | 3.09% | 142 | 3.84% | 422 | 1.44% | 7,182 | 2.90% | |
| 20 | 6,584 | 3.07% | 141 | 3.82% | 382 | 1.30% | 7,107 | 2.87% | |
| 21 | 6,425 | 3.00% | 137 | 3.71% | 419 | 1.43% | 6,981 | 2.82% | |
| 22 | 6,163 | 2.88% | 145 | 3.92% | 380 | 1.30% | 6,688 | 2.70% | |
| 23 | 6,110 | 2.85% | 150 | 4.06% | 403 | 1.37% | 6,663 | 2.69% | |
| 24 | 5,953 | 2.78% | 120 | 3.25% | 410 | 1.40% | 6,483 | 2.62% | |
| 25-34 | 48,018 | 22.41% | 892 | 24.14% | 3,079 | 10.49% | 51,989 | 21.02% | |
| 35-44 | 36,633 | 17.10% | 509 | 13.78% | 2,142 | 7.30% | 39,284 | 15.88% | |
| 45-54 | 32,234 | 15.04% | 479 | 12.96% | 1,825 | 6.22% | 34,538 | 13.97% | |
| 55-64 | 24,205 | 11.30% | 367 | 9.93% | 1,299 | 4.43% | 25,871 | 10.46% | |
| 65-74 | 13,932 | 6.50% | 175 | 4.74% | 716 | 2.44% | 14,823 | 5.99% | |
| 75 & Older | 7,193 | 3.36% | 85 | 2.30% | 375 | 1.28% | 7,653 | 3.09% | |
| Unknown | 867 | 0.40% | 63 | 1.71% | 16,666 | 56.80% | 17,596 | 7.12% | |
| TOTAL | 214,270 | 100.00% | 3,695 | 100.00% | 29,343 | 100.00% | 247,308 | 100.00% | |

Section 5

Motor Vehicle and Driver Descriptions



Section 5: – Motor Vehicle and Driver Descriptions

Table 5 – 1
Arizona Motor Vehicle Registrations

| | |
|--|------------------|
| Privately Owned Vehicles | 4,944,715 |
| Commercial Vehicles | 525,385 |
| Buses and Taxis | 3,280 |
| Motorcycles | 203,498 |
| Mopeds | 330 |
| TOTAL | 5,677,208 |
| Source: MVD - MV988 MV630419, Currently Registered Vehicles by County Listing, dated 12/31/2016. | |

Table 5 – 2
Motor Vehicle Crash Involvement by Vehicle Type

| Motor Vehicle Type | Number of Vehicles | | | | |
|--|--------------------|------------------|------------------|-------------------|----------------|
| | Total | Percent of Total | In Fatal Crashes | In Injury Crashes | In PDO Crashes |
| Passenger Cars (Sedans, Convertibles, etc.) | 129,362 | 52.308% | 444 | 40,375 | 88,543 |
| Station Wagons | 49,704 | 20.098% | 289 | 15,726 | 33,689 |
| Pickup Trucks | 38,149 | 15.426% | 258 | 11,200 | 26,691 |
| Vans | 4,216 | 1.705% | 22 | 1,398 | 2,796 |
| Truck Tractor (with or without Semi-Trailer) | 2,520 | 1.019% | 52 | 619 | 1,849 |
| Concrete Mixer Trucks | 58 | 0.023% | 2 | 11 | 45 |
| Dump Trucks | 204 | 0.082% | 1 | 42 | 161 |
| Garbage Trucks | 132 | 0.053% | 1 | 30 | 101 |
| Tanker Trucks | 40 | 0.016% | 0 | 8 | 32 |
| Wrecker or Tow Trucks | 132 | 0.053% | 5 | 42 | 85 |
| Other Truck Combinations | 7,788 | 3.149% | 30 | 1,805 | 5,953 |
| School Bus | 228 | 0.092% | 2 | 50 | 176 |
| Commercial or Non-Commercial Bus | 890 | 0.360% | 7 | 195 | 688 |
| Motorcycle (two or three wheel) | 3,190 | 1.290% | 143 | 2,489 | 558 |
| All Terrain Vehicle or Cycle | 170 | 0.069% | 20 | 99 | 51 |
| Moped | 36 | 0.015% | 1 | 32 | 3 |
| Recreational Vehicle | 200 | 0.081% | 3 | 47 | 150 |
| Motor Home or House Car | 116 | 0.047% | 0 | 28 | 88 |
| Fire Trucks | 51 | 0.021% | 0 | 9 | 42 |
| Ambulances | 50 | 0.020% | 0 | 16 | 34 |
| Other Types Of Vehicles | 198 | 0.080% | 8 | 93 | 97 |
| Vehicle Type Unknown | 9,874 | 3.993% | 50 | 2,178 | 7,646 |
| TOTAL | 247,308 | 100.00% | 1,338 | 76,492 | 169,478 |

Section 5: – Motor Vehicle and Driver Descriptions

Table 5 – 3

Hit and Run Drivers Involved in Crashes

| Hit and Run | Number of Crashes | | | | Number of Persons | |
|--------------|-------------------|------------|---------------|---------------|-------------------|---------------|
| | Total | Fatal | Injury | PDO | Killed | Injured |
| Yes | 14,928 | 52 | 2,888 | 11,988 | 52 | 3,756 |
| No | 112,059 | 804 | 35,728 | 75,527 | 900 | 52,997 |
| TOTAL | 126,987 | 856 | 38,616 | 87,515 | 952 | 56,753 |

Table 5 – 4

Gender of Drivers Involved in Crashes

| Gender of Driver | Number of Drivers | | | | | | | |
|------------------|-------------------|------------------|------------------|------------------|-------------------|-------------------|----------------|----------------|
| | Total | Percent of Total | In Fatal Crashes | Percent of Fatal | In Injury Crashes | Percent of Injury | In PDO Crashes | Percent of PDO |
| Male | 132,396 | 53.53% | 917 | 68.54% | 41,128 | 53.77% | 90,351 | 53.31% |
| Female | 100,204 | 40.52% | 343 | 25.64% | 33,041 | 43.20% | 66,820 | 39.43% |
| Unknown | 14,708 | 5.95% | 78 | 5.83% | 2,323 | 3.04% | 12,307 | 7.26% |
| TOTAL | 247,308 | 100.00% | 1,338 | 100.00% | 76,492 | 100.00% | 169,478 | 100.00% |

Table 5 – 5

License Status of Drivers Involved in Crashes

| License Status of Driver | Number of Drivers | | | | | | | |
|--------------------------|-------------------|------------------|------------------|------------------|-------------------|-------------------|----------------|----------------|
| | Total | Percent of Total | In Fatal Crashes | Percent of Fatal | In Injury Crashes | Percent of Injury | In PDO Crashes | Percent of PDO |
| Arizona License | 194,211 | 78.53% | 1,001 | 74.81% | 62,103 | 81.19% | 131,107 | 77.36% |
| All Others* | 53,097 | 21.47% | 337 | 25.19% | 14,389 | 18.81% | 38,371 | 22.64% |
| TOTAL | 247,308 | 100.00% | 1,338 | 100.00% | 76,492 | 100.00% | 169,478 | 100.00% |

*Includes drivers that have a suspended, revoked, out-of-state or country license, as well as drivers with no license or unknown license type

Table 5 – 6

Passengers Killed and Injured by Age and Gender

| Age of Passenger | Passengers Killed | | | Passengers Injured | | | Gender Unknown |
|-----------------------|-------------------|------------|------------|--------------------|--------------|--------------|----------------|
| | Total | Male | Female | Total | Male | Female | |
| 0-4 | 11 | 7 | 4 | 878 | 455 | 423 | 0 |
| 5-9 | 5 | 4 | 1 | 1,153 | 558 | 595 | 0 |
| 10-14 | 10 | 5 | 5 | 1,256 | 522 | 734 | 0 |
| 15-19 | 25 | 11 | 14 | 2,136 | 837 | 1,299 | 0 |
| 20-24 | 30 | 15 | 15 | 1,632 | 691 | 941 | 0 |
| 25-34 | 29 | 16 | 13 | 1,953 | 761 | 1,192 | 0 |
| 35-44 | 23 | 11 | 12 | 1,317 | 463 | 854 | 0 |
| 45-54 | 27 | 20 | 7 | 1,257 | 382 | 875 | 0 |
| 55-64 | 19 | 9 | 10 | 1,086 | 274 | 812 | 0 |
| 65-74 | 12 | 6 | 6 | 804 | 174 | 630 | 0 |
| 75 & Older | 31 | 12 | 19 | 561 | 153 | 408 | 0 |
| Unknown | 0 | 0 | 0 | 437 | 160 | 241 | 36 |
| TOTAL | 222 | 116 | 106 | 14,470 | 5,430 | 9,004 | 36 |

Section 5: – Motor Vehicle and Driver Descriptions

Table 5 – 7

Drivers and Passengers Killed and Injured by Vehicle Type

| Motor Vehicle Type | Number of Drivers | | Number of Passengers | |
|--|-------------------|---------------|----------------------|---------------|
| | Killed | Injured | Killed | Injured |
| Passenger Cars (Sedans, Convertibles, etc.) | 160 | 22,082 | 84 | 7,779 |
| Station Wagons | 88 | 7,962 | 53 | 3,491 |
| Pickup Trucks | 68 | 4,693 | 34 | 1,748 |
| Vans | 9 | 572 | 2 | 365 |
| Truck Tractor (with or without Semi-Trailer) | 11 | 175 | 2 | 51 |
| Concrete Mixer Trucks | 0 | 0 | 0 | 1 |
| Dump Trucks | 0 | 14 | 0 | 5 |
| Garbage Trucks | 0 | 2 | 0 | 1 |
| Tanker Trucks | 0 | 2 | 0 | 0 |
| Wrecker or Tow Trucks | 0 | 13 | 0 | 3 |
| Other Truck Combinations | 4 | 662 | 8 | 309 |
| School Bus | 0 | 11 | 0 | 33 |
| Commercial or Non-Commercial Bus | 0 | 35 | 1 | 125 |
| Motorcycle (two or three wheel) | 135 | 2,426 | 10 | 176 |
| All Terrain Vehicle or Cycle | 15 | 79 | 6 | 52 |
| Moped | 1 | 32 | 0 | 1 |
| Recreational Vehicle | 0 | 20 | 2 | 8 |
| Motor Home or House Car | 0 | 7 | 0 | 11 |
| Fire Trucks | 0 | 1 | 0 | 1 |
| Ambulances | 0 | 4 | 0 | 7 |
| Other Types Of Vehicles | 4 | 72 | 2 | 16 |
| Vehicle Type Unknown | 11 | 611 | 18 | 287 |
| TOTAL | 506 | 39,475 | 222 | 14,470 |

Table 5 – 8

Drivers Killed and Injured by Age and Gender

| Age of Driver | Drivers Killed | | | | Drivers Injured | | | |
|---------------|----------------|------------|------------|----------------|-----------------|---------------|---------------|----------------|
| | Total | Male | Female | Gender Unknown | Total | Male | Female | Gender Unknown |
| 0-4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5-9 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 |
| 10-14 | 2 | 1 | 1 | 0 | 18 | 11 | 7 | 0 |
| 15-19 | 30 | 19 | 11 | 0 | 3,192 | 1,599 | 1,593 | 0 |
| 20-24 | 67 | 59 | 8 | 0 | 5,674 | 2,815 | 2,859 | 0 |
| 25-34 | 85 | 68 | 17 | 0 | 8,681 | 4,256 | 4,425 | 0 |
| 35-44 | 69 | 58 | 11 | 0 | 6,534 | 3,160 | 3,374 | 0 |
| 45-54 | 90 | 73 | 17 | 0 | 6,094 | 3,116 | 2,978 | 0 |
| 55-64 | 73 | 62 | 11 | 0 | 4,806 | 2,494 | 2,312 | 0 |
| 65-74 | 43 | 31 | 12 | 0 | 2,764 | 1,421 | 1,343 | 0 |
| 75 & Older | 45 | 33 | 12 | 0 | 1,515 | 769 | 746 | 0 |
| Unknown | 1 | 0 | 0 | 1 | 196 | 98 | 46 | 52 |
| TOTAL | 506 | 404 | 101 | 1 | 39,475 | 19,740 | 19,683 | 52 |

Section 5: – Motor Vehicle and Driver Descriptions

Table 5 – 9
Licensed Drivers in Arizona by Age

| Driver Age Group | Male Number | Percent of Male | Female Number | Percent of Female | Total Number | Percent of Total | Cumulative Percent |
|------------------|------------------|-----------------|------------------|-------------------|------------------|------------------|--------------------|
| 16 | 10,373 | 0.40% | 10,669 | 0.42% | 21,042 | 0.41% | 0.41% |
| 17 | 19,233 | 0.75% | 18,416 | 0.72% | 37,649 | 0.73% | 1.14% |
| 18 | 27,078 | 1.05% | 25,052 | 0.98% | 52,130 | 1.02% | 2.16% |
| 19 | 32,873 | 1.28% | 29,364 | 1.15% | 62,237 | 1.21% | 3.37% |
| 20 | 35,376 | 1.37% | 33,072 | 1.29% | 68,448 | 1.33% | 4.70% |
| 21 | 37,836 | 1.47% | 35,770 | 1.40% | 73,606 | 1.43% | 6.14% |
| 22 | 39,557 | 1.54% | 37,832 | 1.48% | 77,389 | 1.51% | 7.64% |
| 23 | 40,974 | 1.59% | 39,363 | 1.54% | 80,337 | 1.56% | 9.21% |
| 24 | 43,130 | 1.67% | 41,529 | 1.62% | 84,659 | 1.65% | 10.86% |
| 25-34 | 463,188 | 17.98% | 456,150 | 17.83% | 919,338 | 17.90% | 28.76% |
| 35-44 | 468,772 | 18.19% | 452,704 | 17.69% | 921,476 | 17.94% | 46.70% |
| 45-54 | 474,364 | 18.41% | 454,128 | 17.75% | 928,492 | 18.08% | 64.78% |
| 55-64 | 435,420 | 16.90% | 451,250 | 17.64% | 886,670 | 17.27% | 82.05% |
| 65-74 | 283,990 | 11.02% | 302,530 | 11.82% | 586,520 | 11.42% | 93.47% |
| 75 & older | 164,533 | 6.39% | 170,736 | 6.67% | 335,269 | 6.53% | 100.00% |
| TOTALS | 2,576,697 | 100.00% | 2,558,565 | 100.00% | 5,135,262 | 100.00% | 100.00% |

Source: MVD - MV708 MV650653-1, Point-in-Time Driver Credential Report/All Driver Licenses by Age, Gender, & Class (page 19), dated 1/3/2017.

Table 5 – 10
Driver Involvement by Age

| Driver Age Group | Number of Drivers | | | | | | | |
|------------------|-------------------|------------------|------------------|------------------|-------------------|-------------------|----------------|----------------|
| | Total | Percent of Total | In Fatal Crashes | Percent of Fatal | In Injury Crashes | Percent of Injury | In PDO Crashes | Percent of PDO |
| 15 & Under | 335 | 0.14% | 8 | 0.60% | 112 | 0.15% | 215 | 0.13% |
| 16 | 3,024 | 1.22% | 7 | 0.52% | 824 | 1.08% | 2,193 | 1.29% |
| 17 | 4,676 | 1.89% | 12 | 0.90% | 1,335 | 1.75% | 3,329 | 1.96% |
| 18 | 6,415 | 2.59% | 24 | 1.79% | 1,933 | 2.53% | 4,458 | 2.63% |
| 19 | 7,182 | 2.90% | 33 | 2.47% | 2,272 | 2.97% | 4,877 | 2.88% |
| 20 | 7,107 | 2.87% | 20 | 1.49% | 2,212 | 2.89% | 4,875 | 2.88% |
| 21 | 6,981 | 2.82% | 28 | 2.09% | 2,191 | 2.86% | 4,762 | 2.81% |
| 22 | 6,688 | 2.70% | 48 | 3.59% | 2,063 | 2.70% | 4,577 | 2.70% |
| 23 | 6,663 | 2.69% | 38 | 2.84% | 2,086 | 2.73% | 4,539 | 2.68% |
| 24 | 6,483 | 2.62% | 32 | 2.39% | 2,064 | 2.70% | 4,387 | 2.59% |
| 25-34 | 51,989 | 21.02% | 242 | 18.09% | 16,461 | 21.52% | 35,286 | 20.82% |
| 35-44 | 39,284 | 15.88% | 204 | 15.25% | 12,470 | 16.30% | 26,610 | 15.70% |
| 45-54 | 34,538 | 13.97% | 196 | 14.65% | 11,206 | 14.65% | 23,136 | 13.65% |
| 55-64 | 25,871 | 10.46% | 188 | 14.05% | 8,584 | 11.22% | 17,099 | 10.09% |
| 65-74 | 14,823 | 5.99% | 99 | 7.40% | 4,972 | 6.50% | 9,752 | 5.75% |
| 75 & Older | 7,653 | 3.09% | 75 | 5.61% | 2,630 | 3.44% | 4,948 | 2.92% |
| Unknown | 17,596 | 7.12% | 84 | 6.28% | 3,077 | 4.02% | 14,435 | 8.52% |
| TOTAL | 247,308 | 100.00% | 1,338 | 100.00% | 76,492 | 100.00% | 169,478 | 100.00% |

Section 5: – Motor Vehicle and Driver Descriptions

Table 5 – 11
Driver Violations

| Type of Violation or Behavior | Number of Drivers | | | | | | | |
|---|-------------------|------------------|------------------|------------------|-------------------|-------------------|----------------|----------------|
| | Total | Percent of Total | In Fatal Crashes | Percent of Fatal | In Injury Crashes | Percent of Injury | In PDO Crashes | Percent of PDO |
| No Improper Action | 122,675 | 49.60% | 575 | 42.97% | 38,637 | 50.51% | 83,463 | 49.25% |
| Speed too Fast for Conditions | 45,452 | 18.38% | 176 | 13.15% | 14,388 | 18.81% | 30,888 | 18.23% |
| Exceeded Lawful Speed | 1,138 | 0.46% | 50 | 3.74% | 490 | 0.64% | 598 | 0.35% |
| Failed to Yield Right-Of-Way | 21,037 | 8.51% | 86 | 6.43% | 7,989 | 10.44% | 12,962 | 7.65% |
| Followed Too Closely | 7,271 | 2.94% | 3 | 0.22% | 1,840 | 2.41% | 5,428 | 3.20% |
| Ran Stop Sign | 1,150 | 0.47% | 16 | 1.20% | 511 | 0.67% | 623 | 0.37% |
| Disregarded Traffic Signal | 5,567 | 2.25% | 37 | 2.77% | 2,638 | 3.45% | 2,892 | 1.71% |
| Made Improper Turn | 4,986 | 2.02% | 6 | 0.45% | 1,237 | 1.62% | 3,743 | 2.21% |
| Drove in Opposing Lane | 1,368 | 0.55% | 65 | 4.86% | 553 | 0.72% | 750 | 0.44% |
| Knowingly Operated with Faulty or Missing Equipment | 189 | 0.08% | 3 | 0.22% | 63 | 0.08% | 123 | 0.07% |
| Required Motorcycle Safety Equipment Not Used | 16 | 0.01% | 5 | 0.37% | 7 | 0.01% | 4 | 0.00% |
| Passed in No-Passing Zone | 115 | 0.05% | 2 | 0.15% | 34 | 0.04% | 79 | 0.05% |
| Unsafe Lane Change | 7,729 | 3.13% | 6 | 0.45% | 1,071 | 1.40% | 6,652 | 3.92% |
| Failed to Keep in Proper Lane | 5,195 | 2.10% | 91 | 6.80% | 1,305 | 1.71% | 3,799 | 2.24% |
| Disregarded Pavement Markings | 240 | 0.10% | 2 | 0.15% | 66 | 0.09% | 172 | 0.10% |
| Other Unsafe Passing | 670 | 0.27% | 7 | 0.52% | 133 | 0.17% | 530 | 0.31% |
| Other | 6,691 | 2.71% | 35 | 2.62% | 1,657 | 2.17% | 4,999 | 2.95% |
| Unknown | 15,819 | 6.40% | 173 | 12.93% | 3,873 | 5.06% | 11,773 | 6.95% |
| TOTAL | 247,308 | 100.00% | 1,338 | 100.00% | 76,492 | 100.00% | 169,478 | 100.00% |

Table 5 – 12
Driver Physical Condition

| Type of Condition | Number of Drivers | | | | | | | |
|--|-------------------|------------------|------------------|------------------|-------------------|-------------------|----------------|----------------|
| | Total | Percent of Total | In Fatal Crashes | Percent of Fatal | In Injury Crashes | Percent of Injury | In PDO Crashes | Percent of PDO |
| No Apparent Influence | 217,331 | 87.88% | 744 | 55.61% | 67,539 | 88.30% | 149,048 | 87.95% |
| Alcohol | 4,736 | 1.92% | 195 | 14.57% | 2,008 | 2.63% | 2,533 | 1.49% |
| Appeared to be Under the Influence of Drugs* | 887 | 0.36% | 89 | 6.65% | 380 | 0.50% | 418 | 0.25% |
| Medications | 185 | 0.07% | 4 | 0.30% | 89 | 0.12% | 92 | 0.05% |
| Illness | 693 | 0.28% | 7 | 0.52% | 387 | 0.51% | 299 | 0.18% |
| Physical Impairment | 202 | 0.08% | 0 | 0.00% | 95 | 0.12% | 107 | 0.06% |
| Fell Asleep or Fatigued | 1,910 | 0.77% | 19 | 1.42% | 747 | 0.98% | 1,144 | 0.68% |
| Other | 1,593 | 0.64% | 13 | 0.97% | 410 | 0.54% | 1,170 | 0.69% |
| Unknown | 19,771 | 7.99% | 267 | 19.96% | 4,837 | 6.32% | 14,667 | 8.65% |
| TOTAL | 247,308 | 100.00% | 1,338 | 100.00% | 76,492 | 100.00% | 169,478 | 100.00% |
| *Illegal drugs or narcotics | | | | | | | | |

Section 5: – Motor Vehicle and Driver Descriptions

Table 5 – 13

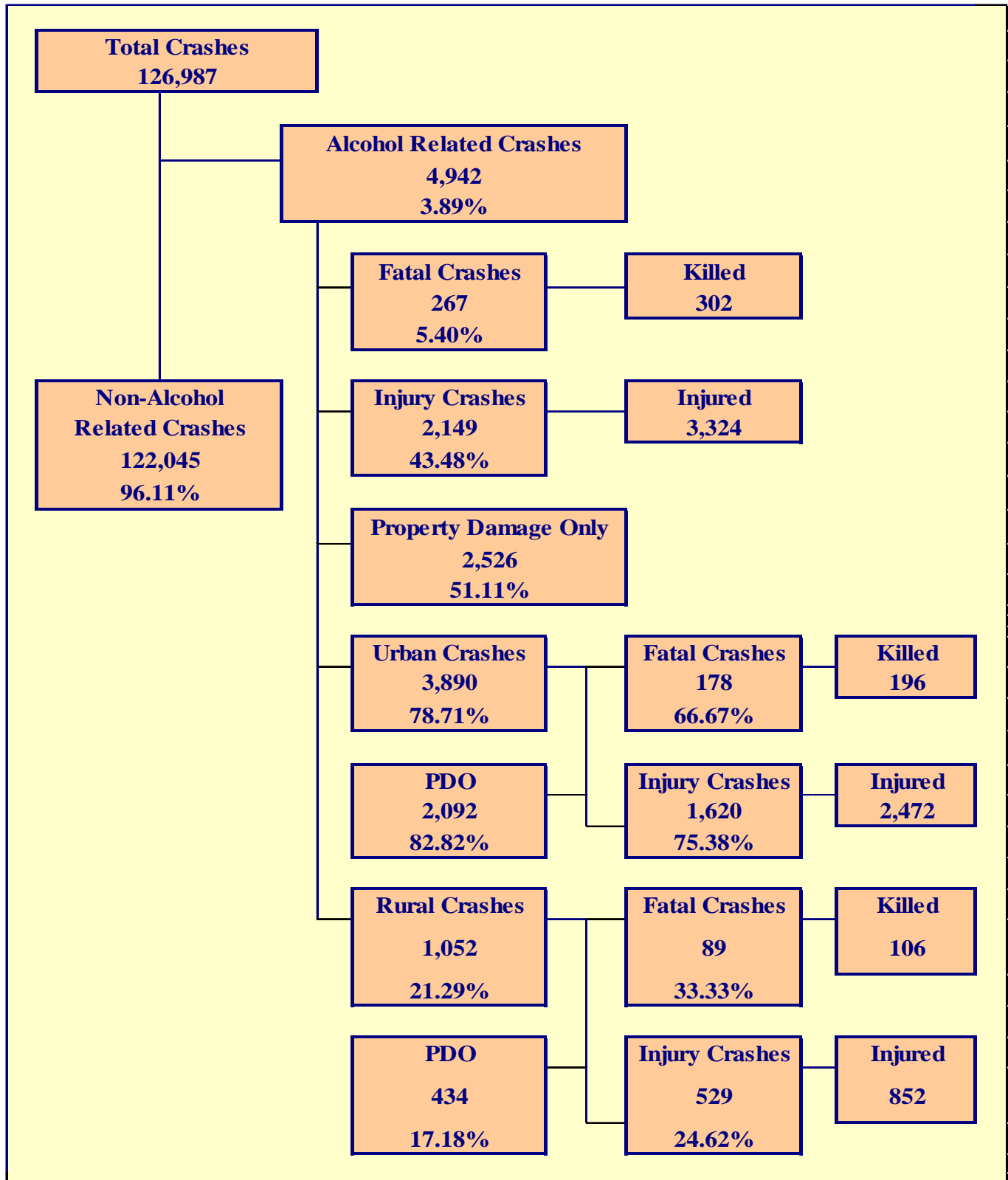
Distracted Driving Behavior

| Type of Distraction | Number of Drivers | | | | | | | |
|---|-------------------|------------------|------------------|------------------|-------------------|-------------------|----------------|----------------|
| | Total | Percent of Total | In Fatal Crashes | Percent of Fatal | In Injury Crashes | Percent of Injury | In PDO Crashes | Percent of PDO |
| Not Distracted | 188,863 | 76.37% | 659 | 49.25% | 58,212 | 76.10% | 129,992 | 76.70% |
| Talking on Hands Free Device | 221 | 0.09% | 2 | 0.15% | 65 | 0.08% | 154 | 0.09% |
| Talking on Hand Held Device | 523 | 0.21% | 2 | 0.15% | 185 | 0.24% | 336 | 0.20% |
| Passenger | 994 | 0.40% | 7 | 0.52% | 350 | 0.46% | 637 | 0.38% |
| Other Activity with an Electronic Device | 1,342 | 0.54% | 9 | 0.67% | 442 | 0.58% | 891 | 0.53% |
| Manually Operating an Electronic Device | 776 | 0.31% | 5 | 0.37% | 275 | 0.36% | 496 | 0.29% |
| Other Inside the Vehicle (eating, drinking, etc.) | 3,170 | 1.28% | 8 | 0.60% | 1,066 | 1.39% | 2,096 | 1.24% |
| Outside the Vehicle (includes unspecified distractions) | 2,730 | 1.10% | 10 | 0.75% | 869 | 1.14% | 1,851 | 1.09% |
| Unknown | 48,689 | 19.69% | 636 | 47.53% | 15,028 | 19.65% | 33,025 | 19.49% |
| TOTAL | 247,308 | 100.00% | 1,338 | 100.00% | 76,492 | 100.00% | 169,478 | 100.00% |

Table 5 – 14

Secondary Crashes

| Secondary Crash | Number of Crashes | | | | Number of Persons | |
|-----------------|-------------------|------------|---------------|---------------|-------------------|---------------|
| | Total | Fatal | Injury | PDO | Killed | Injured |
| Yes | 3,325 | 14 | 1,140 | 2,171 | 18 | 1,904 |
| No | 109,132 | 705 | 32,908 | 75,519 | 787 | 47,893 |
| Unknown | 14,530 | 137 | 4,568 | 9,825 | 147 | 6,956 |
| TOTAL | 126,987 | 856 | 38,616 | 87,515 | 952 | 56,753 |



Section 6: – Alcohol Related Crashes

The statistics in the Alcohol Related section represent those crashes where the investigating officer indicated that a driver, pedestrian, or pedalcyclist had been drinking an alcoholic beverage and may or may not be substantiated by a blood or breath test. No assumption is to be made that the person was legally intoxicated (blood alcohol content of 0.08% or higher) at the time of the crash.

Table 6 – 1
Economic Loss Due to Alcohol Related Crashes in Arizona for 2016

| | |
|-----------------------------|------------------------|
| Fatalities | \$1,751,600,000 |
| Incapacitating Injuries | \$260,800,000 |
| Non-Incapacitating Injuries | \$111,760,000 |
| Possible Injuries | \$53,550,000 |
| Property Damage Only | \$10,104,000 |
| TOTAL | \$2,187,814,000 |

Refer to note on Page 4 for Economic Loss Estimates

Table 6 – 2
Alcohol Related Crash History

| Year | Alcohol Related Crashes | Percent of all Crashes | Persons Killed | Percent of all Fatalities | Persons Injured | Percent of all Injuries |
|-------------|-------------------------|------------------------|----------------|---------------------------|-----------------|-------------------------|
| 2012 | 5,468 | 5.26% | 283 | 34.47% | 3,765 | 7.52% |
| 2013 | 5,250 | 4.88% | 282 | 33.22% | 3,529 | 7.00% |
| 2014 | 4,918 | 4.48% | 275 | 35.53% | 3,193 | 6.26% |
| 2015 | 4,991 | 4.27% | 329 | 36.68% | 3,245 | 6.04% |
| 2016 | 4,942 | 3.89% | 302 | 31.72% | 3,324 | 5.86% |

Table 6 – 3
Manner of Collision in Alcohol Related Crashes

| Manner of Collision Type | Number of Crashes | | | | | | | Percent of PDO Crashes |
|-----------------------------|-------------------|------------------------|------------|--------------------------|--------------|---------------------------|--------------|------------------------|
| | Total | Percent of All Crashes | Fatal | Percent of Fatal Crashes | Injury | Percent of Injury Crashes | PDO | |
| Angle | 440 | 14.73% | 13 | 7.74% | 221 | 16.58% | 206 | 13.86% |
| Left Turn | 319 | 10.68% | 13 | 7.74% | 171 | 12.83% | 135 | 9.08% |
| Rear End | 1,204 | 40.31% | 14 | 8.33% | 501 | 37.58% | 689 | 46.37% |
| Head-On | 206 | 6.90% | 23 | 13.69% | 114 | 8.55% | 69 | 4.64% |
| Sideswipe (same) | 276 | 9.24% | 5 | 2.98% | 58 | 4.35% | 213 | 14.33% |
| Sideswipe (opposite) | 107 | 3.58% | 2 | 1.19% | 41 | 3.08% | 64 | 4.31% |
| Rear to Side | 19 | 0.64% | 0 | 0.00% | 2 | 0.15% | 17 | 1.14% |
| Rear to Rear | 12 | 0.40% | 0 | 0.00% | 7 | 0.53% | 5 | 0.34% |
| Other | 385 | 12.89% | 97 | 57.74% | 212 | 15.90% | 76 | 5.11% |
| Unknown | 19 | 0.64% | 1 | 0.60% | 6 | 0.45% | 12 | 0.81% |
| TOTAL | 2,987 | 100.00% | 168 | 100.00% | 1,333 | 100.00% | 1,486 | 100.00% |

Note: Includes only multi-vehicle alcohol related crashes

Section 6: – Alcohol Related Crashes

Table 6 – 4
Alcohol Related Crashes by First Harmful Event

| First Harmful Event Type | Number of Crashes | | | | Number of Persons | |
|---|-------------------|------------|--------------|--------------|-------------------|--------------|
| | Total | Fatal | Injury | PDO | Killed | Injured |
| Collision with Motor Vehicle in Transport | 2,218 | 74 | 999 | 1,145 | 94 | 1,846 |
| Overturning | 231 | 42 | 159 | 30 | 47 | 241 |
| Collision with Pedestrian | 236 | 82 | 150 | 4 | 82 | 171 |
| Collision with Pedalcyclist | 40 | 7 | 32 | 1 | 7 | 37 |
| Collision with Animal | 5 | 0 | 3 | 2 | 0 | 4 |
| Collision with Fixed Object | 1,698 | 53 | 651 | 994 | 63 | 821 |
| Collision with Non-fixed Object* | 335 | 4 | 80 | 251 | 4 | 96 |
| Vehicle Fire or Explosion | 2 | 1 | 0 | 1 | 1 | 0 |
| Other Non-collision** | 16 | 2 | 10 | 4 | 2 | 13 |
| Unknown | 161 | 2 | 65 | 94 | 2 | 95 |
| TOTAL | 4,942 | 267 | 2,149 | 2,526 | 302 | 3,324 |
| *Includes Collision with Parked Vehicles, Trains, Railway Vehicles, and Work Zone Equipment | | | | | | |
| **Includes Vehicle Immersion, Jackknife, and Cargo Loss or Shift | | | | | | |

Table 6 – 5
Alcohol Related Crashes by Vehicle Type

| Motor Vehicle Type | Number of Vehicles | | | | |
|--|--------------------|------------------|------------------|-------------------|----------------|
| | Total | Percent of Total | In Fatal Crashes | In Injury Crashes | In PDO Crashes |
| Passenger Cars (Sedans, Convertibles, etc.) | 2,608 | 55.068% | 59 | 1,028 | 1,521 |
| Station Wagons | 800 | 16.892% | 36 | 347 | 417 |
| Pickup Trucks | 915 | 19.320% | 45 | 406 | 464 |
| Vans | 44 | 0.929% | 0 | 18 | 26 |
| Truck Tractor (with or without Semi-Trailer) | 8 | 0.169% | 2 | 3 | 3 |
| Concrete Mixer Trucks | 0 | 0.000% | 0 | 0 | 0 |
| Dump Trucks | 0 | 0.000% | 0 | 0 | 0 |
| Garbage Trucks | 0 | 0.000% | 0 | 0 | 0 |
| Tanker Trucks | 0 | 0.000% | 0 | 0 | 0 |
| Wrecker or Tow Trucks | 1 | 0.021% | 0 | 0 | 1 |
| Other Truck Combinations | 63 | 1.330% | 2 | 25 | 36 |
| School Bus | 0 | 0.000% | 0 | 0 | 0 |
| Commercial or Non-Commercial Bus | 1 | 0.021% | 0 | 1 | 0 |
| Motorcycle (two or three wheel) | 183 | 3.864% | 43 | 133 | 7 |
| All Terrain Vehicle or Cycle | 20 | 0.422% | 4 | 14 | 2 |
| Moped | 1 | 0.021% | 1 | 0 | 0 |
| Recreational Vehicle | 8 | 0.169% | 0 | 2 | 6 |
| Motor Home or House Car | 0 | 0.000% | 0 | 0 | 0 |
| Fire Trucks | 0 | 0.000% | 0 | 0 | 0 |
| Ambulances | 0 | 0.000% | 0 | 0 | 0 |
| Other Types Of Vehicles | 4 | 0.084% | 0 | 3 | 1 |
| Vehicle Type Unknown | 80 | 1.689% | 3 | 28 | 49 |
| TOTAL | 4,736 | 100.00% | 195 | 2,008 | 2,533 |

Section 6: – Alcohol Related Crashes

**Table 6 – 6
Lighting Conditions in Alcohol Related Crashes**

| Type of Lighting Conditions | Number of Crashes | | | | Number of Persons | |
|-----------------------------|-------------------|------------|--------------|--------------|-------------------|--------------|
| | Total | Fatal | Injury | PDO | Killed | Injured |
| Daylight | 1,455 | 59 | 639 | 757 | 69 | 1,025 |
| Dawn | 83 | 7 | 32 | 44 | 8 | 55 |
| Dusk | 134 | 7 | 60 | 67 | 7 | 98 |
| Dark - Lighted | 2,493 | 134 | 1,046 | 1,313 | 149 | 1,581 |
| Dark - Not Lighted | 738 | 57 | 360 | 321 | 66 | 539 |
| Dark - Unknown Lighting | 39 | 3 | 12 | 24 | 3 | 26 |
| TOTAL | 4,942 | 267 | 2,149 | 2,526 | 302 | 3,324 |

**Table 6 – 7
Road Surface Conditions in Alcohol Related Crashes**

| Type of Road Surface Condition | Number of Drivers | | | | Number of Persons | |
|--------------------------------|-------------------|------------------|-------------------|----------------|-------------------|--------------|
| | Total | In Fatal Crashes | In Injury Crashes | In PDO Crashes | Killed | Injured |
| Dry | 4,422 | 173 | 1,887 | 2,362 | 271 | 3,125 |
| Wet | 217 | 6 | 83 | 128 | 11 | 130 |
| Snow | 10 | 0 | 3 | 7 | 0 | 2 |
| Slush | 0 | 0 | 0 | 0 | 0 | 0 |
| Ice/Frost | 9 | 1 | 5 | 3 | 2 | 5 |
| Water (standing or moving) | 4 | 1 | 2 | 1 | 1 | 7 |
| Sand | 3 | 1 | 1 | 1 | 2 | 4 |
| Mud, Dirt, Gravel | 44 | 7 | 21 | 16 | 7 | 39 |
| Oil | 1 | 0 | 1 | 0 | 0 | 0 |
| Other | 3 | 1 | 0 | 2 | 3 | 6 |
| Unknown | 23 | 5 | 5 | 13 | 5 | 6 |
| TOTAL | 4,736 | 195 | 2,008 | 2,533 | 302 | 3,324 |

**Table 6 – 8
Gender of Drivers Involved in Alcohol Related Crashes**

| Gender of Driver | Number of Drivers | | | | | | | |
|------------------|-------------------|------------------|------------------|------------------|-------------------|-------------------|----------------|----------------|
| | Total | Percent of Total | In Fatal Crashes | Percent of Fatal | In Injury Crashes | Percent of Injury | In PDO Crashes | Percent of PDO |
| Male | 3,458 | 73.02% | 171 | 87.69% | 1,509 | 75.15% | 1,778 | 70.19% |
| Female | 1,242 | 26.22% | 24 | 12.31% | 497 | 24.75% | 721 | 28.46% |
| Unknown | 36 | 0.76% | 0 | 0.00% | 2 | 0.10% | 34 | 1.34% |
| TOTAL | 4,736 | 100.00% | 195 | 100.00% | 2,008 | 100.00% | 2,533 | 100.00% |

*In total crashes across the state, 53.53% of the drivers were males.
When alcohol was involved, males accounted for 73.02% of the drivers.*

Section 6: – Alcohol Related Crashes

Table 6 – 9
Driver Involvement by Age in Alcohol Related Crashes

| Driver Age Group | Number of Drivers | | | | | | | |
|------------------|-------------------|------------------|------------------|------------------|-------------------|-------------------|----------------|----------------|
| | Total | Percent of Total | In Fatal Crashes | Percent of Fatal | In Injury Crashes | Percent of Injury | In PDO Crashes | Percent of PDO |
| 15 & Under | 5 | 0.11% | 1 | 0.51% | 4 | 0.20% | 0 | 0.00% |
| 16 | 12 | 0.25% | 0 | 0.00% | 8 | 0.40% | 4 | 0.16% |
| 17 | 29 | 0.61% | 0 | 0.00% | 15 | 0.75% | 14 | 0.55% |
| 18 | 76 | 1.60% | 5 | 2.56% | 36 | 1.79% | 35 | 1.38% |
| 19 | 116 | 2.45% | 4 | 2.05% | 54 | 2.69% | 58 | 2.29% |
| 20 | 106 | 2.24% | 2 | 1.03% | 52 | 2.59% | 52 | 2.05% |
| 21 | 194 | 4.10% | 5 | 2.56% | 75 | 3.74% | 114 | 4.50% |
| 22 | 203 | 4.29% | 12 | 6.15% | 78 | 3.88% | 113 | 4.46% |
| 23 | 210 | 4.43% | 6 | 3.08% | 85 | 4.23% | 119 | 4.70% |
| 24 | 200 | 4.22% | 12 | 6.15% | 84 | 4.18% | 104 | 4.11% |
| 25-34 | 1,458 | 30.79% | 59 | 30.26% | 616 | 30.68% | 783 | 30.91% |
| 35-44 | 838 | 17.69% | 37 | 18.97% | 369 | 18.38% | 432 | 17.05% |
| 45-54 | 615 | 12.99% | 28 | 14.36% | 266 | 13.25% | 321 | 12.67% |
| 55-64 | 431 | 9.10% | 16 | 8.21% | 181 | 9.01% | 234 | 9.24% |
| 65-74 | 156 | 3.29% | 8 | 4.10% | 63 | 3.14% | 85 | 3.36% |
| 75 & Older | 19 | 0.40% | 0 | 0.00% | 11 | 0.55% | 8 | 0.32% |
| Unknown | 68 | 1.44% | 0 | 0.00% | 11 | 0.55% | 57 | 2.25% |
| TOTAL | 4,736 | 100.00% | 195 | 100.00% | 2,008 | 100.00% | 2,533 | 100.00% |

Table 6 – 10
When Alcohol Related Crashes Occurred in 2016

| Time of Day | Total | Weekday | Weekend* |
|--|--------------|--------------|--------------|
| Daytime** | 1,413 | 897 | 516 |
| Nighttime | 3,529 | 1,409 | 2,120 |
| Total | 4,942 | 2,306 | 2,636 |
| *Weekend begins at 6:00 p.m. on Friday and continues through 6:00 a.m. Monday. All other times and days are considered Weekdays. | | | |
| **Daytime refers to the hours between 6:00 a.m. and 6:00 p.m. | | | |

Table 6 – 11
Safety Device Usage for Drinking Drivers

| Severity of Injury | Safety Device Not Used | Lap Belt | Lap & Shoulder Belt | Protective Helmet | Other | Unknown | Totals |
|---------------------------|------------------------|-----------|---------------------|-------------------|----------|--------------|--------------|
| No Injury | 123 | 35 | 1,919 | 2 | 2 | 877 | 2,958 |
| Unknown Injury | 7 | 0 | 35 | 0 | 0 | 155 | 197 |
| Possible Injury | 60 | 2 | 280 | 7 | 2 | 153 | 504 |
| Non-Incapacitating Injury | 133 | 5 | 313 | 12 | 0 | 210 | 673 |
| Incapacitating Injury | 101 | 0 | 79 | 21 | 0 | 77 | 278 |
| Fatal Injury | 87 | 0 | 13 | 9 | 0 | 17 | 126 |
| TOTALS | 511 | 42 | 2,639 | 51 | 4 | 1,489 | 4,736 |

Section 6: – Alcohol Related Crashes

Table 6 – 12
Persons Killed and Injured in Alcohol Related Crashes

| Age of Victim | Persons Killed | | | Persons Injured | | | |
|---------------|----------------|------------|-----------|-----------------|--------------|--------------|----------------|
| | Total | Male | Female | Total | Male | Female | Gender Unknown |
| 0-4 | 2 | 2 | 0 | 49 | 27 | 22 | 0 |
| 5-9 | 3 | 3 | 0 | 51 | 22 | 29 | 0 |
| 10-14 | 1 | 0 | 1 | 47 | 22 | 25 | 0 |
| 15-19 | 20 | 12 | 8 | 302 | 161 | 141 | 0 |
| 20-24 | 47 | 35 | 12 | 527 | 341 | 186 | 0 |
| 25-34 | 57 | 42 | 15 | 814 | 536 | 278 | 0 |
| 35-44 | 47 | 36 | 11 | 544 | 344 | 200 | 0 |
| 45-54 | 63 | 56 | 7 | 458 | 287 | 171 | 0 |
| 55-64 | 41 | 34 | 7 | 317 | 205 | 112 | 0 |
| 65-74 | 14 | 11 | 3 | 131 | 85 | 46 | 0 |
| 75 & Older | 7 | 4 | 3 | 38 | 20 | 18 | 0 |
| Unknown | 0 | 0 | 0 | 46 | 28 | 15 | 3 |
| TOTAL | 302 | 235 | 67 | 3,324 | 2,078 | 1,243 | 3 |

Table 6 – 13
Alcohol Related Crashes by County

| County | Number of Crashes | | | | Number of Persons | |
|--------------|-------------------|------------|--------------|--------------|-------------------|--------------|
| | Total | Fatal | Injury | PDO | Killed | Injured |
| Apache | 36 | 11 | 16 | 9 | 14 | 50 |
| Cochise | 61 | 7 | 24 | 30 | 7 | 28 |
| Coconino | 183 | 10 | 75 | 98 | 11 | 108 |
| Gila | 43 | 3 | 24 | 16 | 4 | 38 |
| Graham | 17 | 4 | 11 | 2 | 5 | 21 |
| Greenlee | 4 | 1 | 1 | 2 | 1 | 2 |
| La Paz | 16 | 1 | 10 | 5 | 1 | 14 |
| Maricopa | 3,122 | 161 | 1,292 | 1,669 | 181 | 2,008 |
| Mohave | 194 | 11 | 94 | 89 | 13 | 146 |
| Navajo | 62 | 7 | 34 | 21 | 7 | 71 |
| Pima | 672 | 27 | 310 | 335 | 30 | 454 |
| Pinal | 217 | 16 | 102 | 99 | 18 | 163 |
| Santa Cruz | 21 | 0 | 10 | 11 | 0 | 13 |
| Yavapai | 170 | 5 | 87 | 78 | 6 | 125 |
| Yuma | 124 | 3 | 59 | 62 | 4 | 83 |
| TOTAL | 4,942 | 267 | 2,149 | 2,526 | 302 | 3,324 |

Section 6: – Alcohol Related Crashes

Chart 6 – 1

All Alcohol Related Crashes vs. Fatal Alcohol Related Crashes by Day of Week

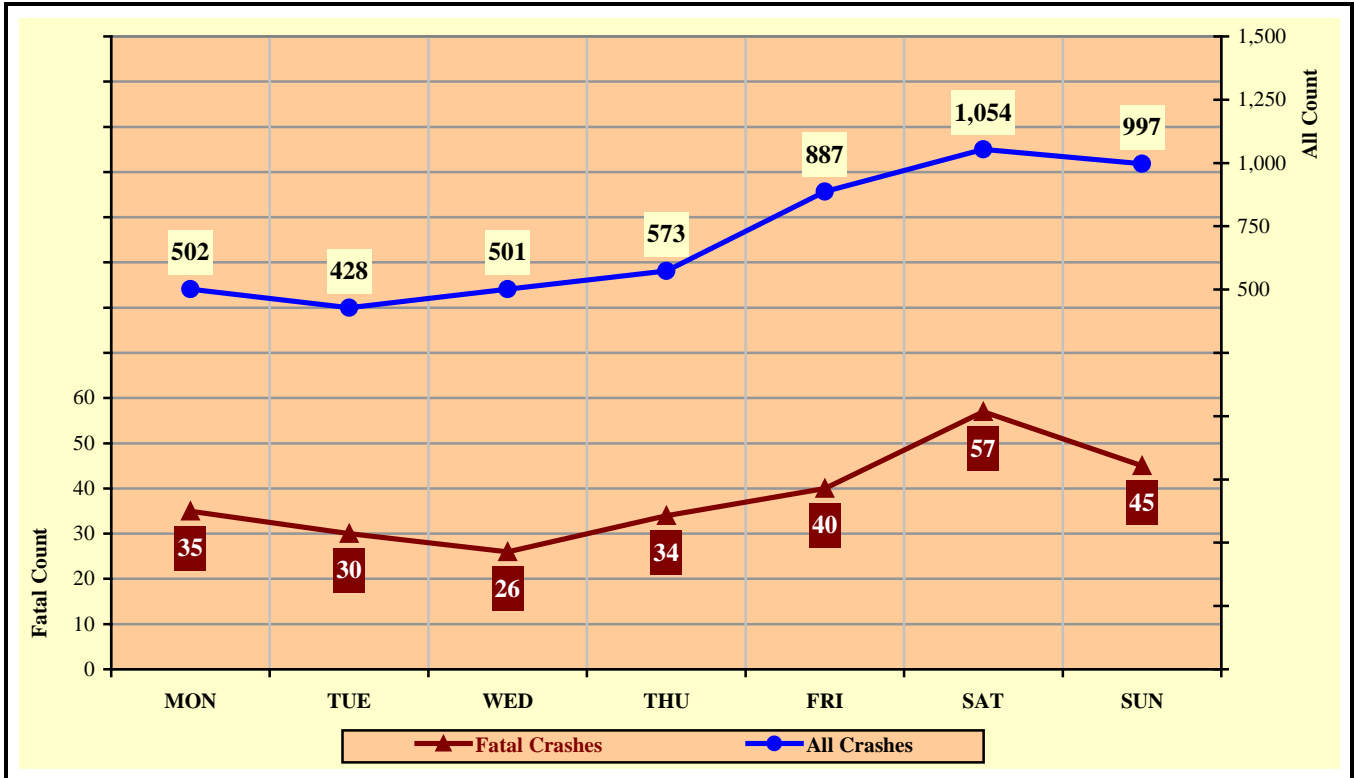
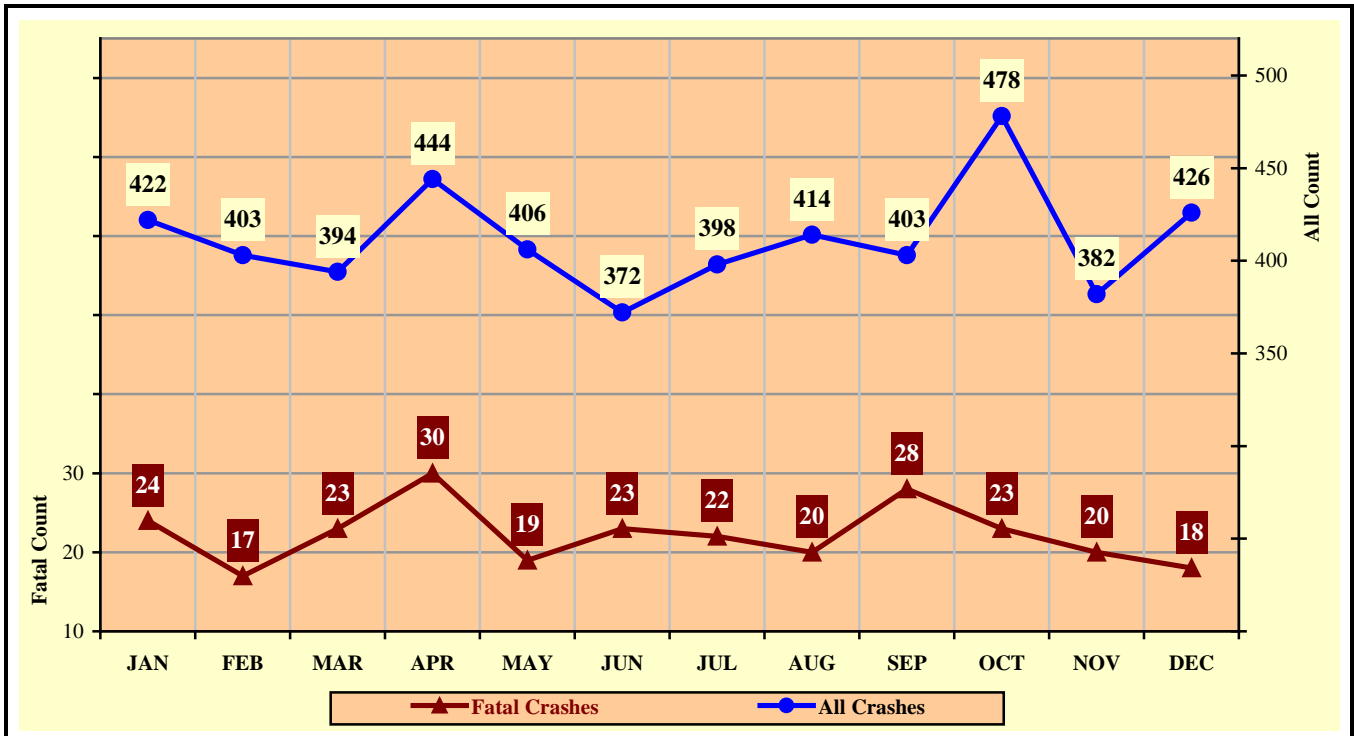


Chart 6 – 2

All Alcohol Related Crashes vs. Fatal Alcohol Related Crashes by Month



Section 6: – Alcohol Related Crashes

Chart 6 – 3

All Alcohol Related Crashes vs. Fatal Alcohol Related Crashes - Weekdays

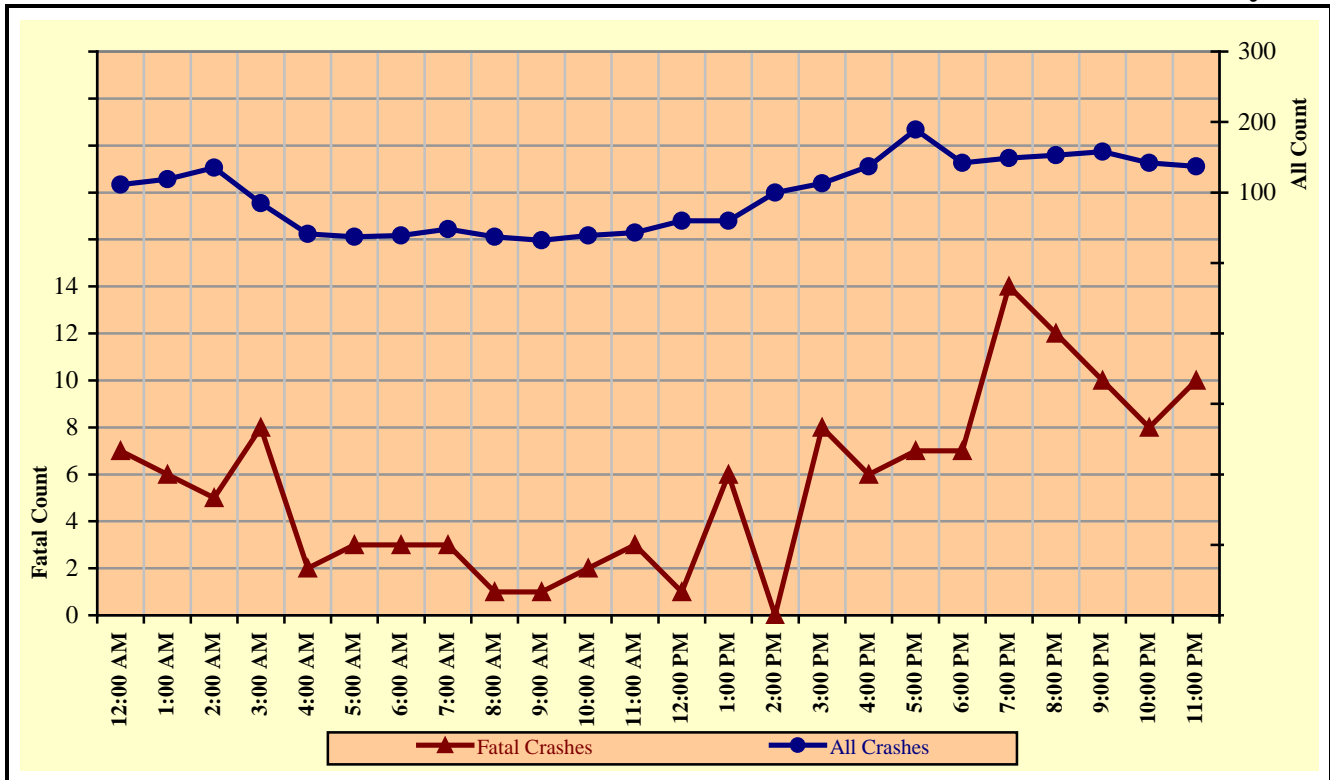
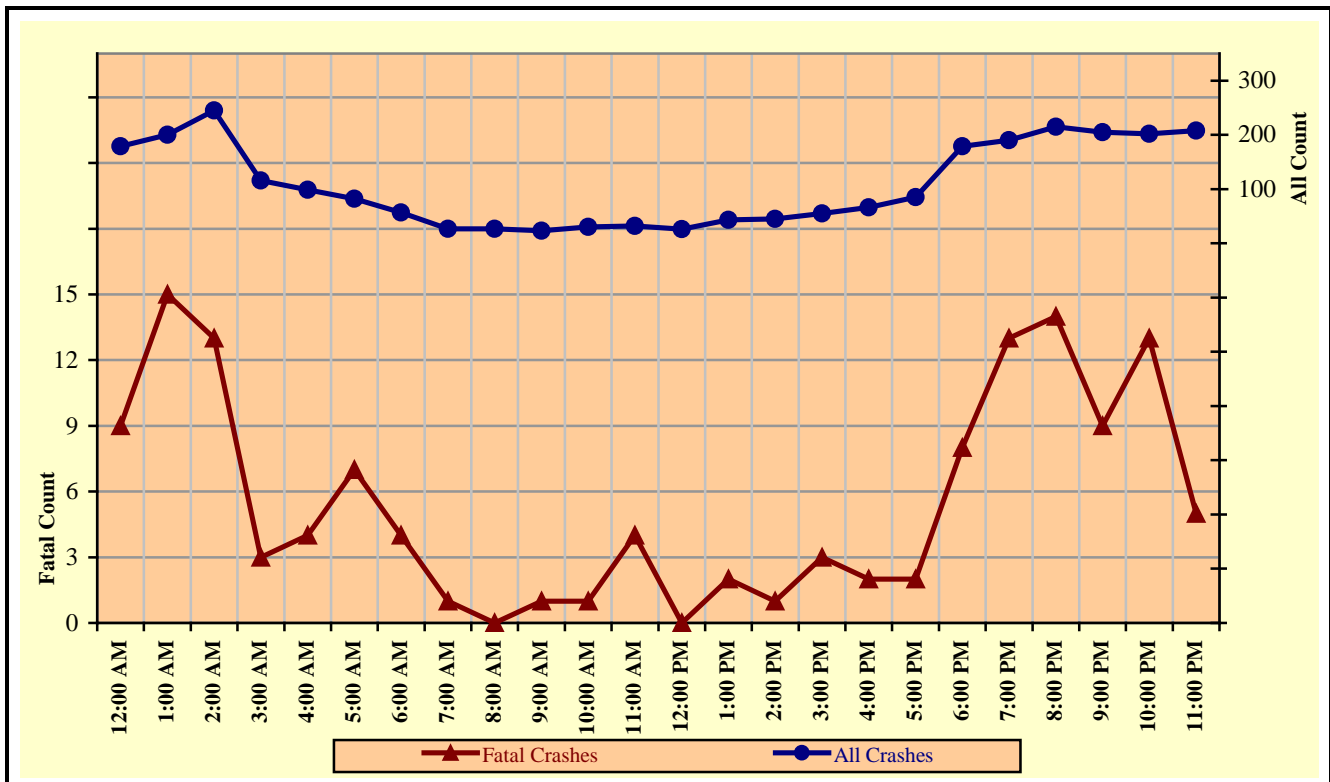


Chart 6 – 4

All Alcohol Related Crashes vs. Fatal Alcohol Related Crashes - Weekends



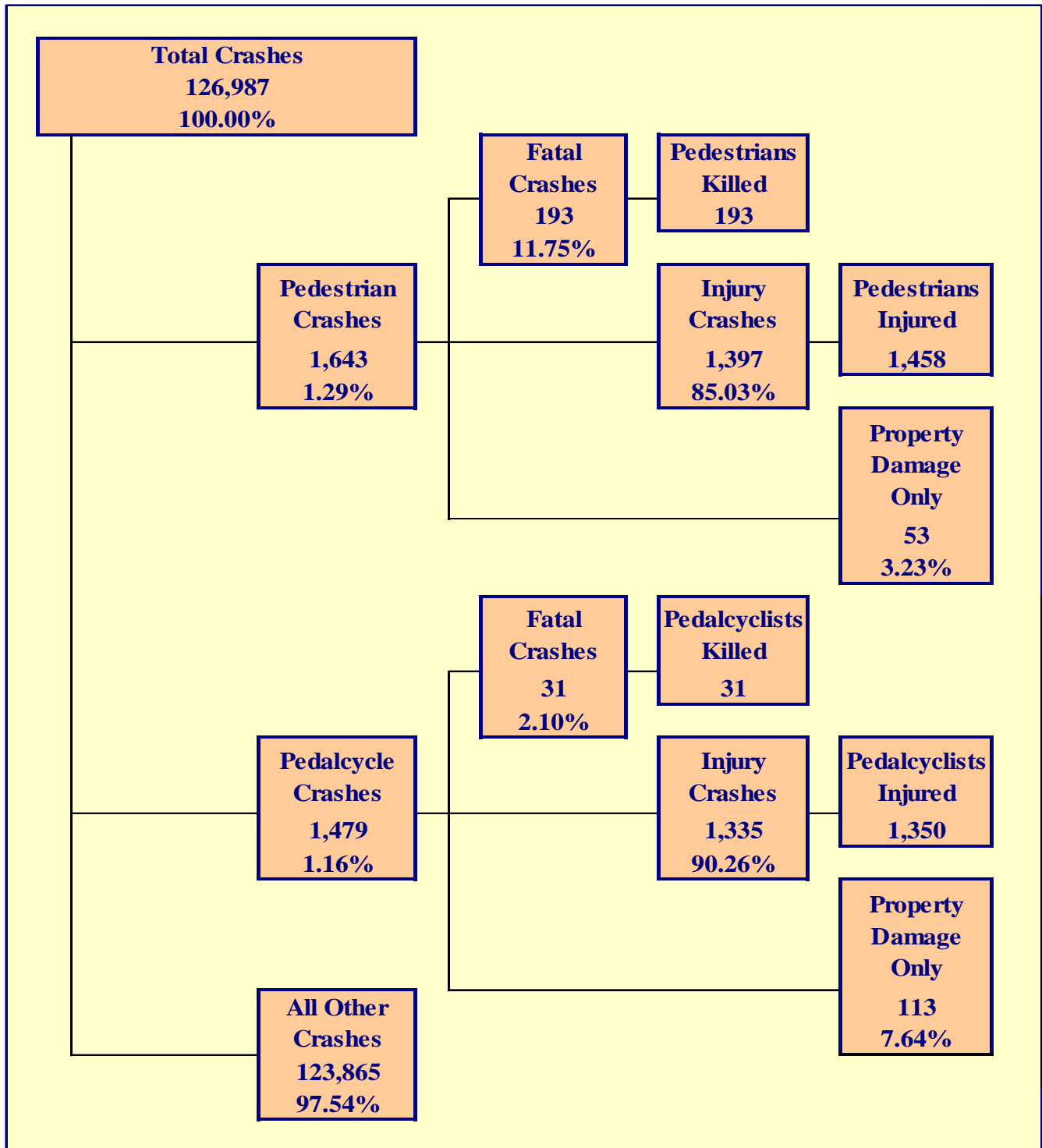
Section 6: – Alcohol Related Crashes

Table 6 – 14
Alcohol Related Crashes by Hour and Day of Week

| Hour Beginning | Total Crashes | | Monday | | Tuesday | | Wednesday | | Thursday | | Friday | | Saturday | | Sunday | | Weekdays | | Weekends | |
|----------------|---------------|------------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|--------------|-----------|------------|-----------|--------------|------------|--------------|------------|
| | All | Fatal | All | Fatal | All | Fatal | All | Fatal | All | Fatal | All | Fatal | All | Fatal | All | Fatal | All | Fatal | All | Fatal |
| 12:00 AM | 290 | 16 | 28 | 0 | 19 | 4 | 27 | 0 | 32 | 2 | 33 | 1 | 69 | 4 | 82 | 5 | 111 | 7 | 179 | 9 |
| 1:00 AM | 319 | 21 | 32 | 1 | 16 | 1 | 23 | 1 | 24 | 2 | 56 | 2 | 75 | 6 | 93 | 8 | 119 | 6 | 200 | 15 |
| 2:00 AM | 380 | 18 | 40 | 4 | 21 | 1 | 20 | 1 | 35 | 0 | 59 | 3 | 101 | 7 | 104 | 2 | 135 | 5 | 245 | 13 |
| 3:00 AM | 201 | 11 | 12 | 0 | 10 | 2 | 15 | 2 | 23 | 1 | 37 | 3 | 57 | 2 | 47 | 1 | 85 | 8 | 116 | 3 |
| 4:00 AM | 140 | 6 | 12 | 1 | 6 | 1 | 8 | 0 | 11 | 0 | 16 | 1 | 45 | 2 | 42 | 1 | 41 | 2 | 99 | 4 |
| 5:00 AM | 119 | 10 | 11 | 3 | 8 | 0 | 4 | 1 | 12 | 2 | 13 | 0 | 35 | 1 | 36 | 3 | 37 | 3 | 82 | 7 |
| 6:00 AM | 96 | 7 | 6 | 0 | 9 | 2 | 7 | 1 | 4 | 0 | 13 | 0 | 29 | 3 | 28 | 1 | 39 | 3 | 57 | 4 |
| 7:00 AM | 75 | 4 | 9 | 1 | 9 | 2 | 12 | 0 | 4 | 0 | 14 | 0 | 11 | 1 | 16 | 0 | 48 | 3 | 27 | 1 |
| 8:00 AM | 64 | 1 | 7 | 0 | 7 | 0 | 6 | 1 | 6 | 0 | 11 | 0 | 13 | 0 | 14 | 0 | 37 | 1 | 27 | 0 |
| 9:00 AM | 55 | 2 | 9 | 1 | 3 | 0 | 7 | 0 | 3 | 0 | 10 | 0 | 11 | 1 | 12 | 0 | 32 | 1 | 23 | 1 |
| 10:00 AM | 69 | 3 | 4 | 1 | 10 | 0 | 10 | 0 | 7 | 1 | 8 | 0 | 16 | 0 | 14 | 1 | 39 | 2 | 30 | 1 |
| 11:00 AM | 75 | 7 | 5 | 1 | 7 | 1 | 8 | 0 | 17 | 1 | 6 | 0 | 9 | 0 | 23 | 4 | 43 | 3 | 32 | 4 |
| 12:00 PM | 86 | 1 | 13 | 0 | 11 | 0 | 11 | 0 | 9 | 0 | 16 | 1 | 14 | 0 | 12 | 0 | 60 | 1 | 26 | 0 |
| 1:00 PM | 103 | 8 | 10 | 1 | 16 | 3 | 14 | 2 | 9 | 0 | 11 | 0 | 28 | 2 | 15 | 0 | 60 | 6 | 43 | 2 |
| 2:00 PM | 145 | 1 | 17 | 0 | 20 | 0 | 19 | 0 | 18 | 0 | 26 | 0 | 24 | 1 | 21 | 0 | 100 | 0 | 45 | 1 |
| 3:00 PM | 168 | 11 | 21 | 4 | 18 | 0 | 18 | 3 | 20 | 0 | 36 | 1 | 25 | 1 | 30 | 2 | 113 | 8 | 55 | 3 |
| 4:00 PM | 203 | 8 | 25 | 1 | 32 | 2 | 24 | 0 | 28 | 2 | 28 | 1 | 30 | 1 | 36 | 1 | 137 | 6 | 66 | 2 |
| 5:00 PM | 274 | 9 | 32 | 0 | 36 | 1 | 35 | 1 | 42 | 1 | 44 | 4 | 42 | 0 | 43 | 2 | 189 | 7 | 85 | 2 |
| 6:00 PM | 321 | 15 | 33 | 1 | 26 | 1 | 34 | 2 | 49 | 3 | 61 | 3 | 62 | 4 | 56 | 1 | 142 | 7 | 179 | 8 |
| 7:00 PM | 339 | 27 | 32 | 3 | 38 | 3 | 44 | 4 | 35 | 4 | 73 | 5 | 55 | 6 | 62 | 2 | 149 | 14 | 190 | 13 |
| 8:00 PM | 368 | 26 | 40 | 4 | 33 | 2 | 35 | 2 | 45 | 4 | 76 | 4 | 73 | 6 | 66 | 4 | 153 | 12 | 215 | 14 |
| 9:00 PM | 363 | 19 | 39 | 2 | 24 | 2 | 43 | 2 | 52 | 4 | 77 | 3 | 83 | 4 | 45 | 2 | 158 | 10 | 205 | 9 |
| 10:00 PM | 344 | 21 | 36 | 2 | 28 | 2 | 37 | 2 | 41 | 2 | 74 | 4 | 74 | 5 | 54 | 4 | 142 | 8 | 202 | 13 |
| 11:00 PM | 345 | 15 | 29 | 4 | 21 | 0 | 40 | 1 | 47 | 5 | 89 | 4 | 73 | 0 | 46 | 1 | 137 | 10 | 208 | 5 |
| TOTAL | 4,942 | 267 | 502 | 35 | 428 | 30 | 501 | 26 | 573 | 34 | 887 | 40 | 1,054 | 57 | 997 | 45 | 2,306 | 133 | 2,636 | 134 |

Crashes during Weekends accounted for 53.34% of all Alcohol Related crashes and 50.19% of Alcohol Related Fatal Crashes.

Crashes during Weekdays accounted for 46.66% of all Alcohol Related crashes and 49.81% of Alcohol Related Fatal Crashes.



Section 7: – Pedestrian and Pedalcyclist Crashes

Table 7 – 1
Pedestrians Killed and Injured By Age and Gender

| Age Group | Pedestrians Killed | | | | Pedestrians Injured | | | |
|--------------|--------------------|------------|-----------|----------------|---------------------|------------|------------|----------------|
| | Total | Male | Female | Gender Unknown | Total | Male | Female | Gender Unknown |
| 0-4 | 3 | 2 | 1 | 0 | 21 | 8 | 13 | 0 |
| 5-9 | 1 | 1 | 0 | 0 | 52 | 34 | 18 | 0 |
| 10-14 | 3 | 2 | 1 | 0 | 81 | 53 | 28 | 0 |
| 15-19 | 3 | 2 | 1 | 0 | 198 | 130 | 68 | 0 |
| 20-24 | 13 | 7 | 6 | 0 | 149 | 88 | 61 | 0 |
| 25-34 | 25 | 14 | 11 | 0 | 268 | 172 | 96 | 0 |
| 35-44 | 33 | 21 | 12 | 0 | 198 | 122 | 76 | 0 |
| 45-54 | 38 | 30 | 8 | 0 | 153 | 98 | 55 | 0 |
| 55-64 | 40 | 28 | 12 | 0 | 179 | 110 | 69 | 0 |
| 65-74 | 23 | 14 | 9 | 0 | 86 | 60 | 26 | 0 |
| 75 & Older | 10 | 8 | 2 | 0 | 45 | 29 | 16 | 0 |
| Unknown | 1 | 0 | 0 | 1 | 28 | 20 | 6 | 2 |
| TOTAL | 193 | 129 | 63 | 1 | 1,458 | 924 | 532 | 2 |

Table 7 – 2
Pedestrian Crashes by Geographic Location

| Category | Total | Urban | Percent of Total | Rural | Percent of Total |
|----------------------------|-------|-------|------------------|-------|------------------|
| Total Crashes | 1,643 | 1,496 | 91.05% | 147 | 8.95% |
| Fatal Crashes | 193 | 152 | 78.76% | 41 | 21.24% |
| Injury Crashes | 1,397 | 1,296 | 92.77% | 101 | 7.23% |
| PDO Crashes | 53 | 48 | 90.57% | 5 | 9.43% |
| Pedestrians Killed | 193 | 151 | 78.24% | 42 | 21.76% |
| Pedestrians Injured | 1,458 | 1,353 | 92.80% | 105 | 7.20% |

Table 7 – 3
Pedestrian Crash History

| Year | Pedestrian Crashes | Percent of all Crashes | Pedestrians Killed | Percent of all Fatalities | Pedestrians Injured | Percent of all Injuries |
|-------------|--------------------|------------------------|--------------------|---------------------------|---------------------|-------------------------|
| 2012 | 1,583 | 1.52% | 131 | 15.96% | 1,366 | 2.73% |
| 2013 | 1,608 | 1.49% | 160 | 18.85% | 1,366 | 2.71% |
| 2014 | 1,569 | 1.43% | 155 | 20.03% | 1,357 | 2.66% |
| 2015 | 1,410 | 1.21% | 163 | 18.17% | 1,246 | 2.32% |
| 2016 | 1,643 | 1.29% | 193 | 20.27% | 1,458 | 2.57% |

Section 7: – Pedestrian and Pedalcyclist Crashes

Table 7 – 4
Pedestrians Killed by Age and Action

| Pedestrian Action | Total | Age Group of Pedestrian | | | | | | | | | | | |
|-------------------------|------------|-------------------------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|----------|
| | | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75 & Older | Unknown |
| Crossing Road | 126 | 3 | 1 | 2 | 1 | 6 | 16 | 21 | 29 | 28 | 12 | 7 | 0 |
| Walking With Traffic | 11 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 1 | 4 | 0 | 0 |
| Walking Against Traffic | 9 | 0 | 0 | 0 | 1 | 0 | 2 | 3 | 1 | 1 | 1 | 0 | 0 |
| Standing | 15 | 0 | 0 | 0 | 0 | 3 | 1 | 3 | 1 | 4 | 2 | 1 | 0 |
| Lying | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| Getting on/off Vehicle | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Working on/pushing Veh | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| Working on Road | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | 10 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 2 | 2 | 1 | 1 | 0 |
| Unknown | 16 | 0 | 0 | 1 | 0 | 2 | 3 | 0 | 5 | 3 | 1 | 0 | 1 |
| TOTAL | 193 | 3 | 1 | 3 | 3 | 13 | 25 | 33 | 38 | 40 | 23 | 10 | 1 |

Table 7 – 5
Pedestrians Injured by Age and Action

| Pedestrian Action | Total | Age Group of Pedestrian | | | | | | | | | | | |
|-------------------------|--------------|-------------------------|-----------|-----------|------------|------------|------------|------------|------------|------------|-----------|------------|-----------|
| | | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75 & Older | Unknown |
| Crossing Road | 929 | 14 | 42 | 59 | 126 | 87 | 156 | 117 | 92 | 128 | 63 | 31 | 14 |
| Walking With Traffic | 85 | 0 | 1 | 2 | 10 | 14 | 19 | 14 | 9 | 13 | 2 | 0 | 1 |
| Walking Against Traffic | 109 | 1 | 2 | 1 | 18 | 8 | 27 | 14 | 15 | 10 | 7 | 6 | 0 |
| Standing | 78 | 0 | 0 | 2 | 5 | 8 | 16 | 16 | 13 | 11 | 2 | 1 | 4 |
| Lying | 7 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 1 | 0 | 1 | 1 |
| Getting on/off Vehicle | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 |
| Working on/pushing Veh | 15 | 0 | 0 | 0 | 3 | 4 | 4 | 2 | 0 | 1 | 1 | 0 | 0 |
| Working on Road | 10 | 0 | 0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 0 | 0 | 1 |
| Other | 156 | 4 | 5 | 14 | 26 | 21 | 22 | 23 | 17 | 10 | 9 | 4 | 1 |
| Unknown | 66 | 2 | 2 | 2 | 9 | 5 | 17 | 10 | 6 | 4 | 2 | 1 | 6 |
| TOTAL | 1,458 | 21 | 52 | 81 | 198 | 149 | 268 | 198 | 153 | 179 | 86 | 45 | 28 |

Table 7 – 6
Pedestrian Physical Condition in Motor Vehicle Crashes

| Type of Condition | Number of Pedestrians | | | | | | | |
|--|-----------------------|------------------|------------------|------------------|-------------------|-------------------|----------------|----------------|
| | Total | Percent of Total | In Fatal Crashes | Percent of Fatal | In Injury Crashes | Percent of Injury | In PDO Crashes | Percent of PDO |
| No Apparent Influence | 1,085 | 62.54% | 44 | 21.78% | 1,002 | 67.93% | 39 | 67.24% |
| Alcohol | 223 | 12.85% | 76 | 37.62% | 143 | 9.69% | 4 | 6.90% |
| Appeared to be Under the Influence of Drugs* | 33 | 1.90% | 24 | 11.88% | 9 | 0.61% | 0 | 0.00% |
| Medications | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% |
| Illness | 5 | 0.29% | 0 | 0.00% | 5 | 0.34% | 0 | 0.00% |
| Physical Impairment | 6 | 0.35% | 1 | 0.50% | 5 | 0.34% | 0 | 0.00% |
| Fell Asleep or Fatigued | 2 | 0.12% | 0 | 0.00% | 2 | 0.14% | 0 | 0.00% |
| Other | 10 | 0.58% | 0 | 0.00% | 10 | 0.68% | 0 | 0.00% |
| Unknown | 371 | 21.38% | 57 | 28.22% | 299 | 20.27% | 15 | 25.86% |
| TOTAL | 1,735 | 100.00% | 202 | 100.00% | 1,475 | 100.00% | 58 | 100.00% |

*Illegal drugs or narcotics

Section 7: – Pedestrian and Pedalcyclist Crashes

**Table 7 – 7
Lighting Conditions in Pedestrian Crashes**

| Type of Lighting Conditions | Number of Crashes | | | |
|-----------------------------|-------------------|------------|--------------|-----------|
| | Total | Fatal | Injury | PDO |
| Daylight | 805 | 33 | 737 | 35 |
| Dawn | 28 | 4 | 23 | 1 |
| Dusk | 47 | 4 | 41 | 2 |
| Dark - Lighted | 586 | 108 | 467 | 11 |
| Dark - Not Lighted | 159 | 34 | 121 | 4 |
| Dark - Unknown Lighting | 18 | 10 | 8 | 0 |
| TOTAL | 1,643 | 193 | 1,397 | 53 |

**Table 7 – 8
Weather Conditions in Pedestrian Crashes**

| Type of Weather Conditions | Number of Crashes | | | |
|----------------------------|-------------------|------------|--------------|-----------|
| | Total | Fatal | Injury | PDO |
| Clear | 1,432 | 157 | 1,227 | 48 |
| Cloudy | 128 | 19 | 105 | 4 |
| Sleet/Hail | 1 | 1 | 0 | 0 |
| Rain | 57 | 4 | 52 | 1 |
| Snow | 1 | 0 | 1 | 0 |
| Severe Crosswinds | 0 | 0 | 0 | 0 |
| Blowing Sand, Soil, Dirt | 0 | 0 | 0 | 0 |
| Fog, Smog, Smoke | 0 | 0 | 0 | 0 |
| Blowing Snow | 0 | 0 | 0 | 0 |
| Other | 1 | 0 | 1 | 0 |
| Unknown | 23 | 12 | 11 | 0 |
| TOTAL | 1,643 | 193 | 1,397 | 53 |

**Table 7 – 9
Pedalcyclists Killed and Injured by Age and Gender**

| Age Group | Pedalcyclists Killed | | | Pedalcyclists Injured | | | |
|--------------|----------------------|-----------|----------|-----------------------|--------------|------------|----------------|
| | Total | Male | Female | Total | Male | Female | Gender Unknown |
| 0-4 | 0 | 0 | 0 | 7 | 6 | 1 | 0 |
| 5-9 | 0 | 0 | 0 | 25 | 17 | 8 | 0 |
| 10-14 | 0 | 0 | 0 | 105 | 79 | 26 | 0 |
| 15-19 | 1 | 0 | 1 | 167 | 139 | 28 | 0 |
| 20-24 | 2 | 1 | 1 | 141 | 106 | 35 | 0 |
| 25-34 | 4 | 3 | 1 | 260 | 193 | 67 | 0 |
| 35-44 | 4 | 4 | 0 | 161 | 109 | 52 | 0 |
| 45-54 | 5 | 5 | 0 | 213 | 161 | 52 | 0 |
| 55-64 | 4 | 3 | 1 | 149 | 122 | 27 | 0 |
| 65-74 | 8 | 5 | 3 | 83 | 77 | 6 | 0 |
| 75 & Older | 3 | 3 | 0 | 20 | 19 | 1 | 0 |
| Unknown | 0 | 0 | 0 | 19 | 10 | 4 | 5 |
| TOTAL | 31 | 24 | 7 | 1,350 | 1,038 | 307 | 5 |

Section 7: – Pedestrian and Pedalcyclist Crashes

Table 7 – 10

Pedalcycle Crashes by Geographic Location

| Category | Total | Urban | Percent of Total | Rural | Percent of Total |
|------------------------------|-------|-------|------------------|-------|------------------|
| Total Crashes | 1,479 | 1,336 | 90.33% | 143 | 9.67% |
| Fatal Crashes | 31 | 21 | 67.74% | 10 | 32.26% |
| Injury Crashes | 1,335 | 1,222 | 91.54% | 113 | 8.46% |
| PDO Crashes | 113 | 93 | 82.30% | 20 | 17.70% |
| Pedalcyclists Killed | 31 | 20 | 64.52% | 11 | 35.48% |
| Pedalcyclists Injured | 1,350 | 1,235 | 91.48% | 115 | 8.52% |

Table 7 – 11

Pedalcycle Crash History

| Year | Pedalcycle Crashes | Percent of all Crashes | Pedalcyclists Killed | Percent of all Fatalities | Pedalcyclists Injured | Percent of all Injuries |
|-------------|--------------------|------------------------|----------------------|---------------------------|-----------------------|-------------------------|
| 2012 | 2,147 | 2.07% | 18 | 2.19% | 1,767 | 3.53% |
| 2013 | 2,039 | 1.90% | 29 | 3.42% | 1,680 | 3.33% |
| 2014 | 1,746 | 1.59% | 29 | 3.75% | 1,469 | 2.88% |
| 2015 | 1,435 | 1.23% | 28 | 3.12% | 1,278 | 2.38% |
| 2016 | 1,479 | 1.16% | 31 | 3.26% | 1,350 | 2.38% |

Table 7 – 12

Lighting Conditions in Pedalcyclist Crashes

| Type of Lighting Conditions | Number of Crashes | | | |
|--------------------------------|-------------------|-----------|--------------|------------|
| | Total | Fatal | Injury | PDO |
| Daylight | 1,124 | 19 | 1,023 | 82 |
| Dawn | 21 | 1 | 20 | 0 |
| Dusk | 52 | 2 | 45 | 5 |
| Dark - Lighted | 234 | 8 | 203 | 23 |
| Dark - Not Lighted | 42 | 1 | 39 | 2 |
| Dark - Unknown Lighting | 6 | 0 | 5 | 1 |
| TOTAL | 1,479 | 31 | 1,335 | 113 |

Table 7 – 13

Weather Conditions in Pedalcyclist Crashes

| Type of Weather Conditions | Number of Crashes | | | |
|---------------------------------|-------------------|-----------|--------------|------------|
| | Total | Fatal | Injury | PDO |
| Clear | 1,337 | 25 | 1,208 | 104 |
| Cloudy | 106 | 4 | 95 | 7 |
| Sleet/Hail | 0 | 0 | 0 | 0 |
| Rain | 22 | 0 | 21 | 1 |
| Snow | 0 | 0 | 0 | 0 |
| Severe Crosswinds | 0 | 0 | 0 | 0 |
| Blowing Sand, Soil, Dirt | 1 | 0 | 1 | 0 |
| Fog, Smog, Smoke | 0 | 0 | 0 | 0 |
| Blowing Snow | 0 | 0 | 0 | 0 |
| Other | 2 | 0 | 2 | 0 |
| Unknown | 11 | 2 | 8 | 1 |
| TOTAL | 1,479 | 31 | 1,335 | 113 |

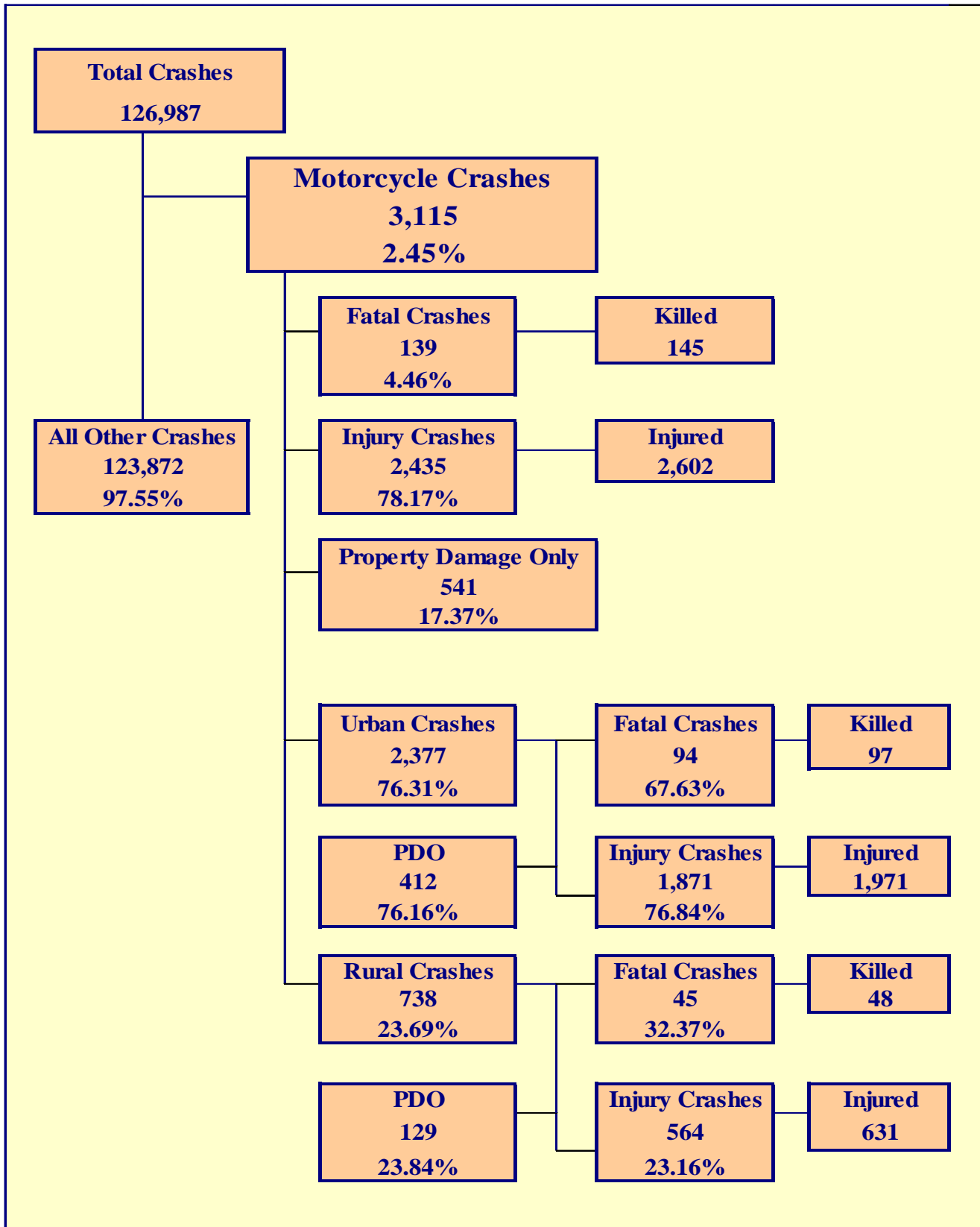
Section 7: – Pedestrian and Pedalcyclist Crashes

Table 7 – 14
Pedestrian Crashes by County

| County | Number of Crashes | | | | Number of Pedestrians | |
|--------------|-------------------|------------|--------------|-----------|-----------------------|--------------|
| | Total | Fatal | Injury | PDO | Killed | Injured |
| Apache | 7 | 5 | 2 | 0 | 5 | 2 |
| Cochise | 10 | 2 | 8 | 0 | 2 | 9 |
| Coconino | 33 | 5 | 26 | 2 | 5 | 27 |
| Gila | 5 | 2 | 3 | 0 | 2 | 3 |
| Graham | 3 | 0 | 3 | 0 | 0 | 3 |
| Greenlee | 0 | 0 | 0 | 0 | 0 | 0 |
| La Paz | 2 | 2 | 0 | 0 | 2 | 1 |
| Maricopa | 1,214 | 136 | 1,036 | 42 | 135 | 1,081 |
| Mohave | 21 | 4 | 16 | 1 | 4 | 16 |
| Navajo | 12 | 4 | 7 | 1 | 4 | 7 |
| Pima | 263 | 23 | 237 | 3 | 23 | 243 |
| Pinal | 28 | 6 | 19 | 3 | 6 | 23 |
| Santa Cruz | 2 | 0 | 1 | 1 | 0 | 1 |
| Yavapai | 20 | 3 | 17 | 0 | 4 | 18 |
| Yuma | 23 | 1 | 22 | 0 | 1 | 24 |
| TOTAL | 1,643 | 193 | 1,397 | 53 | 193 | 1,458 |

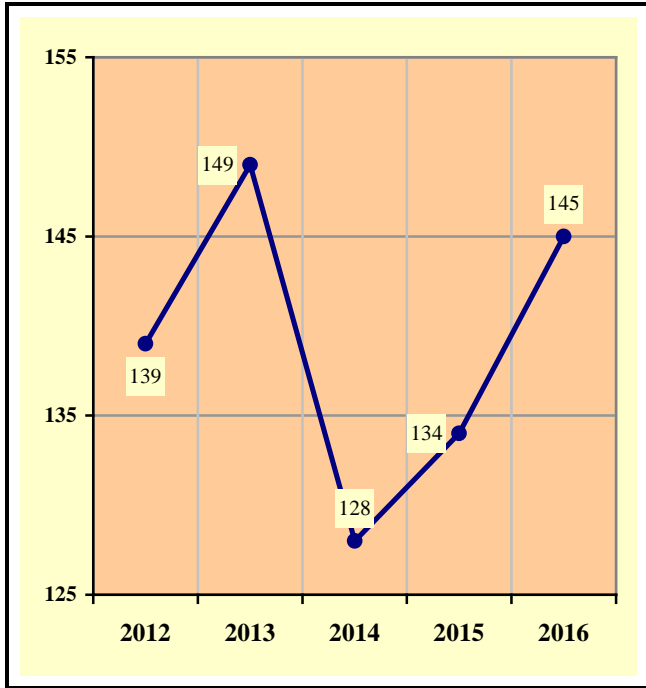
Table 7 – 15
Pedalcyclist Crashes by County

| County | Number of Crashes | | | | Number of Pedalcyclists | |
|--------------|-------------------|-----------|--------------|------------|-------------------------|--------------|
| | Total | Fatal | Injury | PDO | Killed | Injured |
| Apache | 0 | 0 | 0 | 0 | 0 | 0 |
| Cochise | 6 | 0 | 6 | 0 | 0 | 6 |
| Coconino | 35 | 0 | 31 | 4 | 0 | 31 |
| Gila | 5 | 0 | 5 | 0 | 0 | 5 |
| Graham | 2 | 0 | 2 | 0 | 0 | 2 |
| Greenlee | 0 | 0 | 0 | 0 | 0 | 0 |
| La Paz | 0 | 0 | 0 | 0 | 0 | 0 |
| Maricopa | 1,087 | 24 | 981 | 82 | 23 | 992 |
| Mohave | 21 | 0 | 18 | 3 | 0 | 19 |
| Navajo | 4 | 0 | 4 | 0 | 0 | 4 |
| Pima | 246 | 5 | 222 | 19 | 6 | 225 |
| Pinal | 25 | 2 | 21 | 2 | 2 | 21 |
| Santa Cruz | 0 | 0 | 0 | 0 | 0 | 0 |
| Yavapai | 14 | 0 | 12 | 2 | 0 | 12 |
| Yuma | 34 | 0 | 33 | 1 | 0 | 33 |
| TOTAL | 1,479 | 31 | 1,335 | 113 | 31 | 1,350 |

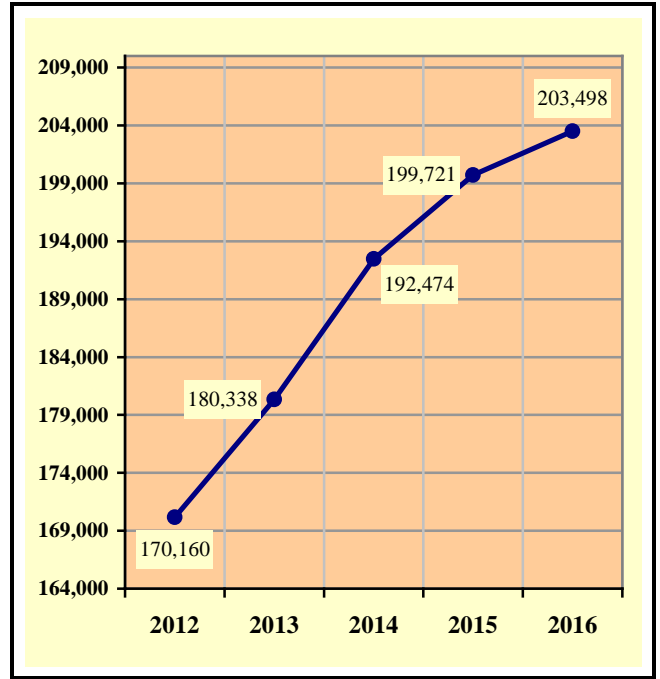


Section 8: – Motorcycle (MC) Crashes

**Chart 8 – 1
MC Fatalities by Year**

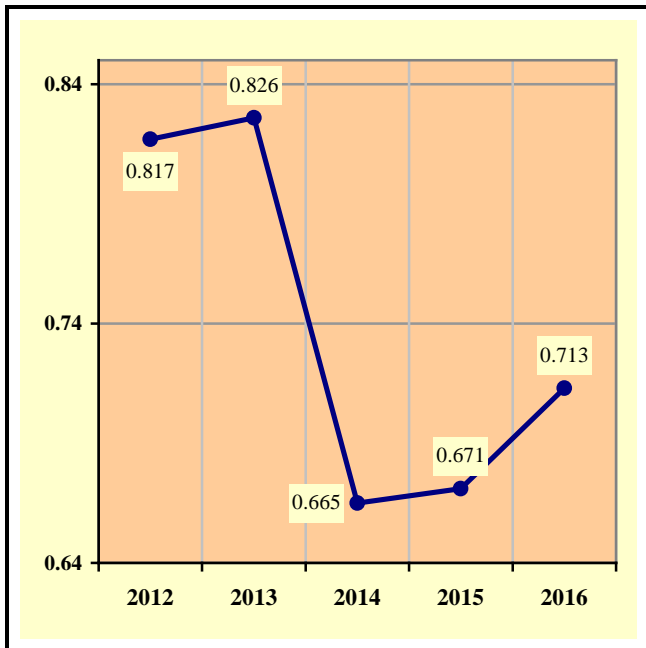


**Chart 8 – 2
MC Registrations in Arizona**

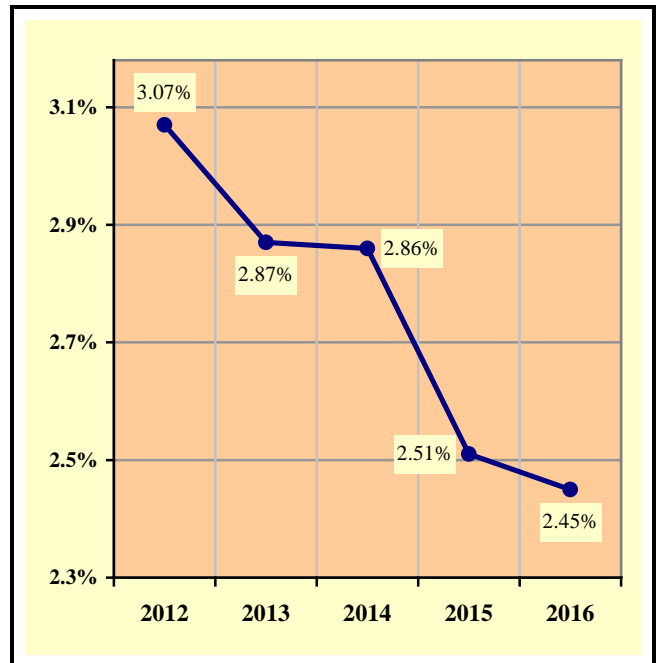


Total Point-in-Time of Registered Motorcycles at the end of
Calendar year 2016.
(Source: MVD - MV988 MV630419 Currently Registered Vehicles by County
Listing (motorcycle sub category), reports dated 12/31/16.)

**Chart 8 – 3
Fatality Rate per Registered MC**



**Chart 8 – 4
Percent of MC Crashes to All Crashes**



Section 8: – Motorcycle (MC) Crashes

**Table 8 – 1
MC Crashes by First Harmful Event**

| First Harmful Event Type | Number of Crashes | | | |
|---|-------------------|------------|--------------|------------|
| | Total | Fatal | Injury | PDO |
| Collision with Motor Vehicle in Transport | 1,783 | 85 | 1,317 | 381 |
| Overtuning | 697 | 24 | 607 | 66 |
| Collision with Pedestrian | 19 | 0 | 19 | 0 |
| Collision with Pedalcyclist | 13 | 0 | 12 | 1 |
| Collision with Animal | 31 | 0 | 24 | 7 |
| Collision with Fixed Object | 311 | 28 | 257 | 26 |
| Collision with Non-fixed Object* | 76 | 2 | 45 | 29 |
| Vehicle Fire or Explosion | 2 | 0 | 1 | 1 |
| Other Non-collision** | 53 | 0 | 45 | 8 |
| Unknown | 130 | 0 | 108 | 22 |
| TOTAL | 3,115 | 139 | 2,435 | 541 |
| *Includes Collision with Parked Vehicles, Trains, Railway Vehicles, and Work Zone Equipment | | | | |
| **Includes Vehicle Immersion, Jackknife, and Cargo Loss or Shift | | | | |

**Table 8 – 2
Lighting Conditions in MC Crashes**

| Type of Lighting Conditions | Number of Crashes | | | |
|-----------------------------|-------------------|------------|--------------|------------|
| | Total | Fatal | Injury | PDO |
| Daylight | 2,107 | 75 | 1,658 | 374 |
| Dawn | 49 | 1 | 39 | 9 |
| Dusk | 114 | 8 | 85 | 21 |
| Dark - Lighted | 668 | 42 | 516 | 110 |
| Dark - Not Lighted | 163 | 11 | 129 | 23 |
| Dark - Unknown Lighting | 14 | 2 | 8 | 4 |
| TOTAL | 3,115 | 139 | 2,435 | 541 |

**Table 8 – 3
Road Surface Conditions in MC Crashes**

| Type of Road Surface Condition | Number of Operators | | | |
|--------------------------------|---------------------|------------------|-------------------|----------------|
| | Total | In Fatal Crashes | In Injury Crashes | In PDO Crashes |
| Dry | 3,049 | 138 | 2,394 | 517 |
| Wet | 84 | 3 | 63 | 18 |
| Snow | 0 | 0 | 0 | 0 |
| Slush | 3 | 0 | 0 | 3 |
| Ice/Frost | 0 | 0 | 0 | 0 |
| Water (standing or moving) | 1 | 0 | 1 | 0 |
| Sand | 3 | 0 | 2 | 1 |
| Mud, Dirt, Gravel | 23 | 1 | 15 | 7 |
| Oil | 9 | 0 | 9 | 0 |
| Other | 4 | 0 | 3 | 1 |
| Unknown | 14 | 1 | 2 | 11 |
| TOTAL | 3,190 | 143 | 2,489 | 558 |

Section 8: – Motorcycle (MC) Crashes

Table 8 – 4
MC Crashes by Geographic Location

| Category | Total | Urban | Percent of Total | Rural | Percent of Total |
|------------------------|-------|-------|------------------|-------|------------------|
| Total Crashes | 3,115 | 2,377 | 76.31% | 738 | 23.69% |
| Fatal Crashes | 139 | 94 | 67.63% | 45 | 32.37% |
| Injury Crashes | 2,435 | 1,871 | 76.84% | 564 | 23.16% |
| PDO Crashes | 541 | 412 | 76.16% | 129 | 23.84% |
| Persons Killed | 145 | 97 | 66.90% | 48 | 33.10% |
| Persons Injured | 2,602 | 1,971 | 75.75% | 631 | 24.25% |

Table 8 – 5
Operator Involvement by Age in MC Crashes

| Operator Age Group | Number of Operators | | | | | | | |
|-----------------------|---------------------|------------------|------------------|------------------|-------------------|-------------------|----------------|----------------|
| | Total | Percent of Total | In Fatal Crashes | Percent of Fatal | In Injury Crashes | Percent of Injury | In PDO Crashes | Percent of PDO |
| 15 & Under | 9 | 0.28% | 1 | 0.70% | 8 | 0.32% | 0 | 0.00% |
| 16 | 13 | 0.41% | 0 | 0.00% | 12 | 0.48% | 1 | 0.18% |
| 17 | 14 | 0.44% | 0 | 0.00% | 11 | 0.44% | 3 | 0.54% |
| 18 | 41 | 1.29% | 2 | 1.40% | 31 | 1.25% | 8 | 1.43% |
| 19 | 78 | 2.45% | 1 | 0.70% | 62 | 2.49% | 15 | 2.69% |
| 20 | 97 | 3.04% | 1 | 0.70% | 75 | 3.01% | 21 | 3.76% |
| 21 | 96 | 3.01% | 3 | 2.10% | 80 | 3.21% | 13 | 2.33% |
| 22 | 118 | 3.70% | 1 | 0.70% | 101 | 4.06% | 16 | 2.87% |
| 23 | 89 | 2.79% | 3 | 2.10% | 73 | 2.93% | 13 | 2.33% |
| 24 | 101 | 3.17% | 5 | 3.50% | 81 | 3.25% | 15 | 2.69% |
| 25-34 | 711 | 22.29% | 27 | 18.88% | 574 | 23.06% | 110 | 19.71% |
| 35-44 | 487 | 15.27% | 27 | 18.88% | 382 | 15.35% | 78 | 13.98% |
| 45-54 | 559 | 17.52% | 32 | 22.38% | 442 | 17.76% | 85 | 15.23% |
| 55-64 | 459 | 14.39% | 25 | 17.48% | 359 | 14.42% | 75 | 13.44% |
| 65-74 | 192 | 6.02% | 12 | 8.39% | 150 | 6.03% | 30 | 5.38% |
| 75 & Older | 30 | 0.94% | 3 | 2.10% | 21 | 0.84% | 6 | 1.08% |
| Unknown | 96 | 3.01% | 0 | 0.00% | 27 | 1.08% | 69 | 12.37% |
| TOTAL | 3,190 | 100.00% | 143 | 100.00% | 2,489 | 100.00% | 558 | 100.00% |

Table 8 – 6
MC Operator Physical Condition

| Type of Condition | Number of Operators | | | | | | | |
|---|---------------------|------------------|------------------|------------------|-------------------|-------------------|----------------|----------------|
| | Total | Percent of Total | In Fatal Crashes | Percent of Fatal | In Injury Crashes | Percent of Injury | In PDO Crashes | Percent of PDO |
| No Apparent Influence | 2,704 | 84.76% | 50 | 34.97% | 2,170 | 87.18% | 484 | 86.74% |
| Alcohol | 183 | 5.74% | 43 | 30.07% | 133 | 5.34% | 7 | 1.25% |
| Appeared to be Under the Influence of Drugs* | 20 | 0.63% | 14 | 9.79% | 6 | 0.24% | 0 | 0.00% |
| Medications | 1 | 0.03% | 0 | 0.00% | 1 | 0.04% | 0 | 0.00% |
| Illness | 5 | 0.16% | 0 | 0.00% | 4 | 0.16% | 1 | 0.18% |
| Physical Impairment | 1 | 0.03% | 0 | 0.00% | 1 | 0.04% | 0 | 0.00% |
| Fell Asleep or Fatigued | 5 | 0.16% | 0 | 0.00% | 4 | 0.16% | 1 | 0.18% |
| Other | 21 | 0.66% | 0 | 0.00% | 11 | 0.44% | 10 | 1.79% |
| Unknown | 250 | 7.84% | 36 | 25.17% | 159 | 6.39% | 55 | 9.86% |
| TOTAL | 3,190 | 100.00% | 143 | 100.00% | 2,489 | 100.00% | 558 | 100.00% |

*Illegal drugs or narcotics

Section 8: – Motorcycle (MC) Crashes

Table 8 – 7
Helmet Use by Gender

| Gender | Number of Operators and Passengers | | | | | | | Total | Percent of Total |
|--------------|------------------------------------|------------------------|-----------------|----------------------------|--------------------|--------------------|--------------|----------------|------------------|
| | Helmet Used | Percent of Helmet Used | Helmet Not Used | Percent of Helmet Not Used | Helmet Use Unknown | Percent of Unknown | | | |
| Male | 1,412 | 88.58% | 708 | 86.45% | 810 | 80.36% | 2,930 | 85.65% | |
| Female | 180 | 11.29% | 108 | 13.19% | 133 | 13.19% | 421 | 12.31% | |
| Unknown | 2 | 0.13% | 3 | 0.37% | 65 | 6.45% | 70 | 2.05% | |
| TOTAL | 1,594 | 100.00% | 819 | 100.00% | 1,008 | 100.00% | 3,421 | 100.00% | |

Table 8 – 8
MC Operator’s Helmet Use

| Severity of Injury | Helmet Used | Percent of Total | Helmet Not Used | Percent of Total | Unknown | Percent of Total | Total | Percent of Total |
|---------------------------|--------------|------------------|-----------------|------------------|------------|------------------|--------------|------------------|
| No Injury | 248 | 16.43% | 88 | 11.72% | 238 | 25.59% | 574 | 17.99% |
| Unknown Injury | 6 | 0.40% | 5 | 0.67% | 44 | 4.73% | 55 | 1.72% |
| Possible Injury | 253 | 16.77% | 96 | 12.78% | 165 | 17.74% | 514 | 16.11% |
| Non-Incapacitating Injury | 645 | 42.74% | 305 | 40.61% | 301 | 32.37% | 1,251 | 39.22% |
| Incapacitating Injury | 306 | 20.28% | 186 | 24.77% | 169 | 18.17% | 661 | 20.72% |
| Fatal Injury | 51 | 3.38% | 71 | 9.45% | 13 | 1.40% | 135 | 4.23% |
| TOTALS | 1,509 | 100.00% | 751 | 100.00% | 930 | 100.00% | 3,190 | 100.00% |

Table 8 – 9
MC Passenger’s Helmet Use

| Severity of Injury | Helmet Used | Percent of Total | Helmet Not Used | Percent of Total | Unknown | Percent of Total | Total | Percent of Total |
|---------------------------|-------------|------------------|-----------------|------------------|-----------|------------------|------------|------------------|
| No Injury | 14 | 16.47% | 8 | 11.76% | 18 | 23.08% | 40 | 17.32% |
| Unknown Injury | 0 | 0.00% | 1 | 1.47% | 4 | 5.13% | 5 | 2.16% |
| Possible Injury | 15 | 17.65% | 8 | 11.76% | 16 | 20.51% | 39 | 16.88% |
| Non-Incapacitating Injury | 40 | 47.06% | 29 | 42.65% | 27 | 34.62% | 96 | 41.56% |
| Incapacitating Injury | 13 | 15.29% | 15 | 22.06% | 13 | 16.67% | 41 | 17.75% |
| Fatal Injury | 3 | 3.53% | 7 | 10.29% | 0 | 0.00% | 10 | 4.33% |
| TOTALS | 85 | 100.00% | 68 | 100.00% | 78 | 100.00% | 231 | 100.00% |

Section 8: – Motorcycle (MC) Crashes

Table 8 – 10

MC Operators and Passengers Killed and Injured

| Age of Victim | Persons Killed | | | Persons Injured | | | |
|-----------------------|----------------|------------|-----------|-----------------|--------------|------------|----------------|
| | Total | Male | Female | Total | Male | Female | Gender Unknown |
| 0-4 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| 5-9 | 0 | 0 | 0 | 4 | 3 | 1 | 0 |
| 10-14 | 0 | 0 | 0 | 13 | 8 | 5 | 0 |
| 15-19 | 5 | 4 | 1 | 131 | 115 | 16 | 0 |
| 20-24 | 13 | 12 | 1 | 419 | 388 | 31 | 0 |
| 25-34 | 26 | 23 | 3 | 596 | 529 | 67 | 0 |
| 35-44 | 27 | 26 | 1 | 408 | 348 | 60 | 0 |
| 45-54 | 35 | 31 | 4 | 461 | 374 | 87 | 0 |
| 55-64 | 24 | 23 | 1 | 375 | 323 | 52 | 0 |
| 65-74 | 12 | 11 | 1 | 153 | 141 | 12 | 0 |
| 75 & Older | 3 | 3 | 0 | 21 | 19 | 2 | 0 |
| Unknown | 0 | 0 | 0 | 20 | 14 | 3 | 3 |
| TOTAL | 145 | 133 | 12 | 2,602 | 2,263 | 336 | 3 |

Table 8 – 11

MC Operator Violations

| Type of Violation or Behavior | Number of Operators | | | | | | | |
|--|---------------------|------------------|------------------|------------------|-------------------|-------------------|----------------|----------------|
| | Total | Percent of Total | In Fatal Crashes | Percent of Fatal | In Injury Crashes | Percent of Injury | In PDO Crashes | Percent of PDO |
| No Improper Action | 1,569 | 49.18% | 45 | 31.47% | 1,237 | 49.70% | 287 | 51.43% |
| Speed too Fast for Conditions | 766 | 24.01% | 28 | 19.58% | 617 | 24.79% | 121 | 21.68% |
| Exceeded Lawful Speed | 72 | 2.26% | 11 | 7.69% | 55 | 2.21% | 6 | 1.08% |
| Failed to Yield Right-Of-Way | 81 | 2.54% | 5 | 3.50% | 52 | 2.09% | 24 | 4.30% |
| Followed Too Closely | 79 | 2.48% | 2 | 1.40% | 55 | 2.21% | 22 | 3.94% |
| Ran Stop Sign | 20 | 0.63% | 3 | 2.10% | 16 | 0.64% | 1 | 0.18% |
| Disregarded Traffic Signal | 43 | 1.35% | 5 | 3.50% | 36 | 1.45% | 2 | 0.36% |
| Made Improper Turn | 29 | 0.91% | 1 | 0.70% | 19 | 0.76% | 9 | 1.61% |
| Drove in Opposing Lane | 22 | 0.69% | 3 | 2.10% | 17 | 0.68% | 2 | 0.36% |
| Knowingly Operated with Faulty or Missing Equipment | 11 | 0.34% | 1 | 0.70% | 8 | 0.32% | 2 | 0.36% |
| Required Motorcycle Safety Equipment Not Used | 9 | 0.28% | 4 | 2.80% | 4 | 0.16% | 1 | 0.18% |
| Passed in No-Passing Zone | 8 | 0.25% | 0 | 0.00% | 7 | 0.28% | 1 | 0.18% |
| Unsafe Lane Change | 41 | 1.29% | 0 | 0.00% | 33 | 1.33% | 8 | 1.43% |
| Failed to Keep in Proper Lane | 94 | 2.95% | 13 | 9.09% | 74 | 2.97% | 7 | 1.25% |
| Disregarded Pavement Markings | 6 | 0.19% | 1 | 0.70% | 4 | 0.16% | 1 | 0.18% |
| Other Unsafe Passing | 27 | 0.85% | 0 | 0.00% | 17 | 0.68% | 10 | 1.79% |
| Other | 98 | 3.07% | 3 | 2.10% | 80 | 3.21% | 15 | 2.69% |
| Unknown | 215 | 6.74% | 18 | 12.59% | 158 | 6.35% | 39 | 6.99% |
| TOTAL | 3,190 | 100.00% | 143 | 100.00% | 2,489 | 100.00% | 558 | 100.00% |

Section 8: – Motorcycle (MC) Crashes

Chart 8 – 5

All MC Crashes vs. Fatal MC Crashes by Time of Day - Weekdays

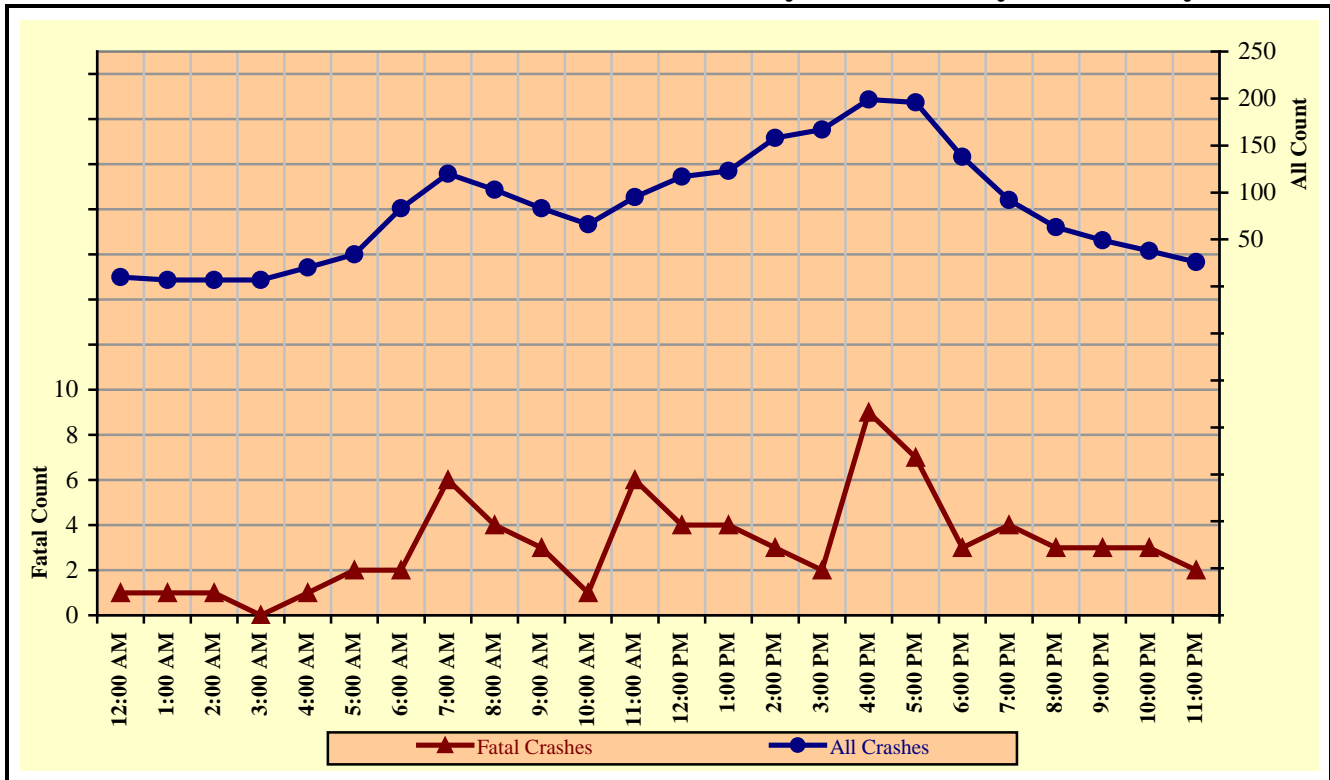
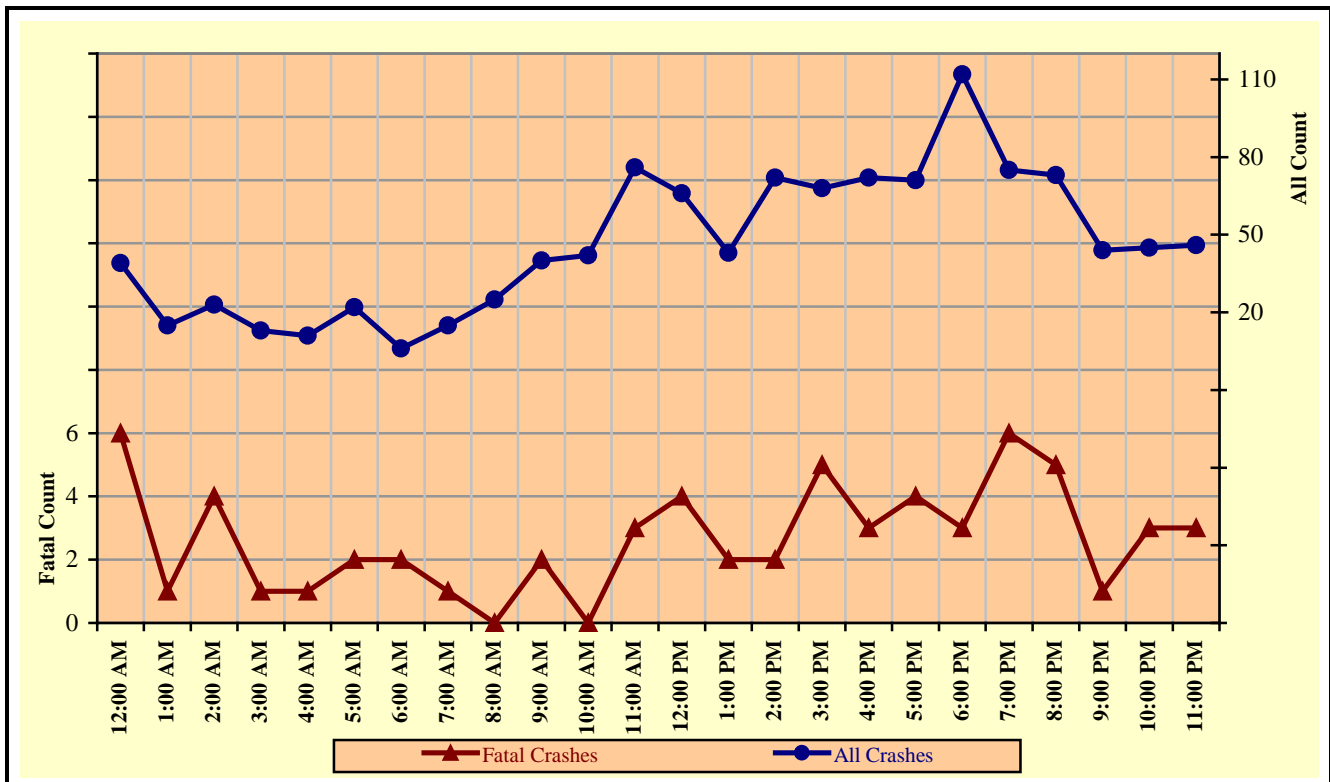


Chart 8 – 6

All MC Crashes vs. Fatal MC Crashes by Time of Day - Weekends



Section 8: – Motorcycle (MC) Crashes

Chart 8 – 7
All MC Crashes vs. Fatal MC Crashes by Day of Week

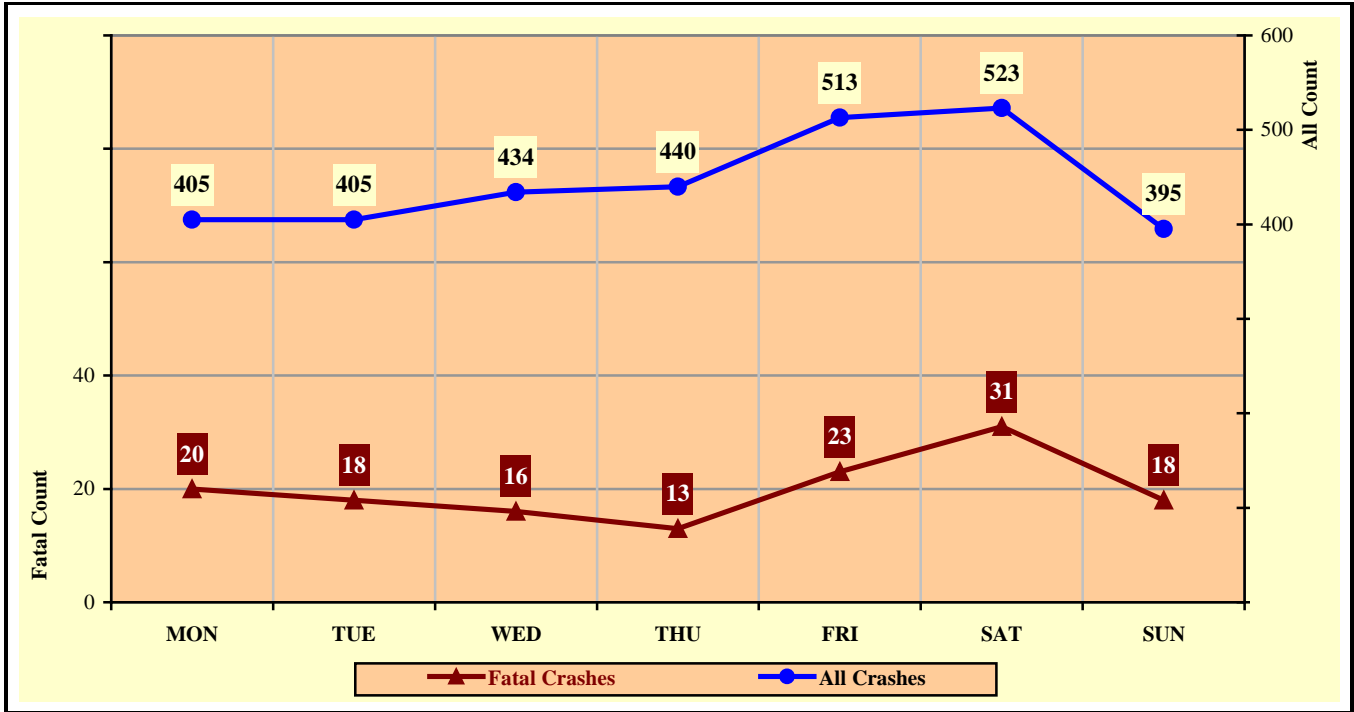
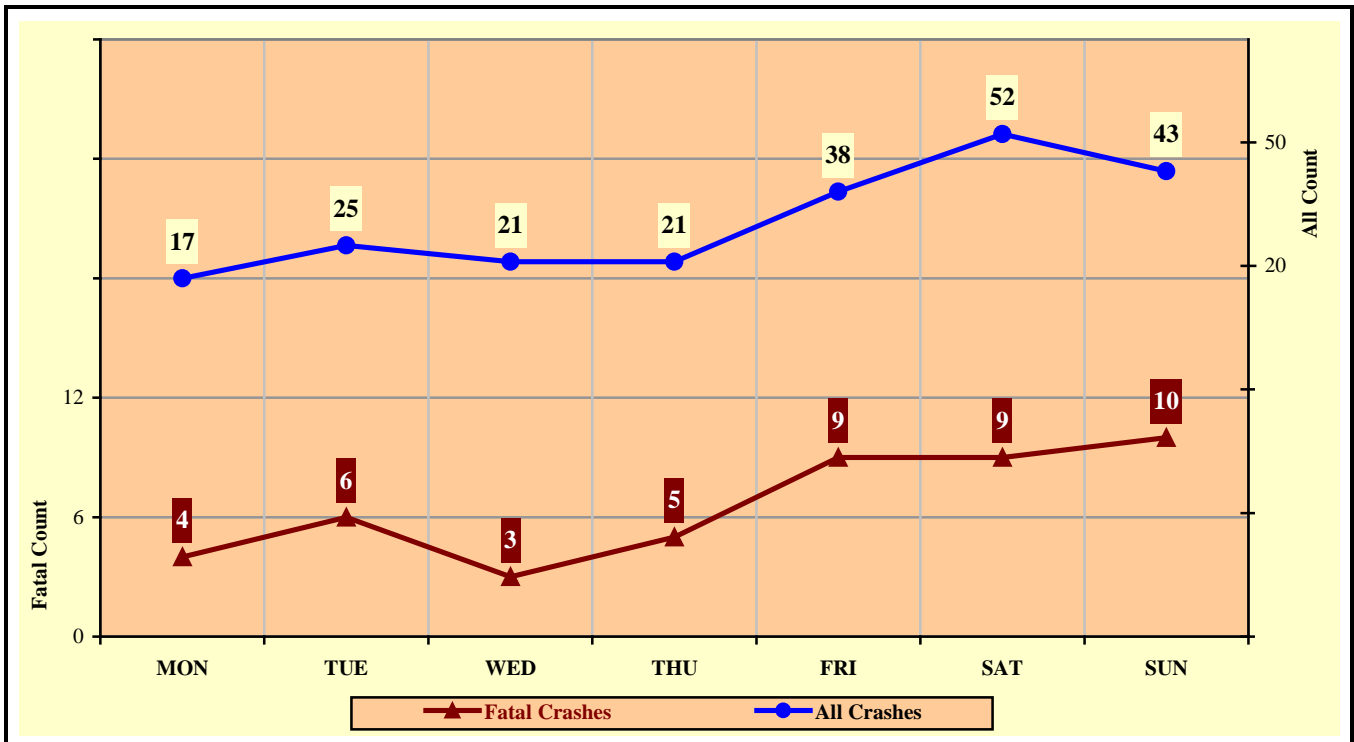


Chart 8 – 8
Alcohol Related MC Crashes vs. Fatal Alcohol Related MC Crashes by Day of Week



Section 8: – Motorcycle (MC) Crashes

Table 8 – 12
MC Crashes by Hour and Day of Week

| Hour Beginning | Total Crashes | | Monday | | Tuesday | | Wednesday | | Thursday | | Friday | | Saturday | | Sunday | | Weekdays | | Weekends | |
|----------------|---------------|------------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|--------------|-----------|--------------|-----------|
| | All | Fatal | All | Fatal | All | Fatal | All | Fatal | All | Fatal | All | Fatal | All | Fatal | All | Fatal | All | Fatal | All | Fatal |
| 12:00 AM | 49 | 7 | 4 | 0 | 2 | 1 | 5 | 0 | 1 | 0 | 2 | 0 | 17 | 3 | 18 | 3 | 10 | 1 | 39 | 6 |
| 1:00 AM | 22 | 2 | 4 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 4 | 0 | 6 | 0 | 5 | 1 | 7 | 1 | 15 | 1 |
| 2:00 AM | 30 | 5 | 3 | 1 | 1 | 0 | 1 | 0 | 2 | 0 | 3 | 1 | 8 | 3 | 12 | 0 | 7 | 1 | 23 | 4 |
| 3:00 AM | 20 | 1 | 3 | 0 | 1 | 0 | 3 | 0 | 2 | 0 | 1 | 0 | 6 | 0 | 4 | 1 | 7 | 0 | 13 | 1 |
| 4:00 AM | 31 | 2 | 4 | 0 | 6 | 0 | 4 | 0 | 6 | 0 | 4 | 1 | 3 | 1 | 4 | 0 | 20 | 1 | 11 | 1 |
| 5:00 AM | 56 | 4 | 10 | 2 | 9 | 0 | 5 | 0 | 12 | 1 | 8 | 1 | 4 | 0 | 8 | 0 | 34 | 2 | 22 | 2 |
| 6:00 AM | 89 | 4 | 13 | 1 | 15 | 0 | 13 | 1 | 25 | 0 | 17 | 0 | 5 | 2 | 1 | 0 | 83 | 2 | 6 | 2 |
| 7:00 AM | 135 | 7 | 22 | 2 | 29 | 2 | 28 | 1 | 21 | 1 | 20 | 0 | 9 | 1 | 6 | 0 | 120 | 6 | 15 | 1 |
| 8:00 AM | 128 | 4 | 18 | 2 | 20 | 1 | 21 | 1 | 25 | 0 | 19 | 0 | 20 | 0 | 5 | 0 | 103 | 4 | 25 | 0 |
| 9:00 AM | 123 | 5 | 16 | 0 | 16 | 0 | 17 | 1 | 17 | 0 | 17 | 2 | 22 | 2 | 18 | 0 | 83 | 3 | 40 | 2 |
| 10:00 AM | 108 | 1 | 13 | 0 | 13 | 0 | 11 | 1 | 11 | 0 | 18 | 0 | 26 | 0 | 16 | 0 | 66 | 1 | 42 | 0 |
| 11:00 AM | 171 | 9 | 14 | 1 | 12 | 4 | 22 | 0 | 16 | 0 | 31 | 1 | 41 | 0 | 35 | 3 | 95 | 6 | 76 | 3 |
| 12:00 PM | 183 | 8 | 25 | 3 | 22 | 0 | 24 | 0 | 19 | 0 | 27 | 1 | 42 | 4 | 24 | 0 | 117 | 4 | 66 | 4 |
| 1:00 PM | 166 | 6 | 23 | 0 | 17 | 0 | 34 | 2 | 26 | 2 | 23 | 0 | 27 | 2 | 16 | 0 | 123 | 4 | 43 | 2 |
| 2:00 PM | 230 | 5 | 31 | 1 | 32 | 0 | 28 | 2 | 27 | 0 | 40 | 0 | 33 | 1 | 39 | 1 | 158 | 3 | 72 | 2 |
| 3:00 PM | 235 | 7 | 33 | 1 | 36 | 0 | 25 | 1 | 39 | 0 | 34 | 0 | 41 | 3 | 27 | 2 | 167 | 2 | 68 | 5 |
| 4:00 PM | 271 | 12 | 34 | 2 | 39 | 2 | 54 | 1 | 38 | 3 | 34 | 1 | 46 | 2 | 26 | 1 | 199 | 9 | 72 | 3 |
| 5:00 PM | 267 | 11 | 23 | 0 | 39 | 2 | 42 | 2 | 49 | 0 | 43 | 3 | 32 | 2 | 39 | 2 | 196 | 7 | 71 | 4 |
| 6:00 PM | 250 | 6 | 41 | 0 | 29 | 1 | 38 | 1 | 30 | 1 | 46 | 2 | 38 | 0 | 28 | 1 | 138 | 3 | 112 | 3 |
| 7:00 PM | 167 | 10 | 22 | 2 | 25 | 1 | 14 | 0 | 31 | 1 | 25 | 3 | 27 | 1 | 23 | 2 | 92 | 4 | 75 | 6 |
| 8:00 PM | 136 | 8 | 18 | 0 | 15 | 1 | 15 | 1 | 15 | 1 | 34 | 3 | 25 | 2 | 14 | 0 | 63 | 3 | 73 | 5 |
| 9:00 PM | 93 | 4 | 14 | 0 | 13 | 1 | 11 | 1 | 11 | 1 | 20 | 1 | 15 | 0 | 9 | 0 | 49 | 3 | 44 | 1 |
| 10:00 PM | 83 | 6 | 14 | 2 | 8 | 1 | 7 | 0 | 9 | 0 | 20 | 1 | 12 | 1 | 13 | 1 | 38 | 3 | 45 | 3 |
| 11:00 PM | 72 | 5 | 3 | 0 | 5 | 0 | 11 | 0 | 7 | 2 | 23 | 2 | 18 | 1 | 5 | 0 | 26 | 2 | 46 | 3 |
| TOTAL | 3,115 | 139 | 405 | 20 | 405 | 18 | 434 | 16 | 440 | 13 | 513 | 23 | 523 | 31 | 395 | 18 | 2,001 | 75 | 1,114 | 64 |

Crashes during Weekends accounted for 35.76% of all MC crashes and 46.04% of Fatal MC Crashes.

Crashes during Weekdays accounted for 64.24% of all MC crashes and 53.96% of Fatal MC Crashes.

Section 8: – Motorcycle (MC) Crashes

Table 8 – 13

MC Crashes by County

| County | Number of Crashes | | | | Number of Persons | |
|--------------|-------------------|------------|--------------|------------|-------------------|--------------|
| | Total | Fatal | Injury | PDO | Killed | Injured |
| Apache | 6 | 0 | 5 | 1 | 0 | 5 |
| Cochise | 57 | 3 | 45 | 9 | 3 | 49 |
| Coconino | 75 | 1 | 48 | 26 | 1 | 63 |
| Gila | 34 | 4 | 27 | 3 | 5 | 33 |
| Graham | 5 | 1 | 4 | 0 | 1 | 5 |
| Greenlee | 8 | 0 | 7 | 1 | 0 | 9 |
| La Paz | 17 | 2 | 15 | 0 | 2 | 18 |
| Maricopa | 2,056 | 84 | 1,610 | 362 | 86 | 1,690 |
| Mohave | 110 | 9 | 80 | 21 | 10 | 90 |
| Navajo | 14 | 0 | 10 | 4 | 0 | 14 |
| Pima | 385 | 18 | 316 | 51 | 19 | 330 |
| Pinal | 145 | 8 | 113 | 24 | 8 | 130 |
| Santa Cruz | 11 | 0 | 11 | 0 | 0 | 11 |
| Yavapai | 133 | 6 | 99 | 28 | 7 | 107 |
| Yuma | 59 | 3 | 45 | 11 | 3 | 48 |
| TOTAL | 3,115 | 139 | 2,435 | 541 | 145 | 2,602 |

Table 8 – 14

Manner of Collision in MC Crashes

| Manner of Collision Type | Number of Crashes | | | | | | | |
|--------------------------|-------------------|------------------------|-----------|--------------------------|--------------|---------------------------|------------|------------------------|
| | Total | Percent of All Crashes | Fatal | Percent of Fatal Crashes | Injury | Percent of Injury Crashes | PDO | Percent of PDO Crashes |
| Angle | 326 | 16.32% | 20 | 21.28% | 270 | 18.29% | 36 | 8.43% |
| Left Turn | 497 | 24.89% | 33 | 35.11% | 389 | 26.36% | 75 | 17.56% |
| Rear End | 669 | 33.50% | 15 | 15.96% | 449 | 30.42% | 205 | 48.01% |
| Head-On | 39 | 1.95% | 4 | 4.26% | 30 | 2.03% | 5 | 1.17% |
| Sideswipe (same) | 279 | 13.97% | 11 | 11.70% | 197 | 13.35% | 71 | 16.63% |
| Sideswipe (opposite) | 32 | 1.60% | 0 | 0.00% | 28 | 1.90% | 4 | 0.94% |
| Rear to Side | 9 | 0.45% | 0 | 0.00% | 5 | 0.34% | 4 | 0.94% |
| Rear to Rear | 3 | 0.15% | 0 | 0.00% | 2 | 0.14% | 1 | 0.23% |
| Other | 127 | 6.36% | 11 | 11.70% | 95 | 6.44% | 21 | 4.92% |
| Unknown | 16 | 0.80% | 0 | 0.00% | 11 | 0.75% | 5 | 1.17% |
| TOTAL | 1,997 | 100.00% | 94 | 100.00% | 1,476 | 100.00% | 427 | 100.00% |

Note: Includes only multi-vehicle MC crashes

Acknowledgements

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Multimodal Planning Division, Arizona Department of Transportation

The Federal Highway Administration, U.S. Department of Transportation

National Highway Transportation Safety Administration

Arizona Motor Vehicle **CRASH FACTS**

The data in this highlights document is based on the original crash facts report and will differ from the data in the updated publication.

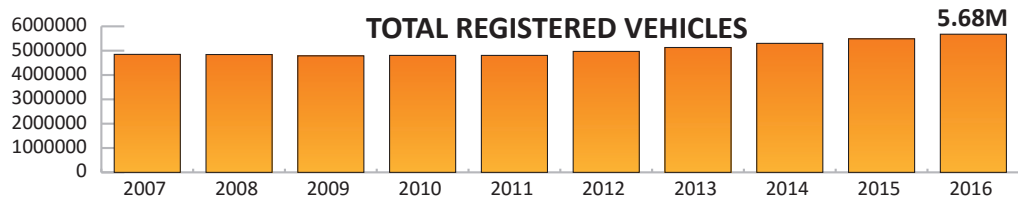
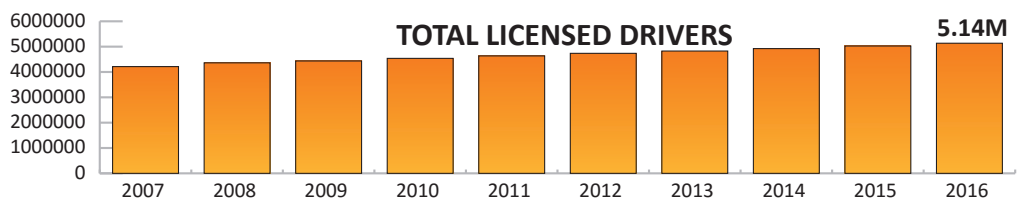
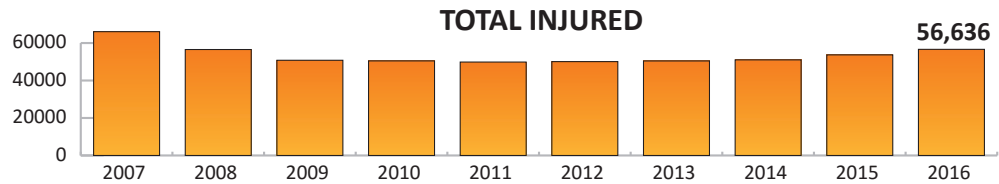
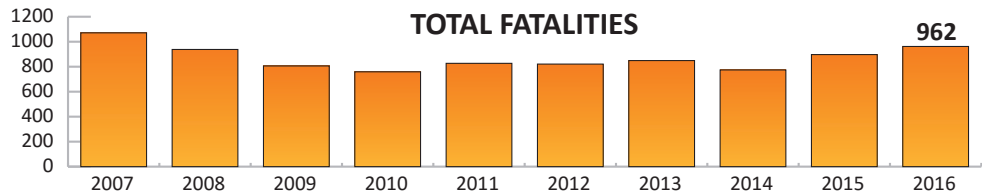
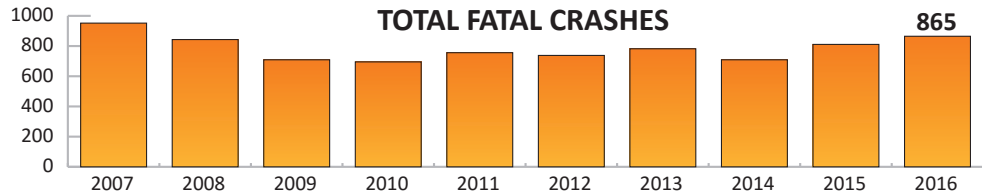
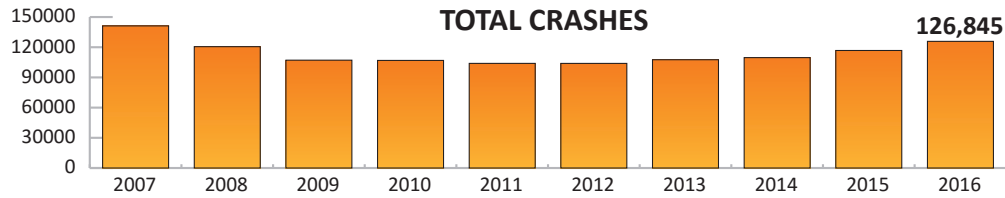
2016



azdot.gov/crashfacts

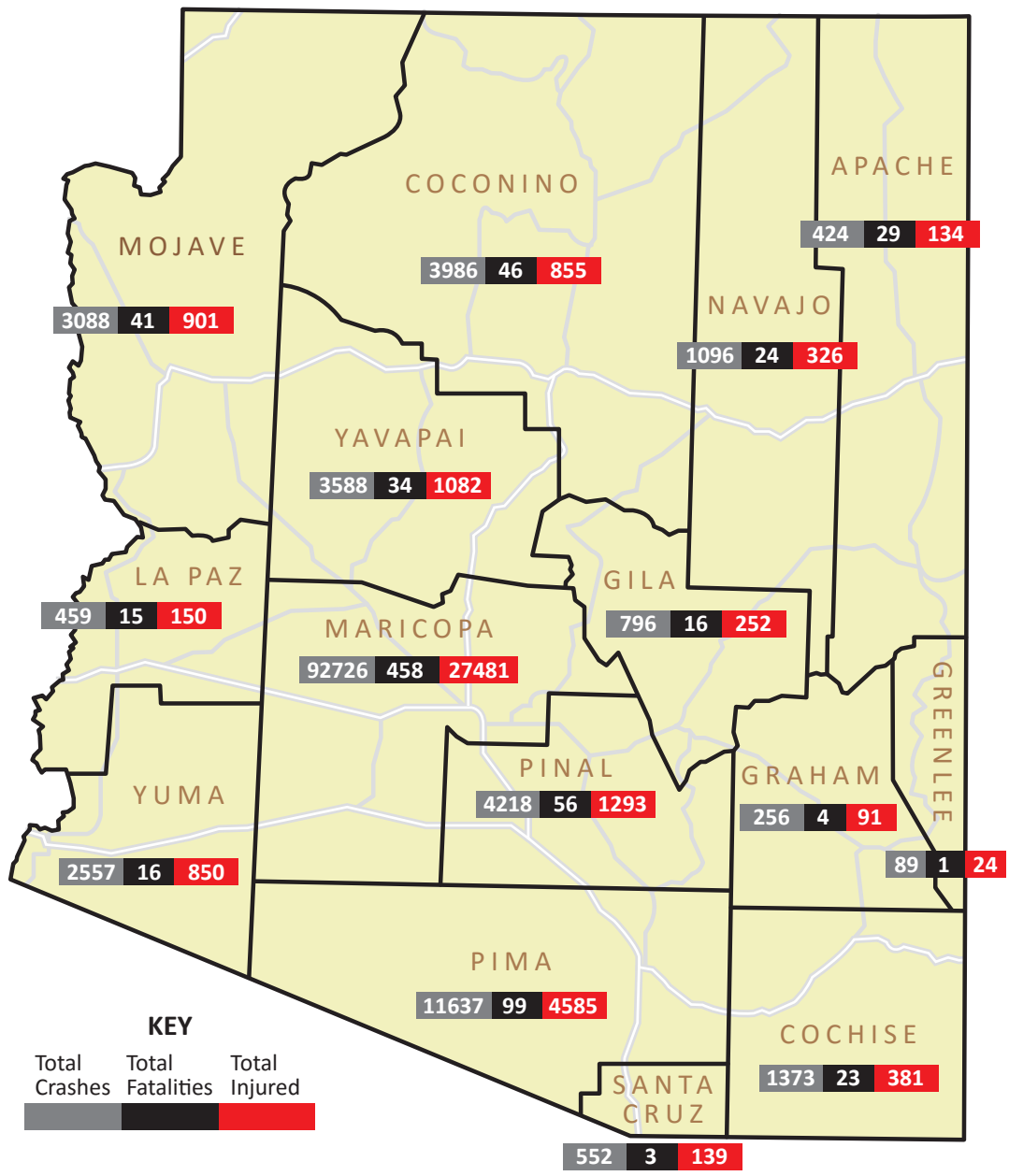
ADOT

HISTORICAL TRENDS



In the past decade, nearly one million licensed drivers and registered vehicles have been added to Arizona's roadways. Despite these increases, **the total number of vehicle crashes, fatalities and injuries are fewer today than in 2007**. Still, these crashes, fatalities and injuries are increasing and nearly every collision is preventable.

TOTAL CRASHES, FATALITIES AND INJURED BY COUNTY



Crashes occur on all kinds of roadways, from heavily-traveled freeways to back-country switchbacks. Of the 126,845 collisions in 2016, 30.3 percent happened on the state highway system, while 69.7 percent occurred on other roadways, such as city streets and county roads.

DRIVER BEHAVIOR BREAKDOWN



295

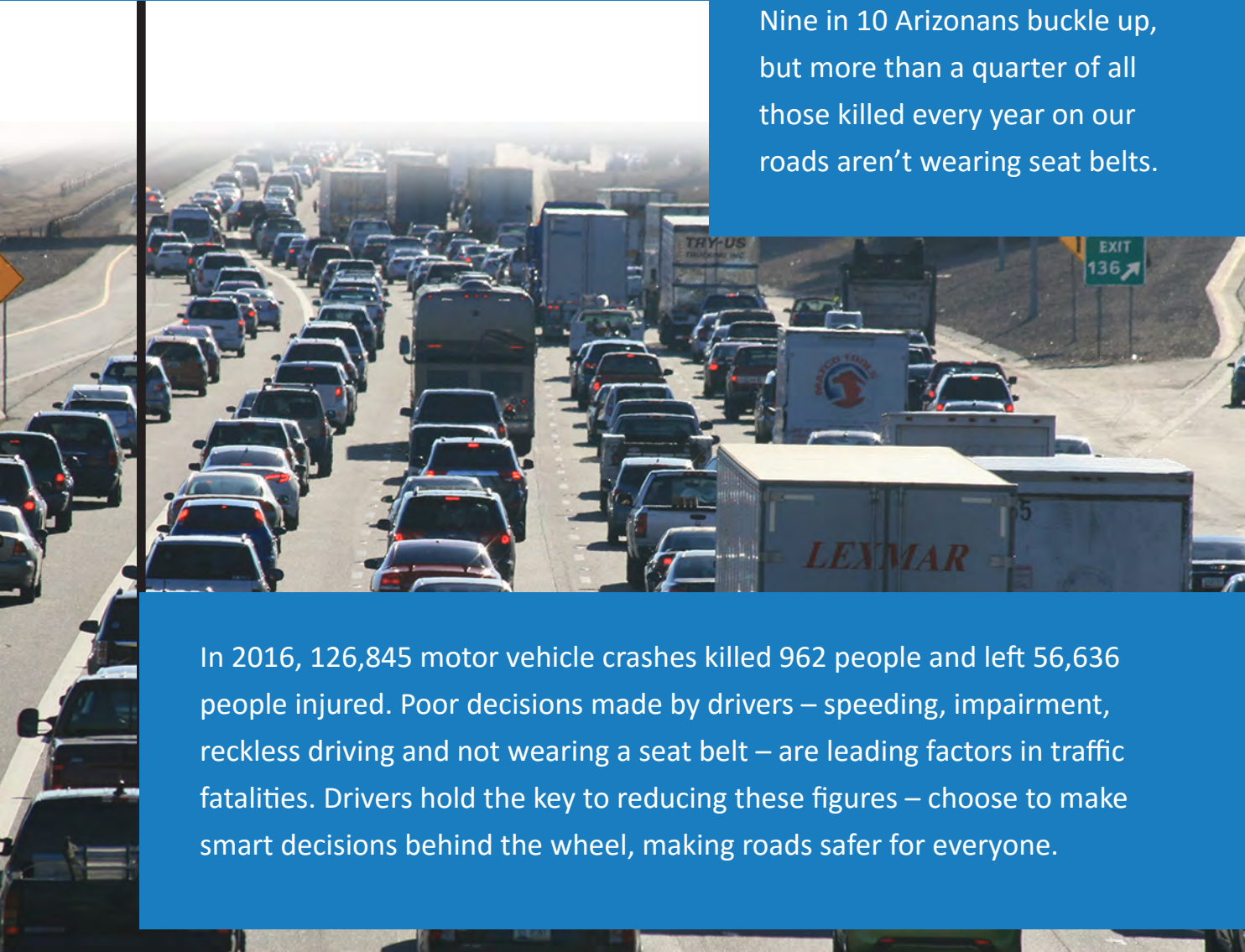
295 people were killed in speed-related crashes.

Speeding is the most common driver violation and rear-end collisions are the most common manner of crash.

250

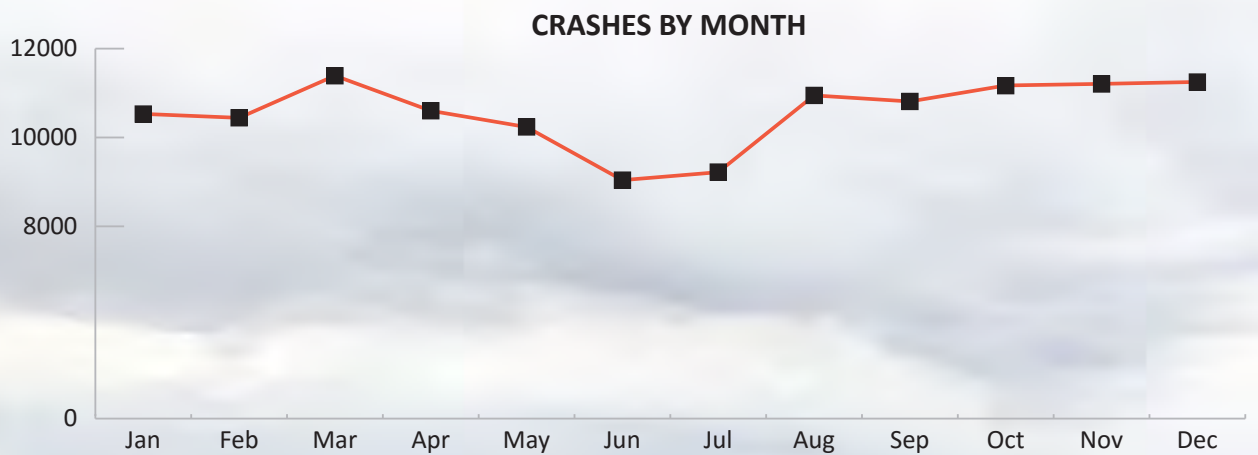
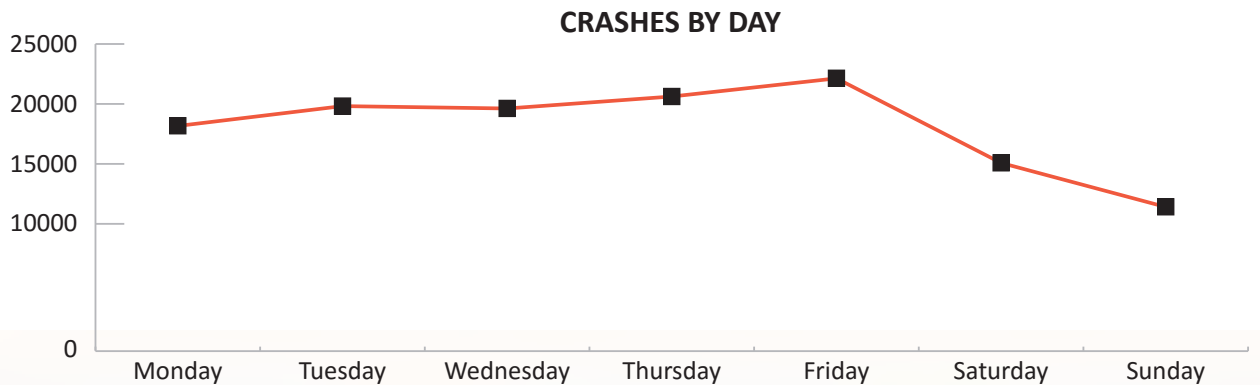
250 people killed in crashes were not wearing seat belts.

Nine in 10 Arizonans buckle up, but more than a quarter of all those killed every year on our roads aren't wearing seat belts.



In 2016, 126,845 motor vehicle crashes killed 962 people and left 56,636 people injured. Poor decisions made by drivers – speeding, impairment, reckless driving and not wearing a seat belt – are leading factors in traffic fatalities. Drivers hold the key to reducing these figures – choose to make smart decisions behind the wheel, making roads safer for everyone.

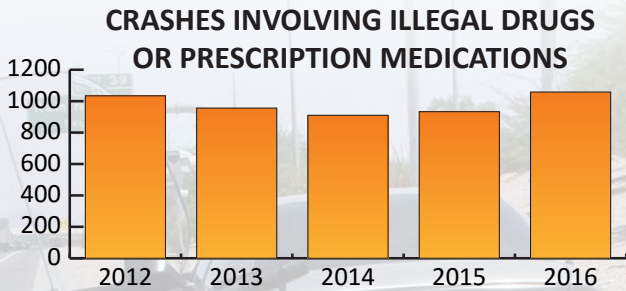
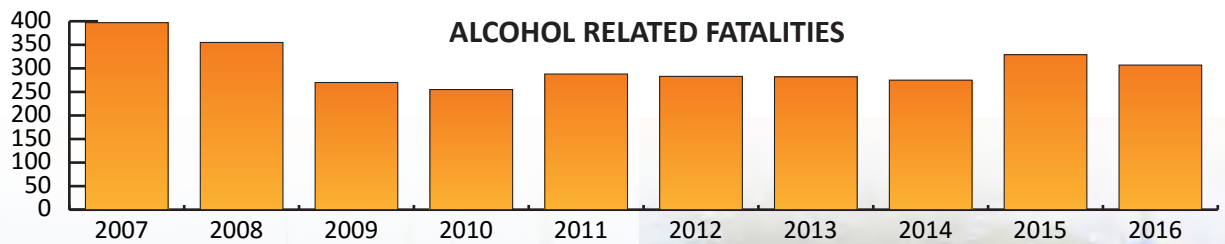
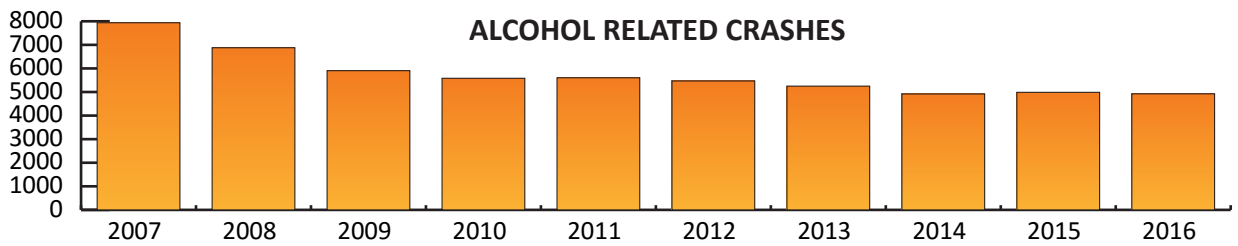
CRASH BREAKDOWN



In 2016, more crashes happened in March than any other month of the year and Fridays saw more crashes than any other day of the week. January 7, 2016, had the most crashes on Arizona roads with 576 crashes and November 8, 2016, had the most number of fatal crashes with 8 crashes on that day.

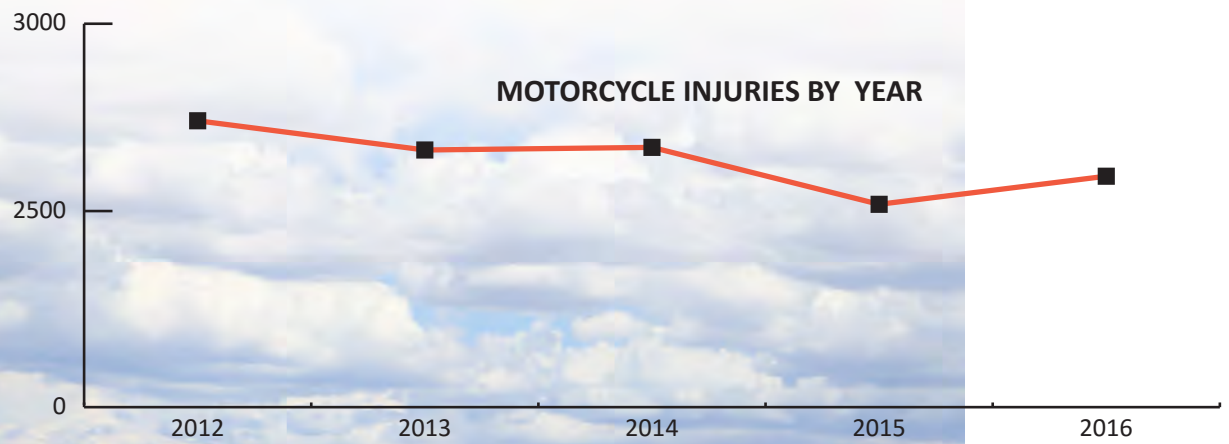
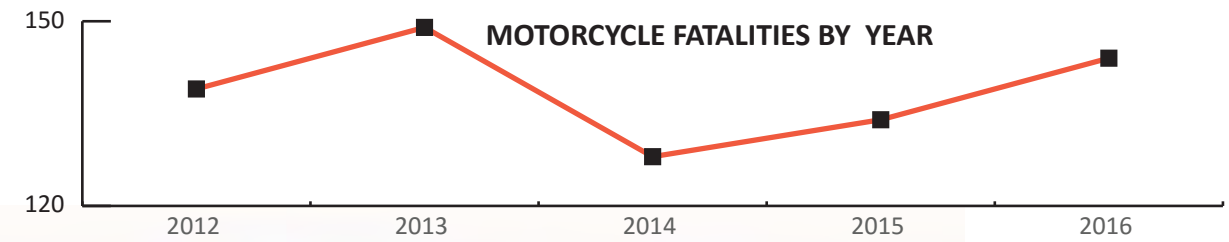
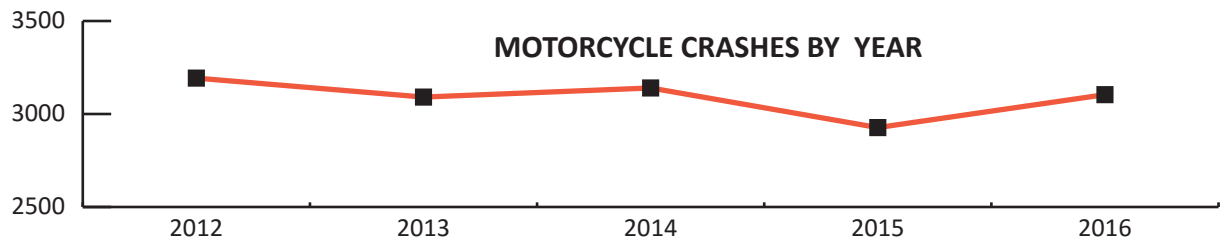
During weekdays, crashes spike during morning and afternoon commutes. On weekends, most crashes occur between 6-9 p.m.

IMPAIRED DRIVING



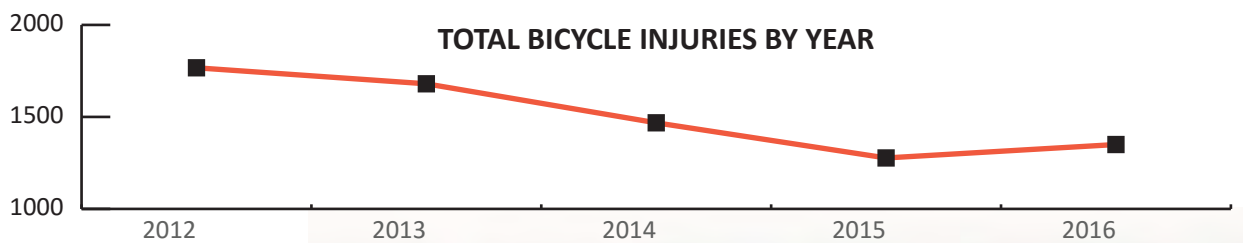
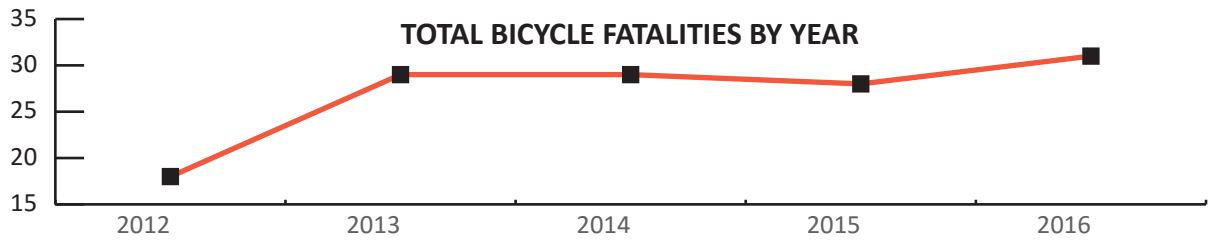
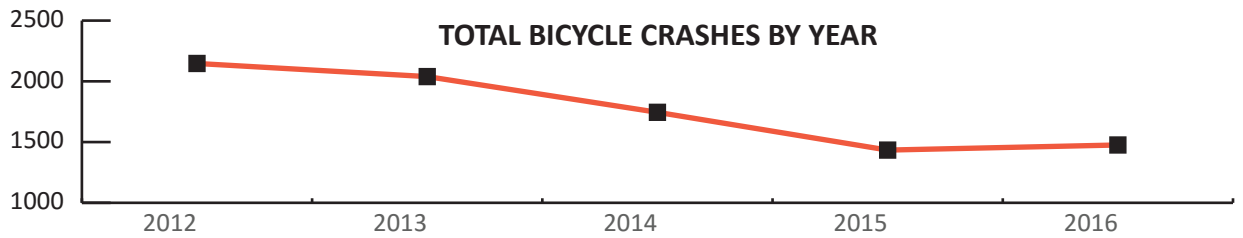
In each of the past two years, 406 people have been killed in impaired driving-related crashes. Annually, crashes involving alcohol, illegal drugs or prescription medication account for about 4 percent of all collisions but at least one-third of all fatal collisions. Make the safe choice: designate a driver, call a taxi or ride service and don't let impaired drivers behind the wheel.

MOTORCYCLES



At least 77 of the 144 motorcycles operators or passengers killed in 2016 were not wearing a helmet.

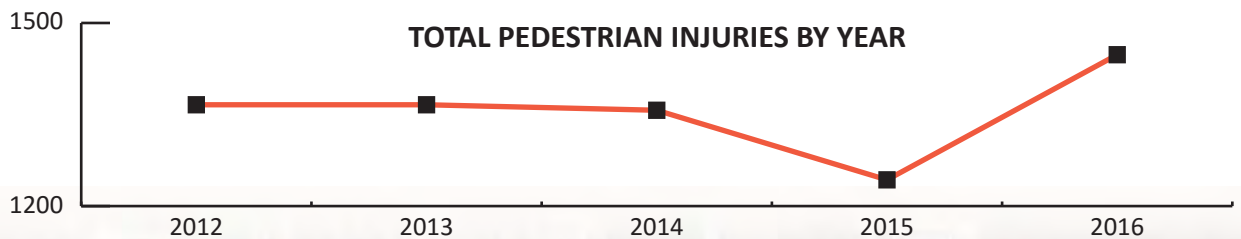
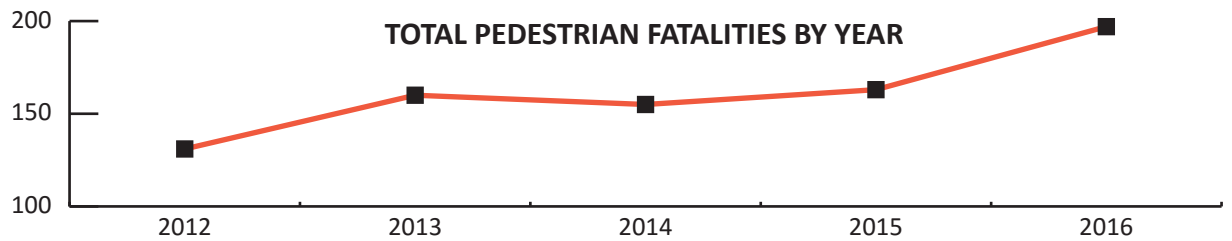
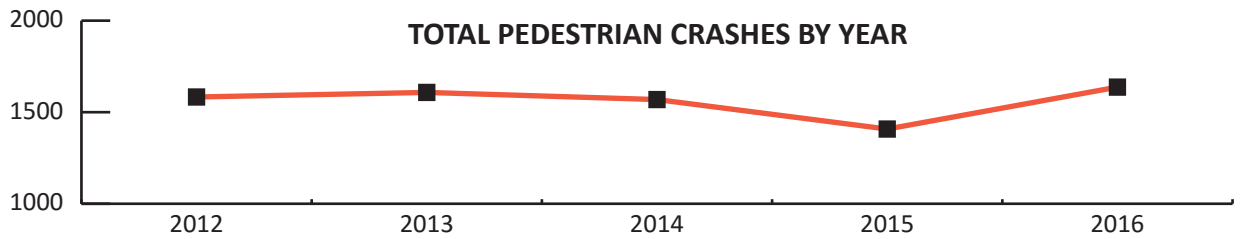
BICYCLISTS



More than 90 percent of bicycle crashes occurred in urban areas and 3 out of 4 occurred during the day. Drivers should watch for bikes, especially bikes traveling against traffic on sidewalks, and bicyclists should watch for turning vehicles.



PEDESTRIANS



Most pedestrian crashes happen during the day but nearly 4 out of 5 pedestrians killed on Arizona roads in 2016 were struck at night when vehicle speeds are typically higher and pedestrians are harder to see. Drivers and pedestrians should always be alert, especially at night.

FOR INQUIRIES AND MORE INFORMATION



The information in this publication is compiled from Arizona Traffic Crash Reports submitted to the Arizona Department of Transportation by state, county, city, tribal and other law enforcement agencies. Specific inquiries regarding this data should be directed to: azcrashfacts@azdot.gov



The complete 2016 Arizona Motor Vehicle Crash Facts report can be viewed at azdot.gov/crashfacts