

ARIZONA

MOTOR VEHICLE CRASH FACTS

2010



2010 Motor Vehicle Crash Facts for the State of Arizona

*Prepared by:
The Arizona Department of Transportation
Intermodal Transportation Division*

Publication Date: August 22, 2011



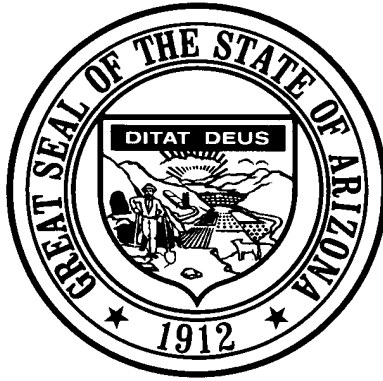
This publication is an annual statistical review of the motor vehicle crashes in the State of Arizona for the calendar year 2010. The results are compiled from Arizona Traffic Accident Reports submitted to the Arizona Department of Transportation by state, county, city, tribal, and other law enforcement agencies. Specific inquiries regarding the data in this report should be directed to:

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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:
<http://www.azdot.gov/mvd/Statistics/crash/index.asp>



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2010 Arizona Crash Facts Summary

BREAKDOWN OF ALL CRASHES IN ARIZONA

| | |
|----------------------|---------|
| TOTAL | 106,177 |
| FATAL | 698 |
| INJURY | 33,195 |
| PROPERTY DAMAGE ONLY | 72,284 |
| URBAN | 84,802 |
| RURAL | 21,375 |
| ALCOHOL RELATED | 5,489 |
| PEDESTRIAN | 1,449 |
| PEDALCYCLE | 1,914 |
| MOTORCYCLE | 2,735 |
| SINGLE VEHICLE | 18,501 |
| MULTI-VEHICLE | 87,676 |

BREAKDOWN OF FATAL CRASHES IN ARIZONA

| | |
|--------------------------------|-----|
| TOTAL | 698 |
| ALCOHOL RELATED | 210 |
| URBAN | 354 |
| RURAL | 344 |
| SINGLE VEHICLE | 287 |
| MULTI-VEHICLE | 411 |
| ALCOHOL RELATED SINGLE VEHICLE | 100 |
| ALCOHOL RELATED MULTI-VEHICLE | 110 |

BREAKDOWN OF PERSONS KILLED AND INJURED

| TYPE | KILLED | INJURED |
|------------------------------------|--------|---------|
| IN ALL CRASHES | 762 | 50,110 |
| IN ALCOHOL RELATED CRASHES | 223 | 3,724 |
| IN URBAN CRASHES | 380 | 39,907 |
| IN RURAL CRASHES | 382 | 10,203 |
| USING SAFETY DEVICE | 189 | 39,905 |
| NOT USING SAFETY DEVICE | 266 | 3,800 |
| DRIVERS AGE 24 OR YOUNGER | 59 | 7,896 |
| DRINKING DRIVERS AGE 24 OR YOUNGER | 30 | 519 |

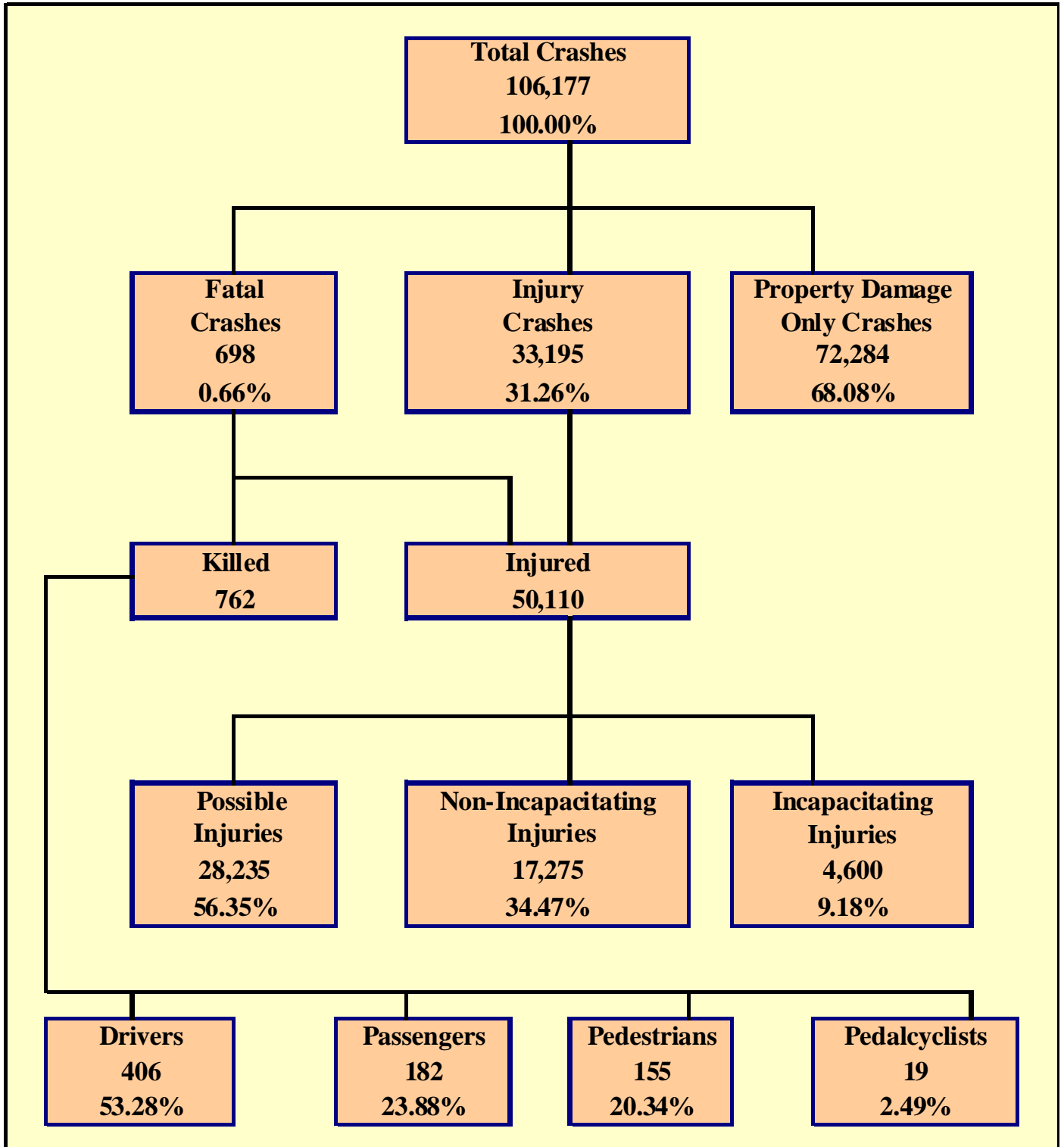
BREAKDOWN OF CRASHES BY TIME

| | |
|--|---------------------------|
| PEAK MONTH FOR ALL CRASHES | OCTOBER |
| PEAK DAY FOR ALL CRASHES | FRIDAY |
| PEAK HOUR FOR ALL CRASHES | 5 PM - 6 PM |
| PEAK MONTH FOR FATAL CRASHES | MAY |
| PEAK DAY FOR FATAL CRASHES | FRIDAY |
| PEAK DATE FOR ALL CRASHES IN 2010 | OCTOBER 5TH (535 CRASHES) |
| PEAK HOUR FOR ALCOHOL RELATED CRASHES | 2 AM - 3 AM |
| PEAK DAY FOR FATAL ALCOHOL RELATED CRASHES | SATURDAY |
| PEAK HOUR FOR MOTORCYCLE CRASHES | 4 PM - 5 PM |
| PEAK DAY FOR FATAL MOTORCYCLE CRASHES | FRIDAY |

OTHER FACTS

| | |
|---------------------------------|-------------------------------|
| MOST COMMON MANNER OF COLLISION | Rear-End |
| MOST COMMON DRIVER VIOLATION | Speed too fast for conditions |

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Section 1: – Highlights and Historical Trends

Table 1 - 1

Arizona Crash Facts Summary and Comparison

| Category | 2009 | 2010 | Percent Change |
|--|---------|---------|----------------|
| Total Crashes | 107,094 | 106,177 | -0.86% |
| Total Fatalities | 806 | 762 | -5.46% |
| Total Injuries | 50,776 | 50,110 | -1.31% |
| Alcohol Related Fatalities | 267 | 223 | -16.48% |
| Alcohol Related Injuries | 4,174 | 3,724 | -10.78% |
| Urban Fatalities | 325 | 380 | 16.92% |
| Urban Injuries | 39,686 | 39,907 | 0.56% |
| Rural Fatalities | 481 | 382 | -20.58% |
| Rural Injuries | 11,090 | 10,203 | -8.00% |
| MC Operator and Passenger Fatalities | 122 | 86 | -29.51% |
| MC Operator and Passenger Injuries | 2,482 | 2,390 | -3.71% |
| Pedestrians Fatalities | 122 | 155 | 27.05% |
| Pedestrians Injuries | 1,309 | 1,236 | -5.58% |
| Pedalcyclist Fatalities | 25 | 19 | -24.00% |
| Pedalcyclist Injuries | 1,648 | 1,583 | -3.94% |
| Millions of vehicle miles traveled (VMT)* | 59,978 | 59,911 | -0.11% |
| Fatalities per 100 million VMT | 1.34 | 1.27 | -5.35% |
| Injuries per 100 million VMT | 84.66 | 83.64 | -1.20% |

Arizona at a Glance – 2010

- Approximately **2.09** persons were killed each day.
- One person was killed every **11.50** hours.
- There were **137.19** persons injured every day.
- One person was injured every **10.50** minutes.
- Alcohol Related crashes accounted for **5.17%** of all crashes and **30.09%** of all fatal crashes.
- Of all alcohol related crashes, **78.23%** occurred in Urban areas and **21.77%** occurred in Rural areas, while **58.57%** of all alcohol related fatal crashes occurred in Urban areas and **41.43%** occurred in Rural areas.
- Single vehicle crashes accounted for **17.42%** of all crashes and **41.12%** of all fatal crashes.
- Of all Pedestrian crashes, **10.77%** were fatal while **0.99%** of Pedalcycle crashes were fatal.
- Crashes which occurred during daylight hours (6:00 a.m. to 6:00 p.m.) accounted for **73.6%** of all crashes.
- Motor vehicle crashes resulted in **\$2.668** billion in economic losses to Arizona.
- Children age 14 and younger accounted for **31** fatalities and **3,881** injuries in motor vehicle crashes.

The Nation In 2010

The population of the United States was estimated at **308,745,538**.

Estimated vehicle miles traveled totaled **3.015 billion*** miles.

An estimated **32,885** persons were killed in motor vehicle crashes in the United States.

*Note: The VMT figure for 2010 is preliminary and subject to change.

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 |
|---------------|---------------|---------------|----------------|------------------------------|----------------------|-----------------------|------------------------|---------------------------|
| 2006 | 143,503 | 1,126 | 45,395 | 96,982 | 1,301 | 70,013 | 4,091,789 | 4,748,957 |
| 2007 | 141,192 | 952 | 43,559 | 96,681 | 1,071 | 66,060 | 4,212,393 | 4,848,162 |
| 2008 | 120,554 | 843 | 37,514 | 82,197 | 938 | 56,537 | 4,360,711 | 4,842,188 |
| 2009 | 107,094 | 709 | 33,482 | 72,903 | 806 | 50,776 | 4,434,719 | 4,787,350 |
| 2010 | 106,177 | 698 | 33,195 | 72,284 | 762 | 50,110 | 4,537,653 | 4,805,904 |

Table 1 - 3

Historical Trends – Arizona and the United States

| Calendar Year | U.S. Fatality Rate* | Arizona Fatality Rate | Arizona Traffic Fatalities | Estimated Motor Vehicle Miles Traveled | Arizona Fatal Crash Rate |
|---------------|---------------------|-----------------------|----------------------------|--|--------------------------|
| 2006 | 1.42 | 2.08 | 1,301 | 62,486 | 1.80 |
| 2007 | 1.36 | 1.70 | 1,071 | 62,962 | 1.51 |
| 2008 | 1.26 | 1.52 | 938 | 61,628 | 1.37 |
| 2009 | 1.13 | 1.34 | 806 | 59,978 | 1.18 |
| 2010 | 1.09** | 1.27 | 762 | 59,911 | 1.17 |

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

*Source for U.S. Fatality Rate: www.nhtsa.gov

**Note: The U.S. Fatality Rate for 2010 is preliminary and subject to change.

Section 1: – Highlights and Historical Trends

Statewide Economic Loss Due to Motor Vehicle Crashes

| | |
|-----------------------------|------------------------|
| Fatalities | \$1,002,639,600 |
| Incapacitating Injuries | \$318,117,600 |
| Non-Incapacitating Injuries | \$385,888,950 |
| Possible Injuries | \$357,116,280 |
| Property Damage Only | \$604,583,376 |
| TOTAL | \$2,668,345,806 |

Table 1 - 4

Estimated Economic Loss by County

| County | Cost of Traffic Crashes | | | |
|---------------|-------------------------|-------------------------|-----------------------|-------------------------|
| | Fatalities | Injuries | PDO | Total |
| Apache | \$ 47,368,800 | \$ 7,436,412 | \$ 2,818,668 | \$ 57,623,880 |
| Cochise | \$ 30,263,400 | \$ 16,592,340 | \$ 9,693,876 | \$ 56,549,616 |
| Coconino | \$ 60,526,800 | \$ 31,301,760 | \$ 23,636,664 | \$ 115,465,224 |
| Gila | \$ 18,421,200 | \$ 9,703,566 | \$ 4,449,648 | \$ 32,574,414 |
| Graham | \$ 6,579,000 | \$ 2,873,850 | \$ 1,589,160 | \$ 11,042,010 |
| Greenlee | \$ 5,263,200 | \$ 1,395,870 | \$ 276,012 | \$ 6,935,082 |
| La Paz | \$ 9,210,600 | \$ 6,929,166 | \$ 2,074,272 | \$ 18,214,038 |
| Maricopa | \$ 410,529,600 | \$ 647,126,862 | \$ 392,305,056 | \$ 1,449,961,518 |
| Mohave | \$ 63,158,400 | \$ 42,665,784 | \$ 16,276,344 | \$ 122,100,528 |
| Navajo | \$ 42,105,600 | \$ 13,822,836 | \$ 6,774,840 | \$ 62,703,276 |
| Pima | \$ 139,474,800 | \$ 168,695,352 | \$ 87,027,420 | \$ 395,197,572 |
| Pinal | \$ 82,895,400 | \$ 44,642,442 | \$ 20,600,532 | \$ 148,138,374 |
| Santa Cruz | \$ 9,210,600 | \$ 5,499,330 | \$ 3,855,804 | \$ 18,565,734 |
| Yavapai | \$ 57,895,200 | \$ 35,220,702 | \$ 17,422,212 | \$ 110,538,114 |
| Yuma | \$ 19,737,000 | \$ 27,216,558 | \$ 15,782,868 | \$ 62,736,426 |
| TOTALS | \$ 1,002,639,600 | \$ 1,061,122,830 | \$ 604,583,376 | \$ 2,668,345,806 |

NOTE: Cost estimates are based on a 2% increase of the 2009 National Safety Council estimates of the average cost of motor vehicle crashes, deaths, and injuries. These costs are an estimate of wage and productivity losses, medical expenses, administrative expenses, motor vehicle damage, and employer costs. A description of the National Safety Council's current cost estimating procedures may be found in the Technical Appendix of *Injury Facts*[®]. Effective with the 1993 bulletin, the Council extensively revised its cost estimating procedures.

Table 1 - 5

Average Economic Cost per Incident

| | | |
|----|---------------------------|-------------|
| 1. | Fatality | \$1,315,800 |
| 2. | Incapacitating Injury | \$69,156 |
| 3. | Non-Incapacitating Injury | \$22,338 |
| 4. | Possible Injury | \$12,648 |
| 5. | Property Damage Only | \$8,364 |

Traffic Crashes in Arizona by Year

Chart 1 - 1
Total Crashes

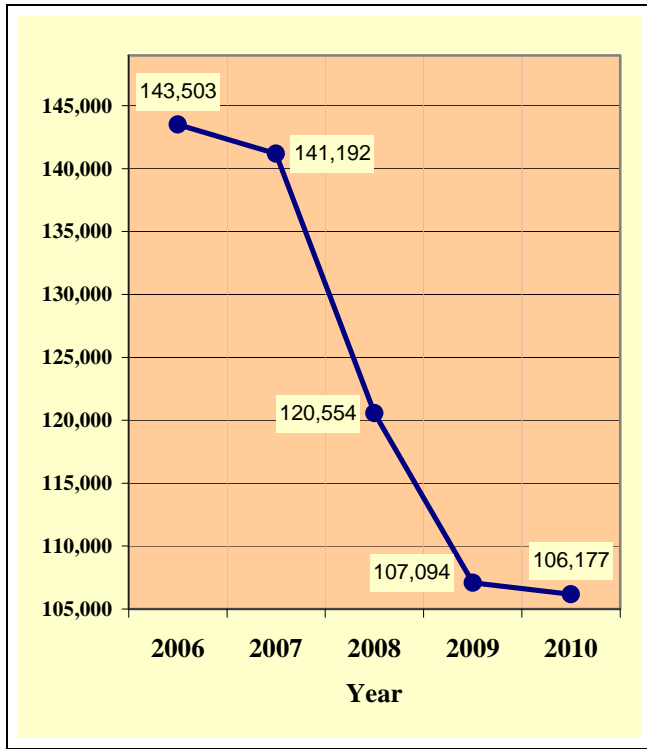


Chart 1 - 2
Fatal Crashes

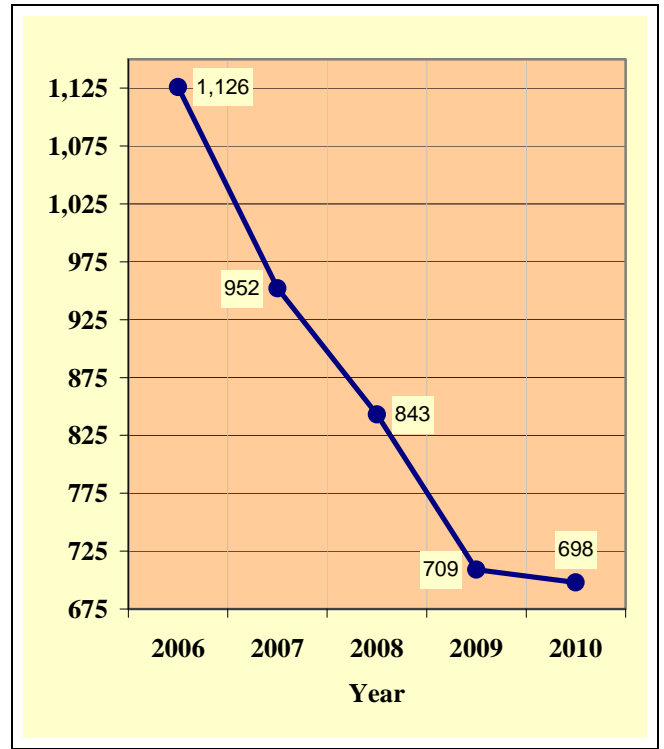


Chart 1 - 3
Injury Crashes

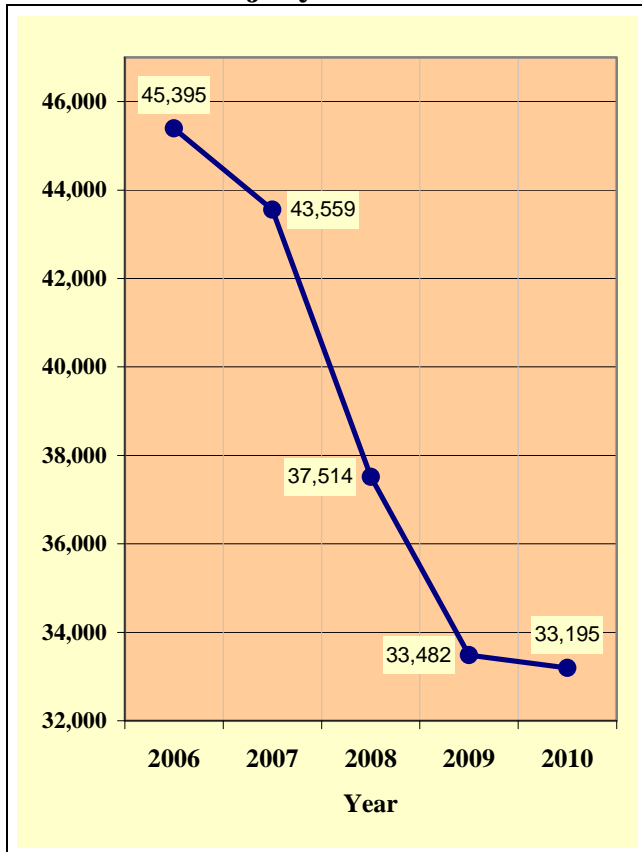
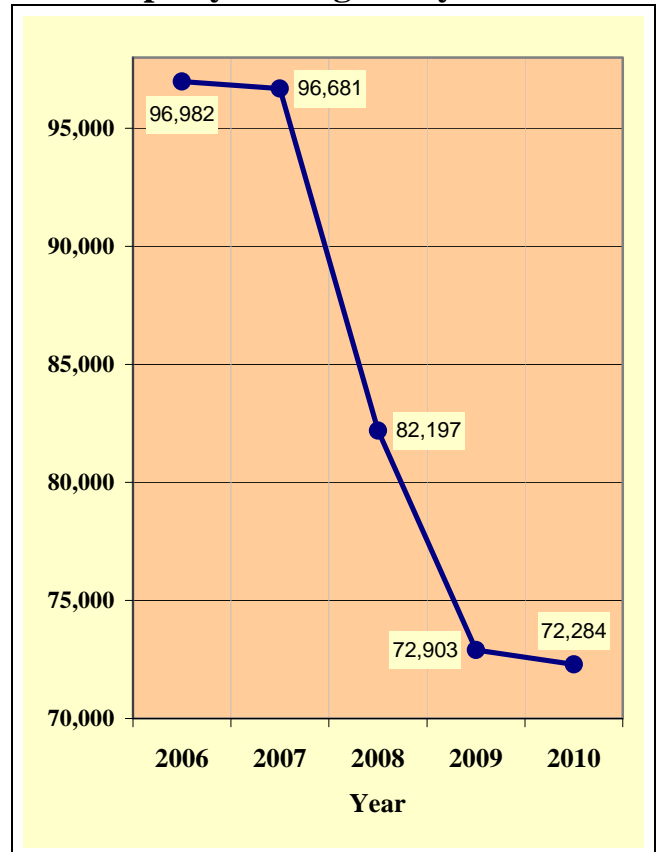


Chart 1 - 4
Property Damage Only Crashes



Section 1: – Highlights and Historical Trends

**Table 1 - 6
Victims of Motor Vehicle Crashes**

| Age of Victim | Persons Killed | | | Persons Injured | | | |
|---------------|----------------|------------|------------|-----------------|---------------|---------------|----------------|
| | Total | Male | Female | Total | Male | Female | Gender Unknown |
| 0-4 | 13 | 7 | 6 | 1,012 | 527 | 485 | 0 |
| 5-9 | 6 | 5 | 1 | 1,263 | 621 | 642 | 0 |
| 10-14 | 12 | 7 | 5 | 1,606 | 779 | 827 | 0 |
| 15-19 | 45 | 37 | 8 | 5,652 | 2,597 | 3,055 | 0 |
| 20-24 | 75 | 61 | 14 | 6,649 | 3,175 | 3,474 | 0 |
| 25-34 | 135 | 93 | 42 | 9,259 | 4,391 | 4,868 | 0 |
| 35-44 | 109 | 79 | 30 | 7,371 | 3,499 | 3,872 | 0 |
| 45-54 | 108 | 72 | 36 | 6,961 | 3,326 | 3,635 | 0 |
| 55-64 | 117 | 78 | 39 | 5,094 | 2,388 | 2,706 | 0 |
| 65-74 | 64 | 36 | 28 | 2,655 | 1,239 | 1,416 | 0 |
| 75 & Older | 77 | 44 | 33 | 1,700 | 774 | 926 | 0 |
| Unknown | 1 | 0 | 1 | 888 | 362 | 386 | 140 |
| TOTAL | 762 | 519 | 243 | 50,110 | 23,678 | 26,292 | 140 |

Table 1 - 7

Arizona’s 2010 Estimated Population

| Race/Ethnic group | Population Percentage | Traffic Crash Fatality Percentage | Population Estimate* |
|----------------------------------|-----------------------|-----------------------------------|----------------------|
| White non-Hispanic | 57.82% | 52.68% | 3,695,647 |
| Hispanic or Latino | 28.60% | 24.23% | 1,828,264 |
| Black or African American | 4.05% | 3.38% | 259,008 |
| American Indian or Alaska Native | 4.64% | 16.62% | 296,529 |
| Asian or Pacific Islander | 2.96% | 1.41% | 189,343 |
| Ethnicity Unknown | 1.93% | 1.69% | 123,226 |
| TOTAL | 100.00% | 100.00% | 6,392,017 |

Source: Arizona Department of Health Services, Health Status and Vital Statistics Section.
*Population estimates for 2010 are available at <http://www.azdhs.gov/plan/menu/info/pop/pop10/pd10.htm>

Table 1 - 8

Victims of Motor Vehicle Crashes (Arizona Residents Only)*

| Age of Victim | Total Killed | Male | Female | Detail Breakdown: | | | | | |
|---------------|--------------|------------|------------|--------------------|--------------------|---------------------------|----------------------------------|---------------------------|-------------------|
| | | | | White non-Hispanic | Hispanic or Latino | Black or African American | American Indian or Alaska Native | Asian or Pacific Islander | Ethnicity Unknown |
| Less Than 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1-14 | 35 | 20 | 15 | 11 | 16 | 0 | 7 | 1 | 0 |
| 15-19 | 46 | 36 | 10 | 11 | 21 | 1 | 11 | 1 | 1 |
| 20-44 | 291 | 214 | 77 | 120 | 74 | 16 | 72 | 2 | 7 |
| 45-64 | 213 | 151 | 62 | 141 | 41 | 3 | 20 | 4 | 4 |
| 65 & Older | 125 | 79 | 46 | 91 | 20 | 4 | 8 | 2 | 0 |
| TOTAL | 710 | 500 | 210 | 374 | 172 | 24 | 118 | 10 | 12 |

Source: Arizona Department of Health Services, Health Status and Vital Statistics Section.
*Includes victims of crashes occurring outside Arizona.

Chart 1 - 5

Vehicle Miles Traveled

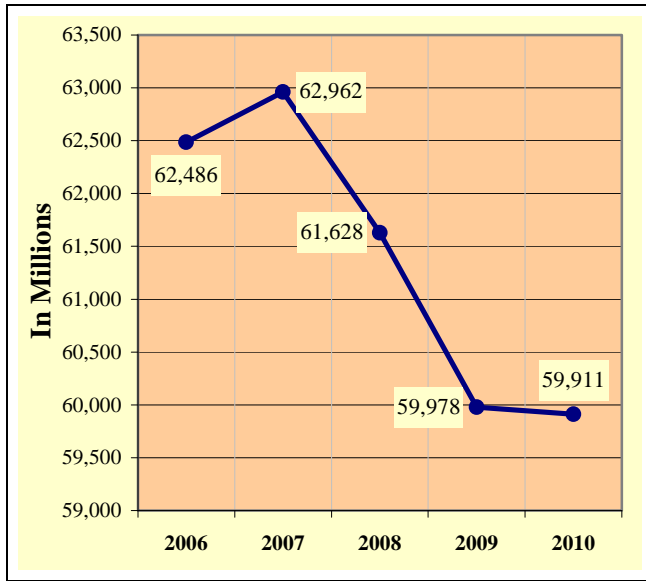
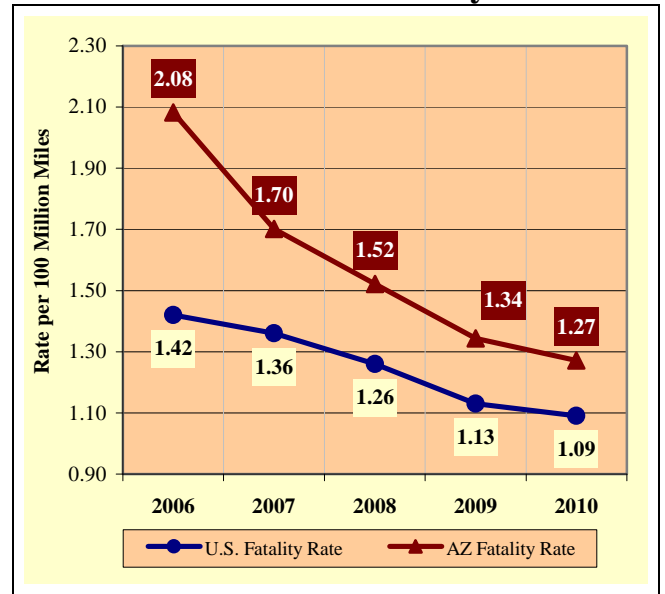


Chart 1 - 6

Arizona vs. U.S. Fatality Rate



Source: ADOT – Multimodal Planning Division – Data Bureau

Chart 1 - 7

Traffic Fatalities by Geographic Region

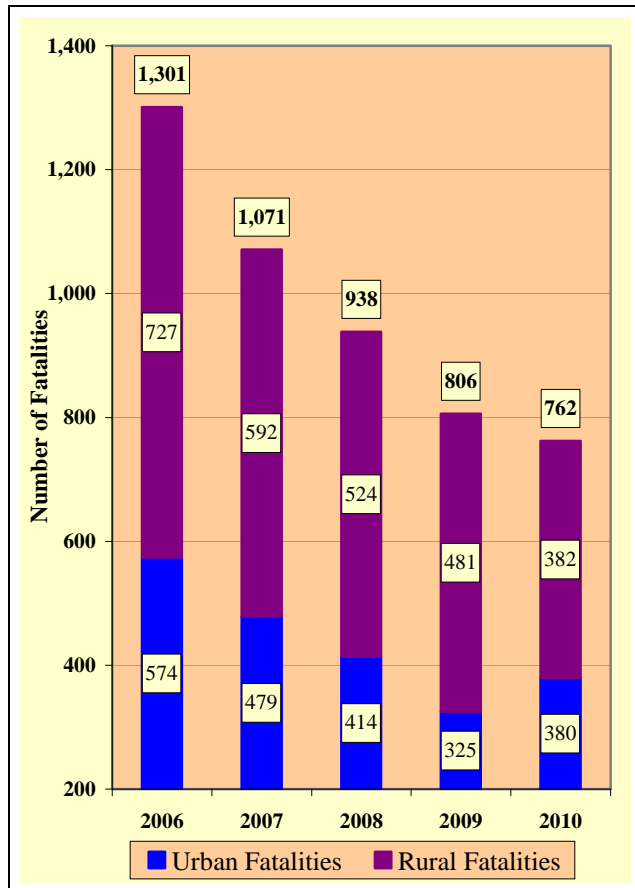
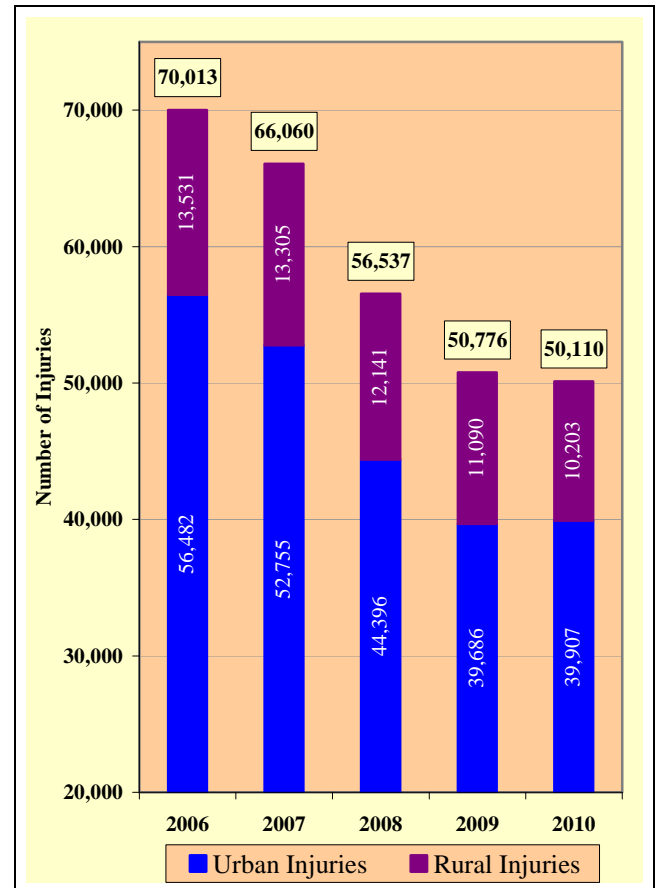


Chart 1 - 8

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.

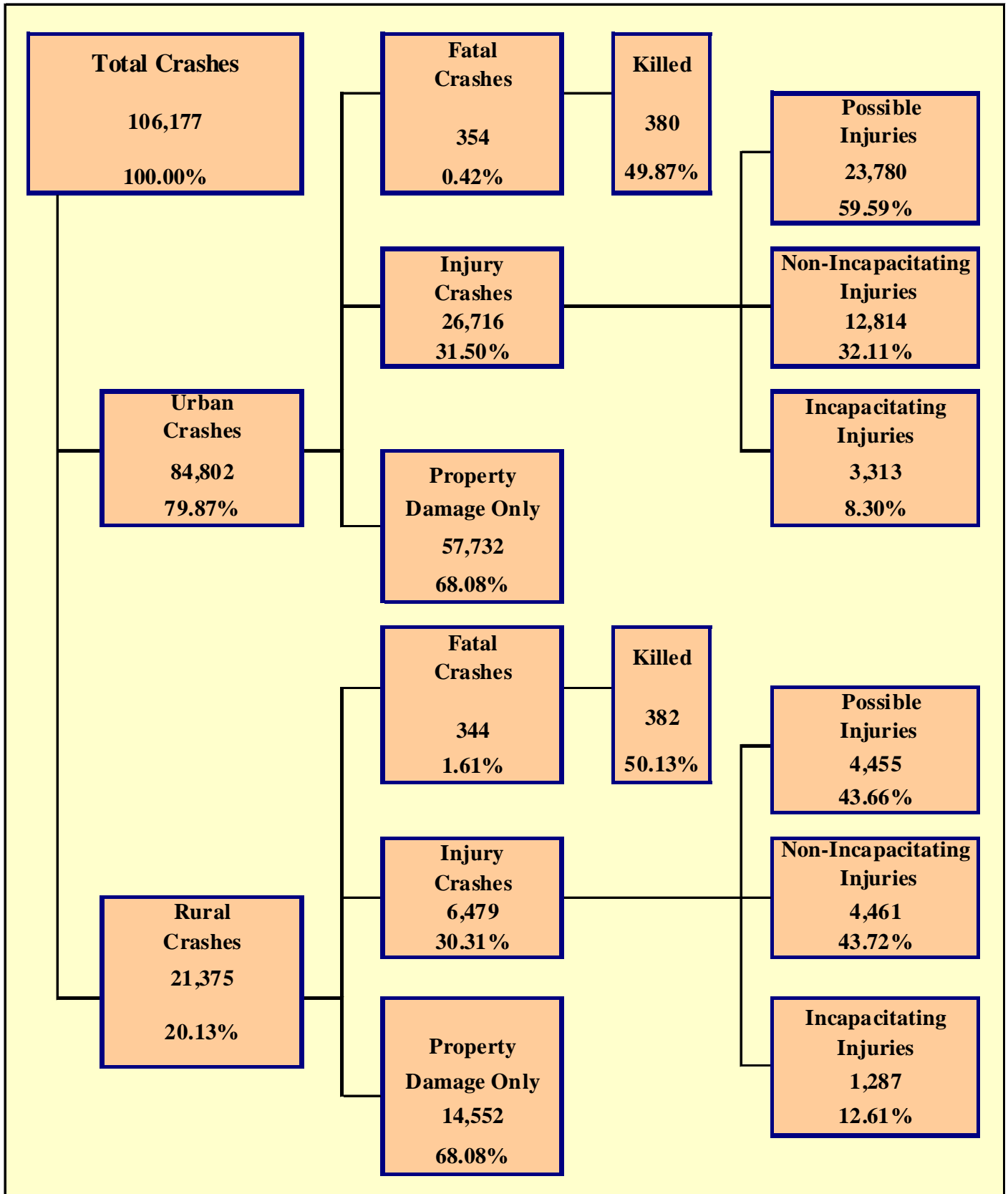
Holiday fatality statistics are based on fatal crashes occurring from 6:00 p.m. on the last working day prior to the holiday through 5:59 a.m. the day following the holiday period. Example: Thanksgiving fatalities are counted from Wednesday evening at 6:00 p.m. through 5:59 a.m. of the following Monday.

| 2010 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 | 9 | 10 | 3 | 3 |
| | 12/31/2009 | 1/4/2010 | | | | | |
| Memorial Day | Friday | Tuesday | 4 | 8 | 8 | 3 | 3 |
| | 5/28/2010 | 6/1/2010 | | | | | |
| July 4th | Friday | Tuesday | 4 | 14 | 16 | 6 | 7 |
| | 7/2/2010 | 7/6/2010 | | | | | |
| Labor Day | Friday | Tuesday | 4 | 9 | 11 | 2 | 2 |
| | 9/3/2010 | 9/7/2010 | | | | | |
| Thanksgiving Day | Wednesday | Monday | 5 | 12 | 13 | 4 | 4 |
| | 11/24/2010 | 11/29/2010 | | | | | |
| Christmas Day | Thursday | Monday | 4 | 9 | 10 | 3 | 3 |
| | 12/23/2010 | 12/27/2010 | | | | | |

| Fatal Crashes by Year | New Year's Day | Memorial Day | July 4th | Labor Day | Thanksgiving | Christmas Day | Total |
|-----------------------|----------------|--------------|----------|-----------|--------------|---------------|-------|
| 2006 | 26 | 12 | 22 | 17 | 13 | 13 | 103 |
| 2007 | 9 | 7 | 1 | 10 | 14 | 9 | 50 |
| 2008 | 10 | 14 | 13 | 14 | 5 | 2 | 58 |
| 2009 | 10 | 6 | 7 | 5 | 11 | 7 | 46 |
| 2010 | 9 | 8 | 14 | 9 | 12 | 9 | 61 |

| Persons Killed | New Year's Day | Memorial Day | July 4th | Labor Day | Thanksgiving | Christmas Day | Total |
|----------------|----------------|--------------|----------|-----------|--------------|---------------|-------|
| 2006 | 28 | 13 | 24 | 24 | 15 | 13 | 117 |
| 2007 | 9 | 7 | 1 | 11 | 16 | 12 | 56 |
| 2008 | 11 | 17 | 15 | 19 | 5 | 2 | 69 |
| 2009 | 11 | 7 | 7 | 7 | 12 | 7 | 51 |
| 2010 | 10 | 8 | 16 | 11 | 13 | 10 | 68 |

| Number of Days | New Year's Day | Memorial Day | July 4th | Labor Day | Thanksgiving | Christmas Day | Total |
|----------------|----------------|--------------|----------|-----------|--------------|---------------|-------|
| 2006 | 4 | 4 | 5 | 4 | 5 | 4 | 26 |
| 2007 | 4 | 4 | 2 | 4 | 5 | 5 | 24 |
| 2008 | 5 | 4 | 4 | 4 | 5 | 5 | 27 |
| 2009 | 5 | 4 | 4 | 4 | 5 | 4 | 26 |
| 2010 | 4 | 4 | 4 | 4 | 5 | 4 | 25 |



Section 2: – Geographic Location

Fatal Crashes in Arizona (698) accounted for 0.66% of all crashes, Injury Crashes (33,195) accounted for 31.26%, and Property Damage Only (PDO) Crashes (72,284) accounted for 68.08%.

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 | 76,902 | 219 | 22,939 | 53,744 | 254 | 36,895 |
| Overturning | 2,763 | 125 | 1,658 | 980 | 145 | 2,573 |
| Collision with Pedestrian | 1,346 | 152 | 1,091 | 103 | 152 | 1,169 |
| Collision with Pedalcyclist | 1,892 | 19 | 1,551 | 322 | 19 | 1,589 |
| Collision with Animal | 1,561 | 1 | 162 | 1,398 | 1 | 204 |
| Collision with Fixed Object | 11,311 | 135 | 3,313 | 7,863 | 142 | 4,246 |
| Collision with Non-fixed Object* | 3,769 | 8 | 413 | 3,348 | 8 | 545 |
| Vehicle Fire or Explosion | 314 | 2 | 19 | 293 | 2 | 30 |
| Other Non-collision** | 2,113 | 23 | 699 | 1,391 | 23 | 869 |
| Unknown | 4,206 | 14 | 1,350 | 2,842 | 16 | 1,990 |
| TOTAL | 106,177 | 698 | 33,195 | 72,284 | 762 | 50,110 |
| *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 | 532 | 31 | 164 | 337 | 36 | 303 |
| Cochise | 1,630 | 19 | 452 | 1,159 | 23 | 684 |
| Coconino | 3,761 | 40 | 895 | 2,826 | 46 | 1,357 |
| Gila | 800 | 13 | 255 | 532 | 14 | 386 |
| Graham | 277 | 5 | 82 | 190 | 5 | 139 |
| Greenlee | 70 | 4 | 33 | 33 | 4 | 45 |
| La Paz | 398 | 7 | 143 | 248 | 7 | 262 |
| Maricopa | 68,579 | 291 | 21,384 | 46,904 | 312 | 32,144 |
| Mohave | 3,007 | 43 | 1,018 | 1,946 | 48 | 1,558 |
| Navajo | 1,205 | 31 | 364 | 810 | 32 | 571 |
| Pima | 15,764 | 101 | 5,258 | 10,405 | 106 | 7,831 |
| Pinal | 3,624 | 54 | 1,107 | 2,463 | 63 | 1,828 |
| Santa Cruz | 636 | 7 | 168 | 461 | 7 | 259 |
| Yavapai | 3,118 | 38 | 997 | 2,083 | 44 | 1,452 |
| Yuma | 2,776 | 14 | 875 | 1,887 | 15 | 1,291 |
| TOTAL | 106,177 | 698 | 33,195 | 72,284 | 762 | 50,110 |

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 | 65,741 | 129 | 19,709 | 45,903 | 145 | 31,351 |
| Overturning | 707 | 22 | 482 | 203 | 27 | 672 |
| Collision with Pedestrian | 1,184 | 99 | 998 | 87 | 99 | 1,069 |
| Collision with Pedalcyclist | 1,754 | 17 | 1,440 | 297 | 17 | 1,477 |
| Collision with Animal | 182 | 0 | 22 | 160 | 0 | 24 |
| Collision with Fixed Object | 7,399 | 71 | 2,101 | 5,227 | 76 | 2,618 |
| Collision with Non-fixed Object* | 2,771 | 5 | 294 | 2,472 | 5 | 364 |
| Vehicle Fire or Explosion | 114 | 0 | 8 | 106 | 0 | 11 |
| Other Non-collision** | 1,075 | 7 | 398 | 670 | 7 | 460 |
| Unknown | 3,875 | 4 | 1,264 | 2,607 | 4 | 1,861 |
| TOTAL | 84,802 | 354 | 26,716 | 57,732 | 380 | 39,907 |
| *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 | 11,161 | 90 | 3,230 | 7,841 | 109 | 5,544 |
| Overturning | 2,056 | 103 | 1,176 | 777 | 118 | 1,901 |
| Collision with Pedestrian | 162 | 53 | 93 | 16 | 53 | 100 |
| Collision with Pedalcyclist | 138 | 2 | 111 | 25 | 2 | 112 |
| Collision with Animal | 1,379 | 1 | 140 | 1,238 | 1 | 180 |
| Collision with Fixed Object | 3,912 | 64 | 1,212 | 2,636 | 66 | 1,628 |
| Collision with Non-fixed Object* | 998 | 3 | 119 | 876 | 3 | 181 |
| Vehicle Fire or Explosion | 200 | 2 | 11 | 187 | 2 | 19 |
| Other Non-collision** | 1,038 | 16 | 301 | 721 | 16 | 409 |
| Unknown | 331 | 10 | 86 | 235 | 12 | 129 |
| TOTAL | 21,375 | 344 | 6,479 | 14,552 | 382 | 10,203 |
| *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 (84,802) accounted for 79.87% of all crashes, they accounted for 50.72% of all Fatal Crashes (354) occurring in 2010.

While Rural Crashes in Arizona (21,375) accounted for 20.13% of all crashes, they accounted for 49.28% of all Fatal Crashes (344) occurring in 2010.

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 | 474 | 30 | 153 | 291 | 35 | 282 | 40 | 9 | 45 |
| Eagar | 28 | 0 | 6 | 22 | 0 | 11 | 1 | 0 | 0 |
| St. Johns | 18 | 0 | 3 | 15 | 0 | 5 | 0 | 0 | 0 |
| Springerville | 12 | 1 | 2 | 9 | 1 | 5 | 1 | 1 | 2 |
| TOTAL | 532 | 31 | 164 | 337 | 36 | 303 | 42 | 10 | 47 |

| | | | | | | | | | |
|----------------|--------------|-----------|------------|--------------|-----------|------------|-----------|----------|-----------|
| Cochise County | 693 | 16 | 208 | 469 | 20 | 324 | 35 | 2 | 30 |
| Benson | 89 | 1 | 25 | 63 | 1 | 32 | 2 | 1 | 1 |
| Bisbee | 4 | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 0 |
| Douglas | 41 | 0 | 7 | 34 | 0 | 10 | 4 | 0 | 2 |
| Huachuca City | 7 | 0 | 2 | 5 | 0 | 4 | 1 | 0 | 1 |
| Sierra Vista | 756 | 1 | 193 | 562 | 1 | 284 | 34 | 1 | 23 |
| Tombstone | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Willcox | 39 | 0 | 16 | 23 | 0 | 29 | 1 | 0 | 0 |
| TOTAL | 1,630 | 19 | 452 | 1,159 | 23 | 684 | 77 | 4 | 57 |

| | | | | | | | | | |
|-----------------|--------------|-----------|------------|--------------|-----------|--------------|------------|-----------|------------|
| Coconino County | 1,539 | 33 | 414 | 1,092 | 39 | 690 | 63 | 10 | 85 |
| Flagstaff | 1,909 | 3 | 413 | 1,493 | 3 | 587 | 66 | 2 | 34 |
| Williams | 97 | 1 | 19 | 77 | 1 | 21 | 2 | 0 | 0 |
| Page | 21 | 3 | 4 | 14 | 3 | 4 | 3 | 1 | 2 |
| Sedona | 195 | 0 | 45 | 150 | 0 | 55 | 10 | 0 | 7 |
| TOTAL | 3,761 | 40 | 895 | 2,826 | 46 | 1,357 | 144 | 13 | 128 |

| | | | | | | | | | |
|--------------|------------|-----------|------------|------------|-----------|------------|-----------|----------|-----------|
| Gila County | 483 | 11 | 159 | 313 | 12 | 236 | 37 | 2 | 31 |
| Globe | 159 | 1 | 59 | 99 | 1 | 91 | 12 | 1 | 4 |
| Hayden | 2 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |
| Miami | 13 | 0 | 4 | 9 | 0 | 7 | 1 | 0 | 1 |
| Payson | 142 | 0 | 32 | 110 | 0 | 51 | 7 | 0 | 7 |
| Winkelman | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 800 | 13 | 255 | 532 | 14 | 386 | 57 | 3 | 43 |

| | | | | | | | | | |
|---------------|------------|----------|-----------|------------|----------|------------|-----------|----------|-----------|
| Graham County | 124 | 4 | 35 | 85 | 4 | 72 | 10 | 0 | 8 |
| Pima | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| Safford | 105 | 1 | 31 | 73 | 1 | 44 | 6 | 1 | 4 |
| Thatcher | 45 | 0 | 16 | 29 | 0 | 23 | 1 | 0 | 2 |
| TOTAL | 277 | 5 | 82 | 190 | 5 | 139 | 17 | 1 | 14 |

| | | | | | | | | | |
|-----------------|-----------|----------|-----------|-----------|----------|-----------|-----------|----------|----------|
| Greenlee County | 60 | 4 | 28 | 28 | 4 | 40 | 6 | 1 | 7 |
| Clifton | 6 | 0 | 4 | 2 | 0 | 4 | 3 | 0 | 2 |
| Duncan | 4 | 0 | 1 | 3 | 0 | 1 | 1 | 0 | 0 |
| TOTAL | 70 | 4 | 33 | 33 | 4 | 45 | 10 | 1 | 9 |

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 | 330 | 6 | 123 | 201 | 6 | 231 | 18 | 2 | 16 |
| Parker | 33 | 1 | 8 | 24 | 1 | 14 | 1 | 0 | 0 |
| Quartzite | 35 | 0 | 12 | 23 | 0 | 17 | 3 | 0 | 3 |
| TOTAL | 398 | 7 | 143 | 248 | 7 | 262 | 22 | 2 | 19 |

| | | | | | | | | | |
|-----------------|---------------|------------|---------------|---------------|------------|---------------|--------------|-----------|--------------|
| Maricopa County | 5,202 | 47 | 1,622 | 3,533 | 50 | 2,486 | 252 | 10 | 193 |
| Avondale | 1,044 | 0 | 283 | 761 | 0 | 421 | 45 | 0 | 43 |
| Buckeye | 405 | 4 | 115 | 286 | 5 | 185 | 20 | 1 | 17 |
| Cave Creek | 56 | 0 | 12 | 44 | 0 | 18 | 4 | 0 | 5 |
| Chandler | 3,515 | 8 | 1,001 | 2,506 | 8 | 1,404 | 193 | 5 | 106 |
| El Mirage | 321 | 2 | 79 | 240 | 2 | 113 | 18 | 0 | 14 |
| Gila Bend | 20 | 1 | 6 | 13 | 1 | 9 | 1 | 1 | 0 |
| Gilbert | 2,378 | 9 | 617 | 1,752 | 9 | 854 | 91 | 3 | 42 |
| Glendale | 4,821 | 19 | 1,362 | 3,440 | 20 | 2,039 | 220 | 3 | 136 |
| Goodyear | 939 | 3 | 273 | 663 | 3 | 408 | 38 | 0 | 20 |
| Mesa | 6,130 | 23 | 1,978 | 4,129 | 23 | 2,893 | 294 | 7 | 182 |
| Paradise Valley | 193 | 0 | 64 | 129 | 0 | 96 | 8 | 0 | 8 |
| Peoria | 2,238 | 10 | 655 | 1,573 | 11 | 957 | 89 | 3 | 52 |
| Phoenix | 29,062 | 134 | 9,715 | 19,213 | 149 | 15,050 | 1,457 | 52 | 957 |
| Scottsdale | 3,529 | 11 | 1,176 | 2,342 | 11 | 1,653 | 217 | 3 | 114 |
| Surprise | 1,027 | 6 | 265 | 756 | 6 | 433 | 56 | 1 | 35 |
| Tempe | 6,658 | 12 | 1,870 | 4,776 | 12 | 2,680 | 331 | 6 | 201 |
| Tolleson | 366 | 1 | 102 | 263 | 1 | 160 | 25 | 0 | 25 |
| Wickenburg | 93 | 0 | 16 | 77 | 0 | 23 | 1 | 0 | 1 |
| Youngtown | 13 | 0 | 3 | 10 | 0 | 4 | 0 | 0 | 0 |
| Guadalupe | 300 | 0 | 75 | 225 | 0 | 104 | 19 | 0 | 11 |
| Litchfield Park | 41 | 0 | 17 | 24 | 0 | 27 | 3 | 0 | 3 |
| Queen Creek | 116 | 0 | 44 | 72 | 0 | 73 | 5 | 0 | 4 |
| Fountain Hills | 97 | 1 | 29 | 67 | 1 | 46 | 8 | 0 | 4 |
| Carefree | 15 | 0 | 5 | 10 | 0 | 8 | 1 | 0 | 1 |
| TOTAL | 68,579 | 291 | 21,384 | 46,904 | 312 | 32,144 | 3,396 | 95 | 2,174 |

| | | | | | | | | | |
|------------------|--------------|-----------|--------------|--------------|-----------|--------------|------------|-----------|------------|
| Mohave County | 1,140 | 30 | 417 | 693 | 35 | 681 | 80 | 7 | 72 |
| Kingman | 537 | 2 | 192 | 343 | 2 | 288 | 31 | 1 | 29 |
| Lake Havasu City | 629 | 5 | 194 | 430 | 5 | 255 | 60 | 3 | 35 |
| Bullhead City | 683 | 4 | 210 | 469 | 4 | 324 | 63 | 3 | 39 |
| Colorado City | 18 | 2 | 5 | 11 | 2 | 10 | 2 | 0 | 1 |
| TOTAL | 3,007 | 43 | 1,018 | 1,946 | 48 | 1,558 | 236 | 14 | 176 |

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 | 646 | 26 | 214 | 406 | 27 | 351 | 49 | 8 | 44 |
| Holbrook | 60 | 2 | 17 | 41 | 2 | 33 | 4 | 1 | 0 |
| Show Low | 164 | 0 | 54 | 110 | 0 | 78 | 8 | 0 | 11 |
| Snowflake | 64 | 0 | 12 | 52 | 0 | 15 | 5 | 0 | 2 |
| Taylor | 19 | 1 | 6 | 12 | 1 | 10 | 2 | 1 | 4 |
| Winslow | 134 | 2 | 27 | 105 | 2 | 37 | 19 | 2 | 5 |
| Pinetop-Lakeside | 118 | 0 | 34 | 84 | 0 | 47 | 3 | 0 | 0 |
| TOTAL | 1,205 | 31 | 364 | 810 | 32 | 571 | 90 | 12 | 66 |

| | | | | | | | | | |
|--------------|---------------|------------|--------------|---------------|------------|--------------|------------|-----------|------------|
| Pima County | 4,412 | 37 | 1,280 | 3,095 | 39 | 1,889 | 252 | 17 | 184 |
| South Tucson | 70 | 1 | 30 | 39 | 1 | 42 | 8 | 1 | 5 |
| Tucson | 9,720 | 51 | 3,561 | 6,108 | 54 | 5,315 | 518 | 18 | 356 |
| Sahuarita | 192 | 2 | 51 | 139 | 2 | 73 | 9 | 0 | 4 |
| Oro Valley | 454 | 2 | 134 | 318 | 2 | 204 | 9 | 0 | 5 |
| Marana | 916 | 8 | 202 | 706 | 8 | 308 | 33 | 1 | 20 |
| TOTAL | 15,764 | 101 | 5,258 | 10,405 | 106 | 7,831 | 829 | 37 | 574 |

| | | | | | | | | | |
|-----------------|--------------|-----------|--------------|--------------|-----------|--------------|------------|-----------|------------|
| Pinal County | 1,726 | 32 | 535 | 1,159 | 37 | 933 | 108 | 7 | 107 |
| Casa Grande | 853 | 9 | 242 | 602 | 13 | 375 | 51 | 3 | 34 |
| Coolidge | 171 | 2 | 49 | 120 | 2 | 74 | 10 | 0 | 6 |
| Eloy | 150 | 2 | 50 | 98 | 2 | 86 | 16 | 1 | 14 |
| Florence | 81 | 1 | 23 | 57 | 1 | 41 | 4 | 1 | 0 |
| Kearny | 5 | 0 | 2 | 3 | 0 | 2 | 0 | 0 | 0 |
| Mammoth | 4 | 0 | 3 | 1 | 0 | 10 | 0 | 0 | 0 |
| Superior | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| Apache Junction | 417 | 6 | 148 | 263 | 6 | 220 | 23 | 3 | 25 |
| Maricopa | 215 | 2 | 55 | 158 | 2 | 87 | 16 | 0 | 1 |
| TOTAL | 3,624 | 54 | 1,107 | 2,463 | 63 | 1,828 | 228 | 15 | 187 |

| | | | | | | | | | |
|-------------------|------------|----------|------------|------------|----------|------------|-----------|----------|-----------|
| Santa Cruz County | 294 | 7 | 93 | 194 | 7 | 138 | 13 | 1 | 7 |
| Nogales | 342 | 0 | 75 | 267 | 0 | 121 | 18 | 0 | 16 |
| TOTAL | 636 | 7 | 168 | 461 | 7 | 259 | 31 | 1 | 23 |

| | | | | | | | | | |
|-----------------|--------------|-----------|------------|--------------|-----------|--------------|------------|-----------|------------|
| Yavapai County | 1,378 | 28 | 440 | 910 | 33 | 683 | 86 | 8 | 70 |
| Clarkdale | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| Cottonwood | 244 | 1 | 66 | 177 | 1 | 79 | 12 | 0 | 2 |
| Jerome | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| Prescott | 760 | 2 | 271 | 487 | 2 | 375 | 33 | 0 | 21 |
| Prescott Valley | 539 | 5 | 162 | 372 | 6 | 236 | 25 | 1 | 15 |
| Chino Valley | 87 | 0 | 25 | 62 | 0 | 35 | 1 | 0 | 1 |
| Camp Verde | 92 | 1 | 30 | 61 | 1 | 40 | 10 | 0 | 3 |
| Dewey-Humboldt | 11 | 0 | 3 | 8 | 0 | 4 | 0 | 0 | 0 |
| TOTAL | 3,118 | 38 | 997 | 2,083 | 44 | 1,452 | 168 | 10 | 112 |

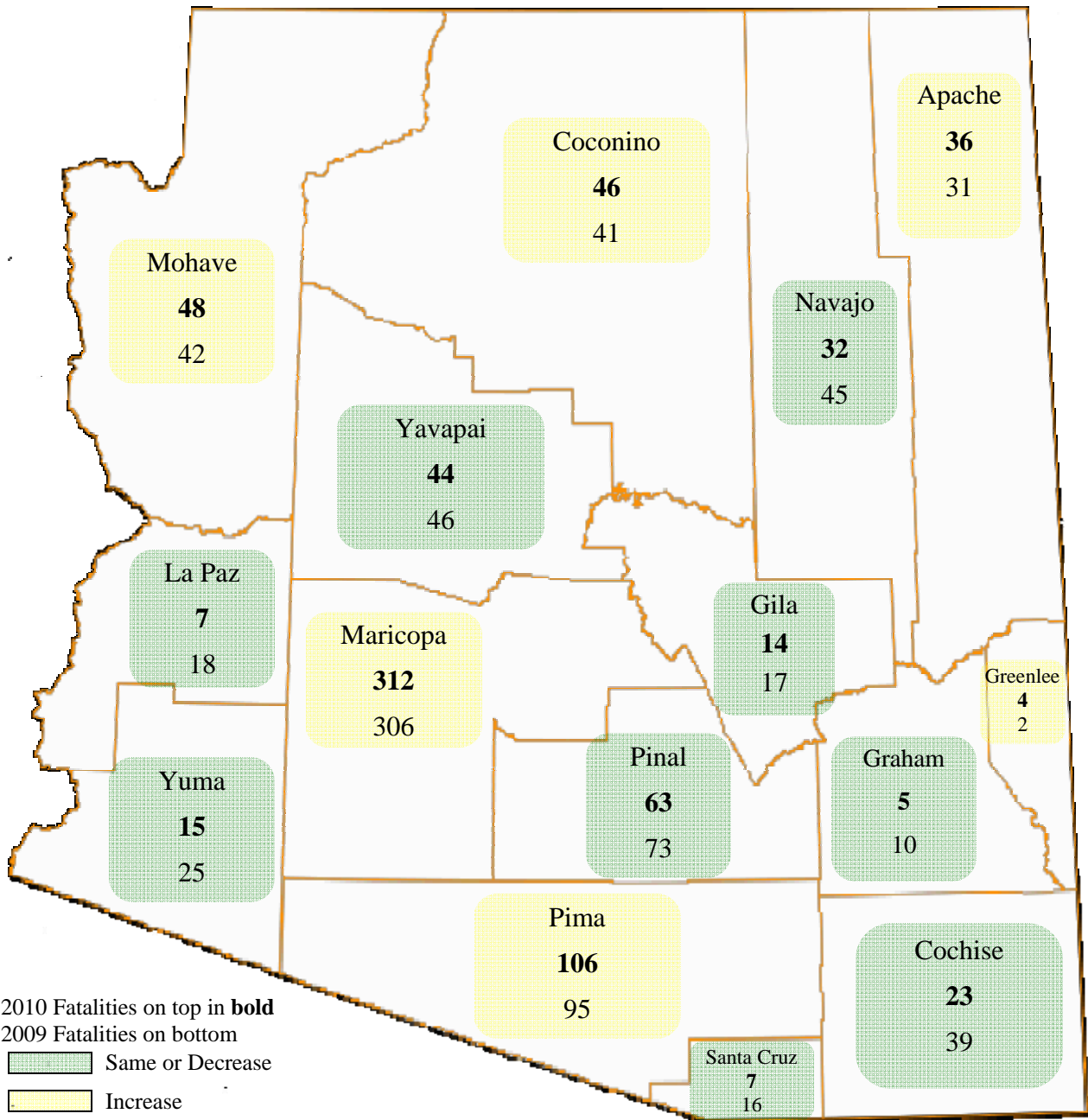
Table 2 - 5

Analysis by Jurisdiction

| COUNTIES Cities | Number of Crashes | | | | No. of Persons | | Alcohol Related | | |
|--------------------|-------------------|-----------|------------|--------------|----------------|--------------|-----------------|----------|-----------|
| | Total | Fatal | Injury | PDO | Killed | Injured | Crashes | Killed | Injured |
| Yuma County | 715 | 9 | 228 | 478 | 10 | 364 | 44 | 3 | 36 |
| Somerton | 26 | 0 | 5 | 21 | 0 | 6 | 2 | 0 | 1 |
| Yuma | 1,891 | 5 | 619 | 1,267 | 5 | 891 | 90 | 2 | 55 |
| Wellton | 7 | 0 | 2 | 5 | 0 | 4 | 1 | 0 | 2 |
| San Luis | 137 | 0 | 21 | 116 | 0 | 26 | 5 | 0 | 1 |
| TOTAL | 2,776 | 14 | 875 | 1,887 | 15 | 1,291 | 142 | 5 | 95 |

Some individual city data may be incomplete due to lack of timely reporting.
Totals within city and town jurisdictions include all state highways.

Total Fatalities by County for 2009 and 2010



Section 2: – Geographic Location

Chart 2 - 1

Urban and Rural Crashes by Day of Week

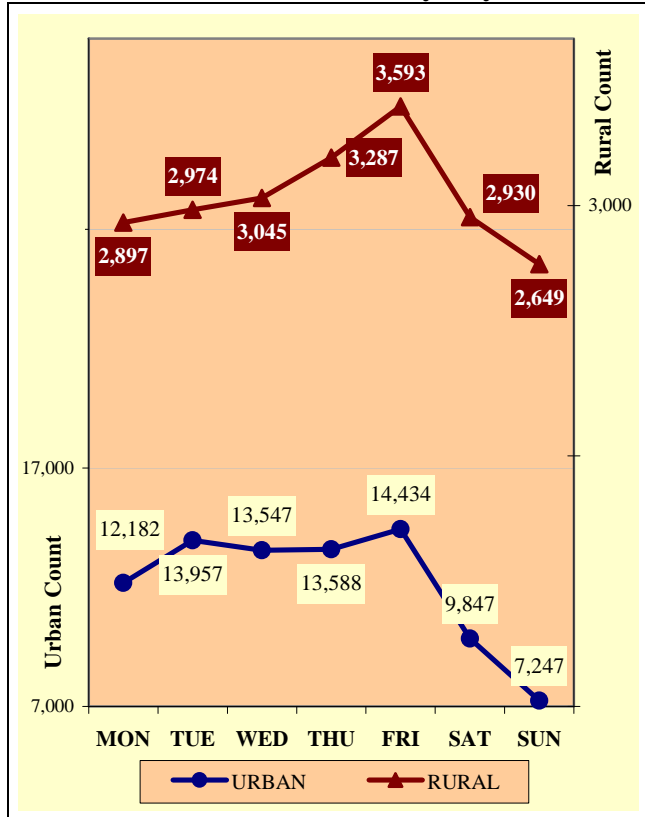


Chart 2 - 2

Urban and Rural Fatal Crashes by Day of Week

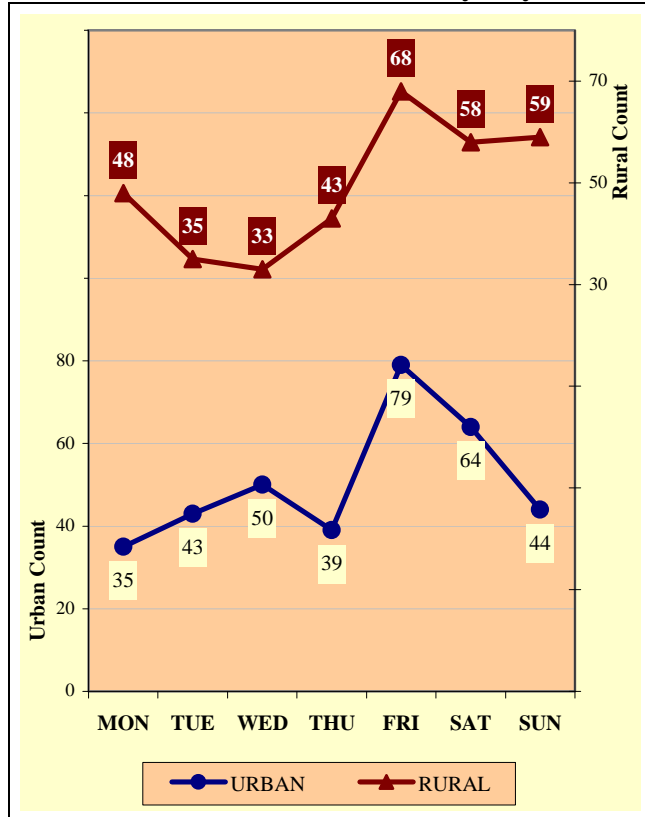
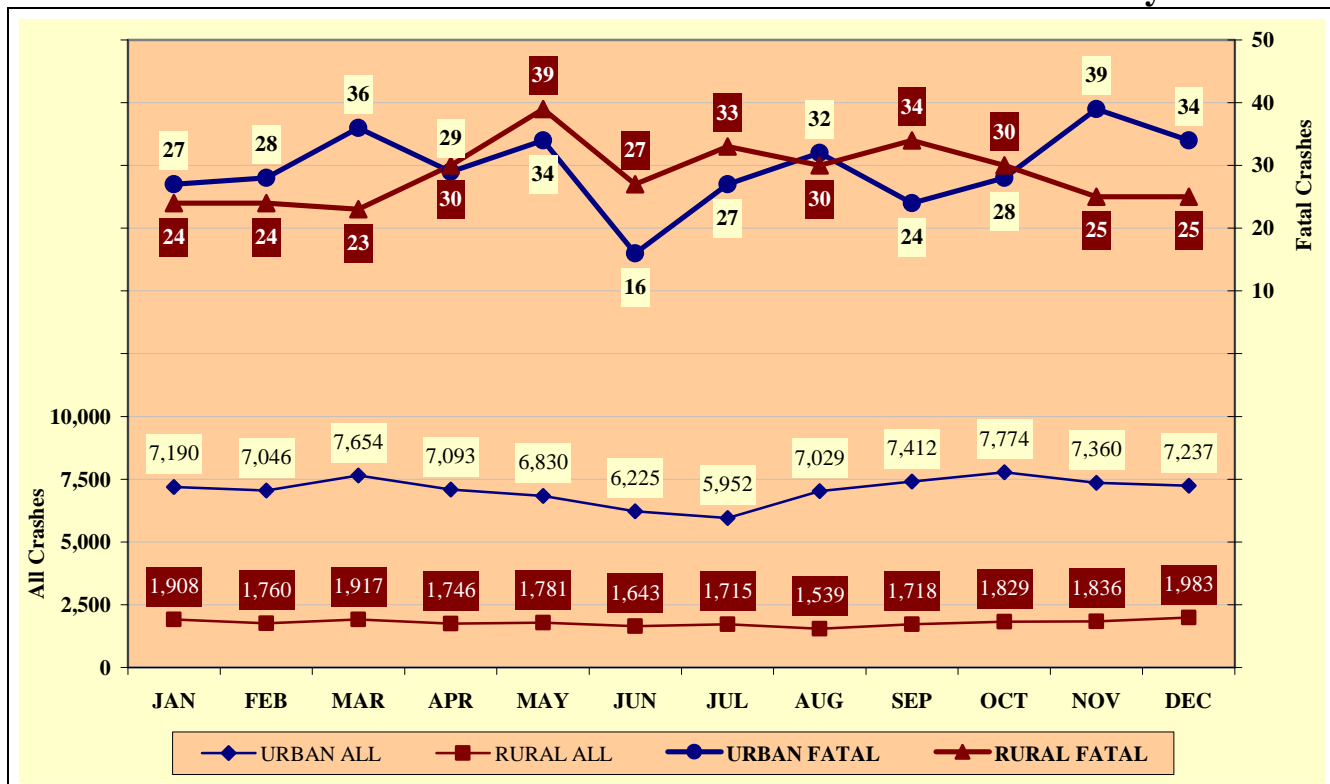
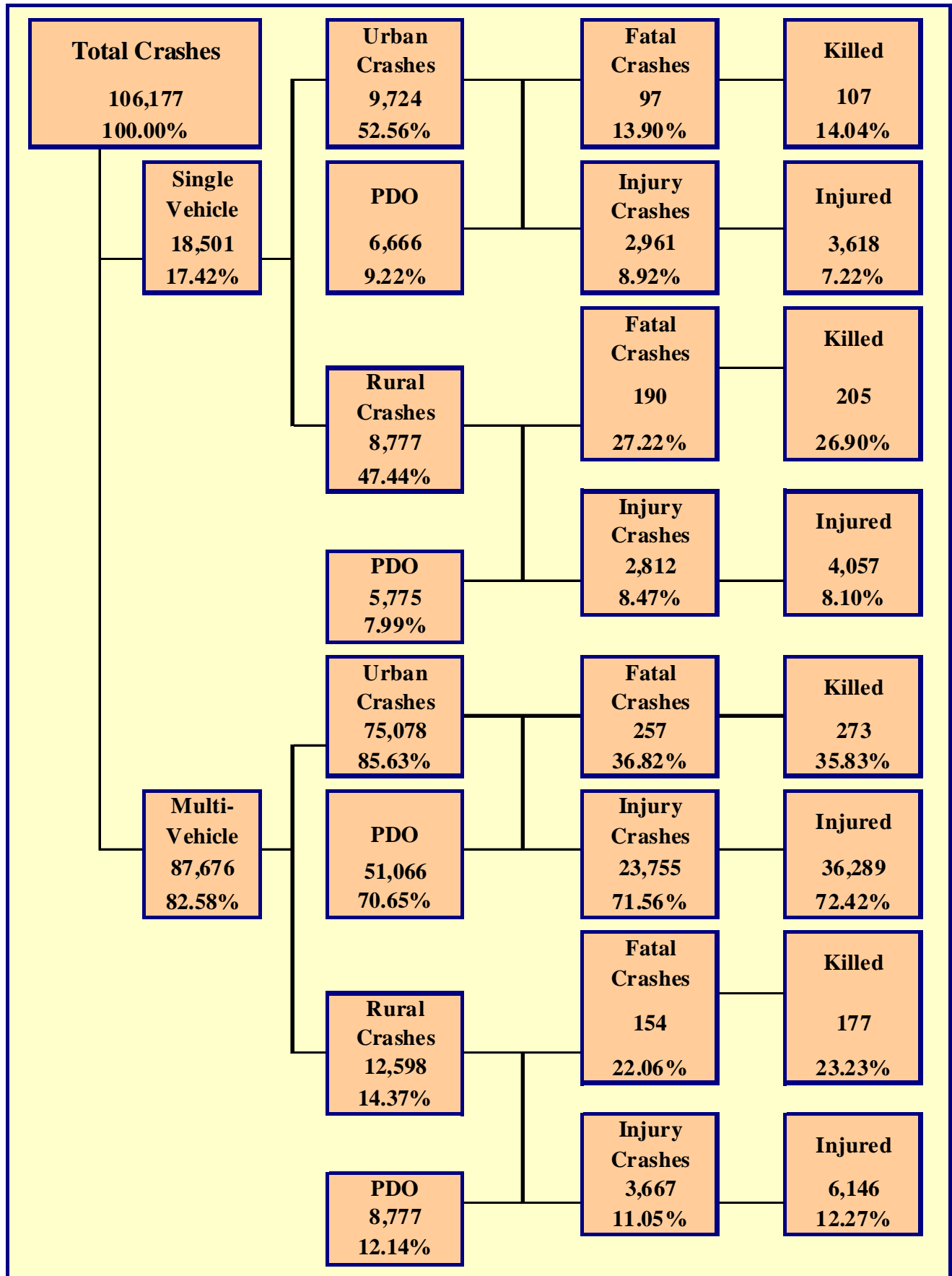


Chart 2 - 3

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





Section 3: – Crash Descriptions

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 | 15,815 | 18.04% | 81 | 19.71% | 6,503 | 23.71% | 9,231 | 15.43% |
| Left Turn | 8,670 | 9.89% | 40 | 9.73% | 3,670 | 13.38% | 4,960 | 8.29% |
| Read End | 40,371 | 46.05% | 54 | 13.14% | 12,058 | 43.97% | 28,259 | 47.22% |
| Head-On | 1,940 | 2.21% | 47 | 11.44% | 988 | 3.60% | 905 | 1.51% |
| Sideswipe (same) | 12,949 | 14.77% | 19 | 4.62% | 1,825 | 6.66% | 11,105 | 18.56% |
| Sideswipe (opposite) | 1,352 | 1.54% | 6 | 1.46% | 332 | 1.21% | 1,014 | 1.69% |
| Rear to Side | 1,102 | 1.26% | 0 | 0.00% | 83 | 0.30% | 1,019 | 1.70% |
| Rear to Rear | 353 | 0.40% | 0 | 0.00% | 62 | 0.23% | 291 | 0.49% |
| Other | 4,129 | 4.71% | 144 | 35.04% | 1,647 | 6.01% | 2,338 | 3.91% |
| Unknown | 995 | 1.13% | 20 | 4.87% | 254 | 0.93% | 721 | 1.20% |
| TOTAL | 87,676 | 100.00% | 411 | 100.00% | 27,422 | 100.00% | 59,843 | 100.00% |

Table 3 - 2

Lighting Conditions

| Type of Lighting Conditions | Number of Crashes | | | | Number of Persons | |
|-----------------------------|-------------------|------------|---------------|---------------|-------------------|---------------|
| | Total | Fatal | Injury | PDO | Killed | Injured |
| Daylight | 77,007 | 316 | 24,032 | 52,659 | 345 | 36,082 |
| Dawn | 1,756 | 16 | 541 | 1,199 | 19 | 788 |
| Dusk | 3,248 | 21 | 1,029 | 2,198 | 22 | 1,573 |
| Dark - Lighted | 16,615 | 118 | 5,433 | 11,064 | 123 | 8,283 |
| Dark - Not Lighted | 6,396 | 132 | 1,896 | 4,368 | 148 | 2,933 |
| Dark - Unknown Lighting | 1,155 | 95 | 264 | 796 | 105 | 451 |
| TOTAL | 106,177 | 698 | 33,195 | 72,284 | 762 | 50,110 |

Table 3 - 3

Weather Conditions

| Type of Weather Conditions | Number of Crashes | | | | Number of Persons | |
|----------------------------|-------------------|------------|---------------|---------------|-------------------|---------------|
| | Total | Fatal | Injury | PDO | Killed | Injured |
| Clear | 90,124 | 493 | 28,497 | 61,134 | 534 | 42,892 |
| Cloudy | 9,282 | 64 | 2,931 | 6,287 | 69 | 4,502 |
| Sleet/Hail | 155 | 3 | 49 | 103 | 3 | 86 |
| Rain | 4,557 | 20 | 1,328 | 3,209 | 23 | 1,980 |
| Snow | 901 | 1 | 163 | 737 | 2 | 253 |
| Severe Crosswinds | 94 | 1 | 31 | 62 | 1 | 58 |
| Blowing Sand, Soil, Dirt | 48 | 2 | 13 | 33 | 2 | 41 |
| Fog, Smog, Smoke | 41 | 1 | 11 | 29 | 2 | 15 |
| Blowing Snow | 47 | 1 | 7 | 39 | 1 | 7 |
| Other | 55 | 0 | 10 | 45 | 0 | 13 |
| Unknown | 873 | 112 | 155 | 606 | 125 | 263 |
| TOTAL | 106,177 | 698 | 33,195 | 72,284 | 762 | 50,110 |

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 | 185,478 | 821 | 59,062 | 125,595 | 586 | 46,213 |
| Wet | 11,658 | 35 | 3,459 | 8,164 | 29 | 2,780 |
| Snow | 1,089 | 5 | 171 | 913 | 5 | 171 |
| Slush | 212 | 1 | 57 | 154 | 1 | 71 |
| Ice/Frost | 725 | 8 | 168 | 549 | 8 | 192 |
| Water (standing or moving) | 115 | 2 | 35 | 78 | 2 | 30 |
| Sand | 57 | 0 | 25 | 32 | 0 | 23 |
| Mud, Dirt, Gravel | 538 | 8 | 184 | 346 | 7 | 255 |
| Oil | 23 | 2 | 7 | 14 | 1 | 7 |
| Other | 120 | 3 | 40 | 77 | 1 | 29 |
| Unknown | 1,921 | 129 | 376 | 1,416 | 122 | 339 |
| TOTAL | 201,936 | 1,014 | 63,584 | 137,338 | 762 | 50,110 |

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 | 176,092 | 681 | 55,101 | 120,310 | 498 | 42,782 |
| Downhill | 8,599 | 75 | 2,883 | 5,641 | 60 | 2,701 |
| Uphill | 6,671 | 60 | 2,211 | 4,400 | 49 | 1,919 |
| Hillcrest | 392 | 12 | 140 | 240 | 9 | 123 |
| Sag/Dip/Bottom | 193 | 3 | 50 | 140 | 3 | 56 |
| Unknown | 9,989 | 183 | 3,199 | 6,607 | 143 | 2,529 |
| TOTAL | 201,936 | 1,014 | 63,584 | 137,338 | 762 | 50,110 |

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 | 164,270 | 667 | 51,056 | 112,547 | 475 | 39,905 |
| Curve Left | 5,337 | 73 | 1,766 | 3,498 | 66 | 1,815 |
| Curve Right | 5,510 | 62 | 1,598 | 3,850 | 57 | 1,560 |
| Unknown | 26,819 | 212 | 9,164 | 17,443 | 164 | 6,830 |
| TOTAL | 201,936 | 1,014 | 63,584 | 137,338 | 762 | 50,110 |

Section 3: – Crash Descriptions

Chart 3 - 1

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

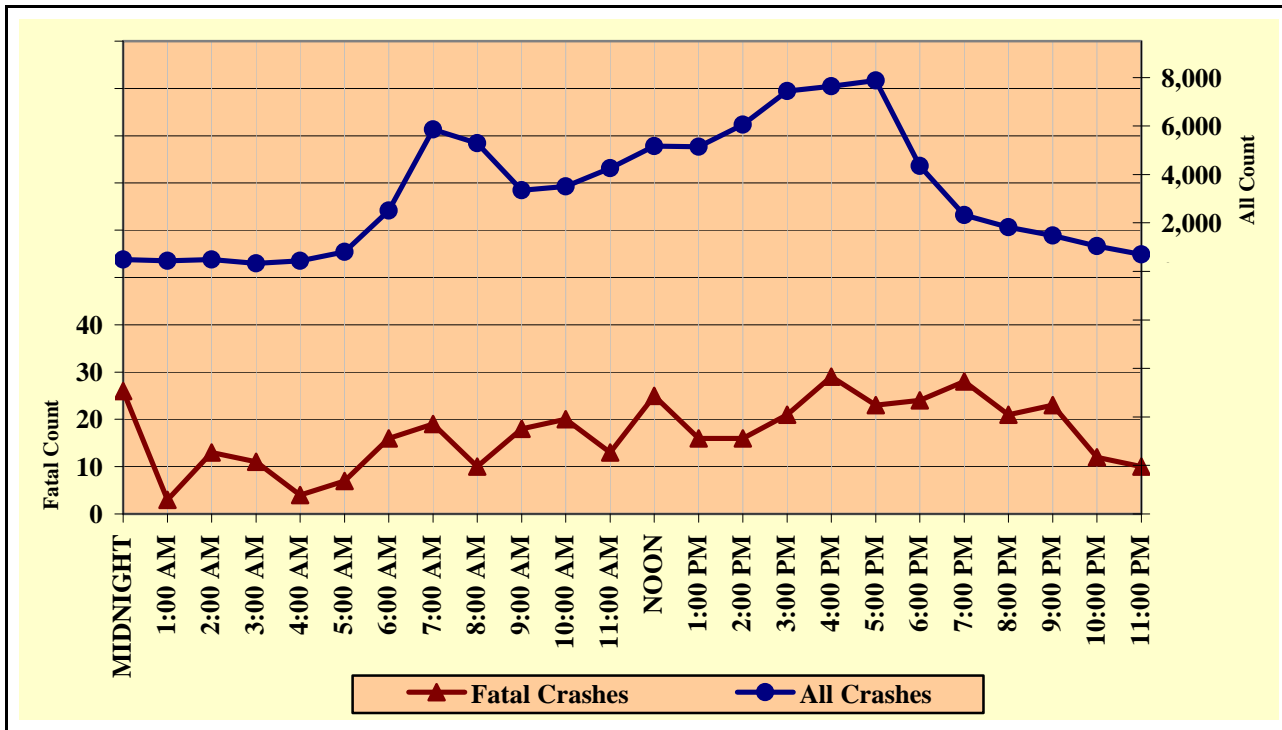


Chart 3 - 2

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

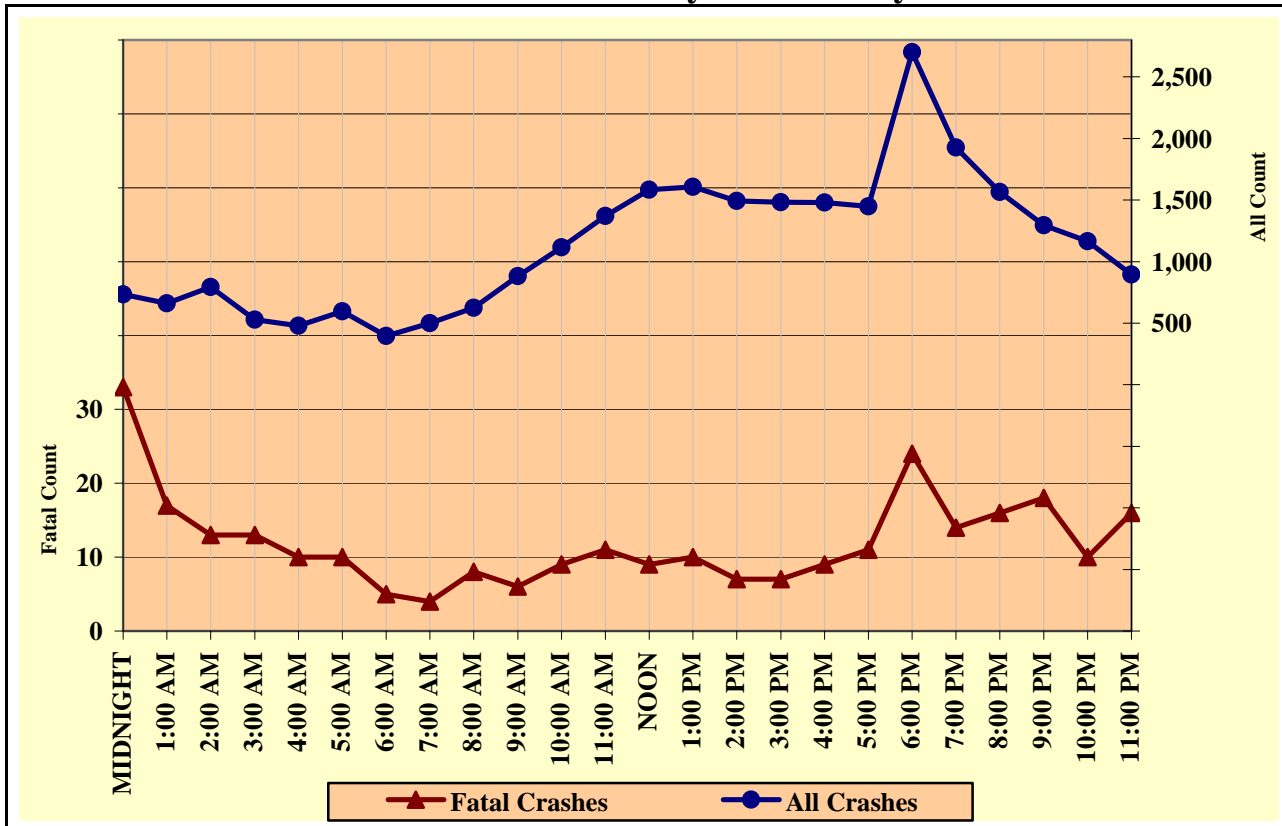


Chart 3 - 3

Crashes by Day of Week

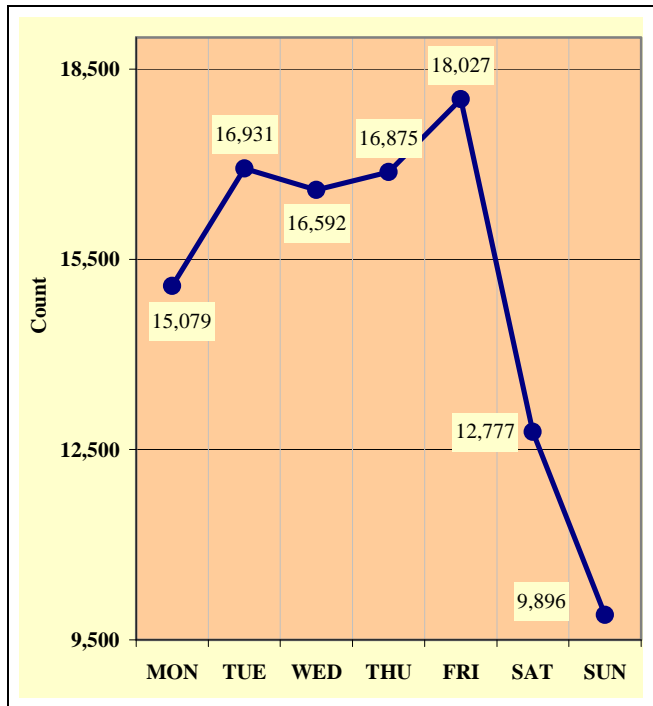


Chart 3 - 4

Fatal Crashes by Day of Week

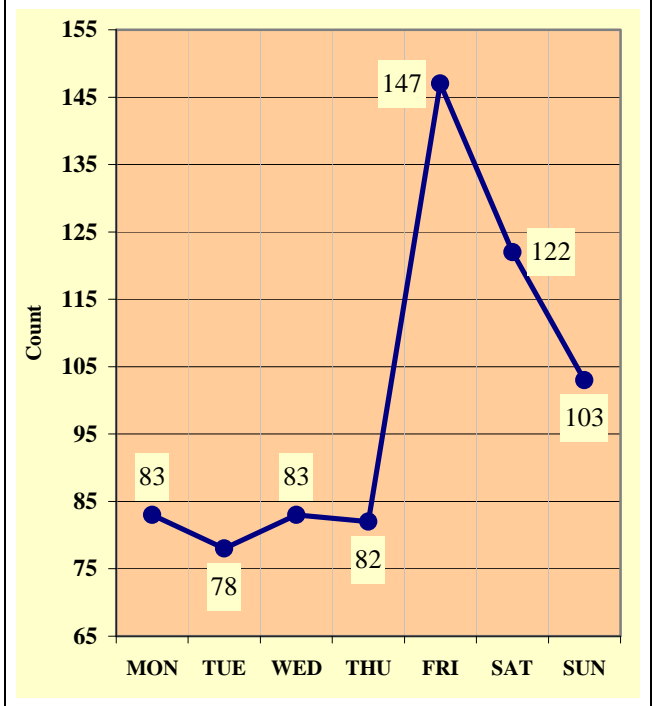
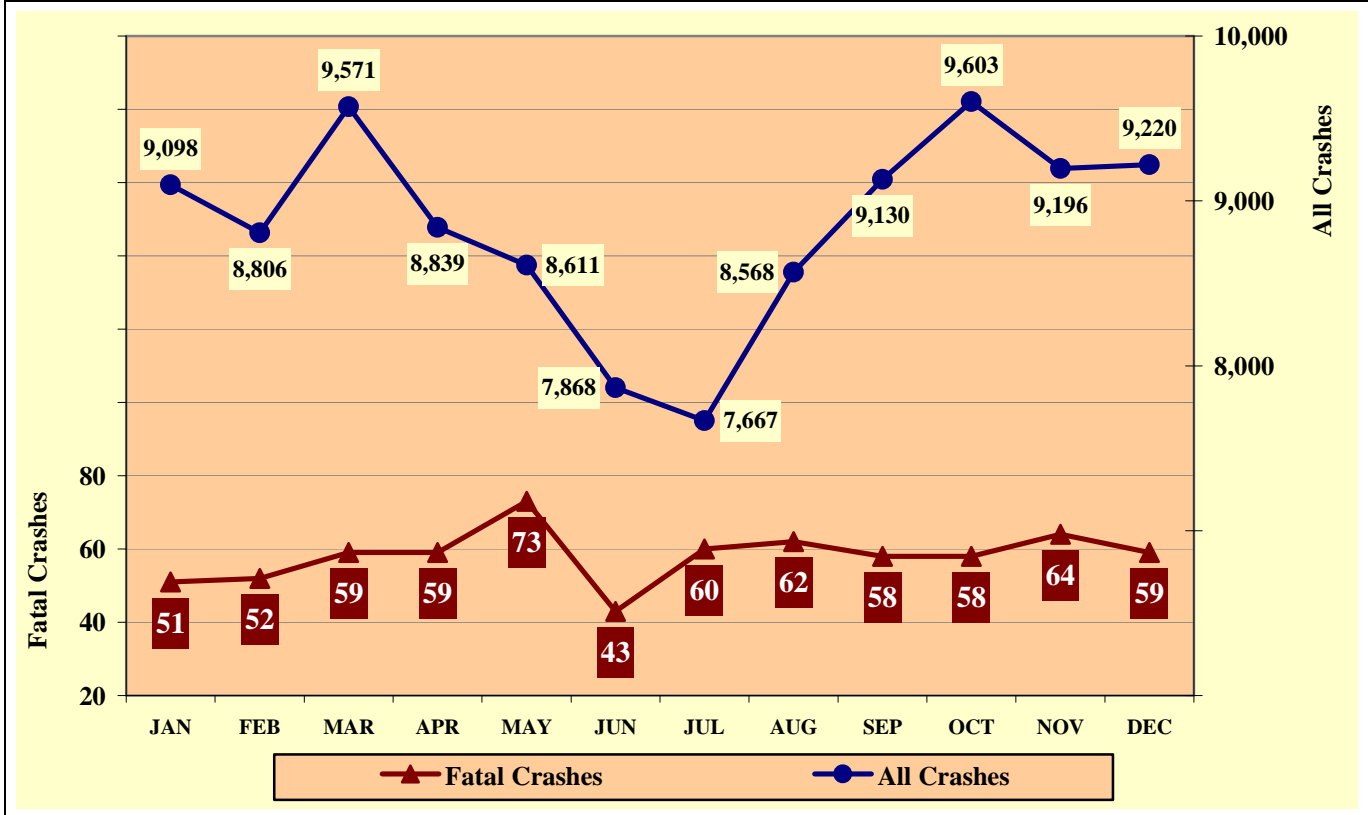


Chart 3 - 5

All Crashes vs. Fatal Crashes by Month



Section 3: – Crash Descriptions

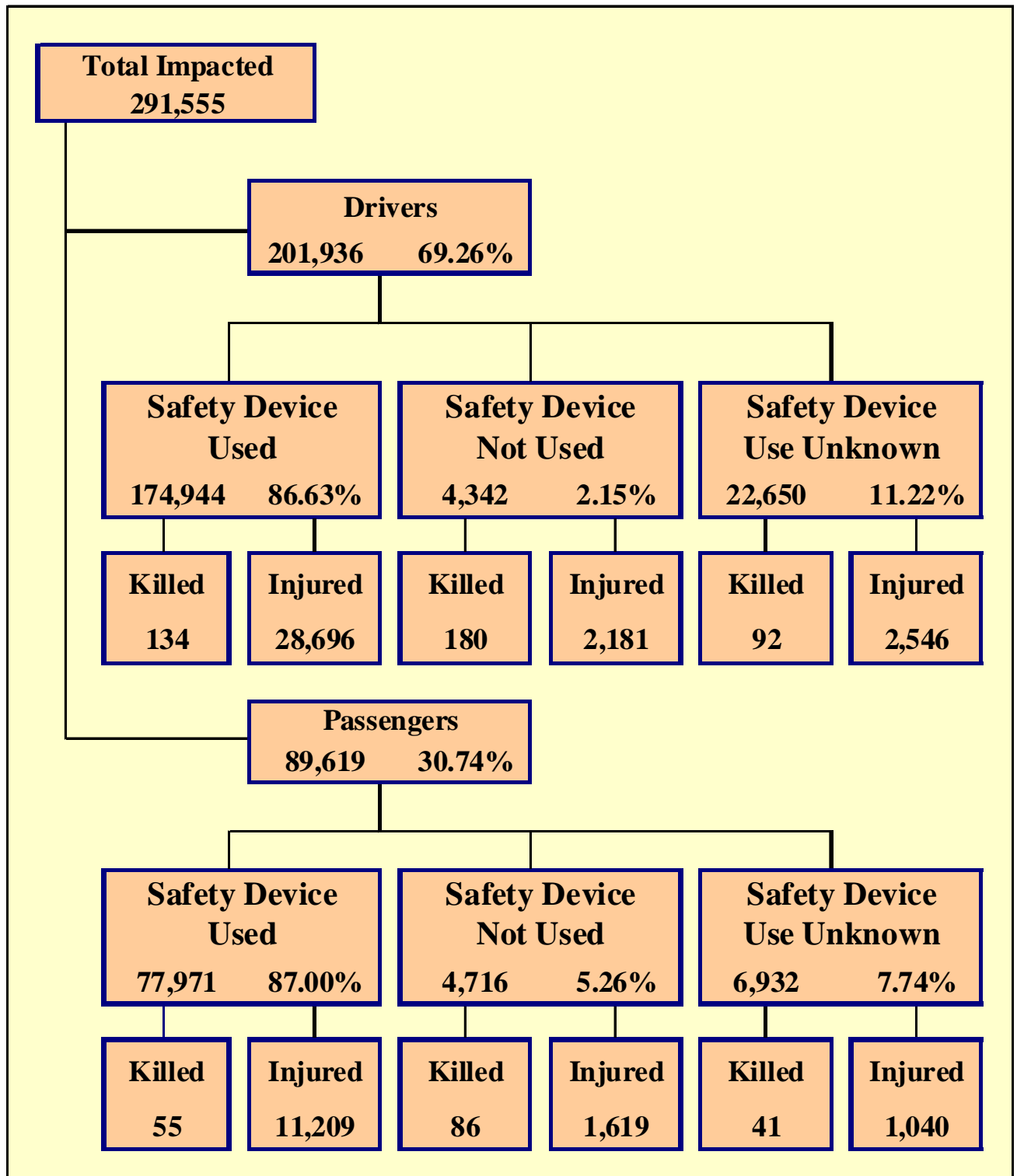
Table 3 - 7

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 |
| MIDNIGHT | 1,224 | 59 | 135 | 8 | 98 | 5 | 105 | 3 | 127 | 8 | 161 | 10 | 292 | 12 | 306 | 13 | 491 | 26 | 733 | 33 |
| 1:00 AM | 1,099 | 20 | 108 | 2 | 90 | 1 | 94 | 1 | 110 | 1 | 145 | 0 | 254 | 7 | 298 | 8 | 439 | 3 | 660 | 17 |
| 2:00 AM | 1,278 | 26 | 102 | 1 | 76 | 2 | 96 | 0 | 131 | 3 | 181 | 8 | 318 | 7 | 374 | 5 | 484 | 13 | 794 | 13 |
| 3:00 AM | 864 | 24 | 80 | 1 | 60 | 0 | 69 | 0 | 97 | 5 | 109 | 6 | 212 | 7 | 237 | 5 | 335 | 11 | 529 | 13 |
| 4:00 AM | 916 | 14 | 92 | 2 | 90 | 1 | 101 | 1 | 125 | 0 | 121 | 2 | 188 | 3 | 199 | 5 | 437 | 4 | 479 | 10 |
| 5:00 AM | 1,395 | 17 | 189 | 3 | 218 | 2 | 185 | 1 | 206 | 1 | 191 | 3 | 207 | 4 | 199 | 3 | 800 | 7 | 595 | 10 |
| 6:00 AM | 2,910 | 21 | 472 | 1 | 564 | 6 | 513 | 2 | 528 | 3 | 436 | 4 | 213 | 4 | 184 | 1 | 2,513 | 16 | 397 | 5 |
| 7:00 AM | 6,365 | 23 | 1,082 | 4 | 1,251 | 2 | 1,214 | 3 | 1,310 | 5 | 1,008 | 5 | 308 | 3 | 192 | 1 | 5,865 | 19 | 500 | 4 |
| 8:00 AM | 5,921 | 18 | 1,009 | 3 | 1,219 | 1 | 1,055 | 1 | 1,106 | 1 | 908 | 4 | 382 | 5 | 242 | 3 | 5,297 | 10 | 624 | 8 |
| 9:00 AM | 4,238 | 24 | 597 | 1 | 709 | 3 | 670 | 6 | 689 | 4 | 692 | 4 | 527 | 3 | 354 | 3 | 3,357 | 18 | 881 | 6 |
| 10:00 AM | 4,627 | 29 | 694 | 3 | 689 | 5 | 699 | 1 | 682 | 4 | 748 | 7 | 623 | 3 | 492 | 6 | 3,512 | 20 | 1,115 | 9 |
| 11:00 AM | 5,635 | 24 | 814 | 2 | 808 | 3 | 874 | 2 | 840 | 2 | 928 | 4 | 805 | 4 | 566 | 7 | 4,264 | 13 | 1,371 | 11 |
| NOON | 6,762 | 34 | 995 | 2 | 1,020 | 3 | 1,010 | 5 | 1,031 | 5 | 1,123 | 10 | 920 | 7 | 663 | 2 | 5,179 | 25 | 1,583 | 9 |
| 1:00 PM | 6,755 | 26 | 955 | 0 | 1,045 | 2 | 1,082 | 4 | 953 | 2 | 1,112 | 8 | 923 | 7 | 685 | 3 | 5,147 | 16 | 1,608 | 10 |
| 2:00 PM | 7,549 | 23 | 1,131 | 3 | 1,206 | 0 | 1,161 | 4 | 1,158 | 3 | 1,401 | 6 | 854 | 6 | 638 | 1 | 6,057 | 16 | 1,492 | 7 |
| 3:00 PM | 8,926 | 28 | 1,375 | 5 | 1,491 | 3 | 1,447 | 4 | 1,512 | 3 | 1,619 | 6 | 850 | 5 | 632 | 2 | 7,444 | 21 | 1,482 | 7 |
| 4:00 PM | 9,115 | 38 | 1,428 | 9 | 1,565 | 5 | 1,474 | 4 | 1,504 | 4 | 1,663 | 7 | 849 | 6 | 632 | 3 | 7,634 | 29 | 1,481 | 9 |
| 5:00 PM | 9,322 | 34 | 1,373 | 2 | 1,719 | 5 | 1,622 | 9 | 1,620 | 2 | 1,540 | 5 | 798 | 3 | 650 | 8 | 7,874 | 23 | 1,448 | 11 |
| 6:00 PM | 7,056 | 48 | 873 | 5 | 1,110 | 10 | 1,239 | 5 | 1,133 | 4 | 1,245 | 11 | 807 | 5 | 649 | 8 | 4,355 | 24 | 2,701 | 24 |
| 7:00 PM | 4,255 | 42 | 497 | 9 | 644 | 6 | 585 | 7 | 602 | 6 | 813 | 6 | 626 | 6 | 488 | 2 | 2,328 | 28 | 1,927 | 14 |
| 8:00 PM | 3,392 | 37 | 410 | 7 | 443 | 1 | 477 | 8 | 497 | 5 | 602 | 9 | 539 | 4 | 424 | 3 | 1,827 | 21 | 1,565 | 16 |
| 9:00 PM | 2,772 | 41 | 318 | 6 | 373 | 5 | 381 | 6 | 405 | 6 | 493 | 7 | 460 | 3 | 342 | 8 | 1,477 | 23 | 1,295 | 18 |
| 10:00 PM | 2,204 | 22 | 212 | 3 | 272 | 2 | 263 | 4 | 292 | 3 | 447 | 7 | 457 | 2 | 261 | 1 | 1,039 | 12 | 1,165 | 10 |
| 11:00 PM | 1,597 | 26 | 138 | 1 | 171 | 5 | 176 | 2 | 217 | 2 | 341 | 8 | 365 | 6 | 189 | 2 | 702 | 10 | 895 | 16 |
| TOTAL | 106,177 | 698 | 15,079 | 83 | 16,931 | 78 | 16,592 | 83 | 16,875 | 82 | 18,027 | 147 | 12,777 | 122 | 9,896 | 103 | 78,857 | 408 | 27,320 | 290 |

Crashes during Weekends accounted for 25.73% of all crashes and 41.55% of Fatal Crashes.

Crashes during Weekdays accounted for 74.27% of all crashes and 58.45% 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 | 10,843 | 89.72% | 161 | 61.92% | 219 | 49.44% |
| Unknown Injury | 172 | 1.42% | 5 | 1.92% | 136 | 30.70% |
| Possible Injury | 772 | 6.39% | 29 | 11.15% | 40 | 9.03% |
| Non-Incapacitating Injury | 242 | 2.00% | 41 | 15.77% | 27 | 6.09% |
| Incapacitating Injury | 50 | 0.41% | 20 | 7.69% | 17 | 3.84% |
| Fatal Injury | 6 | 0.05% | 4 | 1.54% | 4 | 0.90% |
| TOTALS | 12,085 | 100.00% | 260 | 100.00% | 443 | 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 | 144,513 | 82.61% | 1,888 | 43.48% | 11,458 | 50.59% |
| Unknown Injury | 1,601 | 0.92% | 93 | 2.14% | 8,554 | 37.77% |
| Possible Injury | 17,512 | 10.01% | 568 | 13.08% | 1,050 | 4.64% |
| Non-Incapacitating Injury | 9,318 | 5.33% | 1,048 | 24.14% | 1,073 | 4.74% |
| Incapacitating Injury | 1,866 | 1.07% | 565 | 13.01% | 423 | 1.87% |
| Fatal Injury | 134 | 0.08% | 180 | 4.15% | 92 | 0.41% |
| TOTALS | 174,944 | 100.00% | 4,342 | 100.00% | 22,650 | 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 | 65,750 | 84.33% | 2,949 | 62.53% | 4,373 | 63.08% |
| Unknown Injury | 957 | 1.23% | 62 | 1.31% | 1,478 | 21.32% |
| Possible Injury | 7,169 | 9.19% | 573 | 12.15% | 468 | 6.75% |
| Non-Incapacitating Injury | 3,340 | 4.28% | 706 | 14.97% | 410 | 5.91% |
| Incapacitating Injury | 700 | 0.90% | 340 | 7.21% | 162 | 2.34% |
| Fatal Injury | 55 | 0.07% | 86 | 1.82% | 41 | 0.59% |
| TOTALS | 77,971 | 100.00% | 4,716 | 100.00% | 6,932 | 100.00% |

Table 4 - 4

Driver Safety Device Usage by Gender

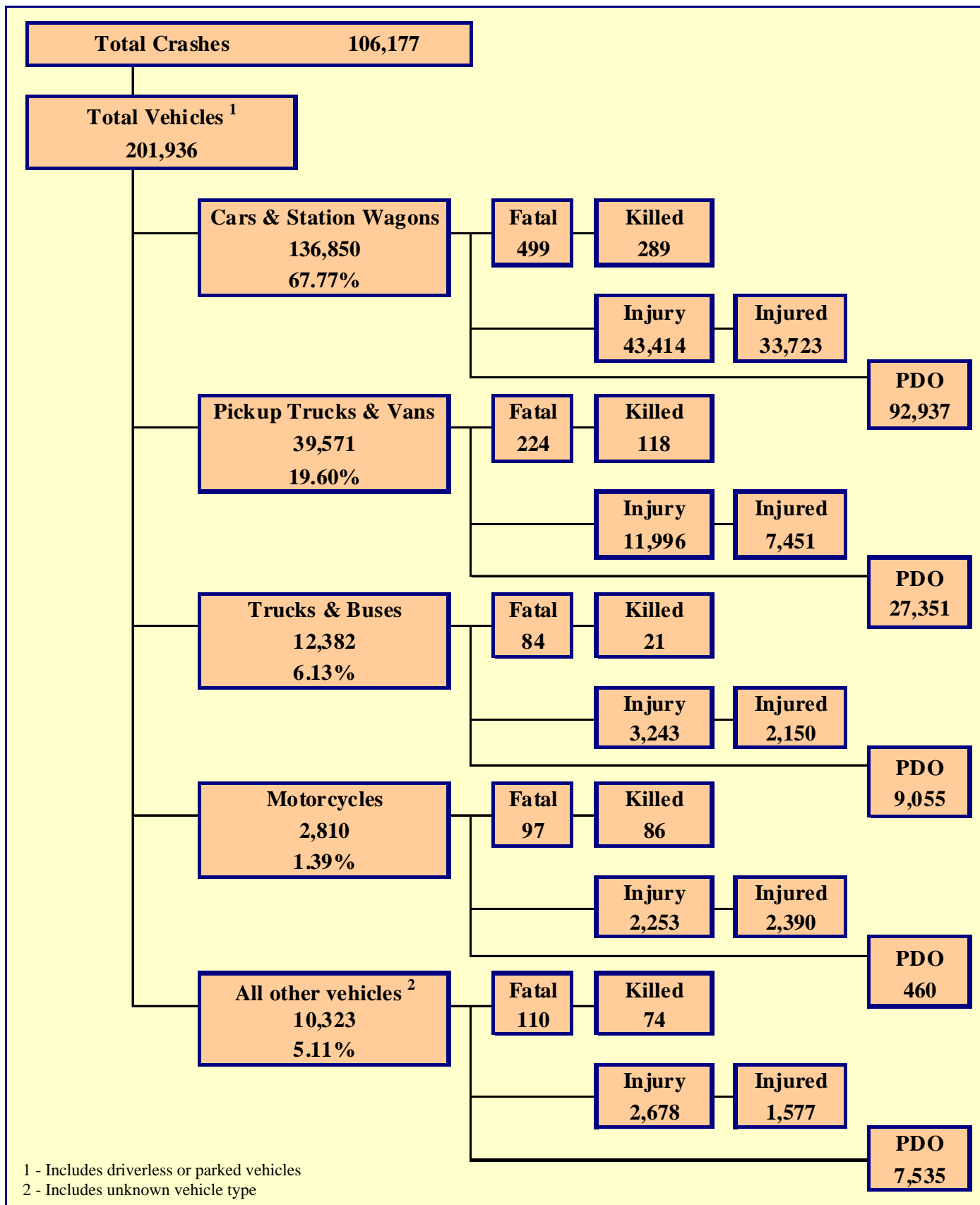
| Gender of Driver | Number of Drivers | | | | | | | Total | Percent of Total |
|------------------|--------------------|-------------------------------|------------------------|-----------------------------------|---------------------------|--------------------|----------------|----------------|------------------|
| | 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 | 96,225 | 55.00% | 2,912 | 67.07% | 8,065 | 35.61% | 107,202 | 53.09% | |
| Female | 78,559 | 44.91% | 1,318 | 30.35% | 3,999 | 17.66% | 83,876 | 41.54% | |
| Unknown | 160 | 0.09% | 112 | 2.58% | 10,586 | 46.74% | 10,858 | 5.38% | |
| TOTAL | 174,944 | 100.00% | 4,342 | 100.00% | 22,650 | 100.00% | 201,936 | 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 | 209 | 0.12% | 32 | 0.74% | 46 | 0.20% | 287 | 0.14% | |
| 16 | 2,503 | 1.43% | 50 | 1.15% | 131 | 0.58% | 2,684 | 1.33% | |
| 17 | 4,010 | 2.29% | 112 | 2.58% | 231 | 1.02% | 4,353 | 2.16% | |
| 18 | 5,533 | 3.16% | 179 | 4.12% | 310 | 1.37% | 6,022 | 2.98% | |
| 19 | 5,847 | 3.34% | 184 | 4.24% | 365 | 1.61% | 6,396 | 3.17% | |
| 20 | 5,474 | 3.13% | 195 | 4.49% | 354 | 1.56% | 6,023 | 2.98% | |
| 21 | 5,169 | 2.95% | 161 | 3.71% | 333 | 1.47% | 5,663 | 2.80% | |
| 22 | 4,749 | 2.71% | 138 | 3.18% | 318 | 1.40% | 5,205 | 2.58% | |
| 23 | 4,560 | 2.61% | 146 | 3.36% | 294 | 1.30% | 5,000 | 2.48% | |
| 24 | 4,492 | 2.57% | 146 | 3.36% | 302 | 1.33% | 4,940 | 2.45% | |
| 25-34 | 37,349 | 21.35% | 951 | 21.90% | 2,435 | 10.75% | 40,735 | 20.17% | |
| 35-44 | 31,084 | 17.77% | 689 | 15.87% | 1,943 | 8.58% | 33,716 | 16.70% | |
| 45-54 | 27,488 | 15.71% | 593 | 13.66% | 1,633 | 7.21% | 29,714 | 14.71% | |
| 55-64 | 19,256 | 11.01% | 351 | 8.08% | 1,049 | 4.63% | 20,656 | 10.23% | |
| 65-74 | 10,022 | 5.73% | 155 | 3.57% | 497 | 2.19% | 10,674 | 5.29% | |
| 75 & Older | 6,150 | 3.52% | 98 | 2.26% | 252 | 1.11% | 6,500 | 3.22% | |
| Unknown | 1,049 | 0.60% | 162 | 3.73% | 12,157 | 53.67% | 13,368 | 6.62% | |
| TOTAL | 174,944 | 100.00% | 4,342 | 100.00% | 22,650 | 100.00% | 201,936 | 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 | 4,227,378 |
| Commercial Vehicles | 415,702 |
| Buses and Taxis | 3,997 |
| Motorcycles | 158,411 |
| Mopeds | 416 |
| TOTAL | 4,805,904 |
| Source: MVD - MV988 MV630419, Currently Registered Vehicles by County Listing, dated 12/31/2010. | |

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.) | 98,771 | 48.912% | 321 | 31,621 | 66,829 |
| Station Wagons | 38,079 | 18.857% | 178 | 11,793 | 26,108 |
| Pickup Trucks | 37,519 | 18.580% | 216 | 11,359 | 25,944 |
| Vans | 2,052 | 1.016% | 8 | 637 | 1,407 |
| Truck Tractor (with or without Semi-Trailer) | 2,662 | 1.318% | 34 | 604 | 2,024 |
| Concrete Mixer Trucks | 29 | 0.014% | 0 | 6 | 23 |
| Dump Trucks | 167 | 0.083% | 0 | 35 | 132 |
| Garbage Trucks | 107 | 0.053% | 1 | 20 | 86 |
| Tanker Trucks | 35 | 0.017% | 0 | 5 | 30 |
| Wrecker or Tow Trucks | 187 | 0.093% | 1 | 55 | 131 |
| Other Truck Combinations | 8,023 | 3.973% | 41 | 2,277 | 5,705 |
| School Bus | 230 | 0.114% | 1 | 41 | 188 |
| Commercial or Non-Commercial Bus | 942 | 0.466% | 6 | 200 | 736 |
| Motorcycle (two or three wheel) | 2,810 | 1.392% | 97 | 2,253 | 460 |
| All Terrain Vehicle or Cycle | 145 | 0.072% | 4 | 116 | 25 |
| Moped | 22 | 0.011% | 6 | 13 | 3 |
| Recreational Vehicle | 158 | 0.078% | 3 | 49 | 106 |
| Motor Home or House Car | 163 | 0.081% | 2 | 28 | 133 |
| Fire Trucks | 42 | 0.021% | 0 | 5 | 37 |
| Ambulances | 73 | 0.036% | 1 | 18 | 54 |
| Other Types Of Vehicles | 236 | 0.117% | 3 | 87 | 146 |
| Vehicle Type Unknown | 9,484 | 4.697% | 91 | 2,362 | 7,031 |
| TOTAL | 201,936 | 100.00% | 1,014 | 63,584 | 137,338 |

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 | 11,388 | 43 | 2,285 | 9,060 | 44 | 3,150 |
| No | 94,789 | 655 | 30,910 | 63,224 | 718 | 46,960 |
| TOTAL | 106,177 | 698 | 33,195 | 72,284 | 762 | 50,110 |

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 | 107,202 | 53.09% | 676 | 66.67% | 33,743 | 53.07% | 72,783 | 53.00% |
| Female | 83,876 | 41.54% | 279 | 27.51% | 28,008 | 44.05% | 55,589 | 40.48% |
| Unknown | 10,858 | 5.38% | 59 | 5.82% | 1,833 | 2.88% | 8,966 | 6.53% |
| TOTAL | 201,936 | 100.00% | 1,014 | 100.00% | 63,584 | 100.00% | 137,338 | 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 | 163,948 | 81.19% | 741 | 73.08% | 52,940 | 83.26% | 110,267 | 80.29% |
| All Others* | 37,988 | 18.81% | 273 | 26.92% | 10,644 | 16.74% | 27,071 | 19.71% |
| TOTAL | 201,936 | 100.00% | 1,014 | 100.00% | 63,584 | 100.00% | 137,338 | 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 | | | |
|------------------|-------------------|-----------|-----------|--------------------|--------------|--------------|----------------|
| | Total | Male | Female | Total | Male | Female | Gender Unknown |
| 0-4 | 11 | 6 | 5 | 978 | 505 | 473 | 0 |
| 5-9 | 3 | 2 | 1 | 1,161 | 555 | 606 | 0 |
| 10-14 | 4 | 3 | 1 | 1,250 | 525 | 725 | 0 |
| 15-19 | 18 | 14 | 4 | 2,184 | 875 | 1,309 | 0 |
| 20-24 | 20 | 15 | 5 | 1,532 | 641 | 891 | 0 |
| 25-34 | 21 | 12 | 9 | 1,792 | 707 | 1,085 | 0 |
| 35-44 | 26 | 13 | 13 | 1,211 | 421 | 790 | 0 |
| 45-54 | 17 | 7 | 10 | 1,176 | 326 | 850 | 0 |
| 55-64 | 25 | 7 | 18 | 915 | 237 | 678 | 0 |
| 65-74 | 14 | 3 | 11 | 607 | 137 | 470 | 0 |
| 75 & Older | 22 | 6 | 16 | 490 | 125 | 365 | 0 |
| Unknown | 1 | 0 | 1 | 572 | 205 | 309 | 58 |
| TOTAL | 182 | 88 | 94 | 13,868 | 5,259 | 8,551 | 58 |

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.) | 120 | 17,903 | 65 | 6,957 |
| Station Wagons | 64 | 5,882 | 40 | 2,981 |
| Pickup Trucks | 74 | 4,878 | 40 | 2,127 |
| Vans | 4 | 279 | 0 | 167 |
| Truck Tractor (with or without Semi-Trailer) | 0 | 161 | 1 | 53 |
| Concrete Mixer Trucks | 0 | 2 | 0 | 1 |
| Dump Trucks | 0 | 12 | 0 | 0 |
| Garbage Trucks | 0 | 2 | 0 | 1 |
| Tanker Trucks | 0 | 2 | 0 | 0 |
| Wrecker or Tow Trucks | 0 | 16 | 0 | 3 |
| Other Truck Combinations | 8 | 957 | 4 | 694 |
| School Bus | 0 | 8 | 0 | 33 |
| Commercial or Non-Commercial Bus | 0 | 48 | 8 | 157 |
| Motorcycle (two or three wheel) | 82 | 2,173 | 4 | 217 |
| All Terrain Vehicle or Cycle | 2 | 108 | 2 | 45 |
| Moped | 6 | 13 | 0 | 0 |
| Recreational Vehicle | 0 | 28 | 2 | 18 |
| Motor Home or House Car | 0 | 11 | 0 | 10 |
| Fire Trucks | 0 | 1 | 0 | 0 |
| Ambulances | 0 | 5 | 0 | 8 |
| Other Types Of Vehicles | 2 | 51 | 1 | 18 |
| Vehicle Type Unknown | 44 | 883 | 15 | 378 |
| TOTAL | 406 | 33,423 | 182 | 13,868 |

Table 5 - 8

Drivers Killed and Injured by Age and Gender

| Age of Driver | Drivers Killed | | | Drivers Injured | | | |
|---------------|----------------|------------|------------|-----------------|---------------|---------------|----------------|
| | Total | Male | Female | Total | Male | Female | Gender Unknown |
| 0-4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5-9 | 0 | 0 | 0 | 2 | 1 | 1 | 0 |
| 10-14 | 0 | 0 | 0 | 29 | 19 | 10 | 0 |
| 15-19 | 19 | 15 | 4 | 3,078 | 1,468 | 1,610 | 0 |
| 20-24 | 40 | 32 | 8 | 4,787 | 2,305 | 2,482 | 0 |
| 25-34 | 94 | 63 | 31 | 7,078 | 3,419 | 3,659 | 0 |
| 35-44 | 64 | 53 | 11 | 5,805 | 2,821 | 2,984 | 0 |
| 45-54 | 56 | 41 | 15 | 5,387 | 2,709 | 2,678 | 0 |
| 55-64 | 62 | 49 | 13 | 3,919 | 1,965 | 1,954 | 0 |
| 65-74 | 28 | 16 | 12 | 1,958 | 1,035 | 923 | 0 |
| 75 & Older | 43 | 28 | 15 | 1,147 | 608 | 539 | 0 |
| Unknown | 0 | 0 | 0 | 233 | 117 | 56 | 60 |
| TOTAL | 406 | 297 | 109 | 33,423 | 16,467 | 16,896 | 60 |

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 | 9,672 | 0.42% | 9,358 | 0.41% | 19,030 | 0.42% | 0.42% |
| 17 | 18,358 | 0.80% | 17,142 | 0.76% | 35,500 | 0.78% | 1.20% |
| 18 | 26,948 | 1.18% | 24,561 | 1.09% | 51,509 | 1.14% | 2.34% |
| 19 | 31,816 | 1.39% | 29,671 | 1.31% | 61,487 | 1.36% | 3.69% |
| 20 | 34,694 | 1.52% | 33,117 | 1.47% | 67,811 | 1.49% | 5.19% |
| 21 | 35,870 | 1.57% | 34,424 | 1.53% | 70,294 | 1.55% | 6.74% |
| 22 | 36,314 | 1.59% | 35,574 | 1.58% | 71,888 | 1.58% | 8.32% |
| 23 | 36,637 | 1.61% | 36,073 | 1.60% | 72,710 | 1.60% | 9.92% |
| 24 | 37,744 | 1.65% | 37,630 | 1.67% | 75,374 | 1.66% | 30.10% |
| 25-34 | 422,938 | 18.54% | 417,149 | 18.49% | 840,087 | 18.51% | 30.10% |
| 35-44 | 445,555 | 19.53% | 414,865 | 18.39% | 860,420 | 18.96% | 49.06% |
| 45-54 | 439,645 | 19.27% | 432,280 | 19.16% | 871,925 | 19.22% | 68.27% |
| 55-64 | 367,789 | 16.12% | 382,179 | 16.94% | 749,968 | 16.53% | 84.80% |
| 65-74 | 205,539 | 9.01% | 213,611 | 9.47% | 419,150 | 9.24% | 94.04% |
| 75 & older | 131,606 | 5.77% | 138,894 | 6.16% | 270,500 | 5.96% | 100.00% |
| TOTALS | 2,281,125 | 100.00% | 2,256,528 | 100.00% | 4,537,653 | 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 1/3/2011.

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 | 287 | 0.14% | 2 | 0.20% | 99 | 0.16% | 186 | 0.14% |
| 16 | 2,684 | 1.33% | 7 | 0.69% | 793 | 1.25% | 1,884 | 1.37% |
| 17 | 4,353 | 2.16% | 9 | 0.89% | 1,280 | 2.01% | 3,064 | 2.23% |
| 18 | 6,022 | 2.98% | 16 | 1.58% | 1,932 | 3.04% | 4,074 | 2.97% |
| 19 | 6,396 | 3.17% | 19 | 1.87% | 2,067 | 3.25% | 4,310 | 3.14% |
| 20 | 6,023 | 2.98% | 24 | 2.37% | 1,897 | 2.98% | 4,102 | 2.99% |
| 21 | 5,663 | 2.80% | 17 | 1.68% | 1,797 | 2.83% | 3,849 | 2.80% |
| 22 | 5,205 | 2.58% | 24 | 2.37% | 1,730 | 2.72% | 3,451 | 2.51% |
| 23 | 5,000 | 2.48% | 16 | 1.58% | 1,601 | 2.52% | 3,383 | 2.46% |
| 24 | 4,940 | 2.45% | 17 | 1.68% | 1,647 | 2.59% | 3,276 | 2.39% |
| 25-34 | 40,735 | 20.17% | 195 | 19.23% | 13,136 | 20.66% | 27,404 | 19.95% |
| 35-44 | 33,716 | 16.70% | 178 | 17.55% | 10,850 | 17.06% | 22,688 | 16.52% |
| 45-54 | 29,714 | 14.71% | 165 | 16.27% | 9,772 | 15.37% | 19,777 | 14.40% |
| 55-64 | 20,656 | 10.23% | 122 | 12.03% | 6,894 | 10.84% | 13,640 | 9.93% |
| 65-74 | 10,674 | 5.29% | 66 | 6.51% | 3,516 | 5.53% | 7,092 | 5.16% |
| 75 & Older | 6,500 | 3.22% | 68 | 6.71% | 2,085 | 3.28% | 4,347 | 3.17% |
| Unknown | 13,368 | 6.62% | 69 | 6.80% | 2,488 | 3.91% | 10,811 | 7.87% |
| TOTAL | 201,936 | 100.00% | 1,014 | 100.00% | 63,584 | 100.00% | 137,338 | 100.00% |

Section 5: – Motor Vehicle and Driver Descriptions

Table 5 - 11

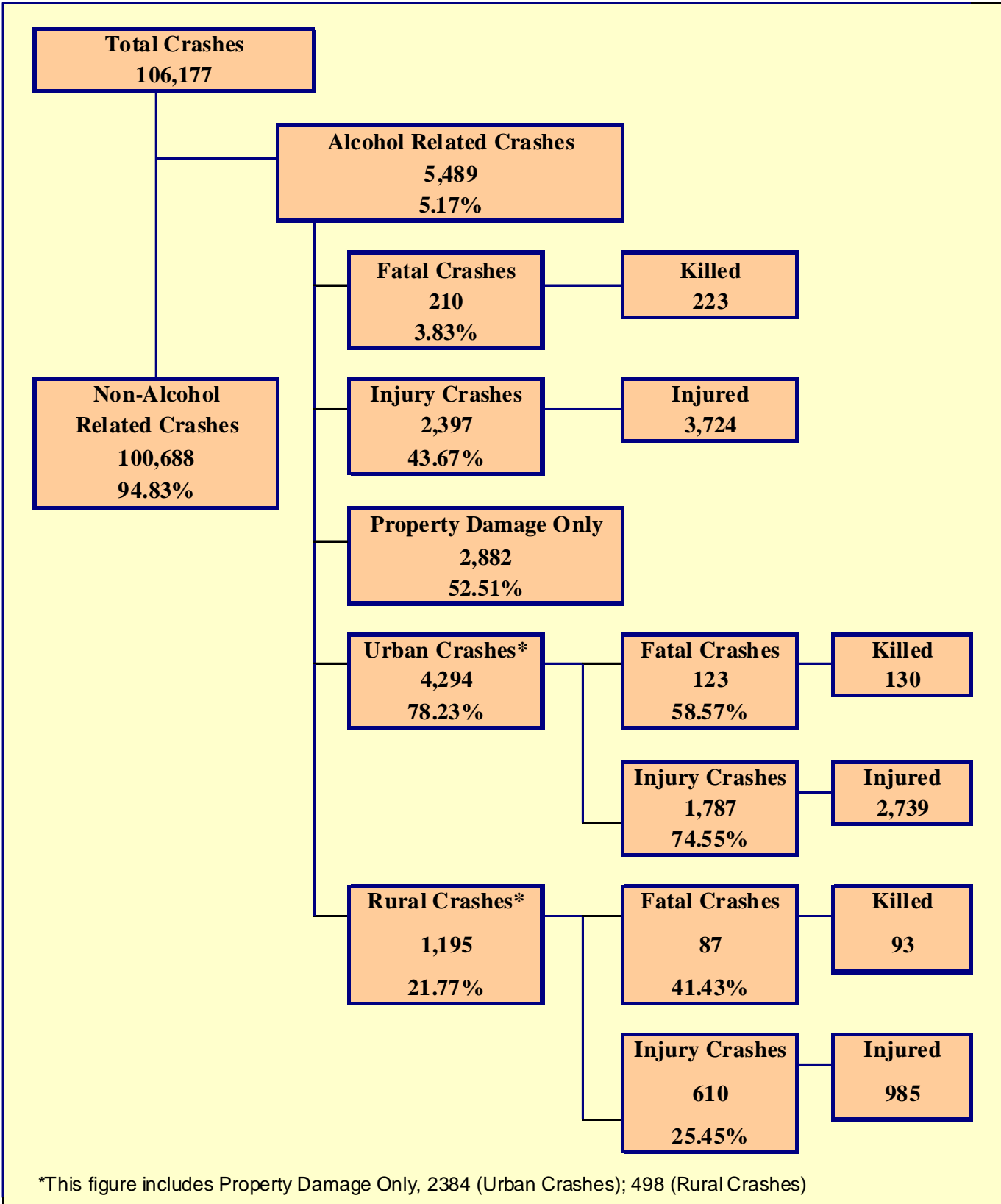
Driver Errors

| 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 | 96,741 | 47.91% | 386 | 38.07% | 30,970 | 48.71% | 65,385 | 47.61% |
| Speed too Fast for Conditions | 33,939 | 16.81% | 145 | 14.30% | 11,080 | 17.43% | 22,714 | 16.54% |
| Exceeded Lawful Speed | 1,055 | 0.52% | 29 | 2.86% | 451 | 0.71% | 575 | 0.42% |
| Failed to Yield Right-Of-Way | 13,643 | 6.76% | 47 | 4.64% | 5,249 | 8.26% | 8,347 | 6.08% |
| Followed Too Closely | 5,520 | 2.73% | 4 | 0.39% | 1,465 | 2.30% | 4,051 | 2.95% |
| Ran Stop Sign | 1,110 | 0.55% | 13 | 1.28% | 441 | 0.69% | 656 | 0.48% |
| Disregarded Traffic Signal | 4,910 | 2.43% | 28 | 2.76% | 2,313 | 3.64% | 2,569 | 1.87% |
| Made Improper Turn | 4,270 | 2.11% | 8 | 0.79% | 1,229 | 1.93% | 3,033 | 2.21% |
| Drove in Opposing Lane | 1,212 | 0.60% | 47 | 4.64% | 450 | 0.71% | 715 | 0.52% |
| Knowingly Operated with Faulty or Missing Equipment | 269 | 0.13% | 1 | 0.10% | 98 | 0.15% | 170 | 0.12% |
| Required Motorcycle Safety Equipment Not Used | 17 | 0.01% | 0 | 0.00% | 14 | 0.02% | 3 | 0.00% |
| Passed in No-Passing Zone | 121 | 0.06% | 0 | 0.00% | 34 | 0.05% | 87 | 0.06% |
| Unsafe Lane Change | 5,987 | 2.96% | 10 | 0.99% | 878 | 1.38% | 5,099 | 3.71% |
| Failed to Keep in Proper Lane | 3,067 | 1.52% | 40 | 3.94% | 799 | 1.26% | 2,228 | 1.62% |
| Disregarded Pavement Markings | 193 | 0.10% | 1 | 0.10% | 50 | 0.08% | 142 | 0.10% |
| Other Unsafe Passing | 622 | 0.31% | 6 | 0.59% | 144 | 0.23% | 472 | 0.34% |
| Inattention/Distraction | 12,026 | 5.96% | 27 | 2.66% | 3,280 | 5.16% | 8,719 | 6.35% |
| Electronic Communications Device | 148 | 0.07% | 0 | 0.00% | 56 | 0.09% | 92 | 0.07% |
| Other | 5,664 | 2.80% | 21 | 2.07% | 1,647 | 2.59% | 3,996 | 2.91% |
| Unknown | 11,422 | 5.66% | 201 | 19.82% | 2,936 | 4.62% | 8,285 | 6.03% |
| TOTAL | 201,936 | 100.00% | 1,014 | 100.00% | 63,584 | 100.00% | 137,338 | 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 | 177,894 | 88.09% | 544 | 53.65% | 56,139 | 88.29% | 121,211 | 88.26% |
| Had Been Drinking | 5,295 | 2.62% | 160 | 15.78% | 2,266 | 3.56% | 2,869 | 2.09% |
| Appeared to be Under the Influence of Drugs* | 585 | 0.29% | 31 | 3.06% | 267 | 0.42% | 287 | 0.21% |
| Medications | 305 | 0.15% | 3 | 0.30% | 137 | 0.22% | 165 | 0.12% |
| Illness | 692 | 0.34% | 6 | 0.59% | 333 | 0.52% | 353 | 0.26% |
| Physical Impairment | 189 | 0.09% | 0 | 0.00% | 93 | 0.15% | 96 | 0.07% |
| Fell Asleep or Fatigued | 1,287 | 0.64% | 14 | 1.38% | 579 | 0.91% | 694 | 0.51% |
| Other | 1,073 | 0.53% | 11 | 1.08% | 307 | 0.48% | 755 | 0.55% |
| Unknown | 14,616 | 7.24% | 245 | 24.16% | 3,463 | 5.45% | 10,908 | 7.94% |
| TOTAL | 201,936 | 100.00% | 1,014 | 100.00% | 63,584 | 100.00% | 137,338 | 100.00% |
| *Illegal drugs or narcotics | | | | | | | | |



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 2010

| | |
|-----------------------------|----------------------|
| Fatalities | \$293,423,400 |
| Incapacitating Injuries | \$44,951,400 |
| Non-Incapacitating Injuries | \$34,467,534 |
| Possible Injuries | \$19,364,088 |
| Property Damage Only | \$24,105,048 |
| TOTAL | \$416,311,470 |

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 |
|------|-------------------------|------------------------|----------------|---------------------------|-----------------|-------------------------|
| 2006 | 8,218 | 5.73% | 385 | 29.59% | 5,956 | 8.51% |
| 2007 | 7,938 | 5.62% | 397 | 37.07% | 5,532 | 8.37% |
| 2008 | 6,878 | 5.71% | 355 | 37.85% | 4,834 | 8.55% |
| 2009 | 5,891 | 5.50% | 267 | 33.13% | 4,174 | 8.22% |
| 2010 | 5,489 | 5.17% | 223 | 29.27% | 3,724 | 7.43% |

Table 6 - 3

Manner of Collision in Alcohol Related 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 | 501 | 16.20% | 23 | 20.91% | 273 | 19.31% | 205 | 13.07% |
| Left Turn | 257 | 8.31% | 4 | 3.64% | 144 | 10.18% | 109 | 6.95% |
| Read End | 1,291 | 41.75% | 13 | 11.82% | 545 | 38.54% | 733 | 46.75% |
| Head-On | 220 | 7.12% | 13 | 11.82% | 124 | 8.77% | 83 | 5.29% |
| Sideswipe (same) | 348 | 11.25% | 1 | 0.91% | 100 | 7.07% | 247 | 15.75% |
| Sideswipe (opposite) | 109 | 3.53% | 3 | 2.73% | 36 | 2.55% | 70 | 4.46% |
| Rear to Side | 32 | 1.03% | 0 | 0.00% | 3 | 0.21% | 29 | 1.85% |
| Rear to Rear | 16 | 0.52% | 0 | 0.00% | 8 | 0.57% | 8 | 0.51% |
| Other | 284 | 9.18% | 51 | 46.36% | 164 | 11.60% | 69 | 4.40% |
| Unknown | 34 | 1.10% | 2 | 1.82% | 17 | 1.20% | 15 | 0.96% |
| TOTAL | 3,092 | 100.00% | 110 | 100.00% | 1,414 | 100.00% | 1,568 | 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 | 2,361 | 44 | 1,072 | 1,245 | 51 | 2,019 |
| Overturning | 305 | 34 | 218 | 53 | 38 | 327 |
| Collision with Pedestrian | 219 | 58 | 150 | 11 | 58 | 160 |
| Collision with Pedalcyclist | 56 | 5 | 36 | 15 | 5 | 37 |
| Collision with Animal | 6 | 0 | 4 | 2 | 0 | 4 |
| Collision with Fixed Object | 1,897 | 60 | 682 | 1,155 | 62 | 859 |
| Collision with Non-fixed Object* | 302 | 3 | 83 | 216 | 3 | 105 |
| Vehicle Fire or Explosion | 5 | 0 | 3 | 2 | 0 | 5 |
| Other Non-collision** | 151 | 6 | 74 | 71 | 6 | 98 |
| Unknown | 187 | 0 | 75 | 112 | 0 | 110 |
| TOTAL | 5,489 | 210 | 2,397 | 2,882 | 223 | 3,724 |
| *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.) | 2,627 | 49.613% | 59 | 1,096 | 1,472 |
| Station Wagons | 902 | 17.035% | 21 | 380 | 501 |
| Pickup Trucks | 1,189 | 22.455% | 41 | 489 | 659 |
| Vans | 51 | 0.963% | 1 | 24 | 26 |
| Truck Tractor (with or without Semi-Trailer) | 3 | 0.057% | 0 | 0 | 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 | 0.019% | 0 | 0 | 1 |
| Other Truck Combinations | 109 | 2.059% | 2 | 34 | 73 |
| School Bus | 0 | 0.000% | 0 | 0 | 0 |
| Commercial or Non-Commercial Bus | 0 | 0.000% | 0 | 0 | 0 |
| Motorcycle (two or three wheel) | 184 | 3.475% | 27 | 149 | 8 |
| All Terrain Vehicle or Cycle | 23 | 0.434% | 2 | 19 | 2 |
| Moped | 2 | 0.038% | 0 | 2 | 0 |
| Recreational Vehicle | 8 | 0.151% | 0 | 5 | 3 |
| Motor Home or House Car | 3 | 0.057% | 0 | 1 | 2 |
| Fire Trucks | 0 | 0.000% | 0 | 0 | 0 |
| Ambulances | 0 | 0.000% | 0 | 0 | 0 |
| Other Types Of Vehicles | 6 | 0.113% | 0 | 4 | 2 |
| Vehicle Type Unknown | 187 | 3.532% | 7 | 63 | 117 |
| TOTAL | 5,295 | 100.00% | 160 | 2,266 | 2,869 |

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 | 1,508 | 39 | 682 | 787 | 42 | 1,130 |
| Dawn | 107 | 4 | 51 | 52 | 4 | 76 |
| Dusk | 166 | 7 | 72 | 87 | 7 | 102 |
| Dark - Lighted | 2,687 | 71 | 1,103 | 1,513 | 74 | 1,660 |
| Dark - Not Lighted | 877 | 65 | 428 | 384 | 69 | 648 |
| Dark - Unknown Lighting | 144 | 24 | 61 | 59 | 27 | 108 |
| TOTAL | 5,489 | 210 | 2,397 | 2,882 | 223 | 3,724 |

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 | 4,904 | 137 | 2,122 | 2,645 | 189 | 3,483 |
| Wet | 287 | 7 | 110 | 170 | 13 | 170 |
| Snow | 17 | 2 | 4 | 11 | 3 | 5 |
| Slush | 1 | 0 | 1 | 0 | 0 | 2 |
| Ice/Frost | 6 | 0 | 4 | 2 | 1 | 6 |
| Water (standing or moving) | 0 | 0 | 0 | 0 | 0 | 0 |
| Sand | 1 | 0 | 0 | 1 | 0 | 0 |
| Mud, Dirt, Gravel | 45 | 2 | 18 | 25 | 2 | 34 |
| Oil | 1 | 1 | 0 | 0 | 1 | 1 |
| Other | 6 | 0 | 2 | 4 | 0 | 2 |
| Unknown | 27 | 11 | 5 | 11 | 14 | 21 |
| TOTAL | 5,295 | 160 | 2,266 | 2,869 | 223 | 3,724 |

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 | 3,884 | 73.35% | 132 | 82.50% | 1,682 | 74.23% | 2,070 | 72.15% |
| Female | 1,360 | 25.68% | 28 | 17.50% | 570 | 25.15% | 762 | 26.56% |
| Unknown | 51 | 0.96% | 0 | 0.00% | 14 | 0.62% | 37 | 1.29% |
| TOTAL | 5,295 | 100.00% | 160 | 100.00% | 2,266 | 100.00% | 2,869 | 100.00% |

In total crashes across the state, 53.09% of the drivers were males. When alcohol was involved, males accounted for 73.35% 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 | 6 | 0.11% | 0 | 0.00% | 2 | 0.09% | 4 | 0.14% |
| 16 | 30 | 0.57% | 2 | 1.25% | 7 | 0.31% | 21 | 0.73% |
| 17 | 64 | 1.21% | 1 | 0.63% | 30 | 1.32% | 33 | 1.15% |
| 18 | 134 | 2.53% | 2 | 1.25% | 55 | 2.43% | 77 | 2.68% |
| 19 | 173 | 3.27% | 2 | 1.25% | 75 | 3.31% | 96 | 3.35% |
| 20 | 215 | 4.06% | 10 | 6.25% | 86 | 3.80% | 119 | 4.15% |
| 21 | 235 | 4.44% | 8 | 5.00% | 106 | 4.68% | 121 | 4.22% |
| 22 | 225 | 4.25% | 6 | 3.75% | 94 | 4.15% | 125 | 4.36% |
| 23 | 248 | 4.68% | 8 | 5.00% | 111 | 4.90% | 129 | 4.50% |
| 24 | 213 | 4.02% | 4 | 2.50% | 86 | 3.80% | 123 | 4.29% |
| 25-34 | 1,467 | 27.71% | 38 | 23.75% | 646 | 28.51% | 783 | 27.29% |
| 35-44 | 979 | 18.49% | 30 | 18.75% | 424 | 18.71% | 525 | 18.30% |
| 45-54 | 745 | 14.07% | 27 | 16.88% | 320 | 14.12% | 398 | 13.87% |
| 55-64 | 335 | 6.33% | 14 | 8.75% | 135 | 5.96% | 186 | 6.48% |
| 65-74 | 110 | 2.08% | 6 | 3.75% | 52 | 2.29% | 52 | 1.81% |
| 75 & Older | 26 | 0.49% | 1 | 0.63% | 12 | 0.53% | 13 | 0.45% |
| Unknown | 90 | 1.70% | 1 | 0.63% | 25 | 1.10% | 64 | 2.23% |
| TOTAL | 5,295 | 100.00% | 160 | 100.00% | 2,266 | 100.00% | 2,869 | 100.00% |

Table 6 - 10

When Alcohol Related Crashes Occurred in 2010

| Time of Day | Total | Weekday | Weekend* |
|--|--------------|--------------|--------------|
| Daytime** | 1,435 | 906 | 529 |
| Nighttime | 4,054 | 1,618 | 2,436 |
| Total | 5,489 | 2,524 | 2,965 |
| *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. | | | |
| **Day time 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 | 227 | 44 | 2,043 | 2 | 8 | 1,010 | 3,334 |
| Unknown Injury | 12 | 0 | 24 | 0 | 4 | 150 | 190 |
| Possible Injury | 85 | 5 | 280 | 2 | 0 | 178 | 550 |
| Non-Incapacitating Injury | 169 | 8 | 361 | 12 | 2 | 232 | 784 |
| Incapacitating Injury | 140 | 1 | 80 | 8 | 0 | 102 | 331 |
| Fatal Injury | 73 | 0 | 13 | 4 | 1 | 15 | 106 |
| TOTALS | 706 | 58 | 2,801 | 28 | 15 | 1,687 | 5,295 |

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 | 1 | 0 | 1 | 60 | 29 | 31 | 0 |
| 5-9 | 2 | 2 | 0 | 52 | 22 | 30 | 0 |
| 10-14 | 2 | 1 | 1 | 82 | 29 | 53 | 0 |
| 15-19 | 14 | 12 | 2 | 356 | 182 | 174 | 0 |
| 20-24 | 41 | 36 | 5 | 722 | 468 | 254 | 0 |
| 25-34 | 43 | 29 | 14 | 898 | 569 | 329 | 0 |
| 35-44 | 38 | 29 | 9 | 598 | 381 | 217 | 0 |
| 45-54 | 41 | 31 | 10 | 468 | 317 | 151 | 0 |
| 55-64 | 26 | 20 | 6 | 254 | 151 | 103 | 0 |
| 65-74 | 13 | 12 | 1 | 107 | 60 | 47 | 0 |
| 75 & Older | 2 | 1 | 1 | 40 | 21 | 19 | 0 |
| Unknown | 0 | 0 | 0 | 87 | 46 | 22 | 19 |
| TOTAL | 223 | 173 | 50 | 3,724 | 2,275 | 1,430 | 19 |

Table 6 - 13

Alcohol Related Crashes by County

| County | Number of Crashes | | | | Number of Persons | |
|--------------|-------------------|------------|--------------|--------------|-------------------|--------------|
| | Total | Fatal | Injury | PDO | Killed | Injured |
| Apache | 42 | 8 | 22 | 12 | 10 | 47 |
| Cochise | 77 | 4 | 38 | 35 | 4 | 57 |
| Coconino | 144 | 11 | 67 | 66 | 13 | 128 |
| Gila | 57 | 3 | 29 | 25 | 3 | 43 |
| Graham | 17 | 1 | 9 | 7 | 1 | 14 |
| Greenlee | 10 | 1 | 7 | 2 | 1 | 9 |
| La Paz | 22 | 2 | 10 | 10 | 2 | 19 |
| Maricopa | 3,396 | 89 | 1,406 | 1,901 | 95 | 2,174 |
| Mohave | 236 | 14 | 120 | 102 | 14 | 176 |
| Navajo | 90 | 11 | 39 | 40 | 12 | 66 |
| Pima | 829 | 36 | 374 | 419 | 37 | 574 |
| Pinal | 228 | 15 | 111 | 102 | 15 | 187 |
| Santa Cruz | 31 | 1 | 14 | 16 | 1 | 23 |
| Yavapai | 168 | 9 | 81 | 78 | 10 | 112 |
| Yuma | 142 | 5 | 70 | 67 | 5 | 95 |
| TOTAL | 5,489 | 210 | 2,397 | 2,882 | 223 | 3,724 |

Section 6: – Alcohol Related Crashes

Chart 6 - 1

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

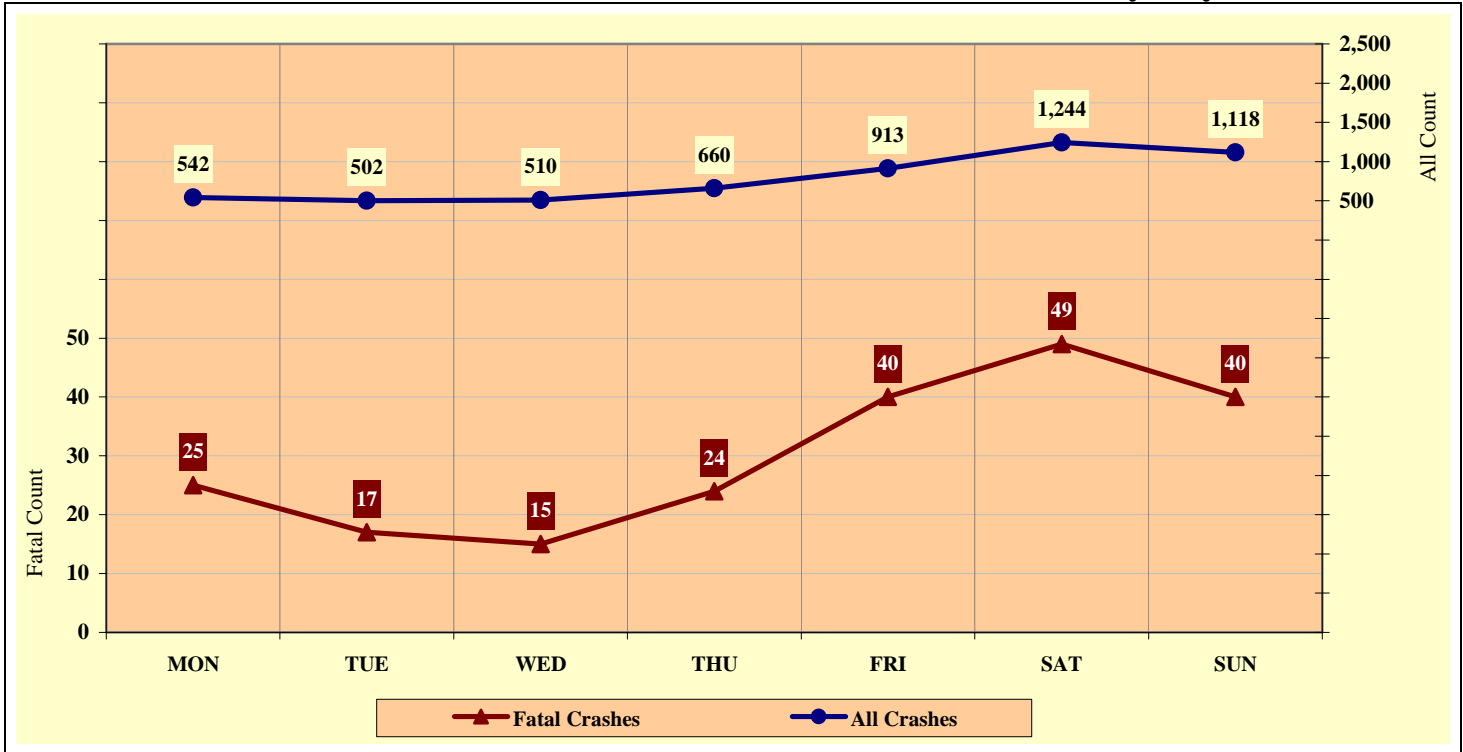


Chart 6 - 2

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

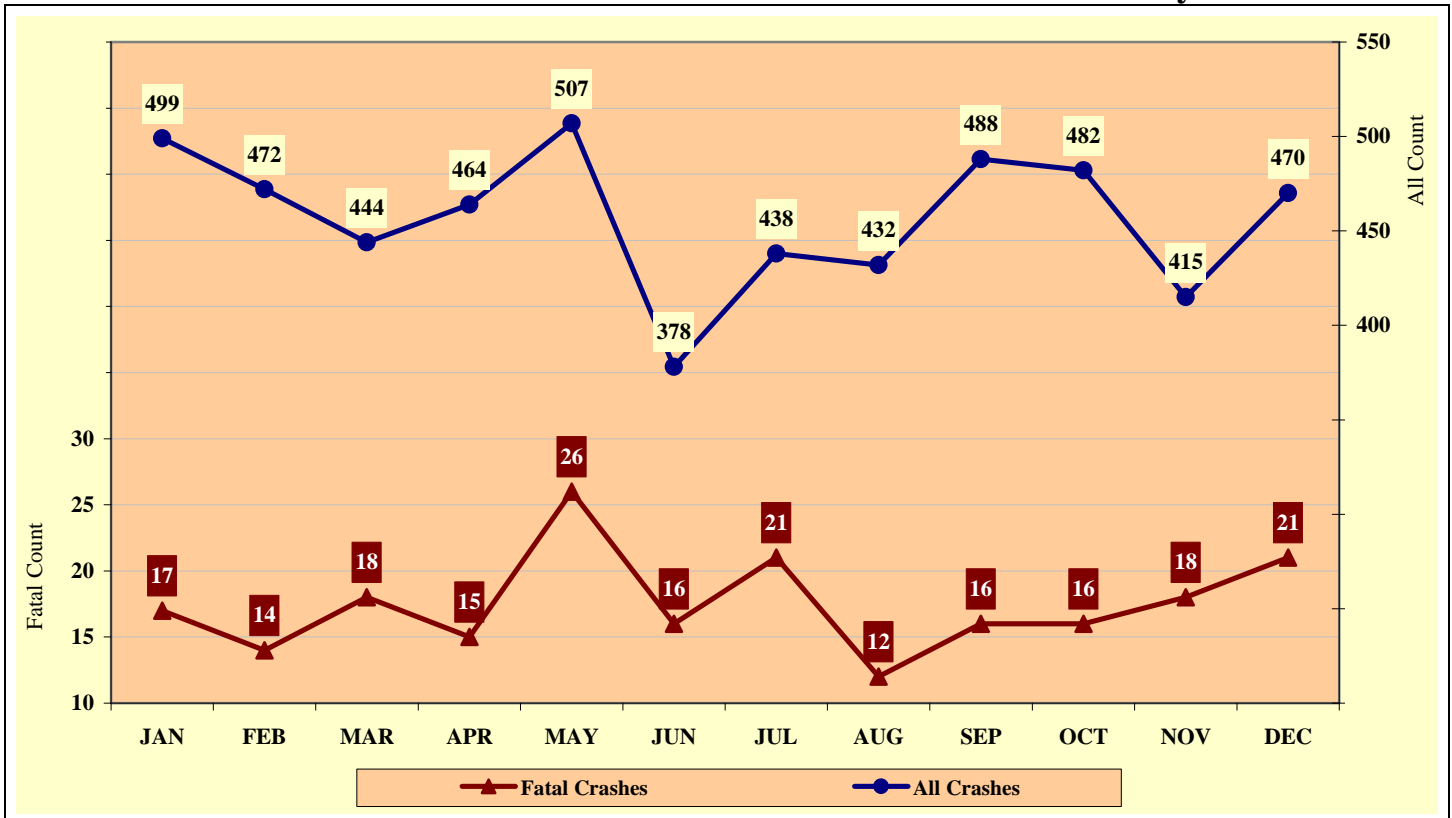


Chart 6 - 3

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

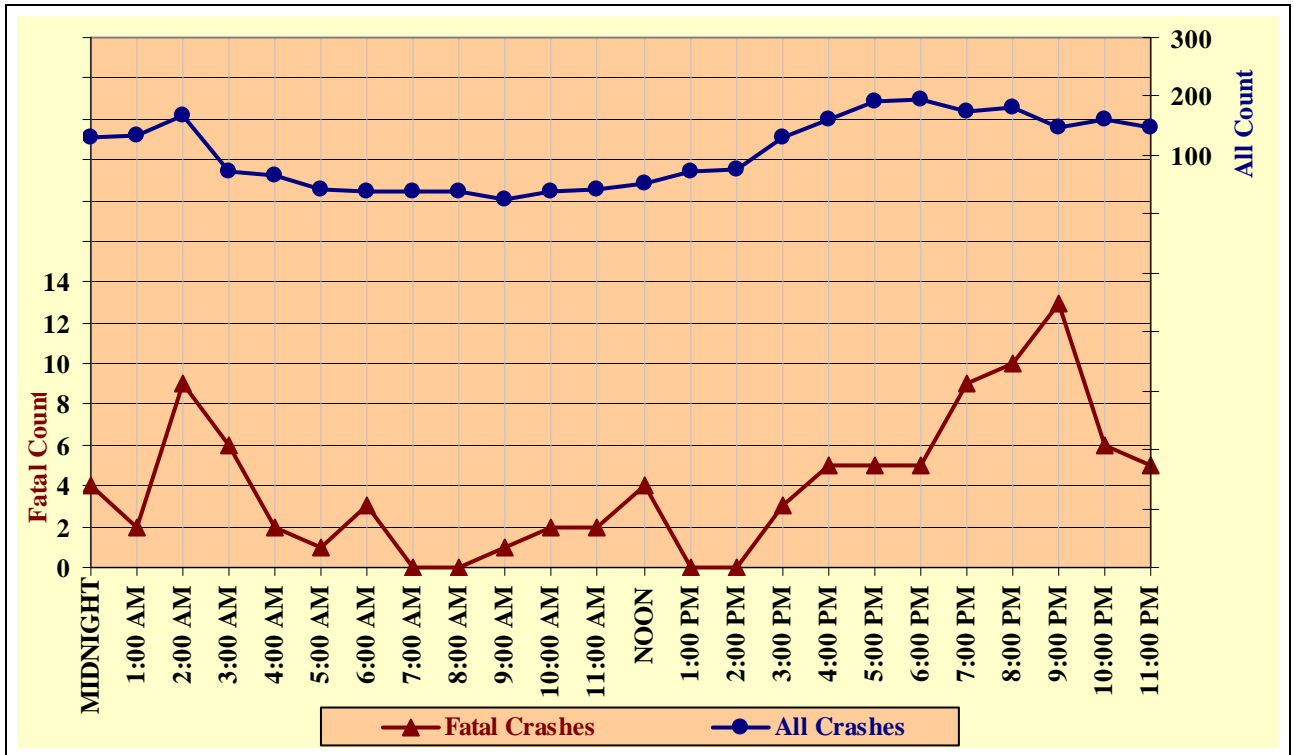
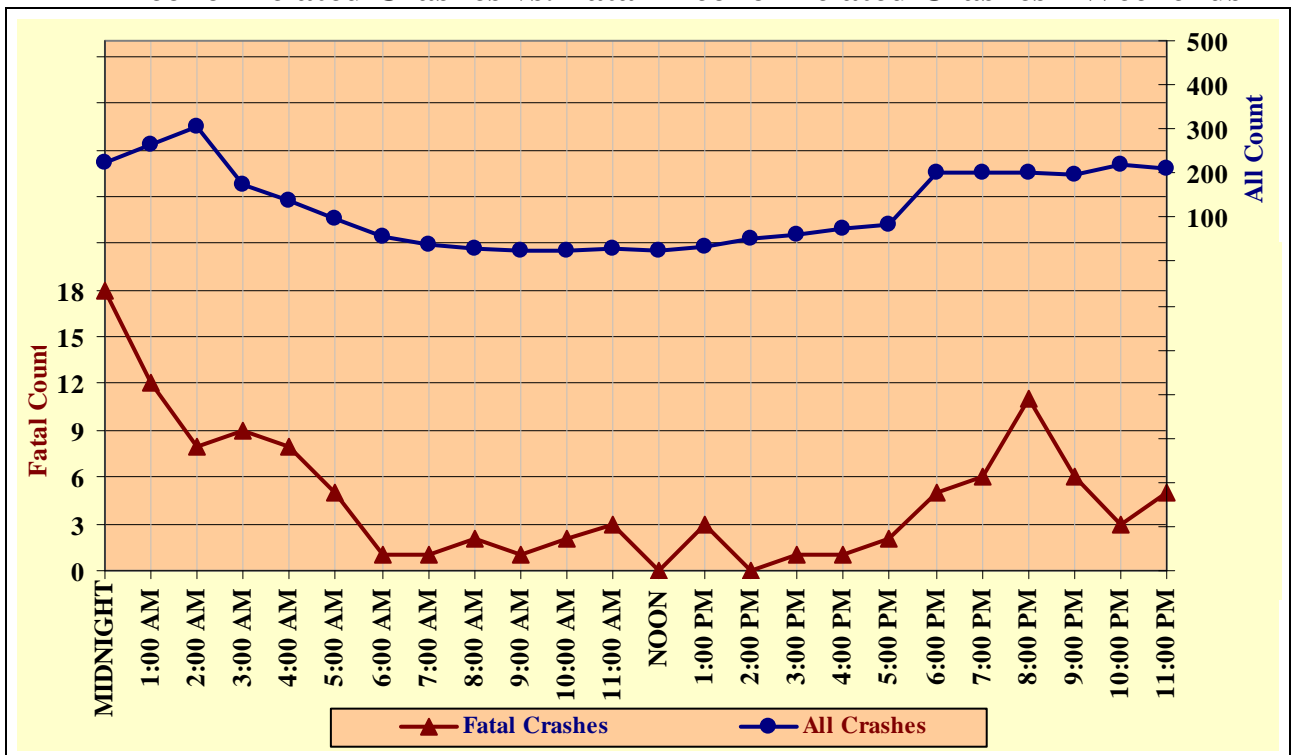


Chart 6 - 4

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 |
| MIDNIGHT | 352 | 22 | 34 | 3 | 20 | 0 | 21 | 0 | 38 | 2 | 51 | 2 | 92 | 8 | 96 | 7 | 130 | 4 | 222 | 18 |
| 1:00 AM | 400 | 14 | 34 | 1 | 23 | 1 | 26 | 0 | 39 | 1 | 47 | 0 | 107 | 5 | 124 | 6 | 135 | 2 | 265 | 12 |
| 2:00 AM | 474 | 17 | 33 | 0 | 24 | 1 | 30 | 0 | 48 | 2 | 65 | 6 | 130 | 6 | 144 | 2 | 167 | 9 | 307 | 8 |
| 3:00 AM | 244 | 15 | 23 | 1 | 7 | 0 | 16 | 0 | 22 | 2 | 26 | 4 | 66 | 4 | 84 | 4 | 71 | 6 | 173 | 9 |
| 4:00 AM | 205 | 10 | 9 | 1 | 10 | 1 | 10 | 0 | 18 | 0 | 28 | 1 | 57 | 3 | 73 | 4 | 66 | 2 | 139 | 8 |
| 5:00 AM | 141 | 6 | 11 | 0 | 11 | 0 | 11 | 0 | 4 | 0 | 17 | 1 | 44 | 4 | 43 | 1 | 43 | 1 | 98 | 5 |
| 6:00 AM | 95 | 4 | 7 | 0 | 8 | 3 | 7 | 0 | 7 | 0 | 10 | 0 | 31 | 1 | 25 | 0 | 39 | 3 | 56 | 1 |
| 7:00 AM | 76 | 1 | 10 | 0 | 4 | 0 | 6 | 0 | 5 | 0 | 13 | 0 | 25 | 1 | 13 | 0 | 38 | 0 | 38 | 1 |
| 8:00 AM | 70 | 2 | 10 | 0 | 7 | 0 | 4 | 0 | 10 | 0 | 8 | 0 | 17 | 1 | 14 | 1 | 39 | 0 | 31 | 2 |
| 9:00 AM | 48 | 2 | 2 | 0 | 3 | 0 | 2 | 0 | 8 | 1 | 9 | 0 | 14 | 0 | 10 | 1 | 24 | 1 | 24 | 1 |
| 10:00 AM | 65 | 4 | 4 | 0 | 8 | 2 | 7 | 0 | 10 | 0 | 11 | 0 | 12 | 1 | 13 | 1 | 40 | 2 | 25 | 2 |
| 11:00 AM | 70 | 5 | 5 | 0 | 9 | 0 | 5 | 0 | 12 | 1 | 12 | 1 | 13 | 1 | 14 | 2 | 43 | 2 | 27 | 3 |
| NOON | 78 | 4 | 7 | 0 | 12 | 0 | 11 | 0 | 10 | 2 | 12 | 2 | 10 | 0 | 16 | 0 | 52 | 4 | 26 | 0 |
| 1:00 PM | 104 | 3 | 16 | 0 | 13 | 0 | 14 | 0 | 15 | 0 | 14 | 0 | 23 | 3 | 9 | 0 | 72 | 0 | 32 | 3 |
| 2:00 PM | 128 | 0 | 18 | 0 | 17 | 0 | 11 | 0 | 10 | 0 | 21 | 0 | 30 | 0 | 21 | 0 | 77 | 0 | 51 | 0 |
| 3:00 PM | 190 | 4 | 31 | 1 | 30 | 1 | 23 | 1 | 24 | 0 | 22 | 0 | 31 | 0 | 29 | 1 | 130 | 3 | 60 | 1 |
| 4:00 PM | 236 | 6 | 25 | 1 | 30 | 0 | 32 | 1 | 29 | 0 | 46 | 3 | 42 | 1 | 32 | 0 | 162 | 5 | 74 | 1 |
| 5:00 PM | 275 | 7 | 33 | 0 | 29 | 1 | 40 | 2 | 46 | 0 | 42 | 2 | 46 | 0 | 39 | 2 | 190 | 5 | 85 | 2 |
| 6:00 PM | 396 | 10 | 52 | 1 | 44 | 3 | 43 | 1 | 56 | 0 | 75 | 1 | 66 | 2 | 60 | 2 | 195 | 5 | 201 | 5 |
| 7:00 PM | 373 | 15 | 51 | 4 | 42 | 1 | 37 | 1 | 43 | 3 | 77 | 4 | 66 | 0 | 57 | 2 | 173 | 9 | 200 | 6 |
| 8:00 PM | 383 | 21 | 46 | 4 | 42 | 1 | 51 | 2 | 42 | 3 | 69 | 8 | 73 | 2 | 60 | 1 | 181 | 10 | 202 | 11 |
| 9:00 PM | 345 | 19 | 33 | 5 | 30 | 1 | 35 | 4 | 50 | 3 | 63 | 1 | 82 | 2 | 52 | 3 | 148 | 13 | 197 | 6 |
| 10:00 PM | 382 | 9 | 25 | 2 | 39 | 0 | 38 | 2 | 59 | 2 | 86 | 2 | 84 | 1 | 51 | 0 | 161 | 6 | 221 | 3 |
| 11:00 PM | 359 | 10 | 23 | 1 | 40 | 1 | 30 | 1 | 55 | 2 | 89 | 2 | 83 | 3 | 39 | 0 | 148 | 5 | 211 | 5 |
| TOTAL | 5,489 | 210 | 542 | 25 | 502 | 17 | 510 | 15 | 660 | 24 | 913 | 40 | 1,244 | 49 | 1,118 | 40 | 2,524 | 97 | 2,965 | 113 |

Crashes during Weekends accounted for 54.02% of all Alcohol Related crashes and 53.81% of Alcohol Related Fatal Crashes.

Crashes during Weekdays accounted for 45.98% of all Alcohol Related crashes and 46.19% of Alcohol Related Fatal Crashes.

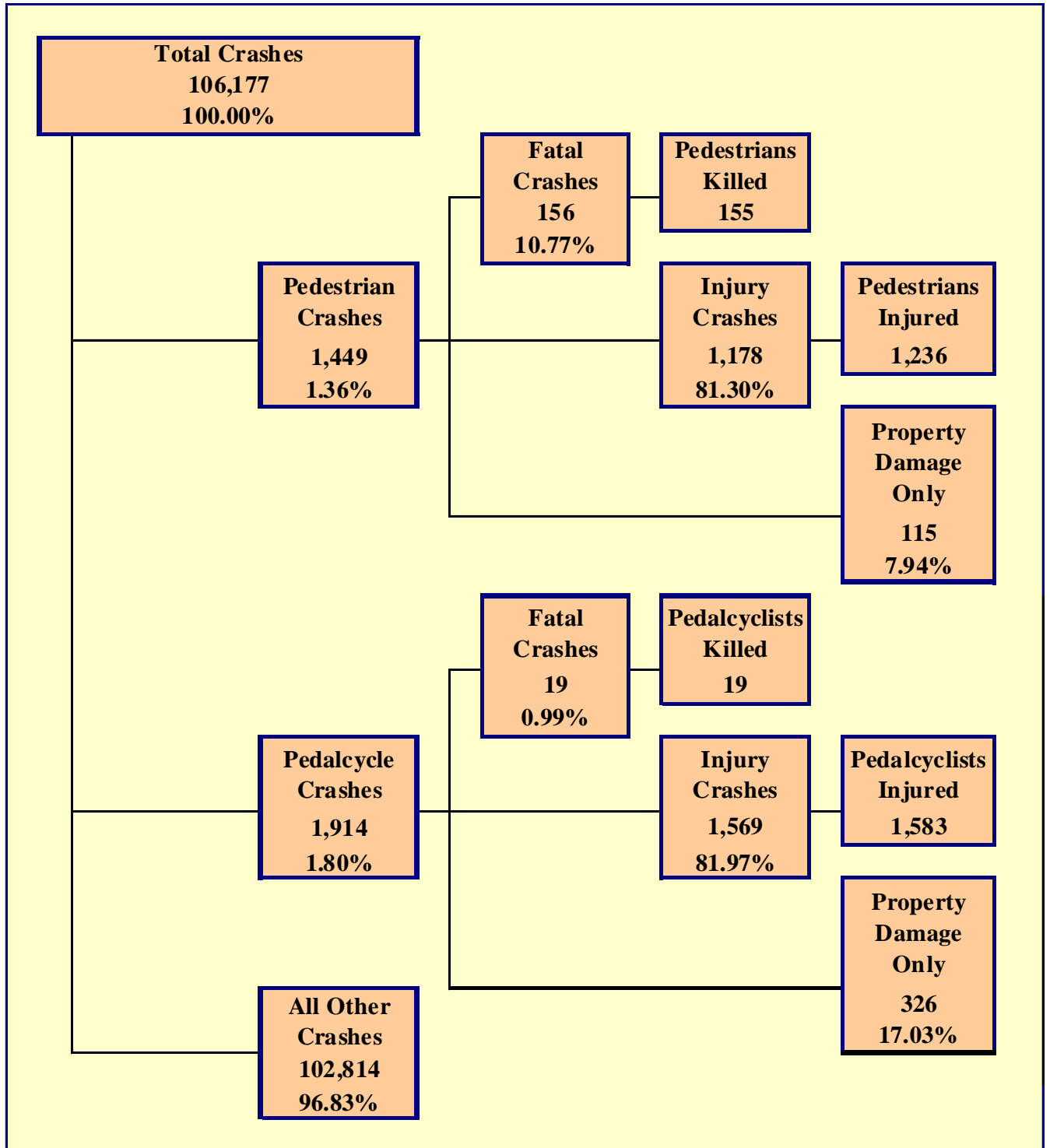


Table 7 - 1

Pedestrians Killed and Injured By Age and Gender

| Age Group | Pedestrians Killed | | | Pedestrians Injured | | | |
|--------------|--------------------|------------|-----------|---------------------|------------|------------|----------------|
| | Total | Male | Female | Total | Male | Female | Gender Unknown |
| 0-4 | 2 | 1 | 1 | 33 | 22 | 11 | 0 |
| 5-9 | 3 | 3 | 0 | 53 | 36 | 17 | 0 |
| 10-14 | 6 | 4 | 2 | 115 | 64 | 51 | 0 |
| 15-19 | 8 | 8 | 0 | 156 | 89 | 67 | 0 |
| 20-24 | 15 | 14 | 1 | 125 | 81 | 44 | 0 |
| 25-34 | 18 | 16 | 2 | 168 | 111 | 57 | 0 |
| 35-44 | 17 | 11 | 6 | 154 | 105 | 49 | 0 |
| 45-54 | 29 | 19 | 10 | 171 | 109 | 62 | 0 |
| 55-64 | 26 | 18 | 8 | 122 | 68 | 54 | 0 |
| 65-74 | 21 | 16 | 5 | 43 | 29 | 14 | 0 |
| 75 & Older | 10 | 8 | 2 | 44 | 25 | 19 | 0 |
| Unknown | 0 | 0 | 0 | 52 | 23 | 17 | 12 |
| TOTAL | 155 | 118 | 37 | 1,236 | 762 | 462 | 12 |

Table 7 - 2

Pedestrian Crashes by Geographic Location

| Category | Total | Urban | Percent of Total | Rural | Percent of Total |
|---------------------|-------|-------|------------------|-------|------------------|
| Total Crashes | 1,449 | 1,280 | 88.34% | 169 | 11.66% |
| Fatal Crashes | 156 | 102 | 65.38% | 54 | 34.62% |
| Injury Crashes | 1,178 | 1,079 | 91.60% | 99 | 8.40% |
| PDO Crashes | 115 | 99 | 86.09% | 16 | 13.91% |
| Pedestrians Killed | 155 | 101 | 65.16% | 54 | 34.84% |
| Pedestrians Injured | 1,236 | 1,135 | 91.83% | 101 | 8.17% |

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 |
|------|--------------------|------------------------|--------------------|---------------------------|---------------------|-------------------------|
| 2006 | 1,660 | 1.16% | 172 | 13.22% | 1,470 | 2.10% |
| 2007 | 1,737 | 1.23% | 157 | 14.66% | 1,542 | 2.33% |
| 2008 | 1,581 | 1.31% | 125 | 13.33% | 1,432 | 2.53% |
| 2009 | 1,527 | 1.43% | 122 | 15.14% | 1,309 | 2.58% |
| 2010 | 1,449 | 1.36% | 155 | 20.34% | 1,236 | 2.47% |

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 | 87 | 0 | 2 | 3 | 3 | 4 | 7 | 8 | 19 | 18 | 16 | 7 | 0 |
| Walking With Traffic | 10 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 0 |
| Walking Against Traffic | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 |
| Standing | 4 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| Lying | 7 | 0 | 0 | 0 | 0 | 1 | 3 | 2 | 1 | 0 | 0 | 0 | 0 |
| Getting on/off Vehicle | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Working on/pushing Veh | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 |
| Working on Road | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | 10 | 1 | 0 | 1 | 0 | 2 | 0 | 1 | 2 | 2 | 1 | 0 | 0 |
| Unknown | 29 | 1 | 1 | 0 | 4 | 6 | 4 | 4 | 3 | 2 | 2 | 2 | 0 |
| TOTAL | 155 | 2 | 3 | 6 | 8 | 15 | 18 | 17 | 29 | 26 | 21 | 10 | 0 |

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 | 687 | 15 | 42 | 66 | 90 | 62 | 89 | 90 | 96 | 71 | 26 | 23 | 17 |
| Walking With Traffic | 58 | 1 | 1 | 3 | 6 | 9 | 9 | 6 | 5 | 12 | 0 | 4 | 2 |
| Walking Against Traffic | 66 | 2 | 1 | 11 | 8 | 6 | 8 | 9 | 7 | 4 | 2 | 5 | 3 |
| Standing | 75 | 3 | 0 | 5 | 2 | 5 | 17 | 11 | 12 | 4 | 2 | 1 | 13 |
| Lying | 3 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Getting on/off Vehicle | 5 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| Working on/pushing Veh | 7 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 2 | 0 | 0 | 0 | 0 |
| Working on Road | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 |
| Other | 263 | 8 | 8 | 28 | 42 | 34 | 31 | 27 | 39 | 20 | 11 | 10 | 5 |
| Unknown | 68 | 2 | 1 | 2 | 6 | 5 | 11 | 9 | 7 | 10 | 2 | 1 | 12 |
| TOTAL | 1,236 | 33 | 53 | 115 | 156 | 125 | 168 | 154 | 171 | 122 | 43 | 44 | 52 |

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 | 1,040 | 68.15% | 36 | 21.69% | 916 | 73.99% | 88 | 72.13% |
| Had Been Drinking | 203 | 13.30% | 56 | 33.73% | 135 | 10.90% | 12 | 9.84% |
| Appeared to be Under the Influence of Drugs* | 9 | 0.59% | 5 | 3.01% | 3 | 0.24% | 1 | 0.82% |
| Medications | 1 | 0.07% | 0 | 0.00% | 1 | 0.08% | 0 | 0.00% |
| Illness | 3 | 0.20% | 1 | 0.60% | 2 | 0.16% | 0 | 0.00% |
| Physical Impairment | 9 | 0.59% | 0 | 0.00% | 6 | 0.48% | 3 | 2.46% |
| Fell Asleep or Fatigued | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% |
| Other | 23 | 1.51% | 2 | 1.20% | 20 | 1.62% | 1 | 0.82% |
| Unknown | 238 | 15.60% | 66 | 39.76% | 155 | 12.52% | 17 | 13.93% |
| TOTAL | 1,526 | 100.00% | 166 | 100.00% | 1,238 | 100.00% | 122 | 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 | 777 | 26 | 685 | 66 |
| Dawn | 29 | 5 | 21 | 3 |
| Dusk | 53 | 3 | 43 | 7 |
| Dark - Lighted | 366 | 45 | 296 | 25 |
| Dark - Not Lighted | 149 | 38 | 99 | 12 |
| Dark - Unknown Lighting | 75 | 39 | 34 | 2 |
| TOTAL | 1,449 | 156 | 1,178 | 115 |

Table 7 - 8

Weather Conditions in Pedestrian Crashes

| Type of Weather Conditions | Number of Crashes | | | |
|----------------------------|-------------------|------------|--------------|------------|
| | Total | Fatal | Injury | PDO |
| Clear | 1,205 | 103 | 1,008 | 94 |
| Cloudy | 135 | 15 | 105 | 15 |
| Sleet/Hail | 1 | 0 | 1 | 0 |
| Rain | 63 | 5 | 54 | 4 |
| Snow | 5 | 0 | 4 | 1 |
| Severe Crosswinds | 0 | 0 | 0 | 0 |
| Blowing Sand, Soil, Dirt | 1 | 1 | 0 | 0 |
| Fog, Smog, Smoke | 1 | 0 | 1 | 0 |
| Blowing Snow | 1 | 1 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 |
| Unknown | 37 | 31 | 5 | 1 |
| TOTAL | 1,449 | 156 | 1,178 | 115 |

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 | 1 | 0 | 1 | 0 |
| 5-9 | 0 | 0 | 0 | 47 | 29 | 18 | 0 |
| 10-14 | 2 | 0 | 2 | 212 | 171 | 41 | 0 |
| 15-19 | 0 | 0 | 0 | 234 | 165 | 69 | 0 |
| 20-24 | 0 | 0 | 0 | 205 | 148 | 57 | 0 |
| 25-34 | 2 | 2 | 0 | 221 | 154 | 67 | 0 |
| 35-44 | 2 | 2 | 0 | 201 | 152 | 49 | 0 |
| 45-54 | 6 | 5 | 1 | 227 | 182 | 45 | 0 |
| 55-64 | 4 | 4 | 0 | 138 | 118 | 20 | 0 |
| 65-74 | 1 | 1 | 0 | 47 | 38 | 9 | 0 |
| 75 & Older | 2 | 2 | 0 | 19 | 16 | 3 | 0 |
| Unknown | 0 | 0 | 0 | 31 | 17 | 4 | 10 |
| TOTAL | 19 | 16 | 3 | 1,583 | 1,190 | 383 | 10 |

Table 7 - 10

Pedalcycle Crashes by Geographic Location

| Category | Total | Urban | Percent of Total | Rural | Percent of Total |
|------------------------------|-------|-------|------------------|-------|------------------|
| Total Crashes | 1,914 | 1,774 | 92.69% | 140 | 7.31% |
| Fatal Crashes | 19 | 17 | 89.47% | 2 | 10.53% |
| Injury Crashes | 1,569 | 1,457 | 92.86% | 112 | 7.14% |
| PDO Crashes | 326 | 300 | 92.02% | 26 | 7.98% |
| Pedalcyclists Killed | 19 | 17 | 89.47% | 2 | 10.53% |
| Pedalcyclists Injured | 1,583 | 1,471 | 92.92% | 112 | 7.08% |

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 |
|-------------|--------------------|------------------------|----------------------|---------------------------|-----------------------|-------------------------|
| 2006 | 1,886 | 1.31% | 29 | 2.23% | 1,559 | 2.23% |
| 2007 | 1,922 | 1.36% | 21 | 1.96% | 1,606 | 2.43% |
| 2008 | 2,006 | 1.66% | 19 | 2.03% | 1,697 | 3.00% |
| 2009 | 2,000 | 1.87% | 25 | 3.10% | 1,648 | 3.25% |
| 2010 | 1,914 | 1.80% | 19 | 2.49% | 1,583 | 3.16% |

Table 7 - 12

Lighting Conditions in Pedalcyclist Crashes

| Type of Lighting Conditions | Number of Crashes | | | |
|--------------------------------|-------------------|-----------|--------------|------------|
| | Total | Fatal | Injury | PDO |
| Daylight | 1,487 | 9 | 1,234 | 244 |
| Dawn | 42 | 1 | 33 | 8 |
| Dusk | 61 | 1 | 49 | 11 |
| Dark - Lighted | 264 | 5 | 205 | 54 |
| Dark - Not Lighted | 43 | 2 | 33 | 8 |
| Dark - Unknown Lighting | 17 | 1 | 15 | 1 |
| TOTAL | 1,914 | 19 | 1,569 | 326 |

Table 7 - 13

Weather Conditions in Pedalcyclist Crashes

| Type of Weather Conditions | Number of Crashes | | | |
|---------------------------------|-------------------|-----------|--------------|------------|
| | Total | Fatal | Injury | PDO |
| Clear | 1,692 | 16 | 1,392 | 284 |
| Cloudy | 162 | 1 | 128 | 33 |
| Sleet/Hail | 0 | 0 | 0 | 0 |
| Rain | 34 | 1 | 29 | 4 |
| Snow | 1 | 0 | 0 | 1 |
| 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 | 0 | 0 | 0 | 0 |
| Unknown | 24 | 1 | 19 | 4 |
| TOTAL | 1,914 | 19 | 1,569 | 326 |

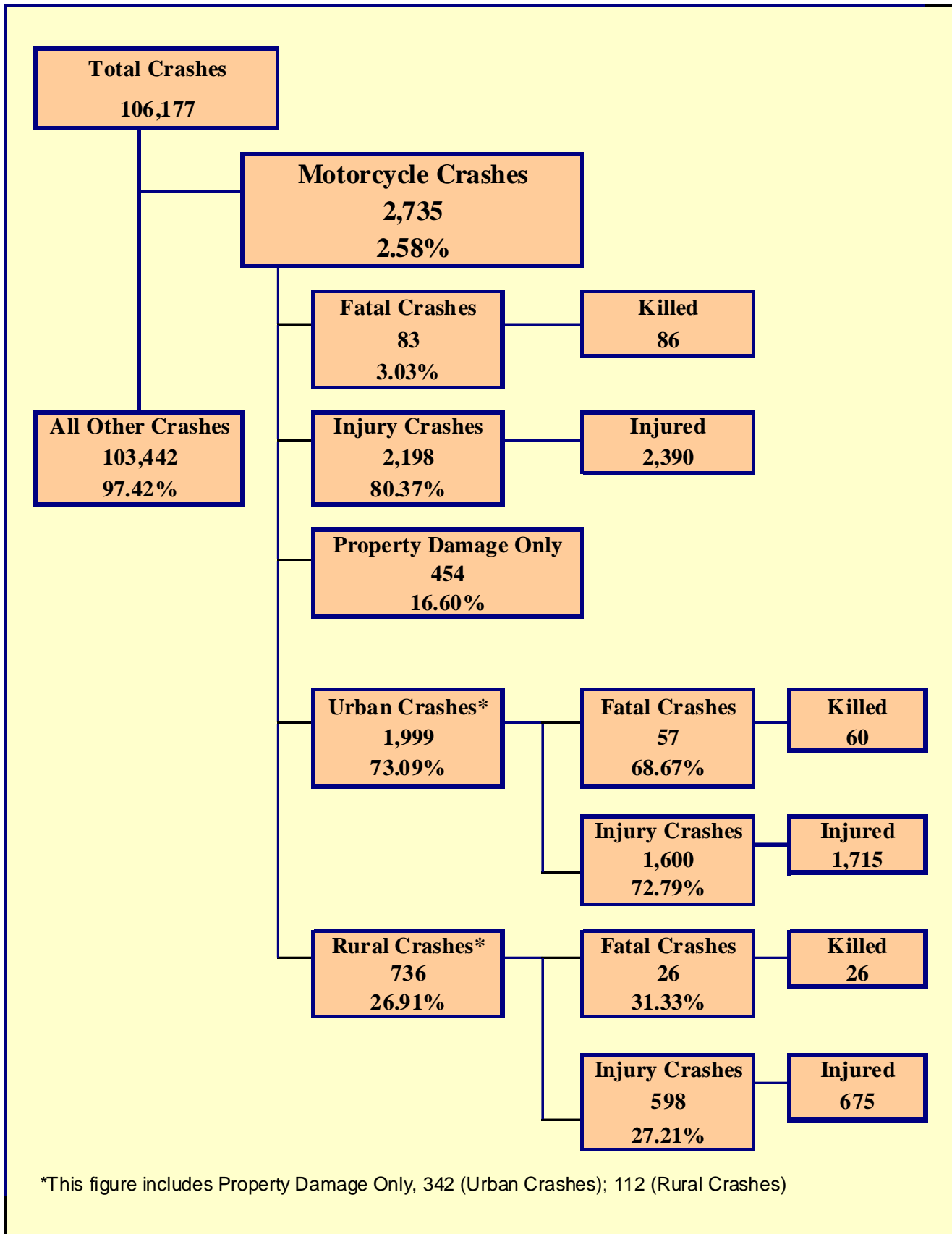


Chart 8 - 1

MC Fatalities by Year

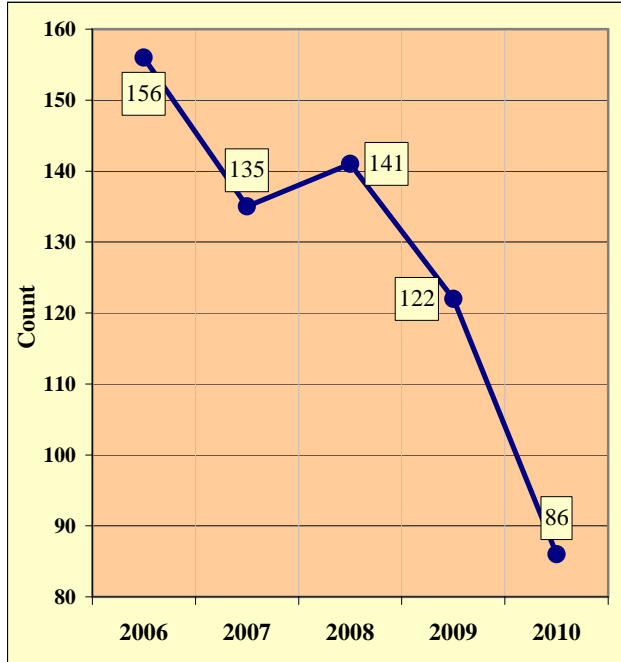
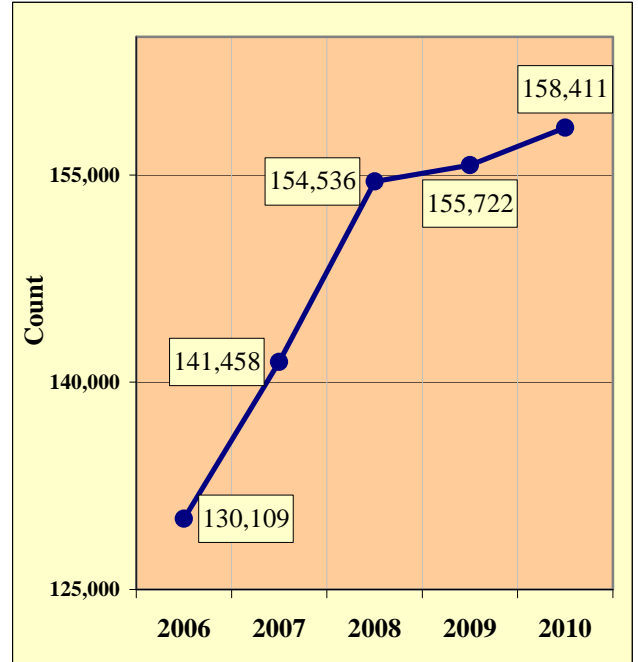


Chart 8 - 2

MC Registrations in Arizona



Total Point-in-Time of Registered Motorcycles at the end of Calendar year 2010.

(Source: MVD - MV988 MV630419 Currently Registered Vehicles by County Listing (motorcycle sub category), reports dated 12/31/10.)

Chart 8 - 3

Fatality Rate per Registered MC

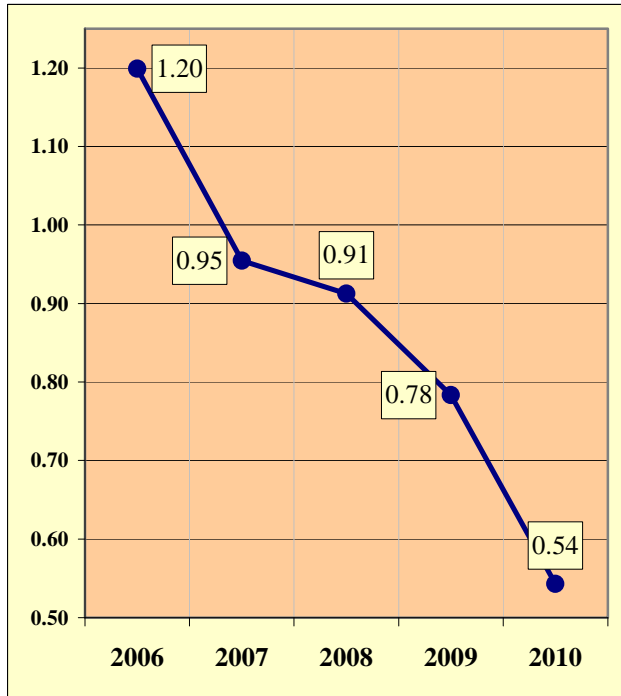
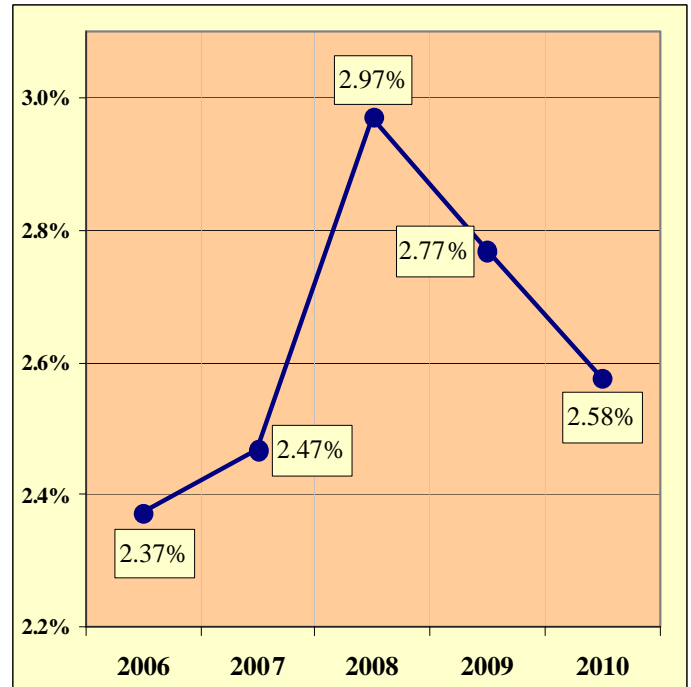


Chart 8 - 4

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 | 1,390 | 42 | 1,039 | 309 |
| Overtaking | 326 | 11 | 291 | 24 |
| Collision with Pedestrian | 13 | 2 | 11 | 0 |
| Collision with Pedalcyclist | 7 | 0 | 7 | 0 |
| Collision with Animal | 32 | 0 | 26 | 6 |
| Collision with Fixed Object | 351 | 23 | 296 | 32 |
| Collision with Non-fixed Object* | 65 | 1 | 42 | 22 |
| Vehicle Fire or Explosion | 4 | 0 | 2 | 2 |
| Other Non-collision** | 422 | 3 | 385 | 34 |
| Unknown | 125 | 1 | 99 | 25 |
| TOTAL | 2,735 | 83 | 2,198 | 454 |
| *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 | 1,945 | 46 | 1,573 | 326 |
| Dawn | 38 | 1 | 26 | 11 |
| Dusk | 90 | 5 | 67 | 18 |
| Dark - Lighted | 488 | 10 | 396 | 82 |
| Dark - Not Lighted | 143 | 11 | 117 | 15 |
| Dark - Unknown Lighting | 31 | 10 | 19 | 2 |
| TOTAL | 2,735 | 83 | 2,198 | 454 |

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 | 2,654 | 86 | 2,127 | 441 |
| Wet | 73 | 1 | 59 | 13 |
| Snow | 1 | 0 | 1 | 0 |
| Slush | 2 | 0 | 2 | 0 |
| Ice/Frost | 2 | 0 | 1 | 1 |
| Water (standing or moving) | 1 | 0 | 1 | 0 |
| Sand | 7 | 0 | 7 | 0 |
| Mud, Dirt, Gravel | 31 | 0 | 27 | 4 |
| Oil | 6 | 1 | 5 | 0 |
| Other | 8 | 0 | 8 | 0 |
| Unknown | 25 | 9 | 15 | 1 |
| TOTAL | 2,810 | 97 | 2,253 | 460 |

Table 8 - 4

MC Crashes by Geographic Location

| Category | Total | Urban | Percent of Total | Rural | Percent of Total |
|------------------------|-------|-------|------------------|-------|------------------|
| Total Crashes | 2,735 | 1,999 | 73.09% | 736 | 26.91% |
| Fatal Crashes | 83 | 57 | 68.67% | 26 | 31.33% |
| Injury Crashes | 2,198 | 1,600 | 72.79% | 598 | 27.21% |
| PDO Crashes | 454 | 342 | 75.33% | 112 | 24.67% |
| Persons Killed | 86 | 60 | 69.77% | 26 | 30.23% |
| Persons Injured | 2,390 | 1,715 | 71.76% | 675 | 28.24% |

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 | 15 | 0.53% | 0 | 0.00% | 14 | 0.62% | 1 | 0.22% |
| 16 | 10 | 0.36% | 0 | 0.00% | 10 | 0.44% | 0 | 0.00% |
| 17 | 15 | 0.53% | 0 | 0.00% | 13 | 0.58% | 2 | 0.43% |
| 18 | 44 | 1.57% | 0 | 0.00% | 37 | 1.64% | 7 | 1.52% |
| 19 | 60 | 2.14% | 2 | 2.06% | 54 | 2.40% | 4 | 0.87% |
| 20 | 70 | 2.49% | 0 | 0.00% | 58 | 2.57% | 12 | 2.61% |
| 21 | 71 | 2.53% | 0 | 0.00% | 55 | 2.44% | 16 | 3.48% |
| 22 | 81 | 2.88% | 3 | 3.09% | 67 | 2.97% | 11 | 2.39% |
| 23 | 74 | 2.63% | 1 | 1.03% | 61 | 2.71% | 12 | 2.61% |
| 24 | 79 | 2.81% | 3 | 3.09% | 63 | 2.80% | 13 | 2.83% |
| 25-34 | 555 | 19.75% | 15 | 15.46% | 446 | 19.80% | 94 | 20.43% |
| 35-44 | 531 | 18.90% | 20 | 20.62% | 427 | 18.95% | 84 | 18.26% |
| 45-54 | 595 | 21.17% | 24 | 24.74% | 477 | 21.17% | 94 | 20.43% |
| 55-64 | 392 | 13.95% | 20 | 20.62% | 315 | 13.98% | 57 | 12.39% |
| 65-74 | 149 | 5.30% | 7 | 7.22% | 123 | 5.46% | 19 | 4.13% |
| 75 & Older | 14 | 0.50% | 2 | 2.06% | 8 | 0.36% | 4 | 0.87% |
| Unknown | 55 | 1.96% | 0 | 0.00% | 25 | 1.11% | 30 | 6.52% |
| TOTAL | 2,810 | 100.00% | 97 | 100.00% | 2,253 | 100.00% | 460 | 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 | 2,412 | 85.84% | 43 | 44.33% | 1,948 | 86.46% | 421 | 91.52% |
| Had Been Drinking | 184 | 6.55% | 27 | 27.84% | 149 | 6.61% | 8 | 1.74% |
| Appeared to be Under the Influence of Drugs* | 11 | 0.39% | 2 | 2.06% | 9 | 0.40% | 0 | 0.00% |
| Medications | 3 | 0.11% | 0 | 0.00% | 3 | 0.13% | 0 | 0.00% |
| Illness | 14 | 0.50% | 1 | 1.03% | 12 | 0.53% | 1 | 0.22% |
| Physical Impairment | 3 | 0.11% | 0 | 0.00% | 2 | 0.09% | 1 | 0.22% |
| Fell Asleep or Fatigued | 5 | 0.18% | 0 | 0.00% | 5 | 0.22% | 0 | 0.00% |
| Other | 10 | 0.36% | 1 | 1.03% | 5 | 0.22% | 4 | 0.87% |
| Unknown | 168 | 5.98% | 23 | 23.71% | 120 | 5.33% | 25 | 5.43% |
| TOTAL | 2,810 | 100.00% | 97 | 100.00% | 2,253 | 100.00% | 460 | 100.00% |

* Illegal drugs or narcotics

Section 8: – Motorcycle (MC) Crashes

Table 8 - 7

MC Operators Involved in Fatal Crashes by License Status

| License Status | 2008 | | 2009 | | 2010 | |
|--|---------------------|------------------|---------------------|------------------|---------------------|------------------|
| | Number of Operators | Percent of Total | Number of Operators | Percent of Total | Number of Operators | Percent of Total |
| No license | 3 | 2.11% | 5 | 4.03% | 3 | 3.09% |
| Invalid | 21 | 14.79% | 25 | 20.16% | 14 | 14.43% |
| Valid | 117 | 82.39% | 91 | 73.39% | 79 | 81.44% |
| Unknown | 1 | 0.70% | 3 | 2.42% | 1 | 1.03% |
| TOTALS | 142 | 100.00% | 124 | 100.00% | 97 | 100.00% |
| Note: Includes only motorcycle operators involved in fatal crashes. | | | | | | |
| Source: FARS Data Queries | | | | | | |

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 | 212 | 16.95% | 104 | 13.92% | 205 | 25.25% | 521 | 18.54% |
| Unknown Injury | 9 | 0.72% | 3 | 0.40% | 22 | 2.71% | 34 | 1.21% |
| Possible Injury | 210 | 16.79% | 89 | 11.91% | 154 | 18.97% | 453 | 16.12% |
| Non-Incapacitating Injury | 522 | 41.73% | 301 | 40.29% | 303 | 37.32% | 1,126 | 40.07% |
| Incapacitating Injury | 266 | 21.26% | 211 | 28.25% | 117 | 14.41% | 594 | 21.14% |
| Fatal Injury | 32 | 2.56% | 39 | 5.22% | 11 | 1.35% | 82 | 2.92% |
| TOTALS | 1,251 | 100.00% | 747 | 100.00% | 812 | 100.00% | 2,810 | 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 | 16.87% | 7 | 6.73% | 25 | 29.07% | 46 | 16.85% |
| Unknown Injury | 1 | 1.20% | 1 | 0.96% | 4 | 4.65% | 6 | 2.20% |
| Possible Injury | 11 | 13.25% | 14 | 13.46% | 12 | 13.95% | 37 | 13.55% |
| Non-Incapacitating Injury | 31 | 37.35% | 48 | 46.15% | 34 | 39.53% | 113 | 41.39% |
| Incapacitating Injury | 24 | 28.92% | 32 | 30.77% | 11 | 12.79% | 67 | 24.54% |
| Fatal Injury | 2 | 2.41% | 2 | 1.92% | 0 | 0.00% | 4 | 1.47% |
| TOTALS | 83 | 100.00% | 104 | 100.00% | 86 | 100.00% | 273 | 100.00% |

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 | 3 | 1 | 2 | 0 |
| 5-9 | 0 | 0 | 0 | 5 | 5 | 0 | 0 |
| 10-14 | 0 | 0 | 0 | 13 | 10 | 3 | 0 |
| 15-19 | 2 | 2 | 0 | 136 | 114 | 22 | 0 |
| 20-24 | 8 | 6 | 2 | 311 | 288 | 23 | 0 |
| 25-34 | 14 | 13 | 1 | 469 | 412 | 57 | 0 |
| 35-44 | 16 | 15 | 1 | 449 | 369 | 80 | 0 |
| 45-54 | 18 | 15 | 3 | 521 | 398 | 123 | 0 |
| 55-64 | 20 | 18 | 2 | 325 | 283 | 42 | 0 |
| 65-74 | 6 | 6 | 0 | 126 | 115 | 11 | 0 |
| 75 & Older | 2 | 2 | 0 | 9 | 6 | 3 | 0 |
| Unknown | 0 | 0 | 0 | 23 | 17 | 4 | 2 |
| TOTAL | 86 | 77 | 9 | 2,390 | 2,018 | 370 | 2 |

Table 8 - 11

MC Operator Errors

| 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 | 1,303 | 46.37% | 32 | 32.99% | 1,019 | 45.23% | 252 | 54.78% |
| Speed too Fast for Conditions | 667 | 23.74% | 24 | 24.74% | 566 | 25.12% | 77 | 16.74% |
| Exceeded Lawful Speed | 45 | 1.60% | 3 | 3.09% | 39 | 1.73% | 3 | 0.65% |
| Failed to Yield Right-Of-Way | 56 | 1.99% | 1 | 1.03% | 38 | 1.69% | 17 | 3.70% |
| Followed Too Closely | 68 | 2.42% | 2 | 2.06% | 43 | 1.91% | 23 | 5.00% |
| Ran Stop Sign | 11 | 0.39% | 2 | 2.06% | 6 | 0.27% | 3 | 0.65% |
| Disregarded Traffic Signal | 25 | 0.89% | 2 | 2.06% | 22 | 0.98% | 1 | 0.22% |
| Made Improper Turn | 22 | 0.78% | 0 | 0.00% | 19 | 0.84% | 3 | 0.65% |
| Drove in Opposing Lane | 29 | 1.03% | 3 | 3.09% | 22 | 0.98% | 4 | 0.87% |
| Knowingly Operated with Faulty or Missing Equipment | 8 | 0.28% | 0 | 0.00% | 8 | 0.36% | 0 | 0.00% |
| Required Motorcycle Safety Equipment Not Used | 9 | 0.32% | 0 | 0.00% | 8 | 0.36% | 1 | 0.22% |
| Passed in No-Passing Zone | 5 | 0.18% | 0 | 0.00% | 4 | 0.18% | 1 | 0.22% |
| Unsafe Lane Change | 29 | 1.03% | 2 | 2.06% | 19 | 0.84% | 8 | 1.74% |
| Failed to Keep in Proper Lane | 64 | 2.28% | 6 | 6.19% | 55 | 2.44% | 3 | 0.65% |
| Disregarded Pavement Markings | 4 | 0.14% | 0 | 0.00% | 2 | 0.09% | 2 | 0.43% |
| Other Unsafe Passing | 27 | 0.96% | 1 | 1.03% | 23 | 1.02% | 3 | 0.65% |
| Inattention/Distraction | 157 | 5.59% | 3 | 3.09% | 128 | 5.68% | 26 | 5.65% |
| Electronic Communications Device | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% |
| Other | 84 | 2.99% | 2 | 2.06% | 72 | 3.20% | 10 | 2.17% |
| Unknown | 197 | 7.01% | 14 | 14.43% | 160 | 7.10% | 23 | 5.00% |
| TOTAL | 2,810 | 100.00% | 97 | 100.00% | 2,253 | 100.00% | 460 | 100.00% |

Section 8: – Motorcycle (MC) Crashes

Chart 8 - 5

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

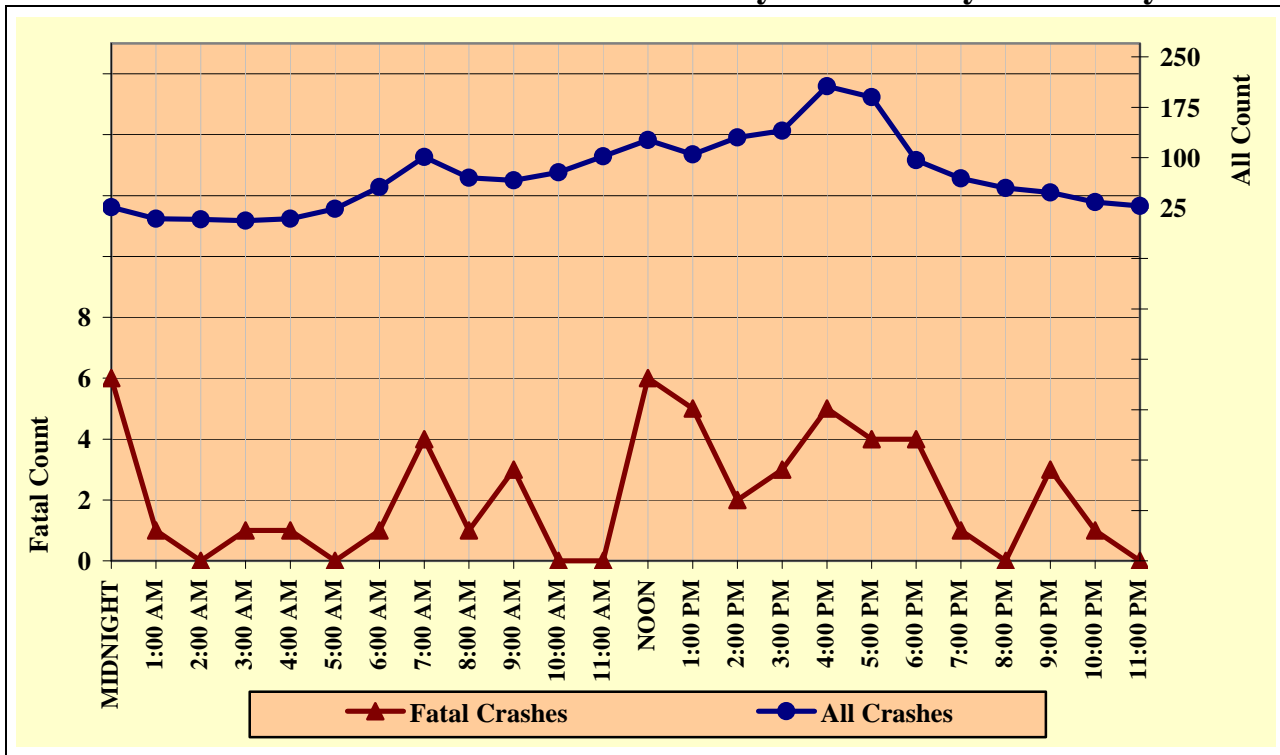


Chart 8 - 6

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

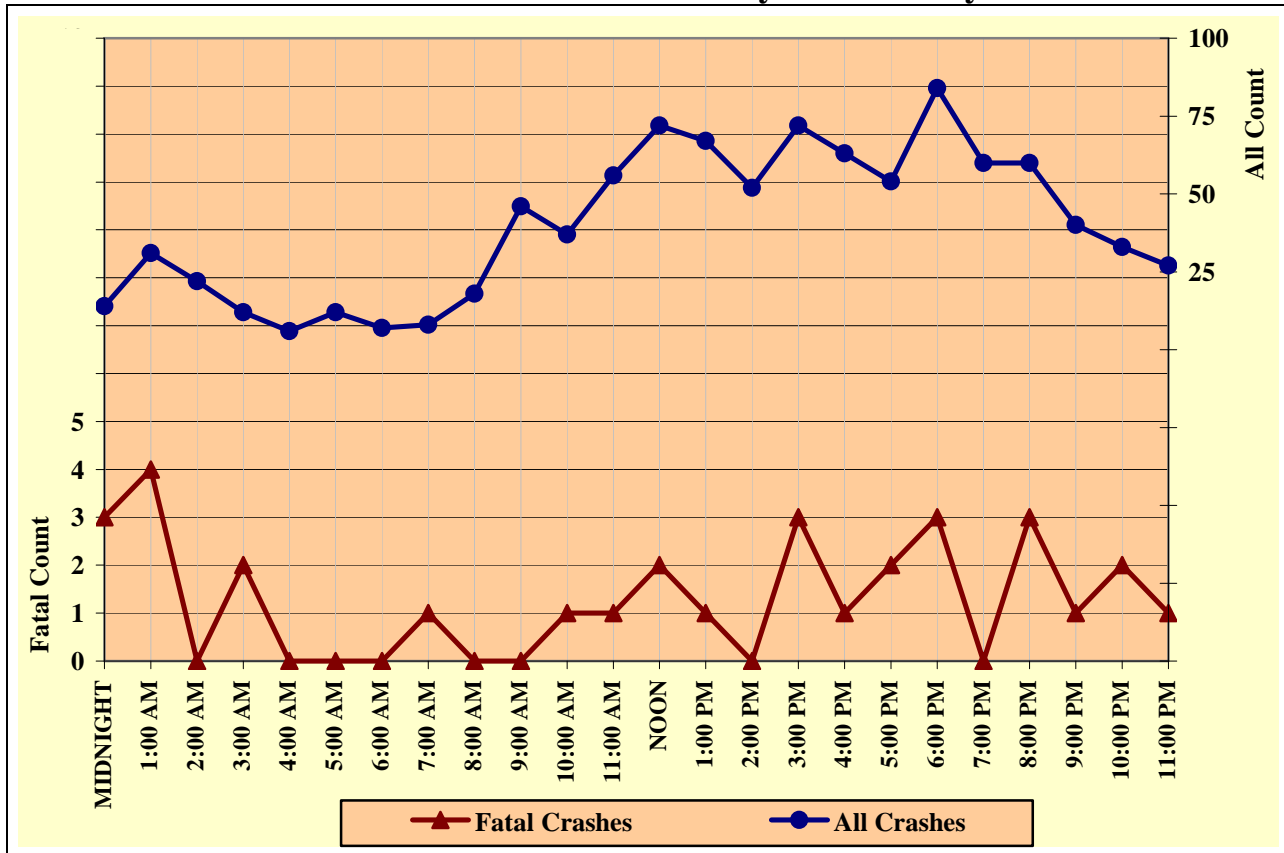


Chart 8 - 7

All MC Crashes vs. Fatal MC Crashes by Day of Week

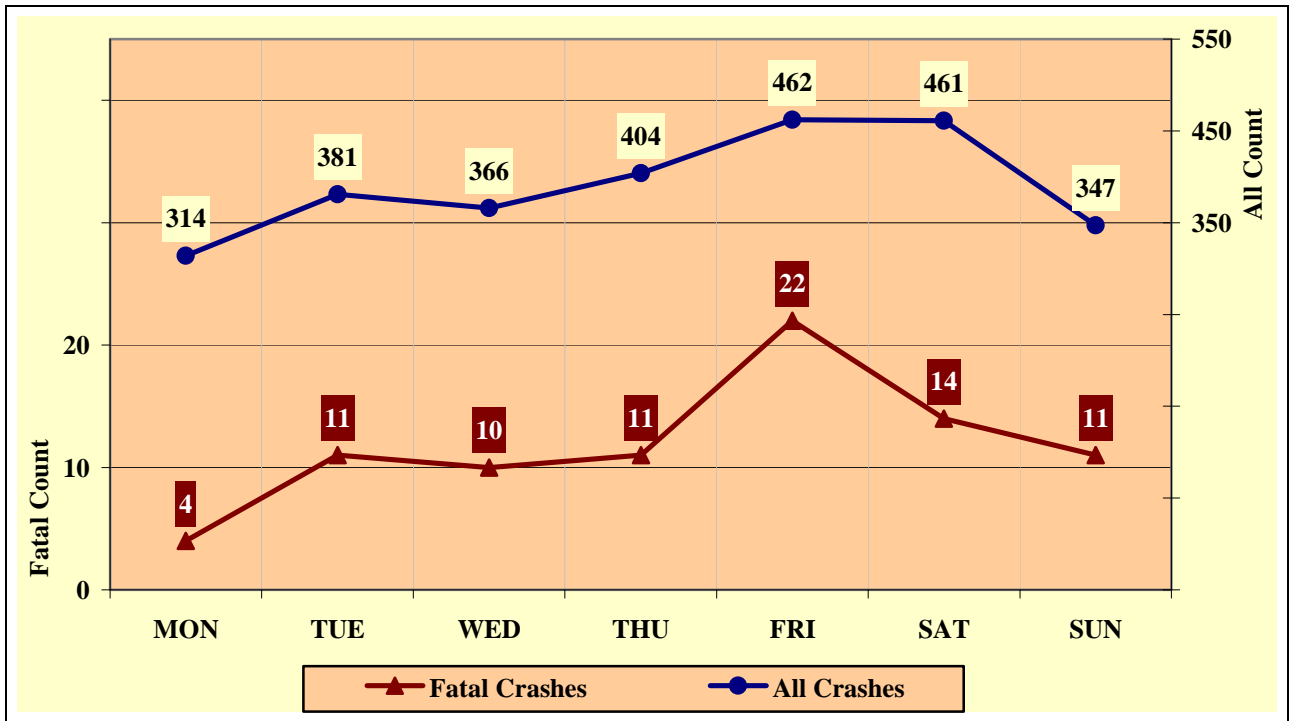
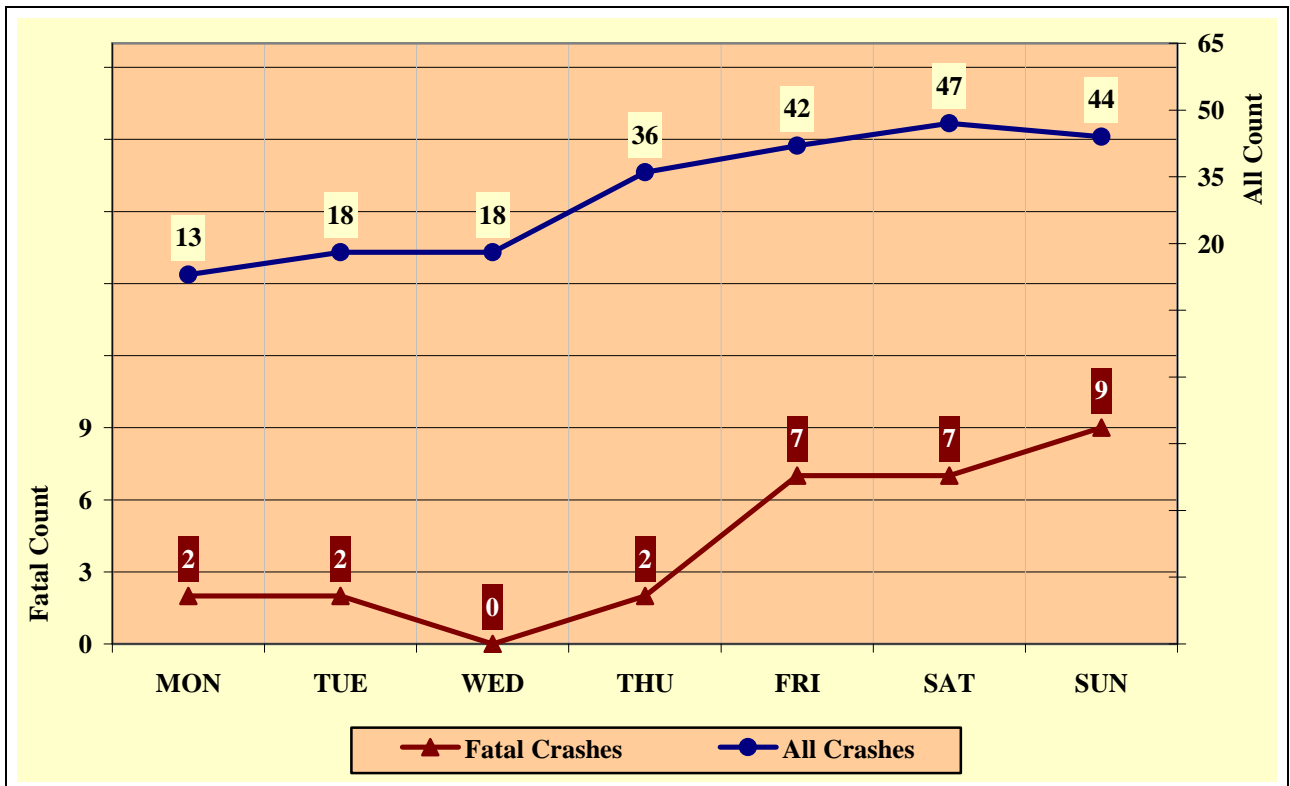


Chart 8 - 8

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 |
| MIDNIGHT | 40 | 9 | 2 | 0 | 6 | 1 | 5 | 1 | 6 | 1 | 9 | 3 | 7 | 3 | 5 | 0 | 26 | 6 | 14 | 3 |
| 1:00 AM | 40 | 5 | 2 | 0 | 2 | 1 | 3 | 0 | 2 | 0 | 2 | 0 | 13 | 1 | 16 | 3 | 9 | 1 | 31 | 4 |
| 2:00 AM | 30 | 0 | 2 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 4 | 0 | 7 | 0 | 13 | 0 | 8 | 0 | 22 | 0 |
| 3:00 AM | 18 | 3 | 1 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 1 | 3 | 1 | 8 | 1 | 6 | 1 | 12 | 2 |
| 4:00 AM | 15 | 1 | 0 | 0 | 4 | 0 | 2 | 1 | 3 | 0 | 0 | 0 | 5 | 0 | 1 | 0 | 9 | 1 | 6 | 0 |
| 5:00 AM | 36 | 0 | 8 | 0 | 7 | 0 | 7 | 0 | 4 | 0 | 6 | 0 | 3 | 0 | 1 | 0 | 24 | 0 | 12 | 0 |
| 6:00 AM | 63 | 1 | 10 | 0 | 16 | 1 | 13 | 0 | 10 | 0 | 7 | 0 | 4 | 0 | 3 | 0 | 56 | 1 | 7 | 0 |
| 7:00 AM | 109 | 5 | 13 | 2 | 26 | 0 | 18 | 0 | 20 | 1 | 24 | 1 | 6 | 1 | 2 | 0 | 101 | 4 | 8 | 1 |
| 8:00 AM | 88 | 1 | 10 | 0 | 12 | 0 | 16 | 0 | 14 | 0 | 18 | 1 | 9 | 0 | 9 | 0 | 70 | 1 | 18 | 0 |
| 9:00 AM | 112 | 3 | 12 | 0 | 16 | 1 | 11 | 1 | 13 | 1 | 14 | 0 | 19 | 0 | 27 | 0 | 66 | 3 | 46 | 0 |
| 10:00 AM | 115 | 1 | 18 | 0 | 12 | 0 | 11 | 0 | 15 | 0 | 22 | 0 | 22 | 1 | 15 | 0 | 78 | 0 | 37 | 1 |
| 11:00 AM | 158 | 1 | 20 | 0 | 15 | 0 | 23 | 0 | 28 | 0 | 16 | 0 | 34 | 0 | 22 | 1 | 102 | 0 | 56 | 1 |
| NOON | 198 | 8 | 18 | 0 | 24 | 0 | 21 | 2 | 31 | 3 | 32 | 1 | 43 | 2 | 29 | 0 | 126 | 6 | 72 | 2 |
| 1:00 PM | 172 | 6 | 19 | 0 | 23 | 1 | 16 | 0 | 23 | 1 | 24 | 3 | 37 | 1 | 30 | 0 | 105 | 5 | 67 | 1 |
| 2:00 PM | 182 | 2 | 25 | 0 | 20 | 0 | 30 | 2 | 22 | 0 | 33 | 0 | 34 | 0 | 18 | 0 | 130 | 2 | 52 | 0 |
| 3:00 PM | 212 | 6 | 25 | 0 | 30 | 1 | 23 | 0 | 30 | 1 | 32 | 1 | 41 | 1 | 31 | 2 | 140 | 3 | 72 | 3 |
| 4:00 PM | 269 | 6 | 36 | 0 | 39 | 1 | 40 | 0 | 41 | 0 | 50 | 4 | 38 | 1 | 25 | 0 | 206 | 5 | 63 | 1 |
| 5:00 PM | 244 | 6 | 27 | 0 | 44 | 2 | 37 | 0 | 44 | 1 | 38 | 1 | 30 | 0 | 24 | 2 | 190 | 4 | 54 | 2 |
| 6:00 PM | 180 | 7 | 16 | 1 | 25 | 2 | 29 | 1 | 26 | 0 | 33 | 2 | 27 | 1 | 24 | 0 | 96 | 4 | 84 | 3 |
| 7:00 PM | 129 | 1 | 14 | 0 | 20 | 0 | 20 | 1 | 15 | 0 | 26 | 0 | 20 | 0 | 14 | 0 | 69 | 1 | 60 | 0 |
| 8:00 PM | 115 | 3 | 15 | 0 | 12 | 0 | 13 | 0 | 15 | 0 | 23 | 1 | 25 | 1 | 12 | 1 | 55 | 0 | 60 | 3 |
| 9:00 PM | 88 | 4 | 11 | 1 | 9 | 0 | 9 | 0 | 19 | 2 | 16 | 0 | 15 | 0 | 9 | 1 | 48 | 3 | 40 | 1 |
| 10:00 PM | 67 | 3 | 6 | 0 | 8 | 0 | 7 | 1 | 13 | 0 | 19 | 2 | 9 | 0 | 5 | 0 | 34 | 1 | 33 | 2 |
| 11:00 PM | 55 | 1 | 4 | 0 | 9 | 0 | 7 | 0 | 8 | 0 | 13 | 1 | 10 | 0 | 4 | 0 | 28 | 0 | 27 | 1 |
| TOTAL | 2,735 | 83 | 314 | 4 | 381 | 11 | 366 | 10 | 404 | 11 | 462 | 22 | 461 | 14 | 347 | 11 | 1,782 | 52 | 953 | 31 |

Crashes during Weekends accounted for 34.84% of all MC crashes and 37.35% of Fatal MC Crashes.

Crashes during Weekdays accounted for 65.16% of all MC crashes and 62.65% of Fatal MC Crashes.

Acknowledgements

Special gratitude to our other providers of data and information including:

The National Center for Statistics and Analysis, Research and Development

National Highway Transportation Safety Administration

The Arizona State Data Center, Arizona Department of Economic Security

*The Office of Planning, Evaluation, and Public Health Statistics, Arizona
Department of Health Services*

The Information Technology Group, Arizona Department of Transportation

The National Safety Council