# ARIZONA MOTOR VEHICLE CRASH FACTS 2019



# 2019 Motor Vehicle Crash Facts for the State of Arizona

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

Publication Date: June 29, 2020



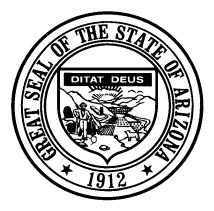
This publication is an annual statistical review of the motor vehicle crashes in the State of Arizona for the calendar year 2019. The results are compiled from Arizona Traffic Crash Reports submitted to the Arizona Department of Transportation by state, county, city, tribal, and other law enforcement agencies. Specific inquiries regarding the data in this report should be directed to:

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

E-mail: azcrashfacts@azdot.gov

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

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



Douglas A. Ducey Governor

# **Arizona Department of Transportation**

John S. Halikowski Director

**State Transportation Board** 

Michael S. Hammond – District 2 Chairman

> Steve Stratton – District 4 Vice Chairman

Members Sam Elters – District 1 Jenn Daniels – District 1 Richard Searle – District 3 Jesse Thompson – District 5 Gary Knight – District 6

### **OVERVIEW**

Section 1: – Highlights and Historical Trends1
Section 2: – Geographic Location9
Section 3: – Crash Descriptions
Section 4: – Safety Devices
Section 5: – Motor Vehicle and Driver Descriptions
Section 6: – Alcohol Related Crashes
Section 7: – Pedestrian and Pedalcyclist Crashes42
Section 8: – Motorcycle (MC) Crashes48
Acknowledgements

# **Table of Contents**

Section 1: Highlights and Historical Trends	
Arizona Crash Facts Summary and Comparison	
Arizona at a Glance – 2019.	
Licensed Drivers, Motor Vehicle Registration and Crash History in Arizona	
Historical Trends – VMT and Rates	
Statewide Economic Loss Due to Motor Vehicle Crashes	
State Adjusted Crash Costs	
Traffic Crashes in Arizona by Year	
Victims of Motor Vehicle Crashes	
Suspected Serious Injuries by Person Type 2015-2019.	
Young Drivers (age 15-24) killed in crashes 2015-2019	
State Highway System (SHS) vs Local Road Fatalities	
Arizona Fatality Rate vs. Injury Rate	
Traffic Fatalities by Geographic Region	
Traffic Injuries by Geographic Region	
Holiday Crash Statistics	8
Section 2: Geographic Location.	
Crash Severity by First Harmful Event Statewide	
Crashes by County	
Crash Severity by First Harmful Event in Urban Areas	
Crash Severity by First Harmful Event in Rural Areas	
Analysis by Jurisdiction.	
Total Fatalities by County for 2018 and 2019.	
Urban and Rural Crashes by Day of Week	
Urban and Rural Fatal Crashes by Day of Week.	
All Urban and Rural Crashes vs. Urban and Rural Fatal Crashes by Month	16
Section 3: Crash Descriptions.	
Manner of Collision in Multi-Vehicle Crashes	18
Manner of Collision in Multi-Vehicle Crashes	18 18
Manner of Collision in Multi-Vehicle Crashes Lighting Conditions Weather Conditions	
Manner of Collision in Multi-Vehicle Crashes. Lighting Conditions. Weather Conditions. Road Surface Conditions.	
Manner of Collision in Multi-Vehicle Crashes. Lighting Conditions. Weather Conditions. Road Surface Conditions. Roadway Grade.	
Manner of Collision in Multi-Vehicle Crashes. Lighting Conditions. Weather Conditions. Road Surface Conditions. Roadway Grade. Roadway Alignment.	
Manner of Collision in Multi-Vehicle Crashes. Lighting Conditions. Weather Conditions. Road Surface Conditions. Roadway Grade. Roadway Alignment. All Crashes vs. Fatal Crashes by Time of Day - Weekdays.	
Manner of Collision in Multi-Vehicle Crashes. Lighting Conditions. Weather Conditions. Road Surface Conditions. Roadway Grade. Roadway Alignment. All Crashes vs. Fatal Crashes by Time of Day - Weekdays. All Crashes vs. Fatal Crashes by Time of Day - Weekends.	
Manner of Collision in Multi-Vehicle Crashes. Lighting Conditions. Weather Conditions. Road Surface Conditions. Roadway Grade. Roadway Alignment. All Crashes vs. Fatal Crashes by Time of Day - Weekdays. All Crashes vs. Fatal Crashes by Time of Day - Weekends. Crashes by Day of Week.	
Manner of Collision in Multi-Vehicle Crashes. Lighting Conditions. Weather Conditions. Road Surface Conditions. Roadway Grade. Roadway Alignment. All Crashes vs. Fatal Crashes by Time of Day - Weekdays. All Crashes vs. Fatal Crashes by Time of Day - Weekends. Crashes by Day of Week. Fatal Crashes by Day of Week.	
Manner of Collision in Multi-Vehicle Crashes. Lighting Conditions. Weather Conditions. Road Surface Conditions. Roadway Grade. Roadway Alignment. All Crashes vs. Fatal Crashes by Time of Day - Weekdays. All Crashes vs. Fatal Crashes by Time of Day - Weekends. Crashes by Day of Week. Fatal Crashes by Day of Week. All Crashes vs. Fatal Crashes by Month.	
Manner of Collision in Multi-Vehicle Crashes. Lighting Conditions. Weather Conditions. Road Surface Conditions. Roadway Grade. Roadway Alignment. All Crashes vs. Fatal Crashes by Time of Day - Weekdays. All Crashes vs. Fatal Crashes by Time of Day - Weekends. Crashes by Day of Week. Fatal Crashes by Day of Week.	
Manner of Collision in Multi-Vehicle Crashes. Lighting Conditions. Weather Conditions. Road Surface Conditions. Roadway Grade. Roadway Alignment. All Crashes vs. Fatal Crashes by Time of Day - Weekdays. All Crashes vs. Fatal Crashes by Time of Day - Weekends. Crashes by Day of Week. Fatal Crashes by Day of Week. All Crashes vs. Fatal Crashes by Month. Crashes vs. Fatal Crashes by Month. Crashes by Hour and Day of Week.	
Manner of Collision in Multi-Vehicle Crashes. Lighting Conditions. Weather Conditions. Road Surface Conditions. Roadway Grade. Roadway Alignment. All Crashes vs. Fatal Crashes by Time of Day - Weekdays. All Crashes vs. Fatal Crashes by Time of Day - Weekends. Crashes by Day of Week. Fatal Crashes by Day of Week. All Crashes vs. Fatal Crashes by Month. Crashes vs. Fatal Crashes by Month. Crashes by Hour and Day of Week.	
Manner of Collision in Multi-Vehicle Crashes. Lighting Conditions. Weather Conditions. Road Surface Conditions. Roadway Grade. Roadway Alignment. All Crashes vs. Fatal Crashes by Time of Day - Weekdays. All Crashes vs. Fatal Crashes by Time of Day - Weekends. Crashes by Day of Week. Fatal Crashes by Day of Week. Fatal Crashes by Day of Week. All Crashes vs. Fatal Crashes by Month. Crashes by Day of Week. Section 4: Safety Devices. Child Safety Device Usage (less than five years old).	
Manner of Collision in Multi-Vehicle Crashes. Lighting Conditions. Weather Conditions. Road Surface Conditions. Roadway Grade. Roadway Alignment. All Crashes vs. Fatal Crashes by Time of Day - Weekdays. All Crashes vs. Fatal Crashes by Time of Day - Weekends. Crashes by Day of Week. Fatal Crashes by Day of Week. Fatal Crashes by Day of Week. All Crashes vs. Fatal Crashes by Month. Crashes by Day of Week. Section 4: Safety Devices. Child Safety Device Usage (less than five years old). Driver Safety Device Usage.	
Manner of Collision in Multi-Vehicle Crashes. Lighting Conditions. Weather Conditions. Road Surface Conditions. Roadway Grade. Roadway Alignment. All Crashes vs. Fatal Crashes by Time of Day - Weekdays. All Crashes vs. Fatal Crashes by Time of Day - Weekends. Crashes by Day of Week. Fatal Crashes by Day of Week. Fatal Crashes by Day of Week. All Crashes vs. Fatal Crashes by Month. Crashes vs. Fatal Crashes by Month. Crashes by Hour and Day of Week. Section 4: Safety Device Usage (less than five years old). Driver Safety Device Usage. Passenger Safety Device Usage.	
Manner of Collision in Multi-Vehicle Crashes. Lighting Conditions. Weather Conditions. Road Surface Conditions. Roadway Grade. Roadway Alignment. All Crashes vs. Fatal Crashes by Time of Day - Weekdays. All Crashes vs. Fatal Crashes by Time of Day - Weekends. Crashes by Day of Week. Fatal Crashes by Day of Week. Fatal Crashes by Day of Week. All Crashes vs. Fatal Crashes by Month. Crashes by Hour and Day of Week. Section 4: Safety Devices. Child Safety Device Usage (less than five years old). Driver Safety Device Usage. Passenger Safety Device Usage by Gender.	
Manner of Collision in Multi-Vehicle Crashes. Lighting Conditions. Weather Conditions. Road Surface Conditions. Roadway Grade. Roadway Alignment. All Crashes vs. Fatal Crashes by Time of Day - Weekdays. All Crashes vs. Fatal Crashes by Time of Day - Weekends. Crashes by Day of Week. Fatal Crashes by Day of Week. Fatal Crashes by Day of Week. All Crashes vs. Fatal Crashes by Month. Crashes vs. Fatal Crashes by Month. Crashes by Hour and Day of Week. Section 4: Safety Device Usage (less than five years old). Driver Safety Device Usage. Passenger Safety Device Usage.	
Manner of Collision in Multi-Vehicle Crashes. Lighting Conditions. Weather Conditions. Road Surface Conditions. Roadway Grade. Roadway Alignment. All Crashes vs. Fatal Crashes by Time of Day - Weekdays. All Crashes vs. Fatal Crashes by Time of Day - Weekends. Crashes by Day of Week. Fatal Crashes by Day of Week. All Crashes vs. Fatal Crashes by Month. Crashes by Day of Week. Section 4: Safety Device Usage (less than five years old). Driver Safety Device Usage. Passenger Safety Device Usage. Priver Safety Device Usage by Gender. Driver Safety Device Usage by Age.	
Manner of Collision in Multi-Vehicle Crashes         Lighting Conditions.         Weather Conditions.         Road Surface Conditions.         Roadway Grade         Roadway Grade         Roadway Alignment.         All Crashes vs. Fatal Crashes by Time of Day - Weekdays.         All Crashes vs. Fatal Crashes by Time of Day - Weekends.         Crashes by Day of Week.         Fatal Crashes by Day of Week.         Fatal Crashes vs. Fatal Crashes by Month.         Crashes vs. Fatal Crashes by Month.         Crashes by Hour and Day of Week.         Section 4: Safety Device.         Child Safety Device Usage (less than five years old).         Driver Safety Device Usage.         Passenger Safety Device Usage.         Driver Safety Device Usage by Gender.         Driver Safety Device Usage by Age.         Section 5: Motor Vehicle and Driver Descriptions.	
Manner of Collision in Multi-Vehicle Crashes.         Lighting Conditions.         Weather Conditions.         Road Surface Conditions.         Roadway Grade.         Roadway Alignment.         All Crashes vs. Fatal Crashes by Time of Day - Weekdays.         All Crashes vs. Fatal Crashes by Time of Day - Weekends.         Crashes by Day of Week.         Fatal Crashes by Day of Week.         Fatal Crashes by Day of Week.         All Crashes vs. Fatal Crashes by Month.         Crashes by Hour and Day of Week.         Section 4: Safety Devices.         Child Safety Device Usage (less than five years old).         Driver Safety Device Usage.         Passenger Safety Device Usage.         Passenger Safety Device Usage by Gender.         Driver Safety Device Usage by Gender.         Driver Safety Device Usage by Age.         Section 5: Motor Vehicle and Driver Descriptions.         Arizona Motor Vehicle Registrations.	
Manner of Collision in Multi-Vehicle Crashes Lighting Conditions. Weather Conditions. Road Surface Conditions. Roadway Grade. Roadway Alignment. All Crashes vs. Fatal Crashes by Time of Day - Weekdays. All Crashes vs. Fatal Crashes by Time of Day - Weekends. Crashes by Day of Week. Fatal Crashes by Day of Week. All Crashes vs. Fatal Crashes by Month. Crashes vs. Fatal Crashes by Month. Crashes by Hour and Day of Week. Section 4: Safety Devices. Child Safety Device Usage (less than five years old). Driver Safety Device Usage. Passenger Safety Device Usage. Driver Safety Device Usage by Gender. Driver Safety Device Usage by Gender. Driver Safety Device Usage by Age. Section 5: Motor Vehicle and Driver Descriptions.	

# 2019 Arizona Crash Facts Summary

Gender of Drivers Involved in Crashes.	28
License Status of Drivers Involved in Crashes	
Passengers Killed and Injured by Age and Gender	
Drivers and Passengers Killed and Injured by Vehicle Type	
Drivers Killed and Injured by Age and Gender.	
Licensed Drivers in Arizona by Age	
Driver Involvement by Age	
Driver Violations.	
Driver Physical Condition.	
Distracted Driving Behavior.	
Secondary Crashes	
Secondary Crashes	
Section 6: Alcohol Related Crashes	33
Economic Loss Due to Alcohol Related Crashes in Arizona for 2019	
Alcohol Related Crash History.	
Manner of Collision in Alcohol Related Crashes.	
Alcohol Related Crashes by First Harmful Event.	
Alcohol Related Crashes by Vehicle Type	
Lighting Conditions in Alcohol Related Crashes.	
Road Surface Conditions in Alcohol Related Crashes	
Gender of Drivers Involved in Alcohol Related Crashes	
Driver Involvement by Age in Alcohol Related Crashes	
When Alcohol Related Crashes Occurred in 2019.	
Safety Device Usage for Drinking Drivers.	
Persons Killed and Injured in Alcohol Related Crashes	
Alcohol Related Crashes by County	
All Alcohol Related Crashes vs. Fatal Alcohol Related Crashes by Day of Week	
All Alcohol Related Crashes vs. Fatal Alcohol Related Crashes by Month	
All Alcohol Related Crashes vs. Fatal Alcohol Related Crashes - Weekdays	
All Alcohol Related Crashes vs. Fatal Alcohol Related Crashes - Weekends	
Alcohol Related Crashes by Hour and Day of Week.	
Theonor Related Clushes by flour and Day of Week	
Section 7: Pedestrian and Pedalcyclist Crashes	
Pedestrians Killed and Injured By Age and Gender.	
Pedestrian Crashes by Geographic Location.	
Pedestrian Crash History.	
Pedestrians Killed by Age and Action.	
Pedestrians Injured by Age and Action.	
Pedestrian Physical Condition in Motor Vehicle Crashes	
Lighting Conditions in Pedestrian Crashes.	
Weather Conditions in Pedestrian Crashes.	
Pedalcyclists Killed and Injured by Age and Gender.	
Pedalcycle Crashes by Geographic Location.	
Pedalcycle Crash History.	
Lighting Conditions in Pedalcyclist Crashes.	
Weather Conditions in Pedalcyclist Crashes	
Pedestrian Crashes by County.	
Pedalcyclist Crashes by County	
require yearst crushes by county	
Section 8: Motorcycle (MC) Crashes	48
MC Fatalities by Year.	
MC Registrations in Arizona.	
Fatality Rate per Registered MC.	
Percent of MC Crashes to All Crashes	
MC Crashes by First Harmful Event.	
Lighting Conditions in MC Crashes.	
Road Surface Conditions in MC Crashes	
MC Crashes by Geographic Location.	

# 2019 Arizona Crash Facts Summary

MC Crashes by Hour and Day of Week	
All MC Crashes vs. Fatal MC Crashes by Day of Week	
All MC Crashes vs. Fatal MC Crashes by Time of Day - Weekends	54
All MC Crashes vs. Fatal MC Crashes by Time of Day - Weekdays	
MC Operators and Passengers Killed and Injured MC Operator Violations	
MC Passenger's Helmet Use.	
MC Operator's Helmet Use	
MC Operator Physical Condition. Helmet Use by Gender. MC Operator's Helmet Use. MC Passenger's Helmet Use.	51 
Operator Involvement by Age in MC Crashes	51

### 2019 Arizona Crash Facts Summary

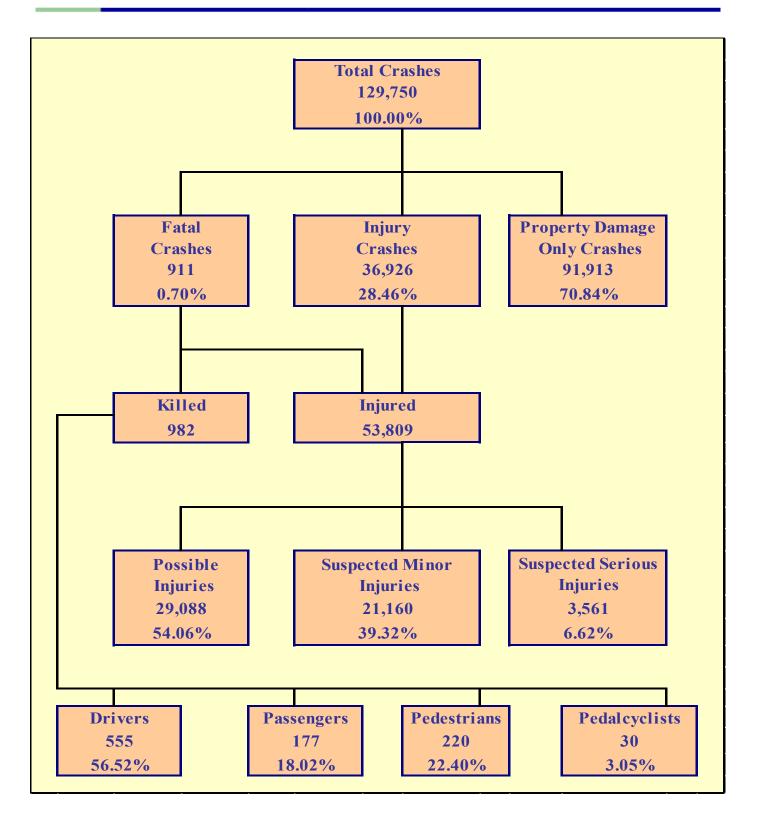
BREAKDOWN OF AI	LL CRASHES IN ARIZO	NA			
TOTAL		129,750			
FATAL	911				
INJURY	36,926				
PROPERTY DAMAGE ONLY	91,913				
URBAN		114,457			
RURAL		15,293			
ALCOHOL RELATED		4,907			
PEDES TRIAN		1,842			
PEDALCYCLE		1,275			
MOTORCYCLE		2,676			
S INGLE VEHICLE		18,660			
MULTI-VEHICLE		111,090			
BREAKDOWN OF FAT	TAL CRASHES IN ARIZ	ONA			
TOTAL		911			
ALCOHOL RELATED		234			
URBAN		556			
RURAL		355			
S INGLE VEHICLE		321			
MULTI-VEHICLE		590			
ALCOHOL RELATED SINGLE VEHICLE		96			
ALCOHOL RELATED MULTI-VEHICLE		138			
BREAKDOWN OF PERSONS KILLED AND INJURED					
ТҮРЕ	KILLED	INJURED			
IN ALL CRASHES	982	53,809			
IN ALCOHOL RELATED CRASHES	256	2,969			
IN URBAN CRASHES	586	46,858			
IN RURAL CRASHES	396	6,951			
IN SPEED RELATED CRASHES*	294	20,571			
IN LANE DEPARTURE CRASHES	619	14,716			
IN CRASHES ON THE STATE HIGHWAY SYSTEM	372	17,110			
IN CRASHES ON THE STATE HIGHWAY SYSTEM	372	17,110			
IN CRASHES ON THE STATE HIGHWAY SYSTEM IN CRASHES ON LOCAL ROADS	372 610	17,110 36,699			
IN CRASHES ON THE STATE HIGHWAY SYSTEM IN CRASHES ON LOCAL ROADS USING SAFETY DEVICE	372 610 282	17,110 36,699 44,371			
IN CRASHES ON THE STATE HIGHWAY SYSTEM IN CRASHES ON LOCAL ROADS USING SAFETY DEVICE NOT USING SAFETY DEVICE	372 610 282 300	17,110 36,699 44,371 2,931			
IN CRASHES ON THE STATE HIGHWAY SYSTEM IN CRASHES ON LOCAL ROADS USING SAFETY DEVICE NOT USING SAFETY DEVICE DRIVERS AGE 24 OR YOUNGER DRINKING DRIVERS AGE 24 OR YOUNGER	372 610 282 300 82	17,110 36,699 44,371 2,931 8,024			
IN CRASHES ON THE STATE HIGHWAY SYSTEM IN CRASHES ON LOCAL ROADS USING SAFETY DEVICE NOT USING SAFETY DEVICE DRIVERS AGE 24 OR YOUNGER DRINKING DRIVERS AGE 24 OR YOUNGER	372 610 282 300 82 15 <b>F CRASHES BY TIME</b>	17,110 36,699 44,371 2,931 8,024			
IN CRASHES ON THE STATE HIGHWAY SYSTEM IN CRASHES ON LOCAL ROADS USING SAFETY DEVICE NOT USING SAFETY DEVICE DRIVERS AGE 24 OR YOUNGER DRINKING DRIVERS AGE 24 OR YOUNGER BREAKDOWN O	372 610 282 300 82 15 <b>F CRASHES BY TIME</b>	17,110 36,699 44,371 2,931 8,024 309			
IN CRASHES ON THE STATE HIGHWAY SYSTEM IN CRASHES ON LOCAL ROADS USING SAFETY DEVICE NOT USING SAFETY DEVICE DRIVERS AGE 24 OR YOUNGER DRINKING DRIVERS AGE 24 OR YOUNGER BREAKDOWN O PEAK MONTH FOR ALL CRASHES	372 610 282 300 82 15 <b>F CRASHES BY TIME</b>	17,110 36,699 44,371 2,931 8,024 309 OCTOBER			
IN CRASHES ON THE STATE HIGHWAY SYSTEM IN CRASHES ON LOCAL ROADS USING SAFETY DEVICE NOT USING SAFETY DEVICE DRIVERS AGE 24 OR YOUNGER DRINKING DRIVERS AGE 24 OR YOUNGER BREAKDOWN O PEAK MONTH FOR ALL CRASHES PEAK DAY FOR ALL CRASHES	372 610 282 300 82 15 <b>F CRASHES BY TIME</b>	17,110 36,699 44,371 2,931 8,024 309 OCTOBER FRIDAY			
IN CRASHES ON THE STATE HIGHWAY SYSTEM IN CRASHES ON LOCAL ROADS USING SAFETY DEVICE NOT USING SAFETY DEVICE DRIVERS AGE 24 OR YOUNGER DRINKING DRIVERS AGE 24 OR YOUNGER BREAKDOWN O PEAK MONTH FOR ALL CRASHES PEAK DAY FOR ALL CRASHES PEAK HOUR FOR ALL CRASHES	372 610 282 300 82 15 <b>F CRASHES BY TIME</b> 0 4	17,110 36,699 44,371 2,931 8,024 309 OCTOBER FRIDAY PM - 5 PM			
IN CRASHES ON THE STATE HIGHWAY SYSTEM IN CRASHES ON LOCAL ROADS USING SAFETY DEVICE NOT USING SAFETY DEVICE DRIVERS AGE 24 OR YOUNGER DRINKING DRIVERS AGE 24 OR YOUNGER BREAKDOWN O PEAK MONTH FOR ALL CRASHES PEAK HOUR FOR ALL CRASHES PEAK MONTH FOR FATAL CRASHES	372 610 282 300 82 15 <b>F CRASHES BY TIME</b> ( 4	17,110 36,699 44,371 2,931 8,024 309 OCTOBER FRIDAY PM - 5 PM APRIL			
IN CRASHES ON THE STATE HIGHWAY SYSTEM IN CRASHES ON LOCAL ROADS USING SAFETY DEVICE NOT USING SAFETY DEVICE DRIVERS AGE 24 OR YOUNGER DRINKING DRIVERS AGE 24 OR YOUNGER BREAKDOWN O PEAK MONTH FOR ALL CRASHES PEAK DAY FOR ALL CRASHES PEAK HOUR FOR ALL CRASHES PEAK MONTH FOR FATAL CRASHES PEAK DAY FOR FATAL CRASHES	372 610 282 300 82 15 F CRASHES BY TIME C 4 5/ 7	17,110 36,699 44,371 2,931 8,024 309 OCTOBER FRIDAY PM - 5 PM APRIL ATURDAY			
IN CRASHES ON THE STATE HIGHWAY SYSTEM IN CRASHES ON LOCAL ROADS USING SAFETY DEVICE NOT USING SAFETY DEVICE DRIVERS AGE 24 OR YOUNGER DRINKING DRIVERS AGE 24 OR YOUNGER BREAKDOWN O PEAK MONTH FOR ALL CRASHES PEAK DAY FOR ALL CRASHES PEAK HOUR FOR ALL CRASHES PEAK MONTH FOR FATAL CRASHES PEAK DAY FOR FATAL CRASHES PEAK HOUR FOR FATAL CRASHES	372 610 282 300 82 15 <b>F CRASHES BY TIME</b> (C 4 4 5 7 THURSDAY FEBR	17,110 36,699 44,371 2,931 8,024 309 OCTOBER FRIDAY PM - 5 PM APRIL ATURDAY PM - 8 PM			
IN CRASHES ON THE STATE HIGHWAY SYSTEM IN CRASHES ON LOCAL ROADS USING SAFETY DEVICE NOT USING SAFETY DEVICE DRIVERS AGE 24 OR YOUNGER DRINKING DRIVERS AGE 24 OR YOUNGER BREAKDOWN O PEAK MONTH FOR ALL CRASHES PEAK DAY FOR ALL CRASHES PEAK HOUR FOR ALL CRASHES PEAK MONTH FOR FATAL CRASHES PEAK DAY FOR FATAL CRASHES PEAK HOUR FOR FATAL CRASHES	372 610 282 300 82 15 <b>F CRASHES BY TIME</b> <b>CRASHES BY TIME</b> ( 0 4 4 5 7 7 THURSDAY FEBRI FRIDAY OCTO	17,110 36,699 44,371 2,931 8,024 309 OCTOBER FRIDAY PM - 5 PM APRIL ATURDAY PM - 8 PM JARY 14TH (635 CRASHES)			
IN CRASHES ON THE STATE HIGHWAY SYSTEM IN CRASHES ON LOCAL ROADS USING SAFETY DEVICE NOT USING SAFETY DEVICE DRIVERS AGE 24 OR YOUNGER DRINKING DRIVERS AGE 24 OR YOUNGER BREAKDOWN O PEAK MONTH FOR ALL CRASHES PEAK DAY FOR ALL CRASHES PEAK HOUR FOR ALL CRASHES PEAK MONTH FOR FATAL CRASHES PEAK DAY FOR FATAL CRASHES PEAK HOUR FOR FATAL CRASHES PEAK HOUR FOR FATAL CRASHES PEAK HOUR FOR FATAL CRASHES PEAK HOUR FOR FATAL CRASHES PEAK DATE FOR ALL CRASHES IN 2019	372 610 282 300 82 15 <b>F CRASHES BY TIME</b> ( ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	17,110 36,699 44,371 2,931 8,024 309 OCTOBER FRIDAY PM - 5 PM APRIL ATURDAY PM - 8 PM JARY 14TH (635 CRASHES) DBER 4TH (8 CRASHES)			
IN CRASHES ON THE STATE HIGHWAY SYSTEM IN CRASHES ON LOCAL ROADS USING SAFETY DEVICE NOT USING SAFETY DEVICE DRIVERS AGE 24 OR YOUNGER DRINKING DRIVERS AGE 24 OR YOUNGER BREAKDOWN O PEAK MONTH FOR ALL CRASHES PEAK DAY FOR ALL CRASHES PEAK HOUR FOR ALL CRASHES PEAK MONTH FOR FATAL CRASHES PEAK MONTH FOR FATAL CRASHES PEAK DAY FOR FATAL CRASHES PEAK HOUR FOR FATAL CRASHES PEAK HOUR FOR FATAL CRASHES PEAK HOUR FOR FATAL CRASHES PEAK DATE FOR ALL CRASHES IN 2019 PEAK DATE FOR FATAL CRASHES IN 2019 PEAK HOUR FOR MOTORCYCLE CRASHES	372 610 282 300 82 15 F CRASHES BY TIME C F CRASHES BY TIME C C C C C C C C C C C C C C C C C C C	17,110 36,699 44,371 2,931 8,024 309 OCTOBER FRIDAY PM - 5 PM APRIL ATURDAY PM - 8 PM JARY 14TH (635 CRASHES) DBER 4TH (8 CRASHES) PM - 6 PM			
IN CRASHES ON THE STATE HIGHWAY SYSTEM IN CRASHES ON LOCAL ROADS USING SAFETY DEVICE NOT USING SAFETY DEVICE DRIVERS AGE 24 OR YOUNGER DRINKING DRIVERS AGE 24 OR YOUNGER BREAKDOWN O PEAK MONTH FOR ALL CRASHES PEAK DAY FOR ALL CRASHES PEAK HOUR FOR ALL CRASHES PEAK MONTH FOR FATAL CRASHES PEAK DAY FOR FATAL CRASHES PEAK DAY FOR FATAL CRASHES PEAK HOUR FOR FATAL CRASHES PEAK HOUR FOR FATAL CRASHES PEAK DATE FOR ALL CRASHES IN 2019 PEAK DATE FOR FATAL CRASHES IN 2019 PEAK HOUR FOR MOTORCYCLE CRASHES PEAK HOUR FOR ALCOHOL RELATED CRASHES	372 610 282 300 82 15 <b>F CRASHES BY TIME</b> C <b>F CRASHES BY TIME</b> C C C C C C C C C C C C C C C C C C C	17,110 36,699 44,371 2,931 8,024 309 OCTOBER FRIDAY PM - 5 PM APRIL ATURDAY PM - 8 PM JARY 14TH (635 CRASHES) DBER 4TH (8 CRASHES) PM - 6 PM AM - 3 AM			

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

Fatalities in Arizona s	since 1925
-------------------------	------------

Fatalities in Arizona since 1925								
Year	Total Fatalities	Year	Total Fatalities					
1925	76	1972	812					
1926	120	1973	975					
1927	147	1974	751					
1928	130	1975	670					
1929	157	1976	739					
1930	190	1977	933					
1931	159	1978	1,027					
1932	166	1979	1,029					
1933	154	1980	947					
1934	205	1981	916					
1935	217	1982	724					
1936	244	1983	675					
1937	258	1984	869					
1938	200	1985	893					
1939	215	1986	1,007					
1940	228	1987	939					
1941	272	1988	944					
1942	230	1989	879					
1943	168	1990	869					
1944	180	1991	816					
1945	283	1992	811					
1946	236	1993	799					
1947	256	1994	904					
1948	301	1995	1,035					
1949	281	1996	997					
1950	325	1997	950					
1951	415	1998	981					
1952	396	1999	1,028					
1953	397	2000	1,037					
1954	402	2001	1,057					
1955	358	2002	1,132					
1956	486	2003	1,125					
1957	461	2004	1,159					
1958	509	2005	1,193					
1959	517	2006	1,301					
1960	513	2007	1,071					
1961	510	2008	938					
1962	510	2009	806					
1963	513	2010	759					
1964	588	2011	827					
1965	550	2012	821					
1966	643	2013	849					
1967	574	2014	774					
1968	695	2015	897					
1969	750	2016	952					
1970	762	2017	998					
1971	755	2018	1,011					
		2019	982					

# Section 1



Arizona Crash Facts Summary and Comparison								
Category	2018	2019	Percent Change					
Total Crashes	127,712	129,750	1.60%					
Total Fatalities	1,011	982	-2.87%					
Total Injuries	53,644	53,809	0.31%					
Alcohol Related Fatalities	265	256	-3.40%					
Alcohol Related Injuries	3,001	2,969	-1.07%					
Urban Fatalities	658	586	-10.94%					
Urban Injuries	47,972	46,858	-2.32%					
Rural Fatalities	353	396	12.18%					
Rural Injuries	5,672	6,951	22.55%					
MC Operator and Passenger Fatalities	154	170	10.39%					
MC Operator and Passenger Injuries	2,255	2,235	-0.89%					
Pedestrians Fatalities	245	220	-10.20%					
Pedestrians Injuries	1,546	1,697	9.77%					
Pedalcyclist Fatalities	24	30	25.00%					
Pedalcyclist Injuries	1,190	1,259	5.80%					
Millions of vehicle miles traveled (VMT)*	66,145	70,281	6.25%					
Fatalities per 100 million VMT	1.53	1.40	-8.58%					
Injuries per 100 million VMT	81.10	76.56	-5.60%					
*The VMT figure for 2019 is preliminary and subject to cha	ange							

 Table 1 – 1

 Arizona Crash Facts Summary and Comparison

## Arizona at a Glance – 2019

- Approximately 2.69 persons were killed each day.
- One person was killed every 8 hours and 56 minutes.
- There were 147 persons injured every day.
- One person was injured every 9 minutes and 46 seconds.
- Alcohol Related crashes accounted for **3.78%** of all crashes and **25.69%** of all fatal crashes.
- Of all alcohol related crashes, **84.63%** occurred in Urban areas and **15.37%** occurred in Rural areas, while **62.39%** of all alcohol related fatal crashes occurred in Urban areas and **37.61%** occurred in Rural areas.
- Single vehicle crashes accounted for 14.38% of all crashes and 35.24% of all fatal crashes.
- Of all Pedestrian crashes, **11.78%** were fatal while **2.35%** of Pedalcycle crashes were fatal.
- Crashes which occurred during daylight hours (6:00 a.m. to 6:00 p.m.) accounted for **72.3%** of all crashes.
- Motor vehicle crashes resulted in **\$18.442** billion in economic losses to Arizona.
- Children age 14 and younger accounted for **32** fatalities and **3,182** injuries in motor vehicle crashes.

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	
2005	140,574	1,049	45,826	93,699	1,193	71,083	3,963,005	4,556,448	
2006	143,504	1,126	45,395	96,983	1,301	70,013	4,091,789	4,748,957	
2007	141,193	952	43,560	96,681	1,071	66,062	4,212,393	4,848,162	
2008	120,557	843	37,515	82,199	938	56,539	4,360,711	4,842,188	
2009	107,149	709	33,506	72,934	806	50,809	4,434,719	4,787,350	
2010	106,900	695	33,419	72,786	759	50,463	4,537,653	4,805,904	
2011	103,958	756	33,223	69,979	827	49,856	4,634,405	4,855,014	
2012	103,940	738	33,595	69,607	821	50,089	4,736,517	4,969,620	
2013	107,576	782	34,137	72,657	849	50,440	4,826,903	5,130,780	
2014	109,872	709	34,578	74,585	774	51,103	4,922,676	5,300,980	
2015	117,053	811	36,304	79,938	897	53,854	5,025,811	5,487,058	
2016	127,281	856	38,712	87,713	952	56,938	5,135,262	5,677,208	
2017	127,810	917	38,055	88,838	998	55,886	5,221,403	5,843,368	
2018	127,712	918	36,687	90,107	1,011	53,644	5,308,307	6,009,850	
2019	129,750	911	36,926	91,913	982	53,809	5,375,341	6,167,481	

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

Table 1 – 3Historical Trends – VMT and Rates

Calendar Year	Arizona Fatality Rate	Arizona Injury Rate	Arizona Estimated Motor Traffic Vehicle Miles Fatalities Traveled		Arizona Fatal Crash Rate			
2015	1.38	82.79	897	65,045	1.25			
2016	1.45	86.79	952	65,606	1.30			
2017	1.53	85.89	998 65,069		1.41			
2018	1.53	81.10	1,011	66,145	1.39			
2019	1.40	76.56	982	70,281	1.30			
Vehicle miles trave	led are shown in	million miles an	nd rates per 100 i	million miles				

The VMT figure for 2019 is preliminary and subject to change.

### **Statewide Economic Loss Due to Motor Vehicle Crashes**

Ē

Suspected Minor Injuries	\$3,155,633,120
Possible Injuries	\$3,000,281,760
Property Damage Only	\$981,630,840
Property Damage Only	\$981,630,840 <b>\$18,441,966,981</b>

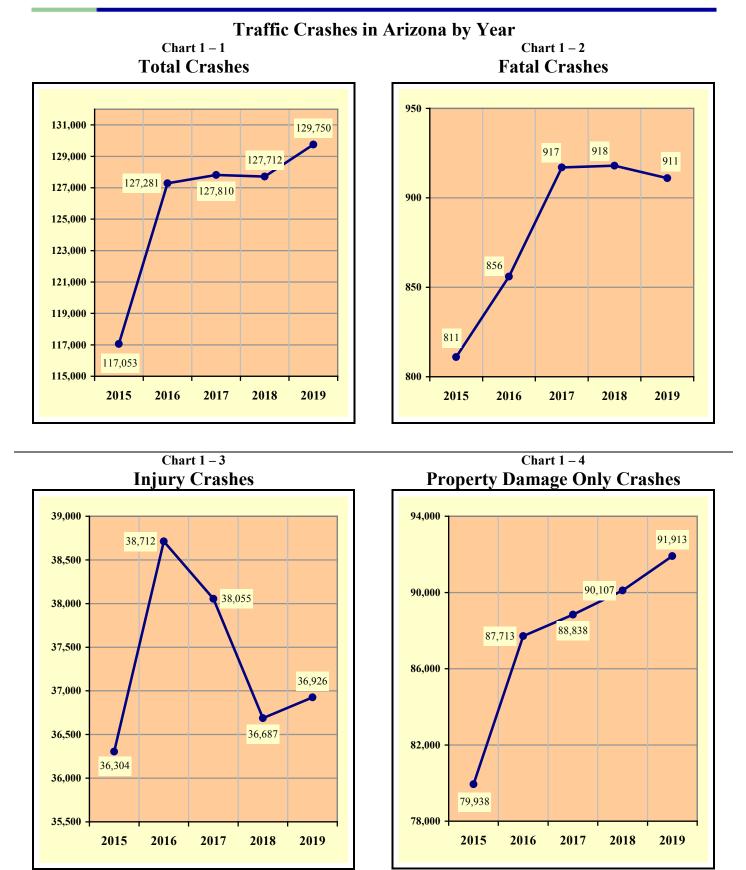
# Table 1 – 4 Estimated Economic Loss by County

Country	Cost of Traffic Crashes							
County		Fatalities		Injuries		PDO		Total
Apache	\$	323,522,614	\$	36,022,573	\$	2,969,040	\$	362,514,227
Cochise	\$	237,884,275	\$	68,552,908	\$	8,309,040	\$	314,746,223
Coconino	\$	504,314,663	\$	238,109,810	\$	29,743,800	\$	772,168,273
Gila	\$	171,276,678	\$	78,751,589	\$	7,230,360	\$	257,258,627
Graham	\$	66,607,597	\$	30,033,858	\$	2,883,600	\$	99,525,055
Greenlee	\$	28,546,113	\$	6,674,653	\$	587,400	\$	35,808,166
La Paz	\$	161,761,307	\$	31,629,458	\$	2,798,160	\$	196,188,925
Maricopa	\$	4,243,855,466	\$	5,568,940,155	\$	748,603,920	\$	10,561,399,541
Mohave	\$	542,376,147	\$	260,555,591	\$	23,795,040	\$	826,726,778
Navajo	\$	228,368,904	\$	95,502,158	\$	9,505,200	\$	333,376,262
Pima	\$	1,341,667,311	\$	840,055,373	\$	63,321,720	\$	2,245,044,404
Pinal	\$	656,560,599	\$	340,444,781	\$	31,975,920	\$	1,028,981,300
Santa Cruz	\$	57,092,226	\$	19,483,202	\$	3,599,160	\$	80,174,588
Yavapai	\$	513,830,034	\$	288,282,794	\$	28,152,480	\$	830,265,308
Yuma	\$	266,430,388	\$	213,202,916	\$	18,156,000	\$	497,789,304
TOTALS	\$	9,344,094,322	\$	8,116,241,819	\$	981,630,840	\$	18,441,966,981

#### Table 1 – 5 State Adjusted Crash Costs

1.	Fatality	\$9,515,371	
2.	Suspected Serious Injury	\$550,499	
3.	Suspected Minor Injury	\$149,132	
4.	Possible Injury	\$103,145	
5.	Property Damage Only	\$10,680	

Source: www.safety.fhwa.dot.gov/hsip/docs/fhwasa17071.pdf



#### Section 1: - Highlights and Historical Trends

Age of		Persor	ns Killed			Person	s Injured				
Victim	Total	Male	Female	Gender Unknown	Total	Male	Female	Gender Unknown			
0-4	8	4	4	0	752	380	372	0			
5-9	8	4	4	0	1,044	526	518	0			
10-14	16	11	5	0	1,386	666	720	0			
15-19	65	38	27	0	5,214	2,467	2,747	0			
20-24	90	69	21	0	6,639	3,252	3,387	0			
25-34	153	111	42	0	11,092	5,373	5,719	0			
35-44	147	109	38	0	7,888	3,844	4,044	0			
45-54	129	85	44	0	6,983	3,356	3,627	0			
55-64	153	109	44	0	6,106	3,016	3,090	0			
65-74	108	84	24	0	3,860	1,811	2,049	0			
75 & Older	101	65	36	0	2,271	1,082	1,189	0			
Unknown	4	2	1	1	574	244	246	84			
TOTAL	982	691	290	1	53,809	26,017	27,708	84			

 Table 1 – 6

 Victims of Motor Vehicle Crashes

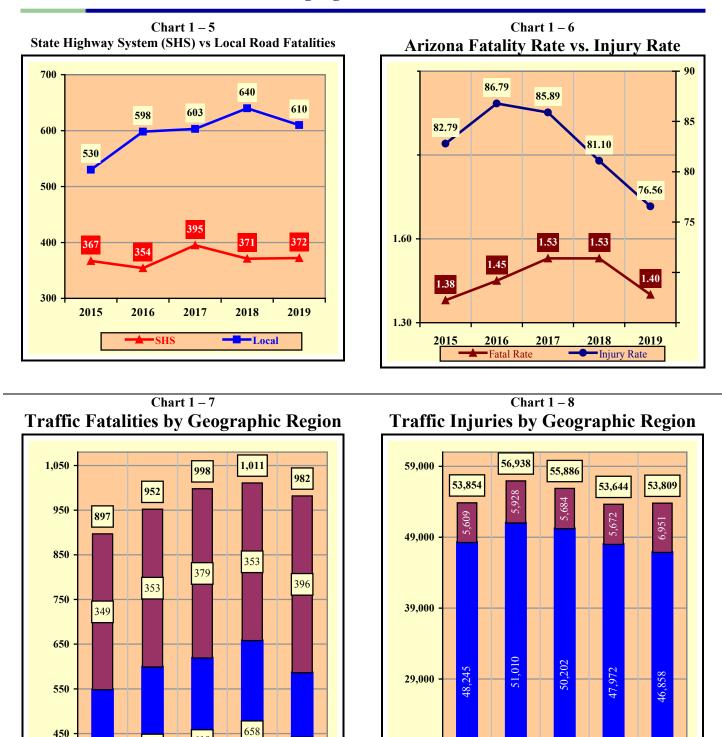
Table 1 – 7

Suspected Serious Injuries by Person Type 2015-2019

Year	Drivers	Passengers	Pedestrians	Pedalcyclists	Total
2015	2,777	950	303	183	4,213
2016	2,911	1,053	426	218	4,608
2017	2,643	985	388	181	4,197
2018	2,430	792	385	173	3,780
2019	2,276	778	356	151	3,561
TOTAL	13,037	4,558	1,858	906	20,359

Table 1 – 8 Young drivers (age 15-24) killed in crashes 2015-2019

Year	Age of Driver											
rear	15	16	17	18	19	20	21	22	23	24	Total	
2015	1	2	4	7	7	13	15	15	10	10	84	
2016	2	2	1	13	12	11	9	18	15	14	97	
2017	1	0	2	8	9	10	14	18	10	10	82	
2018	1	2	4	13	6	12	10	13	12	14	87	
2019	0	6	4	9	9	10	13	12	9	9	81	
TOTAL	5	12	15	50	43	56	61	76	56	57	431	



#### Section 1: - Highlights and Historical Trends

19,000

9,000 -

Urban Injuries

**Rural Injuries** 

Note: The data in charts 1-7 and 1-8 will differ from previous crash facts due to a change in the criteria used to determine urban and rural.

Rural Fatalities

Urban Fatalities

#### 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.

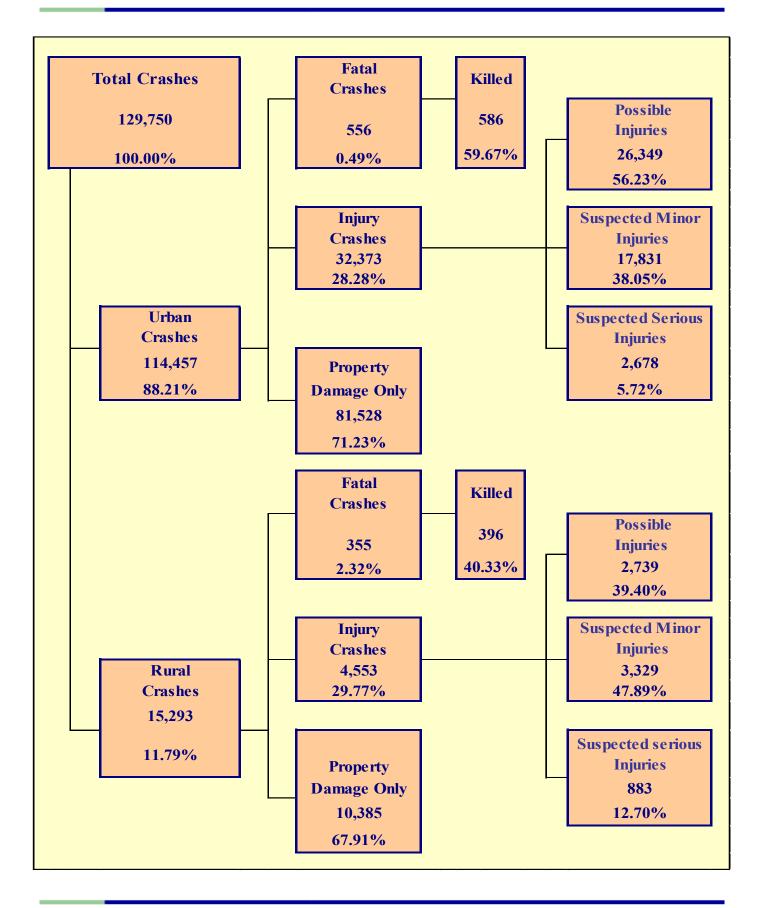
Holiday fatality statistics are based on fatal crashes occurring from 6:00 p.m. on the last working day prior to the holiday through 5:59 a.m. the day following the holiday period. Example: Thanksgiving fatalities are counted from Wednesday evening at 6:00 p.m. through 5:59 a.m. of the following Monday.

2019 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	Friday	Wednesday	5	8	9	1	1	
	12/28/2018	1/2/2019						
Memorial Day	Friday	Tuesday	4	13	13	1	1	
	5/24/2019	5/28/2019				•	-	
July 4th	Wednesday	Monday	5	13	14	5	6	
	7/3/2019	7/8/2019	Ū			•	Ĵ	
Labor Day	Friday	Tuesday	4	12	12	4	4	
Lubor Duy	8/30/2019	9/3/2019		12	12		•	
Thanksgiving Day	Wednesday	Monday	5	11	11	3	3	
	11/27/2019	12/2/2019	5			,	5	
Christmas Day	Tuesday	Thursday	2	2	2	0	0	
	12/24/2019	12/26/2019	۷	2	۷	0	U	

Fatal Crashes by Year	New Year's Day	Memorial Day	July 4th	Labor Day	Thanksgiving	Christmas Day	Total
2015	7	10	11	10	10	4	52
2016	6	7	13	7	11	4	48
2017	12	5	4	9	16	10	56
2018	10	7	5	8	8	10	48
2019	8	13	13	12	11	2	59

Persons Killed	New Year's Day	Memorial Day	July 4th	Labor Day	Thanksgiving	Christmas Day	Total
2015	7	11	11	10	16	6	61
2016	6	7	15	8	11	6	53
2017	13	7	4	9	17	10	60
2018	10	8	5	9	8	11	51
2019	9	13	14	12	11	2	61

Number of Days	New Year's Day	Memorial Day	July 4th	Labor Day	Thanksgiving	Christmas Day	Total
2015	5	4	4	4	5	4	26
2016	4	4	4	4	5	4	25
2017	4	4	2	4	5	4	23
2018	4	4	2	4	5	5	24
2019	5	4	5	4	5	2	25



Fatal Crashes in Arizona (911) accounted for 0.70% of all crashes, Injury Crashes (36,926) accounted for 28.46%, and Property Damage Only (PDO) Crashes (91,913) accounted for 70.84%.

Crash Severity by	Crash Severity by First Harmful Event Statewide										
Einet Hanneful Evant Trma		Number o	Number of Persons								
First Harmful Event Type	Total	Fatal	Injury	PDO	Killed	Injured					
Collision with Motor Vehicle in Transport	100,150	324	27,498	72,328	373	42,422					
Overturning	2,535	121	1,576	838	130	2,129					
Collision with Pedestrian	1,733	210	1,523	0	213	1,621					
Collision with Pedalcyclist	1,242	30	1,212	0	31	1,258					
Collision with Animal	2,007	3	193	1,811	4	264					
Collision with Fixed Object	12,409	171	3,451	8,787	179	4,141					
Collision with Non-fixed Object*	5,990	17	638	5,335	17	781					
Vehicle Fire or Explosion	336	1	13	322	1	14					
Other Non-collision**	443	13	38	392	13	49					
Unknown	2,905	21	784	2,100	21	1,130					
TOTAL	129,750	911	36,926	91,913	982	53,809					
*Includes Collision with Parked Vehicles, Trains, Railw	ay Vehicles, a	nd Work Zo	ne Equipmen	ıt							
**Includes Vehicle Immersion, Jackknife, and Cargo Los	s or Shift										

Table 2 – 1 Crash Severity by First Harmful Event Statewide

	Crashes by County											
Country		Number	of Crashes		Number	of Persons						
County	Total	Fatal	Injury	PDO	Killed	Injured						
Apache	421	27	116	278	34	191						
Cochise	1,072	24	270	778	25	386						
Coconino	3,740	46	909	2,785	53	1,465						
Gila	992	17	298	677	18	397						
Graham	383	7	106	270	7	168						
Greenlee	85	3	27	55	3	38						
La Paz	377	13	102	262	17	163						
Maricopa	97,105	428	26,583	70,094	446	38,571						
Mohave	3,203	51	924	2,228	57	1,387						
Navajo	1,250	24	336	890	24	520						
Pima	9,850	129	3,792	5,929	141	5,449						
Pinal	4,357	60	1,303	2,994	69	1,969						
Santa Cruz	423	6	80	337	6	109						
Yavapai	3,813	50	1,127	2,636	54	1,636						
Yuma	2,679	26	953	1,700	28	1,360						
TOTAL	129,750	911	36,926	91,913	982	53,809						

Table 2 – 2 Crashes by County

Crash Severity by Fil	Crash Seventy by First fraimful Event in Orban Areas											
		Number o	of Crashes		Number o	of Persons						
First Harmful Event Type	Total	Fatal	Injury	PDO	Killed	Injured						
Collision with Motor Vehicle in Transport	92,938	215	25,295	67,428	234	38,597						
Overturning	890	23	628	239	25	785						
Collision with Pedestrian	1,664	178	1,486	0	181	1,579						
Collision with Pedalcyclist	1,178	25	1,153	0	26	1,196						
Collision with Animal	358	0	25	333	0	38						
Collision with Fixed Object	9,135	87	2,492	6,556	92	2,922						
Collision with Non-fixed Object*	4,967	10	486	4,471	10	583						
Vehicle Fire or Explosion	118	1	1	116	1	1						
Other Non-collision**	321	10	24	287	10	29						
Unknown	2,888	7	783	2,098	7	1,128						
TOTAL	114,457	556	32,373	81,528	586	46,858						
*Includes Collision with Parked Vehicles, Trains, Railw	ay Vehicles,	and Work Zo	one Equipme	nt								
**Includes Vehicle Immersion, Jackknife, and Cargo Lo	ss or Shift											

 Table 2 – 3

 Crash Severity by First Harmful Event in Urban Areas

 Table 2 – 4

 Crash Severity by First Harmful Event in Rural Areas

		Number o	of Crashes		Number o	of Persons
First Harmful Event Type	Total	Fatal	Injury	PDO	Killed	Injured
Collision with Motor Vehicle in Transport	7,212	109	2,203	4,900	139	3,825
Overturning	1,645	98	948	599	105	1,344
Collision with Pedestrian	69	32	37	0	32	42
Collision with Pedalcyclist	64	5	59	0	5	62
Collision with Animal	1,649	3	168	1,478	4	226
Collision with Fixed Object	3,274	84	959	2,231	87	1,219
Collision with Non-fixed Object*	1,023	7	152	864	7	198
Vehicle Fire or Explosion	218	0	12	206	0	13
Other Non-collision**	122	3	14	105	3	20
Unknown	17	14	1	2	14	2
TOTAL	15,293	355	4,553	10,385	396	6,951
*Includes Collision with Parked Vehicles, Trains, Railwa	y Vehicles, ar	nd Work Zon	e Equipment	:		
**Includes Vehicle Immersion, Jackknife, and Cargo Loss	s or Shift					

While Urban Crashes in Arizona (114,457) accounted for 88.21% of all crashes, they accounted for 61.03% of all Fatal Crashes (556) occurring in 2019.

While Rural Crashes in Arizona (15,293) accounted for 11.79% of all crashes, they accounted for 38.97% of all Fatal Crashes (355) occurring in 2019.

**Table 2 – 5** 

Analysis by Jurisdiction													
COUNTIES		<b>v</b>	f Crashe		No. of H	Persons	Alc	ohol Rela	ated				
Cities	Total	Fatal	Injury	PDO	Killed	Injured	Crashes	Killed	Injured				
Apache County	389	26	107	256	32	178	25	12	23				
Eagar	20	0	4	16	0	5	2	0	0				
Springerville	4	0	3	1	0	4	0	0	0				
St. Johns	8	1	2	5	2	4	1	0	0				
TOTAL	421	27	116	278	34	191	28	12	23				
Cochise County	449	15	107	327	15	160	24	6	15				
Benson	91	3	14	74	3	25	2	1	0				
Bisbee	3	0	0	3	0	0	0	0	0				
Douglas	2	0	0	2	0	0	0	0	0				
Huachuca City	2	1	0	1	1	0	1	1	0				
Sierra Vista	491	4	143	344	5	194	18	0	7				
Tombstone	7	0	3	4	0	3	1	0	0				
Willcox	27	1	3	23	1	4	2	0	0				
TOTAL	1,072	24	270	778	25	386	48	8	22				
		-		-	_								
Coconino County	1,554	32	374	1,148	38	598	70	12	62				
Flagstaff	1,815	10	474	1,331	10	743	80	3	49				
Fredonia	0	0	0	0	0	0	0	0	0				
Williams	138	2	13	123	3	24	5	1	1				
Page	129	1	38	90	1	85	14	0	10				
Sedona	104	1	10	93	1	15	3	0	1				
TOTAL	3,740	46	909	2,785	53	1,465	172	16	123				
Gila County	580	14	171	395	15	223	22	2	19				
Globe	164	3	49	112	3	74	9	0	6				
Hayden	1	0	1	0	0	2	0	0	0				
Miami	29	0	7	22	0	9	1	0	1				
Payson	218	0	70	148	0	89	14	0	13				
Winkelman	0	0	0	0	0	0	0	0	0				
TOTAL	992	17	298	677	18	397	46	2	39				
Graham County	137	5	39	93	5	69	19	2	8				
Pima	0	0	0	0	0	0	0	0	0				
Safford	172	2	46	124	2	68	8	0	3				
Thatcher	74	0	21	53	0	31	1	0	0				
TOTAL	383	7	106	270	7	168	28	2	11				
Greenlee County	56	3	21	32	3	28	6	1	3				
Clifton	26	0	5	21	0	8	2	0	1				
Duncan	3	0	1	2	0	2	0	0	0				
TOTAL	85	3	27	55	3	38	8	1	4				

Table 2 – 5         Analysis by Jurisdiction												
COUNTIES			by Jur of Crashe			Persons	Ala	ohol Rela	atad			
Cities	Total	Fatal	Injury	s PDO		Injured		Killed	Injured			
La Paz County	313	<b>1</b> 3	86	214	17	142	20	1	20			
Parker	24	0	4	214	0	6	20	0	20			
Quartzite	40	0	12	20	0	15	1	0	1			
TOTAL	<b>377</b>	13	102	262	17	163	22	1	21			
IOTAL	311	15	102	202	17	105	22	J	21			
Maricopa County	6,911	75	2,160	4,676	79	3,224	236	20	188			
Apache Junction	26	0	10	16	0	14	0	0	0			
Avondale	1,762	3	518	1,241	3	733	52	0	22			
Buckeye	766	5	242	519	6	409	34	0	16			
Cave Creek	90	1	24	65	1	32	8	0	3			
Chandler	4,982	14	1,414	3,554	15	2,148	171	2	95			
El Mirage	370	0	90	280	0	132	20	0	10			
Gila Bend	54	2	14	38	2	19	2	1	1			
Gilbert	3,093	7	487	2,599	7	651	101	1	40			
Glendale	5,350	32	1,343	3,975	33	1,878	180	7	84			
Goodyear	1,167	3	319	845	3	448	64	1	29			
Mesa	7,641	35	2,241	5,365	36	3,095	321	11	193			
Paradise Valley	156	1	27	128	1	36	5	0	1			
Peoria	2,816	10	947	1,859	10	1,365	117	2	69			
Phoenix	45,208	193	11,820	33,195	202	17,193	1,303	60	722			
Scottsdale	4,526	24	1,361	3,141	24	1,955	228	10	138			
Surprise	1,715	5	484	1,226	5	719	68	1	43			
Tempe	8,899	14	2,691	6,194	15	3,935	272	4	170			
Tolleson	422	2	103	317	2	161	13	1	12			
Wickenburg	166	0	39	127	0	67	2	0	2			
Youngtown	50	0	17	33	0	24	0	0	0			
Guadalupe	187	1	48	138	1	77	6	1	8			
Litchfield Park	32	0	11	21	0	23	0	0	0			
Queen Creek	533	1	117	415	1	159	14	0	9			
Fountain Hills	155	0	48	107	0	63	6	0	4			
Carefree	28	0	8	20	0	11	1	0	0			
TOTAL	97,105	428	26,583	70,094	446	38,571	3,224	122	1,859			

Mohave County	1,499	41	477	981	47	768	80	10	50
Kingman	686	1	165	520	1	221	20	1	5
Lake Havasu City	568	2	162	404	2	216	48	0	24
Bullhead City	447	7	118	322	7	177	19	0	10
Colorado City	3	0	2	1	0	5	0	0	0
TOTAL	3,203	51	924	2,228	57	1,387	167	11	89

### Crashes in Maricopa County accounted for 74.84% of all crashes and 46.98% of fatal crashes.

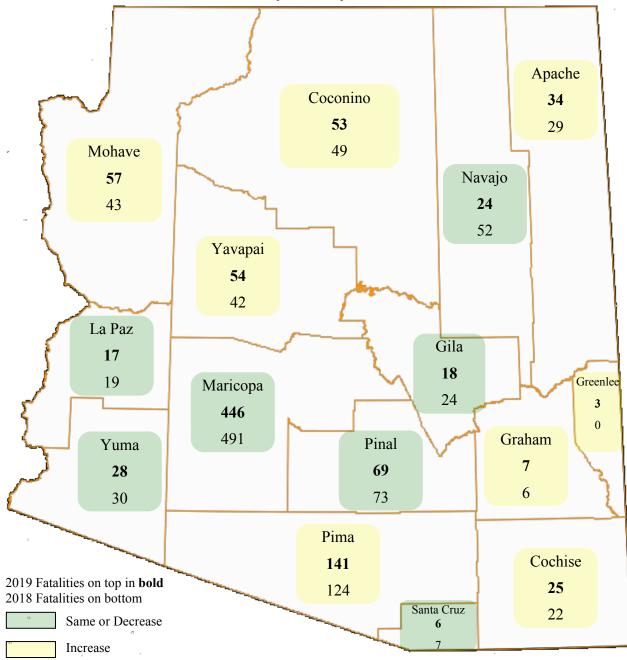
Analysis by Jurisdiction													
COUNTIES	Ν	Number o	of Crashe	s	No. of I	Persons	Alc	ohol Rela	ated				
Cities	Total	Fatal	Injury	PDO	Killed	Injured	Crashes	Killed	Injured				
Navajo County	608	22	169	417	22	262	43	4	34				
Holbrook	28	0	10	18	0	14	1	0	0				
Show Low	299	1	75	223	1	106	21	1	14				
Snowflake	53	0	18	35	0	27	8	0	7				
Taylor	43	0	10	33	0	20	4	0	1				
Winslow	107	1	23	83	1	33	15	0	5				
Pinetop-Lakeside	112	0	31	81	0	58	8	0	8				
TOTAL	1,250	24	336	890	24	520	100	5	69				
Pima County	2,021	43	648	1,330	51	981	124	26	104				
South Tucson	28	1	8	19	1	9	1	0	1				
Tucson	6,179	77	2,702	3,400	79	3,837	329	20	214				
Sahuarita	228	2	65	161	2	95	12	1	5				
Oro Valley	548	4	173	371	6	254	9	0	5				
Marana	846	2	196	648	2	273	41	0	14				
TOTAL	9,850	129	3,792	5,929	141	5,449	516	47	343				
								47					
Pinal County	2,085	39	597	1,449	45	923	107	9	93				
Casa Grande	831	8	244	579	10	345	56	6	30				
Coolidge	181	0	63	118	0	124	6	0	2				
Eloy	140	7	49	84	8	79	6	2	5				
Florence	103	2	47	54	2	72	1	1	0				
Kearny	6	0	3	3	0	6	1	0	2				
Mammoth	0	0	0	0	0	0	0	0	0				
Queen Creek	29	0	4	25	0	4	0	0	0				
Superior	6	0	4	2	0	6	0	0	0				
Apache Junction	594	1	195	398	1	262	30	0	27				
Maricopa	382	3	97	282	3	148	18	0	3				
TOTAL	4,357	60	1,303	2,994	69	1,969	225	18	162				
Santa Cruz County	280	4	57	219	4	73	10	1	3				
Nogales	142	2	22	118	2	35	3	0	1				
Patagonia	1	0	1	0	0	1	0	0	0				
TOTAL	423	6	80	337	6	109	13	1	4				
Yavapai County	1,787	40	552	1,195	43	827	90	7	72				
Clarkdale	21	0	6	15	0	12	4	0	2				
Cottonwood	233	0	73	160	0	96	5	0	2				
Jerome	13	0	7	6	0	7	2	0	1				
Peoria	2	0	1	1	0	1	0	0	0				
Prescott	715	2	211	502	2	296	31	0	17				
Prescott Valley	534	5	154	375	5	226	22	0	19				
Chino Valley	188	1	48	139	2	61	18	0	6				
Camp Verde	158	1	40	117	1	56	5	0	0				
Dewey-Humboldt	33	0	10	23	0	14	0	0	0				
Sedona	117	1	21	95	1	34	5	0	0				
Wickenburg	12	0	4	8	0	6	0	0	0				
TOTAL	3,813	50	1,127	2,636	54	1,636	182	7	119				

Table 2 – 5 Analysis by Jurisdiction

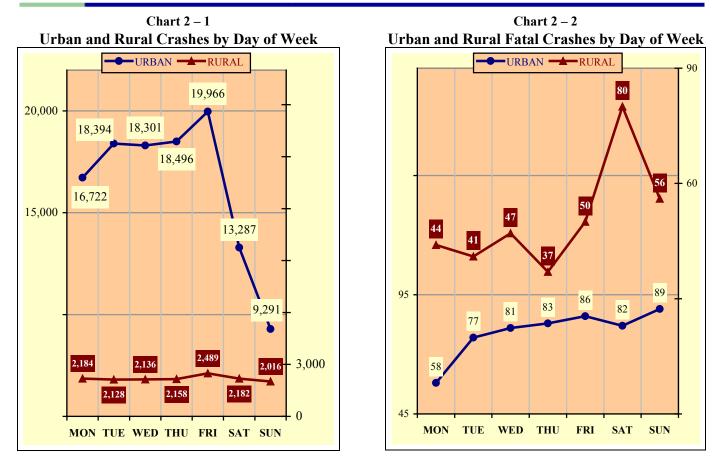
**T** 11 **A** 

Analysis by Jurisdiction														
COUNTIES	N	umber o	f Crashe	<b>S</b>	No. of I	Persons	Alc	ohol Rela	ated					
Cities	Total	Fatal	Injury	PDO	Killed	Injured	Crashes	Killed	Injured					
Yuma County	721	18	223	480	19	356	27	3	22					
Somerton	50	1	8	41	1	14	4	0	0					
Yuma	1,664	6	660	998	6	920	85	0	55					
Wellton	15	1	4	10	2	4	1	0	0					
San Luis	229	0	58	171	0	66	11	0	4					
TOTAL	2,679	26	953	1,700	28	1,360	128	3	81					

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



#### **Total Fatalities by County for 2018 and 2019**



**Chart 2 – 3** 

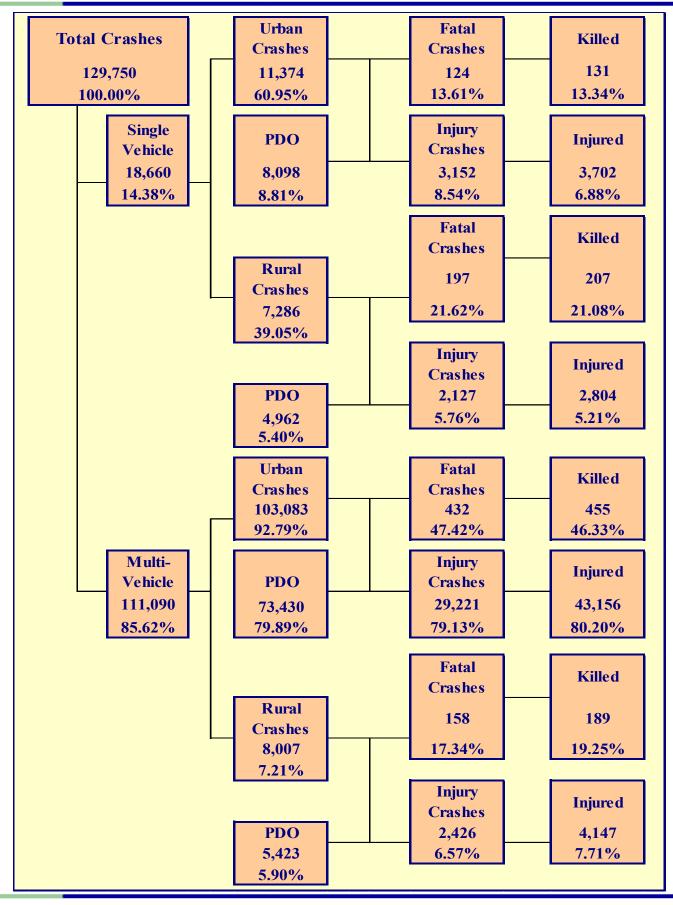
All Urban and Rural Crashes vs. Urban and Rural Fatal Crashes by Month



Page 16 – 2019 Arizona Crash Facts Summary

# **Section 3**

**Crash Descriptions** 



				Number o	of Crashes	·		
Manner of Collision Type	Total	Percent of Total Crashes	Fatal	Percent of Fatal Crashes	Injury	Percent of Injury Crashes	PDO	Percent of PDO Crashes
Angle	15,738	14.17%	78	13.22%	5,412	17.10%	10,248	13.00%
Left Turn	18,903	17.02%	69	11.69%	6,905	21.82%	11,929	15.13%
Rear End	47,936	43.15%	63	10.68%	13,491	42.63%	34,382	43.60%
Head-On	1,954	1.76%	60	10.17%	833	2.63%	1,061	1.35%
Sideswipe (same)	18,106	16.30%	20	3.39%	2,109	6.66%	15,977	20.26%
Sideswipe (opposite)	1,681	1.51%	12	2.03%	371	1.17%	1,298	1.65%
U-Turn	307	0.28%	5	0.85%	85	0.27%	217	0.28%
Other*	5,572	5.02%	272	46.10%	2,276	7.19%	3,024	3.83%
Unknown	893	0.80%	11	1.86%	165	0.52%	717	0.91%
TOTAL	111,090	100.00%	590	100.00%	31,647	100.00%	78,853	100.00%
*Other includes pedestrian and	pedalcy clist	crashes						

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

Table 3 – 2 Lighting Conditions

Type of Lighting	8	Number o	of Crashes		Number o	f Persons
Conditions	Total	Total Fatal Injury PD		PDO	Killed	Injured
Daylight	91,184	414	26,056	64,714	451	38,159
Dawn	2,442	17	675	1,750	17	896
Dusk	3,379	24	1,034	2,321	26	1,491
Dark - Lighted	24,964	219	7,131	17,614	231	10,303
Dark - Not Lighted	6,569	151	1,816	4,602	167	2,631
Dark - Unknown Lighting	425	25	65	335	26	88
Unknown	787	61	149	577	64	241
TOTAL	129,750	911	36,926	91,913	982	53,809

Table 3 – 3 Weather Conditions

weather Conditions													
Type of Weather		Number o	of Crashes		Number of Persons								
Conditions	Total	Fatal	Injury	PDO	Killed	Injured							
Clear	109,756	644	31,462	77,650	699	45,898							
Cloudy	11,799	82	3,397	8,320	86	4,973							
Sleet/Hail	219	1	62	156	1	81							
Rain	5,830	35	1,581	4,214	37	2,188							
Snow or Blowing Snow	715	2	132	581	2	192							
Severe Crosswinds	7	0	1	6	0	2							
Blowing Sand, Soil, Dirt	55	0	17	38	0	35							
Fog, Smog, Smoke	98	0	24	74	0	35							
Other	92	1	34	57	1	44							
Unknown	1,179	146	216	817	156	361							
TOTAL	129,750	911	36,926	91,913	982	53,809							

Road Surface Conditions													
Type of Road Surface		Number	of Drivers		Number o	of Persons							
Condition	Total	In Fatal Crashes	In Injury Crashes	In PDO Crashes	Killed	Injured							
Dry	235,347	1,110	68,540	165,697	775	50,015							
Wet	14,289	67	3,988	10,234	46	2,943							
Snow/Slush	1,178	5	233	940	3	210							
Ice/Frost	649	2	147	500	1	169							
Water (standing or moving)	350	2	99	249	2	96							
Mud, Dirt, Gravel, Sand	418	9	170	239	8	158							
Other	99	1	27	71	1	27							
Unknown	2,929	177	440	2,312	146	191							
TOTAL	255,259	1,373	73,644	180,242	982	53,809							

Table 3 – 4 Road Surface Conditions

Table 3 – 5 Roadway Grade

True of		Number of	of Drivers		Number of Persons								
Type of Roadway Grade	Total	In Fatal Crashes	In Injury Crashes	In PDO Crashes	Killed	Injured							
Level	238,991	1,014	68,921	169,056	700	49,917							
Downhill	7,433	109	2,375	4,949	85	2,095							
Uphill	6,003	66	1,884	4,053	47	1,568							
Hillcrest	50	0	8	42	0	6							
Sag/Dip/Bottom	86	0	29	57	0	26							
Unknown	2,696	184	427	2,085	150	197							
TOTAL	255,259	1,373	73,644	180,242	982	53,809							

Table 3 – 6 Roadway Alignment

Type of		Number o	of Drivers		Number of Persons			
Roadway Alignment	Total	In Fatal Crashes	In Injury Crashes	In PDO Crashes	Killed	Injured		
Straight	238,846	1,020	69,355	168,471	685	50,198		
Curve Left	6,265	87	1,717	4,461	74	1,588		
Curve Right	6,417	94	1,836	4,487	81	1,613		
Unknown	3,731	172	736	2,823	142	410		
TOTAL	255,259	1,373	73,644	180,242	982	53,809		

**Section 3: – Crash Descriptions** 

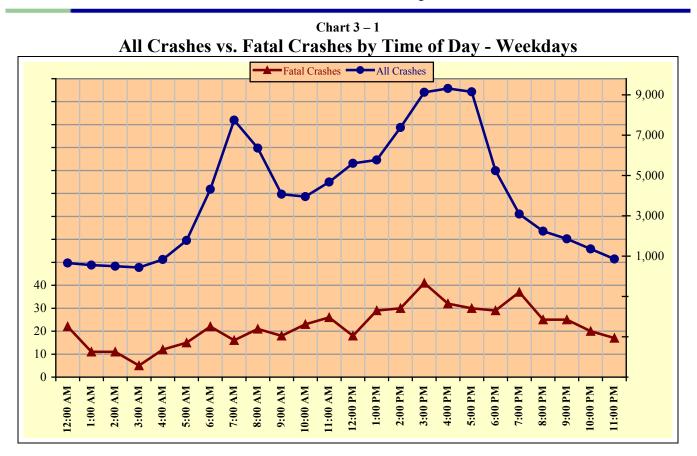
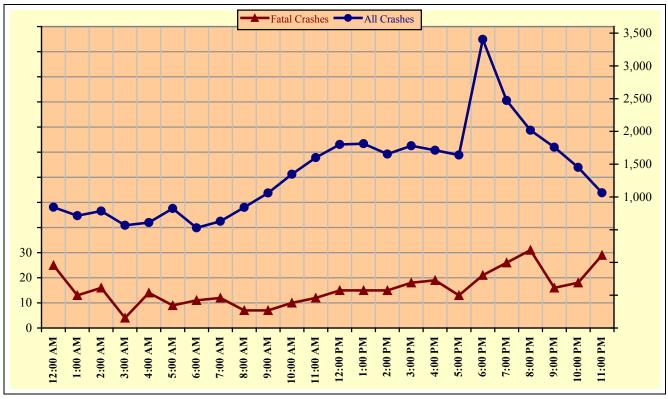


Chart 3 – 2 All Crashes vs. Fatal Crashes by Time of Day - Weekends



#### **Section 3: – Crash Descriptions**

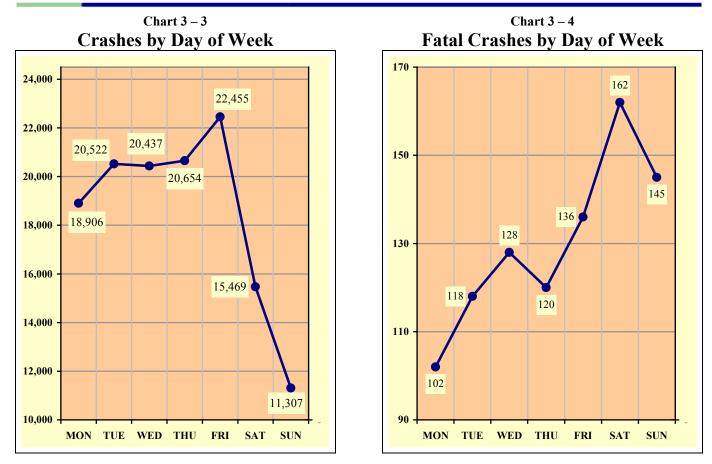


Chart 3 – 5 All Crashes vs. Fatal Crashes by Month



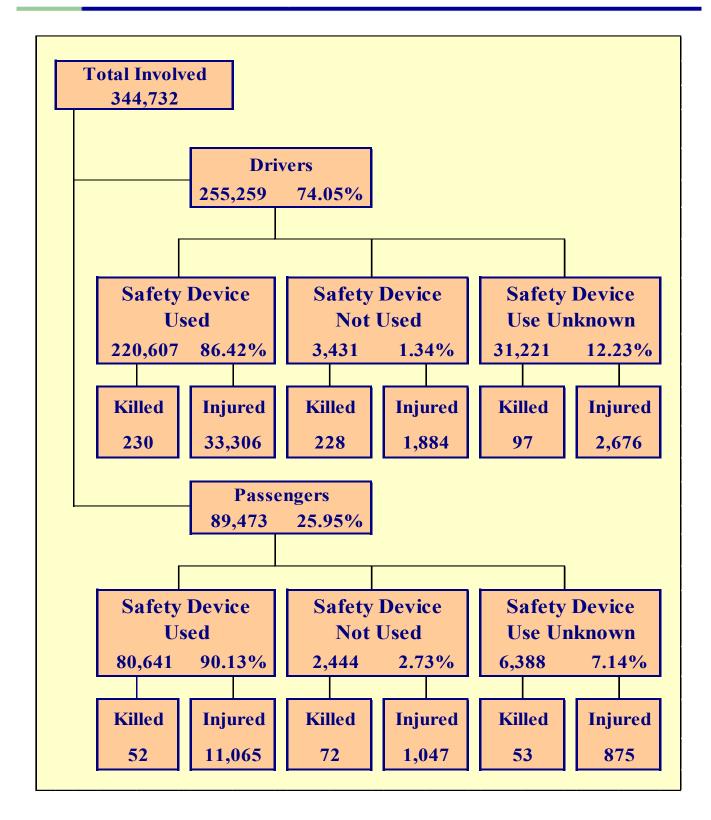
Page 21 – 2019 Arizona Crash Facts Summary

#### **Section 3: - Crash Descriptions**

Table 3 – 7 Crashes by Hour and Day of Week

Hour	Total Cr	ashes	Mon	day	Tues	day	Wedn	es day	Thur	s day	Frie	day	Satu	rday	Sun	day	Week	days	Week	ends
Beginning	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal
12:00 AM	1,499	47	191	7	160	7	154	7	155	4	187	4	301	8	351	10	656	22	843	25
1:00 AM	1,270	24	131	1	127	3	140	3	121	4	169	1	281	4	301	8	557	11	713	13
2:00 AM	1,282	27	124	0	112	0	102	1	123	4	160	6	334	9	327	7	497	11	785	16
3:00 AM	999	9	107	0	102	2	115	0	90	1	125	2	227	3	233	1	432	5	567	4
4:00 AM	1,444	26	191	3	166	3	234	3	213	3	221	3	215	4	204	7	834	12	610	14
5:00 AM	2,604	24	422	3	461	7	464	3	443	2	411	3	231	3	172	3	1,779	15	825	9
6:00 AM	4,844	33	813	2	919	6	945	6	894	3	744	5	293	6	236	5	4,315	22	529	11
7:00 AM	8,371	28	1,515	4	1,690	2	1,547	2	1,603	6	1,387	2	380	5	249	7	7,742	16	629	12
8:00 AM	7,198	28	1,227	5	1,352	5	1,410	4	1,253	7	1,115	0	506	4	335	3	6,357	21	841	7
9:00 AM	5,130	25	737	3	878	3	864	3	808	5	782	4	658	3	403	4	4,069	18	1,061	7
10:00 AM	5,296	33	785	3	760	4	799	7	760	3	845	6	818	6	529	4	3,949	23	1,347	10
11:00 AM	6,272	38	872	4	868	3	902	9	902	6	1,128	4	956	3	644	9	4,672	26	1,600	12
12:00 PM	7,406	33	1,024	1	1,090	4	1,125	5	1,060	3	1,306	5	1,085	5	716	10	5,605	18	1,801	15
1:00 PM	7,585	44	1,027	9	1,084	5	1,127	5	1,104	3	1,430	7	1,078	6	735	9	5,772	29	1,813	15
2:00 PM	9,034	45	1,348	3	1,496	5	1,423	7	1,424	9	1,689	6	969	9	685	6	7,380	30	1,654	15
3:00 PM	10,904	59	1,666	8	1,869	7	1,695	5	1,874	12	2,020	9	1,015	9	765	9	9,124	41	1,780	18
4:00 PM	11,028	51	1,616	6	1,934	6	1,822	3	1,969	11	1,975	6	1,002	11	710	8	9,316	32	1,712	19
5:00 PM	10,787	43	1,697	3	1,869	7	1,880	8	1,916	4	1,786	8	933	8	706	5	9,148	30	1,639	13
6:00 PM	8,643	50	1,174	5	1,321	7	1,382	8	1,362	9	1,580	8	1,045	7	779	6	5,239	29	3,404	21
7:00 PM	5,556	63	722	6	745	6	774	17	843	8	1,007	7	852	9	613	10	3,084	37	2,472	26
8:00 PM	4,258	56	549	7	557	10	576	5	559	3	752	11	703	13	562	7	2,241	25	2,017	31
9:00 PM	3,615	41	469	9	432	7	439	8	515	1	664	9	606	5	490	2	1,855	25	1,760	16
10:00 PM	2,805	38	303	5	329	5	311	6	411	4	549	7	570	9	332	2	1,354	20	1,451	18
11:00 PM	1,920	46	196	5	201	4	207	3	252	5	423	13	411	13	230	3	856	17	1,064	29
TOTAL	129,750	911	18,906	102	20,522	118	20,437	128	20,654	120	22,455	136	15,469	162	11,307	145	96,833	535	32,917	376

Crashes during Weekends accounted for 25.37% of all crashes and 41.27% of Fatal Crashes.



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	10,066	91.05%	91	63.19%	179	74.58%	
Unknown Injury	168	1.52%	4	2.78%	35	14.58%	
Possible Injury	558	5.05%	22	15.28%	13	5.42%	
Suspected Minor Injury	234	2.12%	15	10.42%	8	3.33%	
Suspected Serious Injury	24	0.22%	11	7.64%	4	1.67%	
Fatal Injury	5	0.05%	1	0.69%	1	0.42%	
TOTALS	11,055	100.00%	144	100.00%	240	100.00%	

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

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	185,166	83.93%	1,267	36.93%	17,412	55.77%
Unknown Injury	1,905	0.86%	52	1.52%	11,036	35.35%
Possible Injury	18,890	8.56%	526	15.33%	1,160	3.72%
Suspected Minor Injury	13,017	5.90%	872	25.42%	1,125	3.60%
Suspected Serious Injury	1,399	0.63%	486	14.16%	391	1.25%
Fatal Injury	230	0.10%	228	6.65%	97	0.31%
TOTALS	220,607	100.00%	3,431	100.00%	31,221	100.00%

Table 4 – 3 Passenger Safety Device Usage

i ussenger survey							
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	68,544	85.00%	1,278	52.29%	4,608	72.14%	
Unknown Injury	980	1.22%	47	1.92%	852	13.34%	
Possible Injury	6,718	8.33%	369	15.10%	439	6.87%	
Suspected Minor Injury	3,898	4.83%	461	18.86%	324	5.07%	
Suspected Serious Injury	449	0.56%	217	8.88%	112	1.75%	
Fatal Injury	52	0.06%	72	2.95%	53	0.83%	
TOTALS	80,641	100.00%	2,444	100.00%	6,388	100.00%	

	Number of Drivers							
Gender of Driver	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	Total	Percent of Total
Male	124,574	56.47%	2,427	70.74%	9,861	31.58%	136,862	53.62%
Female	95,876	43.46%	972	28.33%	4,818	15.43%	101,666	39.83%
Unknown	157	0.07%	32	0.93%	16,542	52.98%	16,731	6.55%
TOTAL	220,607	100.00%	3,431	100.00%	31,221	100.00%	255,259	100.00%

 Table 4 – 4

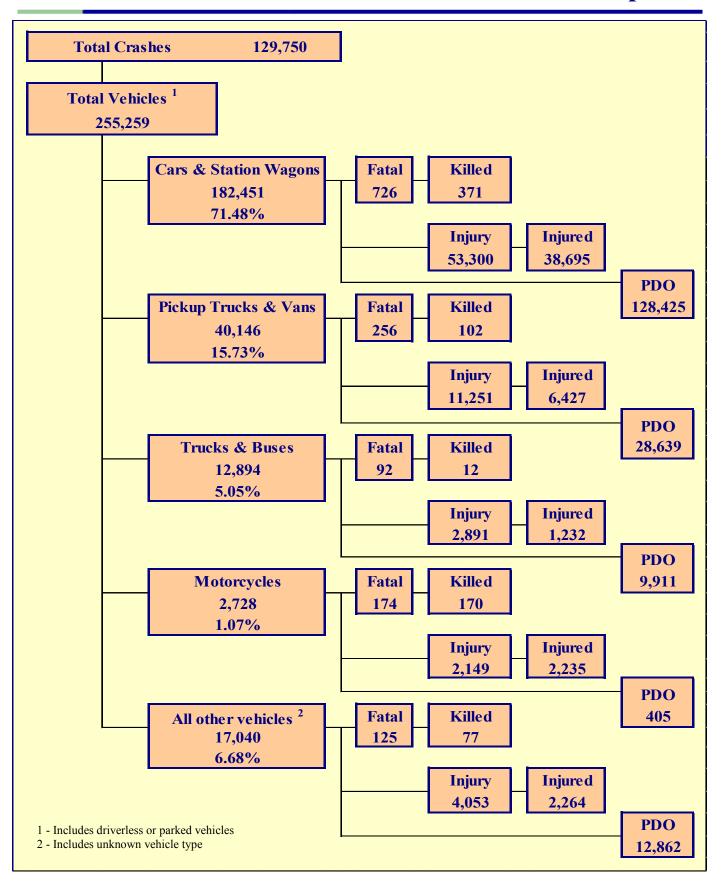
 Driver Safety Device Usage by Gender

Driver Safety Device Usage by Age								
	Number of Drivers							
Driver Age Group	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	Total	Percent of Total
15 & Under	226	0.10%	30	0.87%	51	0.16%	307	0.12%
16	3,168	1.44%	42	1.22%	170	0.54%	3,380	1.32%
17	4,548	2.06%	73	2.13%	221	0.71%	4,842	1.90%
18	5,868	2.66%	94	2.74%	356	1.14%	6,318	2.48%
19	6,233	2.83%	123	3.58%	330	1.06%	6,686	2.62%
20	6,223	2.82%	96	2.80%	347	1.11%	6,666	2.61%
21	6,172	2.80%	110	3.21%	362	1.16%	6,644	2.60%
22	6,013	2.73%	132	3.85%	390	1.25%	6,535	2.56%
23	5,955	2.70%	116	3.38%	407	1.30%	6,478	2.54%
24	5,789	2.62%	111	3.24%	362	1.16%	6,262	2.45%
25-34	50,547	22.91%	884	25.77%	3,135	10.04%	54,566	21.38%
35-44	37,792	17.13%	550	16.03%	2,208	7.07%	40,550	15.89%
45-54	31,801	14.42%	379	11.05%	1,811	5.80%	33,991	13.32%
55-64	26,286	11.92%	336	9.79%	1,438	4.61%	28,060	10.99%
65-74	15,147	6.87%	190	5.54%	824	2.64%	16,161	6.33%
75 & Older	8,064	3.66%	101	2.94%	447	1.43%	8,612	3.37%
Unknown	775	0.35%	64	1.87%	18,362	58.81%	19,201	7.52%
TOTAL	220,607	100.00%	3,431	100.00%	31,221	100.00%	255,259	100.00%

Table 4 – 5 Driver Safety Device Usage by Age

Section 5

# **Motor Vehicle and Driver Descriptions**



Alizona Motor venicie Registrations						
Privately Owned Vehicles	5,365,435					
Commercial Vehicles	591,369					
Buses and Taxis	697					
Motorcycles	209,719					
Mopeds	261					
TOTAL 6,167,481						
Source: MVD - MV988 MV630419, Currently Registered Vehicles by County Listing, dated 12/31/2019.						

<b>Arizona Motor Vehicle Registrations</b>	<b>Table 5 – 1</b>	
	Arizona Motor Vehicle Registration	ns

	Table 5 – 2
<b>Motor Vehicle Crash</b>	<b>Involvement by Vehicle Type</b>

		Number of Vehicles					
Motor Vehicle Type	Total	Percent of Total	In Fatal Crashes	In Injury Crashes	In PDO Crashes		
Passenger Cars (Sedans, Convertibles, etc.)	127,345	49.889%	444	36,743	90,158		
Station Wagons	55,106	21.588%	282	16,557	38,267		
Pickup Trucks	34,802	13.634%	222	9,670	24,910		
Vans	5,344	2.094%	34	1,581	3,729		
Truck Tractor (with or without Semi-Trailer)	1,912	0.749%	60	414	1,438		
Concrete Mixer Trucks	46	0.018%	0	8	38		
Dump Trucks	202	0.079%	2	49	151		
Garbage Trucks	123	0.048%	3	26	94		
Tanker Trucks	47	0.018%	1	7	39		
Wrecker or Tow Trucks	98	0.038%	4	22	72		
Other Truck Combinations	9,471	3.710%	16	2,139	7,316		
School Bus	131	0.051%	2	28	101		
Commercial or Non-Commercial Bus	864	0.338%	4	198	662		
Motorcycle (two or three wheel)	2,728	1.069%	174	2,149	405		
All Terrain Vehicle or Cycle	220	0.086%	20	117	83		
Golf Carts	76	0.030%	5	40	31		
Moped	29	0.011%	2	24	3		
Recreational Vehicle	222	0.087%	4	36	182		
Motor Home or House Car	86	0.034%	2	18	66		
Fire Trucks	47	0.018%	1	10	36		
Ambulances	64	0.025%	0	13	51		
Other Types Of Vehicles	96	0.038%	0	28	68		
Vehicle Type Unknown	16,200	6.346%	91	3,767	12,342		
TOTAL	255,259	100.00%	1,373	73,644	180,242		

## Section 5: - Motor Vehicle and Driver Descriptions

Table 5 – 3         Hit and Run Drivers Involved in Crashes									
Hit and Run		Number o	Number of Persons						
	Total	Fatal	Injury	PDO	Killed	Injured			
Yes	15,050	59	2,720	12,271	62	3,459			
No	114,700	852	34,206	79,642	920	50,350			
TOTAL	129,750	911	36,926	91,913	982	53,809			

# Table 5 – 4Gender of Drivers Involved in Crashes

Gender of		Number of Drivers							
Driver	Total	Percent of Total	In Fatal Crashes	Percent of Fatal	In Injury Crashes	Percent of Injury	In PDO Crashes	Percent of PDO	
Male	136,862	53.62%	904	65.84%	39,833	54.09%	96,125	53.33%	
Female	101,666	39.83%	369	26.88%	31,230	42.41%	70,067	38.87%	
Unknown	16,731	6.55%	100	7.28%	2,581	3.50%	14,050	7.80%	
TOTAL	255,259	100.00%	1,373	100.00%	73,644	100.00%	180,242	100.00%	

	Table 5 –	- 5	
<b>License Status</b>	of Drivers	Involved	in Crashes

License		Number of Drivers									
Status of Driver	Total	Percent of Total	In Fatal Crashes	Percent of Fatal	In Injury Crashes	Percent of Injury	In PDO Crashes	Percent of PDO			
Arizona License	192,122	75.27%	1,006	73.27%	57,209	77.68%	133,907	74.29%			
All Others*	63,137	24.73%	367	26.73%	16,435	22.32%	46,335	25.71%			
TOTAL	255,259	100.00%	1,373	100.00%	73,644	100.00%	180,242	100.00%			
¥T. 1 1. 1.	1		.1.1.4.	C	1.		:	1			

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

	<b>Table 5 – 6</b>	
Passengers Killed and Injured by Age and Gender	Passengers Killed and Injured by Age an	d Gender

Age of		Passenge	ers Killed		Passengers Injured			
Passenger	Total	Male	Female	Gender Unknown	Total	Male	Female	Gender Unknown
0-4	7	3	4	0	722	364	358	0
5-9	5	1	4	0	983	485	498	0
10-14	9	5	4	0	1,157	505	652	0
15-19	24	12	12	0	1,845	753	1,092	0
20-24	25	17	8	0	1,363	526	837	0
25-34	17	10	7	0	1,760	696	1,064	0
35-44	16	11	5	0	1,215	423	792	0
45-54	17	8	9	0	1,162	351	811	0
55-64	22	5	17	0	1,033	274	759	0
65-74	12	3	9	0	827	194	633	0
75 & Older	22	10	12	0	557	142	415	0
Unknown	1	0	0	1	363	128	202	33
TOTAL	177	85	91	1	12,987	4,841	8,113	33

Drivers and Passengers Killed and Injured by Vehicle Type							
	Number	of Drivers	Number of	Passengers			
Motor Vehicle Type	Killed	Injured	Killed	Injured			
Passenger Cars (Sedans, Convertibles, etc.)	164	20,277	63	6,548			
Station Wagons	98	8,438	46	3,432			
Pickup Trucks	61	3,946	22	1,392			
Vans	12	674	7	415			
Truck Tractor (with or without Semi-Trailer)	8	94	2	11			
Concrete Mixer Trucks	0	1	0	0			
Dump Trucks	0	11	0	2			
Garbage Trucks	0	4	0	0			
Tanker Trucks	0	1	0	0			
Wrecker or Tow Trucks	0	7	0	1			
Other Truck Combinations	0	675	1	229			
School Bus	0	5	0	4			
Commercial or Non-Commercial Bus	0	37	1	150			
Motorcycle (two or three wheel)	164	2,105	6	130			
All Terrain Vehicle or Cycle	16	88	3	49			
Golf Carts	3	30	2	5			
Moped	2	23	0	3			
Recreational Vehicle	2	19	2	16			
Motor Home or House Car	0	4	0	2			
Fire Trucks	0	1	0	6			
Ambulances	0	5	0	5			
Other Types Of Vehicles	0	14	0	1			
Vehicle Type Unknown	25	1,407	22	586			
TOTAL	555	37,866	177	12,987			

 Table 5 – 7

 Drivers and Passengers Killed and Injured by Vehicle Type

 Table 5 – 8

 Drivers Killed and Injured by Age and Gender

Driver's Kineu and Injureu by Age and Ochuer							
Age of	Drivers Killed Drivers Injured						
Driver	Total	Male	Female	Total	Male	Female	Gender Unknown
0-4	0	0	0	0	0	0	0
5-9	0	0	0	1	1	0	0
10-14	1	1	0	25	20	5	0
15-19	28	20	8	3,040	1,490	1,550	0
20-24	53	42	11	4,958	2,517	2,441	0
25-34	104	77	27	8,789	4,293	4,496	0
35-44	90	69	21	6,280	3,151	3,129	0
45-54	72	54	18	5,451	2,741	2,710	0
55-64	80	64	16	4,703	2,485	2,218	0
65-74	64	54	10	2,835	1,481	1,354	0
75 & Older	62	42	20	1,625	870	755	0
Unknown	1	1	0	159	71	37	51
TOTAL	555	424	131	37,866	19,120	18,695	51

					<i>i</i> 0	•	
Driver	Male	Percent of	Female	Percent of	Total	Percent of	Cumulative
Age Group	Number	Male	Number	Female	Number	Total	Percent
16	12,634	0.47%	12,880	0.48%	25,514	0.47%	0.47%
17	21,762	0.81%	21,288	0.79%	43,050	0.80%	1.28%
18	29,258	1.09%	27,755	1.03%	57,013	1.06%	2.34%
19	35,359	1.32%	33,240	1.24%	68,599	1.28%	3.61%
20	37,244	1.39%	35,301	1.31%	72,545	1.35%	4.96%
21	39,675	1.48%	37,347	1.39%	77,022	1.43%	6.39%
22	41,211	1.53%	38,569	1.43%	79,780	1.48%	7.88%
23	42,275	1.57%	40,473	1.50%	82,748	1.54%	9.42%
24	42,982	1.60%	41,679	1.55%	84,661	1.57%	10.99%
25-34	471,001	17.54%	464,729	17.28%	935,730	17.41%	28.40%
35-44	466,917	17.38%	462,483	17.20%	929,400	17.29%	45.69%
45-54	467,303	17.40%	449,443	16.71%	916,746	17.05%	62.75%
55-64	460,883	17.16%	472,095	17.55%	932,978	17.36%	80.10%
65-74	319,264	11.89%	344,707	12.82%	663,971	12.35%	92.45%
75 & older	198,205	7.38%	207,379	7.71%	405,584	7.55%	100.00%
TOTALS	2,685,973	100.00%	2,689,368	100.00%	5,375,341	100.00%	100.00%
Source: MVD - M Class (page 19), da		653-1, Point-i	n-Time Drive	r Credential Re	port/All Drive	er Licenses by	Age, Gender, &

Table 5 – 9 Licensed Drivers in Arizona by Age

	Driver Involvement by Age								
D · · ·				Number of	f Drivers				
Driver Age Group	Total	Percent of Total	In Fatal Crashes	Percent of Fatal	In Injury Crashes	Percent of Injury	In PDO Crashes	Percent of PDO	
15 & Under	307	0.12%	2	0.15%	116	0.16%	189	0.10%	
16	3,380	1.32%	11	0.80%	913	1.24%	2,456	1.36%	
17	4,842	1.90%	11	0.80%	1,302	1.77%	3,529	1.96%	
18	6,318	2.48%	20	1.46%	1,781	2.42%	4,517	2.51%	
19	6,686	2.62%	27	1.97%	1,996	2.71%	4,663	2.59%	
20	6,666	2.61%	27	1.97%	1,917	2.60%	4,722	2.62%	
21	6,644	2.60%	29	2.11%	2,021	2.74%	4,594	2.55%	
22	6,535	2.56%	28	2.04%	1,849	2.51%	4,658	2.58%	
23	6,478	2.54%	29	2.11%	1,820	2.47%	4,629	2.57%	
24	6,262	2.45%	31	2.26%	1,784	2.42%	4,447	2.47%	
25-34	54,566	21.38%	256	18.65%	16,366	22.22%	37,944	21.05%	
35-44	40,550	15.89%	208	15.15%	11,986	16.28%	28,356	15.73%	
45-54	33,991	13.32%	176	12.82%	10,212	13.87%	23,603	13.10%	
55-64	28,060	10.99%	191	13.91%	8,558	11.62%	19,311	10.71%	
65-74	16,161	6.33%	125	9.10%	5,019	6.82%	11,017	6.11%	
75 & Older	8,612	3.37%	97	7.06%	2,838	3.85%	5,677	3.15%	
Unknown	19,201	7.52%	105	7.65%	3,166	4.30%	15,930	8.84%	
TOTAL	255,259	100.00%	1,373	100.00%	73,644	100.00%	180,242	100.00%	

Table 5 – 10Driver Involvement by Age

Driver violations										
				Number	of Drive	rs				
Type of Violation or Behavior	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	126,454	49.54%	519	37.80%	37,339	50.70%	88,596	49.15%		
Speed too Fast for Conditions	43,041	16.86%	194	14.13%	13,118	17.81%	29,729	16.49%		
Exceeded Lawful Speed	1,075	0.42%	50	3.64%	436	0.59%	589	0.33%		
Failed to Yield Right-Of-Way	21,915	8.59%	83	6.05%	7,665	10.41%	14,167	7.86%		
Followed Too Closely	8,856	3.47%	6	0.44%	2,276	3.09%	6,574	3.65%		
Ran Stop Sign	1,230	0.48%	22	1.60%	489	0.66%	719	0.40%		
Disregarded Traffic Signal	4,897	1.92%	22	1.60%	2,105	2.86%	2,770	1.54%		
Made Improper Turn	5,410	2.12%	17	1.24%	1,326	1.80%	4,067	2.26%		
Drove in Opposing Lane	465	0.18%	8	0.58%	175	0.24%	282	0.16%		
Drove Left of Center Line	521	0.20%	30	2.18%	200	0.27%	291	0.16%		
Passed in No-Passing Zone	114	0.04%	8	0.58%	18	0.02%	88	0.05%		
Unsafe Lane Change	9,564	3.75%	25	1.82%	1,316	1.79%	8,223	4.56%		
Failed to Keep in Proper Lane	4,990	1.95%	63	4.59%	1,103	1.50%	3,824	2.12%		
Crossed Median	93	0.04%	8	0.58%	48	0.07%	37	0.02%		
Aggressive Driving	135	0.05%	4	0.29%	38	0.05%	93	0.05%		
Wrong Way Driving	69	0.03%	9	0.66%	30	0.04%	30	0.02%		
Other	6,782	2.66%	33	2.40%	1,623	2.20%	5,126	2.84%		
Unknown	19,648	7.70%	272	19.81%	4,339	5.89%	15,037	8.34%		
TOTAL	255,259	100.00%	1,373	100.00%	73,644	100.00%	180,242	100.00%		

Table 5 – 11 Driver Violations

Table 5 – 12 Driver Physical Condition

		Ľ		Number	of Driver	S		
Type of Condition	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	223,343	87.50%	710	51.71%	64,880	88.10%	157,753	87.52%
Alcohol	4,740	1.86%	178	12.96%	1,853	2.52%	2,709	1.50%
Illegal Drugs	632	0.25%	78	5.68%	256	0.35%	298	0.17%
Medications	203	0.08%	8	0.58%	90	0.12%	105	0.06%
Marijuana	113	0.04%	30	2.18%	39	0.05%	44	0.02%
Illness or Physical Impairment	911	0.36%	9	0.66%	464	0.63%	438	0.24%
Fell Asleep or Fatigued	1,696	0.66%	12	0.87%	673	0.91%	1,011	0.56%
Other	1,187	0.47%	11	0.80%	322	0.44%	854	0.47%
Unknown	22,434	8.79%	337	24.54%	5,067	6.88%	17,030	9.45%
TOTAL	255,259	100.00%	1,373	100.00%	73,644	100.00%	180,242	100.00%

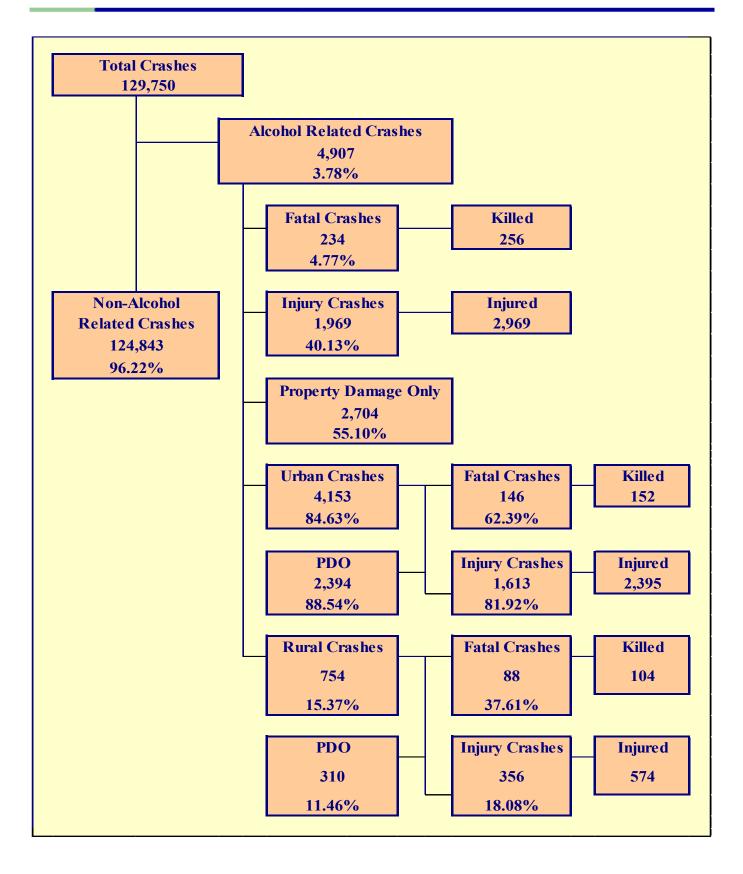
			l	Number o	of Drivers		-	
Type of Distraction	Total	Percent of Total	In Fatal Crashes	Percent of Fatal	In Injury Crashes	Percent of Injury	In PDO Crashes	Percent of PDO
Not Distracted	193,867	75.95%	592	43.12%	56,129	76.22%	137,146	76.09%
Talking on Hands Free Device	191	0.07%	0	0.00%	56	0.08%	135	0.07%
Talking on Hand Held Device	344	0.13%	3	0.22%	101	0.14%	240	0.13%
Passenger	746	0.29%	5	0.36%	247	0.34%	494	0.27%
Other Activity with an Electronic Device	1,392	0.55%	6	0.44%	429	0.58%	957	0.53%
Manually Operating an Electronic Device	801	0.31%	1	0.07%	253	0.34%	547	0.30%
Other Inside the Vehicle (eating, drinking, etc.)	2,933	1.15%	11	0.80%	990	1.34%	1,932	1.07%
Outside the Vehicle (includes unspecified distractions)	2,624	1.03%	12	0.87%	810	1.10%	1,802	1.00%
Distracted Unknown Reason	1,460	0.57%	9	0.66%	500	0.68%	951	0.53%
Unknown	50,901	19.94%	734	53.46%	14,129	19.19%	36,038	19.99%
TOTAL	255,259	100.00%	1,373	100.00%	73,644	100.00%	180,242	100.00%

Table 5 – 13Distracted Driving Behavior

#### Table 5 – 14

## **Secondary Crashes**

Secondary crushes									
Secondary		Number o	of Crashes		Number o	of Persons			
Crash	Total	Fatal	Injury	PDO	Killed	Injured			
Yes	2,367	14	803	1,550	17	1,326			
No	100,211	808	28,778	70,625	870	41,732			
Unknown	27,172	89	7,345	19,738	95	10,751			
TOTAL	129,750	911	36,926	91,913	982	53,809			



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.

Economic	Table 6 – 1         Economic Loss Due to Alcohol Related Crashes in Arizona for 2019										
	Fatalities	\$2,435,934,976									
	Suspected Serious Injuries	s \$277,451,496									
	Suspected Minor Injuries	\$191,336,356									
	Possible Injuries	\$121,917,390									
	Property Damage Only	\$28,878,720									
	TOTAL	\$3,055,518,938									

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
2015	5,016	4.29%	329	36.68%	3,285	6.10%
2016	4,961	3.90%	302	31.72%	3,347	5.88%
2017	4,917	3.85%	325	32.57%	3,177	5.68%
2018	4,702	3.68%	265	26.21%	3,001	5.59%
2019	4,907	3.78%	256	26.07%	2,969	5.52%

 Table 6 – 3

 Manner of Collision in Alcohol Related Crashes

				Number of	of Crashe	s		
Manner of Collision Type	Total	Percent of All Crashes	Fatal	Percent of Fatal Crashes	Injury	Percent of Injury Crashes	PDO	Percent of PDO Crashes
Angle	432	14.59%	14	10.14%	193	15.61%	225	14.19%
Left Turn	297	10.03%	7	5.07%	150	12.14%	140	8.83%
Rear End	1,240	41.89%	17	12.32%	503	40.70%	720	45.40%
Head-On	229	7.74%	18	13.04%	107	8.66%	104	6.56%
Sideswipe (same)	321	10.84%	2	1.45%	81	6.55%	238	15.01%
Sideswipe (opposite)	118	3.99%	1	0.72%	39	3.16%	78	4.92%
U-Turn	7	0.24%	1	0.72%	3	0.24%	3	0.19%
Other*	294	9.93%	75	54.35%	148	11.97%	71	4.48%
Unknown	22	0.74%	3	2.17%	12	0.97%	7	0.44%
TOTAL	2,960	100.00%	138	100.00%	1,236	100.00%	1,586	100.00%
Note: Includes only multi-vehicle alcohol related crashes *Other includes pedestrian and pedalcyclist crashes								

Alcohol Related Crashes by First Harmful Event										
Einet Harmeful Errord True a		Number o	of Crashes		Number of Persons					
First Harmful Event Type	Total	Fatal	Injury	PDO	Killed	Injured				
Collision with Motor Vehicle in Transport	2,312	64	980	1,268	82	1,747				
Overturning	222	35	135	52	36	204				
Collision with Pedestrian	180	67	113	0	67	126				
Collision with Pedalcyclist	31	2	29	0	2	30				
Collision with Animal	8	1	3	4	1	3				
Collision with Fixed Object	1,693	56	600	1,037	59	724				
Collision with Non-fixed Object*	400	6	90	304	6	108				
Vehicle Fire or Explosion	3	0	0	3	0	0				
Other Non-collision**	1	1	0	0	1	0				
Unknown	57	2	19	36	2	27				
TOTAL	4,907	234	1,969	2,704	256	2,969				
*Includes Collision with Parked Vehicles, Trains, Railway Vehicles, and Work Zone Equipment										
**Includes Vehicle Immersion, Jackknife, and Cargo Loss	or Shift									

 Table 6 – 4

 Alcohol Related Crashes by First Harmful Event

Activity Related Crashes by Venice Type									
		Numb	er of Vehicl	es					
Motor Vehicle Type		Percent of	In Fatal	In Injury	In PDO				
С ж	Total	Total	Crashes	Crashes	Crashes				
Passenger Cars (Sedans, Convertibles, etc.)	2,546	53.713%	56	972	1,518				
Station Wagons	941	19.852%	30	367	544				
Pickup Trucks	759	16.013%	38	296	425				
Vans	52	1.097%	2	16	34				
Truck Tractor (with or without Semi-Trailer)	2	0.042%	0	1	1				
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	0	0.000%	0	0	0				
Other Truck Combinations	111	2.342%	0	31	80				
School Bus	0	0.000%	0	0	0				
Commercial or Non-Commercial Bus	0	0.000%	0	0	0				
Motorcycle (two or three wheel)	132	2.785%	37	88	7				
All Terrain Vehicle or Cycle	15	0.316%	7	6	2				
Golf Carts	5	0.105%	1	3	1				
Moped	2	0.042%	2	0	0				
Recreational Vehicle	2	0.042%	0	0	2				
Motor Home or House Car	2	0.042%	0	0	2				
Fire Trucks	0	0.000%	0	0	0				
Ambulances	0	0.000%	0	0	0				
Other Types Of Vehicles	1	0.021%	0	0	1				
Vehicle Type Unknown	170	3.586%	5	73	92				
TOTAL	4,740	100.00%	178	1,853	2,709				

 Table 6 – 5

 Alcohol Related Crashes by Vehicle Type

### **Section 6: – Alcohol Related Crashes**

Lighting Conditions in Alconor Related Crashes										
Type of Lighting		Number o		Number of Persons						
Conditions	Total	Fatal	Injury	PDO	Killed	Injured				
Daylight	1,472	58	608	806	69	944				
Dawn	65	2	31	32	2	38				
Dusk	136	3	63	70	3	109				
Dark - Lighted	2,430	88	937	1,405	93	1,371				
Dark - Not Lighted	728	64	306	358	68	465				
Dark - Unknown Lighting	40	9	12	19	9	17				
Unknown	36	10	12	14	12	25				
TOTAL	4,907	234	1,969	2,704	256	2,969				

 Table 6 - 6

 Lighting Conditions in Alcohol Related Crashes

**Table 6 – 7** 

# **Road Surface Conditions in Alcohol Related Crashes**

		Number o	Number of Persons			
Type of Road Surface Condition	Total	In Fatal Crashes	In Injury Crashes	In PDO Crashes	Killed	Injured
Dry	4,388	143	1,722	2,523	203	2,743
Wet	267	9	107	151	13	174
Snow/Slush	9	1	1	7	1	1
Ice/Frost	11	0	6	5	0	12
Water (standing or moving)	6	1	2	3	1	4
Mud, Dirt, Gravel, Sand	23	5	10	8	5	13
Other	2	0	0	2	0	2
Unknown	34	19	5	10	33	20
TOTAL	4,740	178	1,853	2,709	256	2,969

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

Gender of	Number of Drivers											
Driver	Total	Percent of Total	In Fatal Crashes	Percent of Fatal	In Injury Crashes	Percent of Injury	In PDO Crashes	Percent of PDO				
Male	3,429	72.34%	140	78.65%	1,355	73.12%	1,934	71.39%				
Female	1,290	27.22%	36	20.22%	492	26.55%	762	28.13%				
Unknown	21	0.44%	2	1.12%	6	0.32%	13	0.48%				
TOTAL	4,740	100.00%	178	100.00%	1,853	100.00%	2,709	100.00%				

In total crashes across the state, 53.62% of the drivers were males. When alcohol was involved, males accounted for 72.34% of the drivers.

## **Section 6: – Alcohol Related Crashes**

Driver Involvement by Age in Alcohol Related Crashes											
Driver				Number of	of Drivers						
Age Group	Total	Percent of Total	In Fatal Crashes	Percent of Fatal	In Injury Crashes	Percent of Injury	In PDO Crashes	Percent of PDO			
15 & Under	2	0.04%	0	0.00%	1	0.05%	1	0.04%			
16	11	0.23%	0	0.00%	4	0.22%	7	0.26%			
17	27	0.57%	2	1.12%	13	0.70%	12	0.44%			
18	61	1.29%	1	0.56%	20	1.08%	40	1.48%			
19	75	1.58%	1	0.56%	23	1.24%	51	1.88%			
20	102	2.15%	3	1.69%	42	2.27%	57	2.10%			
21	176	3.71%	7	3.93%	66	3.56%	103	3.80%			
22	176	3.71%	5	2.81%	69	3.72%	102	3.77%			
23	200	4.22%	3	1.69%	76	4.10%	121	4.47%			
24	200	4.22%	8	4.49%	84	4.53%	108	3.99%			
25-34	1,471	31.03%	49	27.53%	585	31.57%	837	30.90%			
35-44	886	18.69%	39	21.91%	347	18.73%	500	18.46%			
45-54	609	12.85%	27	15.17%	226	12.20%	356	13.14%			
55-64	469	9.89%	18	10.11%	197	10.63%	254	9.38%			
65-74	185	3.90%	13	7.30%	66	3.56%	106	3.91%			
75 & Older	47	0.99%	0	0.00%	19	1.03%	28	1.03%			
Unknown	43	0.91%	2	1.12%	15	0.81%	26	0.96%			
TOTAL	4,740	100.00%	178	100.00%	1,853	100.00%	2,709	100.00%			

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

#### Table 6 – 10

When Alcohol Related Crashes Occurred in 2019

Time of Day	Total	Weekday	Weekend*									
Daytime**	1,429	900	529									
Nighttime	2,071											
Total	Total 4,907 2,307 2,600											
*Weekend begins at	6:00 p.m. on Friday a		0 a.m. Monday. All									

other times and days are considered Weekdays.

\*\*Daytime refers to the hours between 6:00 a.m. and 6:00 p.m.

 Table 6 – 11

 Safety Device Usage for Drinking Drivers

Severity of Injury	Safety Device Not Used	Lap Belt	Lap & Shoulder Belt	Protective Helmet	Other	Unknown	Totals
No Injury	108	27	2,070	2	1	866	3,074
Unknown Injury	7	0	38	0	0	128	173
Possible Injury	62	9	270	1	0	130	472
Suspected Minor Injury	134	1	351	12	0	149	647
Suspected Serious Injury	97	2	72	13	0	69	253
Fatal Injury	71	1	22	10	0	17	121
TOTALS	479	40	2,823	38	1	1,359	4,740

Persons	Persons Killed and Injured in Alcohol Related Crashes												
Age of	Pe	ersons Kil	led	Persons Injured									
Victim	Total	Male	Female	Total	Male	Female	Gender Unknown						
0-4	1	0	1	41	21	20	0						
5-9	1	0	1	38	20	18	0						
10-14	0	0	0	44	22	22	0						
15-19	7	5	2	184	101	83	0						
20-24	29	20	9	471	313	158	0						
25-34	55	36	19	808	525	283	0						
35-44	60	45	15	504	327	177	0						
45-54	47	31	16	371	242	129	0						
55-64	34	28	6	297	189	108	0						
65-74	20	15	5	129	86	43	0						
75 & Older	2	1	1	48	25	23	0						
Unknown	0	0	0	34	16	9	9						
TOTAL	256	181	75	2,969	1,887	1,073	9						

Table 6 – 12 sons Killed and Injured in Alcohol Related Crashe

 Table 6 – 13

 Alcohol Related Crashes by County

Aconor Related Crashes by County											
Country		Number		Number	of Persons						
County	Total	Fatal	Injury	PDO	Killed	Injured					
Apache	28	8	10	10	12	23					
Cochise	48	8	18	22	8	22					
Coconino	172	11	82	79	16	123					
Gila	46	2	33	11	2	39					
Graham	28	2	9	17	2	11					
Greenlee	8	1	2	5	1	4					
La Paz	22	1	13	8	1	21					
Maricopa	3,224	119	1,242	1,863	122	1,859					
Mohave	167	10	54	103	11	89					
Navajo	100	5	44	51	5	69					
Pima	516	40	221	255	47	343					
Pinal	225	16	105	104	18	162					
Santa Cruz	13	1	3	9	1	4					
Yavapai	182	7	85	90	7	119					
Yuma	128	3	48	77	3	81					
TOTAL	4,907	234	1,969	2,704	256	2,969					

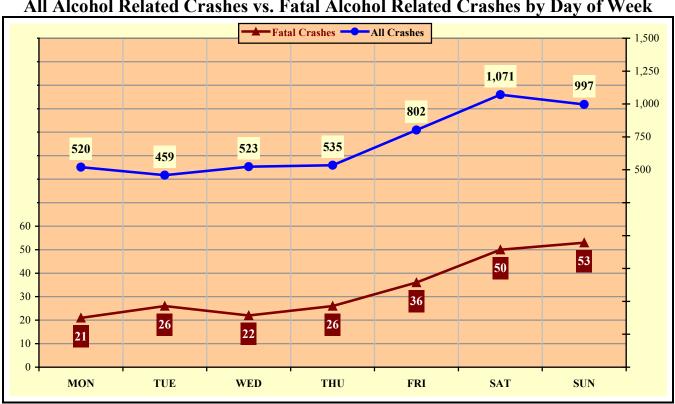
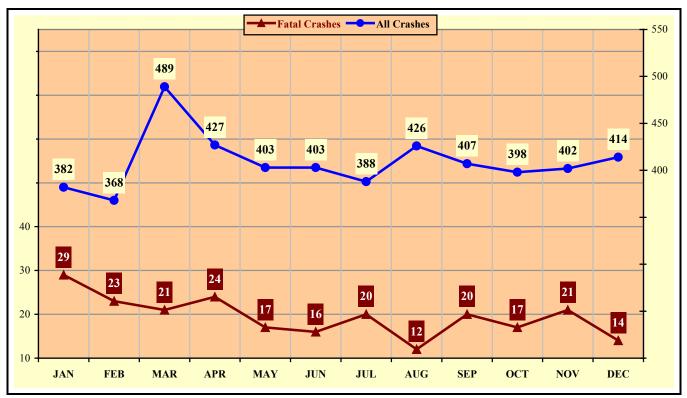


Chart 6 – 1 All Alcohol Related Crashes vs. Fatal Alcohol Related Crashes by Day of Week

Chart 6 – 2 All Alcohol Related Crashes vs. Fatal Alcohol Related Crashes by Month





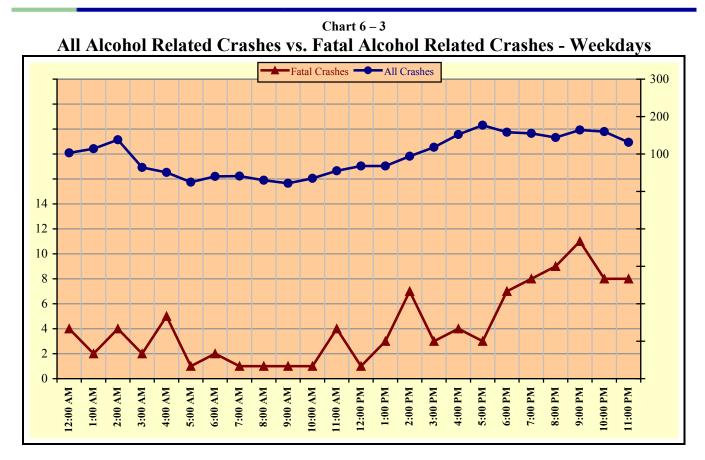


Chart 6 – 4 All Alcohol Related Crashes vs. Fatal Alcohol Related Crashes - Weekends



## Section 6: – Alcohol Related Crashes

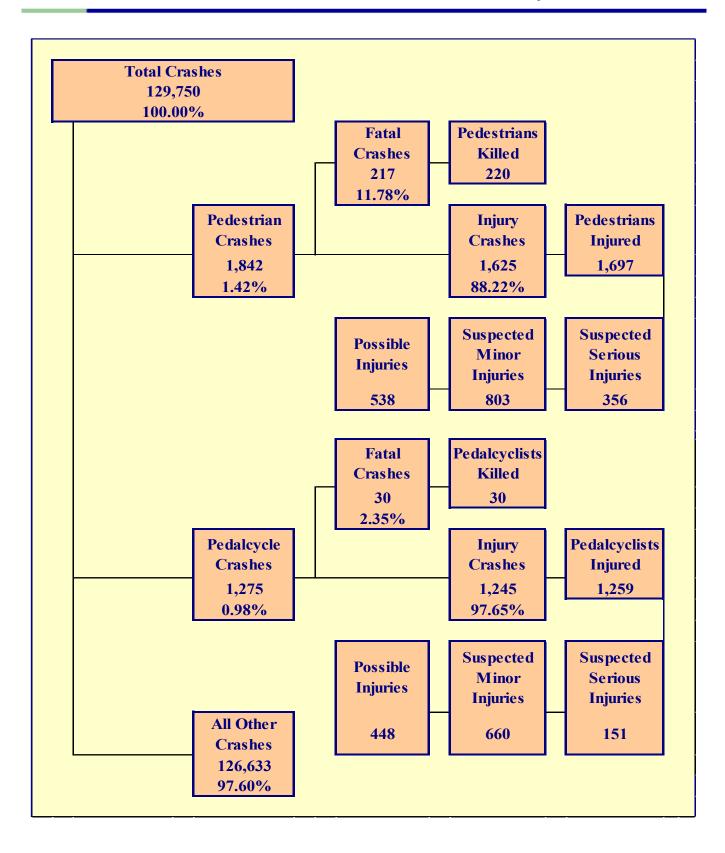
 Table 6 – 14

 Alcohol Related Crashes by Hour and Day of Week

Hour	Total Cr	ashes	Mon	day	Tues	sday	Wedn	es day	Thur	s day	Fri	day	Satu	rday	Sun	day	Week	days	Week	ends
Beginning	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal
12:00 AM	302	17	35	3	24	1	21	0	23	1	35	2	74	4	90	6	103	4	199	13
1:00 AM	303	10	26	1	22	0	29	0	24	2	39	0	80	3	83	4	114	2	189	8
2:00 AM	394	17	28	0	25	0	19	0	38	0	56	4	113	7	115	6	138	4	256	13
3:00 AM	186	3	14	0	15	0	14	0	7	1	28	1	56	0	52	1	64	2	122	1
4:00 AM	136	9	12	0	12	1	15	1	8	1	16	2	39	3	34	1	51	5	85	4
5:00 AM	76	5	7	1	6	1	5	0	7	0	7	0	24	1	20	2	25	1	51	4
6:00 AM	78	4	9	0	7	1	8	0	8	1	8	0	19	0	19	2	40	2	38	2
7:00 AM	79	4	11	0	8	0	3	0	8	1	11	0	13	0	25	3	41	1	38	3
8:00 AM	49	2	4	0	4	0	7	0	11	1	4	0	12	1	7	0	30	1	19	1
9:00 AM	46	2	4	0	7	1	3	0	2	0	6	0	10	1	14	0	22	1	24	1
10:00 AM	64	1	11	0	7	0	4	1	5	0	8	0	12	0	17	0	35	1	29	0
11:00 AM	79	7	10	2	5	1	10	0	11	1	19	0	9	0	15	3	55	4	24	3
12:00 PM	97	3	13	0	13	0	19	0	12	0	11	1	17	0	12	2	68	1	29	2
1:00 PM	113	7	17	0	16	3	17	0	8	0	10	0	19	1	26	3	68	3	45	4
2:00 PM	148	9	19	1	15	2	20	2	16	2	24	0	25	1	29	1	94	7	54	2
3:00 PM	174	8	17	1	29	0	17	0	24	2	31	0	30	2	26	3	118	3	56	5
4:00 PM	231	7	30	2	25	0	35	0	31	2	31	0	34	1	45	2	152	4	79	3
5:00 PM	271	7	38	1	28	0	27	2	36	0	48	0	53	3	41	1	177	3	94	4
6:00 PM	346	15	35	2	32	1	45	2	46	2	60	2	73	4	55	2	158	7	188	8
7:00 PM	332	17	32	1	37	2	46	3	40	2	53	2	71	3	53	4	155	8	177	9
8:00 PM	326	24	38	2	28	3	47	3	31	1	58	5	73	5	51	5	144	9	182	15
9:00 PM	388	18	47	2	27	5	41	4	49	0	87	5	65	2	72	0	164	11	224	7
10:00 PM	372	16	39	1	31	1	35	2	55	4	67	5	83	3	62	0	160	8	212	8
11:00 PM	317	22	24	1	36	3	36	2	35	2	85	7	67	5	34	2	131	8	186	14
TOTAL	4,907	234	520	21	459	26	523	22	535	26	802	36	1,071	50	997	53	2,307	100	2,600	134

Crashes during Weekends accounted for 52.99% of all Alcohol Related crashes and 57.26% of Alcohol Related Fatal Crashes.

**Section 7** 



Teuestrians Kineu and Injureu Dy Age and Genuer												
Age	Ped	estrians K	illed	Pedestrians Injured								
Group	Total	Male	Male Female		Male	Female						
0-4	0	0	0	29	15	14						
5-9	3	3	0	42	28	14						
10-14	5	4	1	103	66	37						
15-19	11	6	5	186	113	73						
20-24	10	8	2	176	110	66						
25-34	29	21	8	325	217	108						
35-44	39	28	11	230	153	77						
45-54	33	18	15	205	136	69						
55-64	47	36	11	205	128	77						
65-74	25	20	5	110	60	50						
75 & Older	16	12	4	56	41	15						
Unknown	2	1	1	30	25	5						
TOTAL	220	157	63	1,697	1,092	605						

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

<b>Table 7 – 2</b>	
--------------------	--

**Pedestrian Crashes by Geographic Location** 

Category	Total	Urban	Percent of Total	Rural	Percent of Total
Total Crashes	1,842	1,767	95.93%	75	4.07%
Fatal Crashes	217	185	85.25%	32	14.75%
Injury Crashes	1,625	1,582	97.35%	43	2.65%
Pedestrians Killed	220	188	85.45%	32	14.55%
Pedestrians Injured	1,697	1,651	97.29%	46	2.71%

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
2015	1,412	1.21%	163	18.17%	1,248	2.32%
2016	1,651	1.30%	193	20.27%	1,466	2.57%
2017	1,711	1.34%	226	22.65%	1,523	2.73%
2018	1,776	1.39%	245	24.23%	1,546	2.88%
2019	1,842	1.42%	220	22.40%	1,697	3.15%

Pedestrians Killed by Age and Action													
Pedestrian		Age Group of Pedestrian											
Action	Total	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	132	0	2	4	8	7	15	16	26	25	16	12	1
Walking With Traffic	14	0	0	0	1	0	0	5	0	5	2	1	0
Walking Against Traffic	6	0	0	0	0	0	2	1	1	0	1	1	0
Standing	12	0	1	0	1	1	3	1	0	4	1	0	0
Lying	3	0	0	0	1	0	0	1	1	0	0	0	0
Getting on/off Vehicle	0	0	0	0	0	0	0	0	0	0	0	0	0
Working on/pushing Veh	0	0	0	0	0	0	0	0	0	0	0	0	0
Working on Road	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	13	0	0	0	0	1	2	5	1	4	0	0	0
Unknown	40	0	0	1	0	1	7	10	4	9	5	2	1
TOTAL	220	0	3	5	11	10	29	39	33	47	25	16	2

## Section 7: – Pedestrian and Pedalcyclist Crashes

Table 7 – 4Pedestrians Killed by Age and Action

## **Table 7 – 5**

# Pedestrians Injured by Age and Action

Pedestrian		Age Group of Pedestrian											
Action	Total	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	1,018	18	30	77	128	102	182	132	119	119	63	33	15
Walking With Traffic	129	2	2	5	13	15	30	14	15	15	10	8	0
Walking Against Traffic	133	0	1	4	9	12	33	16	19	20	12	6	1
Standing	77	1	1	2	5	7	13	11	15	11	5	4	2
Lying	19	0	0	0	1	2	4	5	4	1	1	0	1
Getting on/off Vehicle	13	2	0	0	0	1	6	1	2	1	0	0	0
Working on/pushing Veh	5	0	0	0	0	2	0	2	0	1	0	0	0
Working on Road	11	0	0	0	1	2	1	2	1	3	1	0	0
Other	195	4	4	9	19	27	38	30	21	21	13	4	5
Unknown	97	2	4	6	10	6	18	17	9	13	5	1	6
TOTAL	1,697	29	42	103	186	176	325	230	205	205	110	56	30

 Table 7 - 6

 Pedestrian Physical Condition in Motor Vehicle Crashes

Type of	Number of Pedestrians								
Type of Condition	Total	Percent of Total	In Fatal Crashes	Percent of Fatal	In Injury Crashes	Percent of Injury			
No Apparent Influence	1,277	66.61%	35	14.89%	1,242	73.84%			
Alcohol	171	8.92%	60	25.53%	111	6.60%			
Illegal Drugs	46	2.40%	35	14.89%	11	0.65%			
Medications	1	0.05%	1	0.43%	0	0.00%			
Marijuana	7	0.37%	6	2.55%	1	0.06%			
Illness or Physical Impairment	6	0.31%	0	0.00%	6	0.36%			
Fell Asleep or Fatigued	3	0.16%	0	0.00%	3	0.18%			
Other	11	0.57%	0	0.00%	11	0.65%			
Unknown	395	20.61%	98	41.70%	297	17.66%			
TOTAL	1,917	100.00%	235	100.00%	1,682	100.00%			

Lighting Conditions in Pedestrian Crashes							
Type of Lighting	Number of Crashes						
Conditions	Total	Fatal	Injury				
Daylight	934	38	896				
Dawn	33	5	28				
Dusk	65	5	60				
Dark - Lighted	641	103	538				
Dark - Not Lighted	130	41	89				
Dark - Unknown Lighting	11	5	6				
Unknown	28	20	8				
TOTAL	1,842	217	1,625				

**Table 7 – 7** 

Table	7	_	8
-------	---	---	---

# Weather Conditions in Pedestrian Crashes

Type of Weather Conditions	Number of Crashes						
Type of Weather Conditions	Total	Fatal	Injury				
Clear	1,555	135	1,420				
Cloudy	125	14	111				
Sleet/Hail	1	0	1				
Rain	87	11	76				
Snow or Blowing Snow	0	0	0				
Severe Crosswinds	0	0	0				
Blowing Sand, Soil, Dirt	0	0	0				
Fog, Smog, Smoke	3	0	3				
Other	1	0	1				
Unknown	70	57	13				
TOTAL	1,842	217	1,625				

Table 7 – 9

Pedalcyclists Killed and Injured by Age and Gender

Age	Peda	lcyclists H	Killed	Pedalcyclists Injured			
Group	Total	Male	Female	Total	Male	Female	
0-4	1	1	0	1	1	0	
5-9	0	0	0	18	12	6	
10-14	1	1	0	101	75	26	
15-19	2	0	2	143	111	32	
20-24	2	2	0	142	99	43	
25-34	3	3	0	218	167	51	
35-44	2	1	1	163	117	46	
45-54	7	5	2	165	128	37	
55-64	4	4	0	165	129	36	
65-74	7	7	0	88	76	12	
75 & Older	1	1	0	33	29	4	
Unknown	0	0	0	22	20	2	
TOTAL	30	25	5	1,259	964	295	

Pedalcycle Crashes by Geographic Location									
Category	Total	Urban	Percent of Total	Rural	Percent of Total				
Total Crashes	1,275	1,210	94.90%	65	5.10%				
Fatal Crashes	30	25	83.33%	5	16.67%				
Injury Crashes	1,245	1,185	95.18%	60	4.82%				
Pedalcyclists Killed	30	25	83.33%	5	16.67%				
Pedalcyclists Injured	1,259	1,196	95.00%	63	5.00%				

# Table 7 – 10

# 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
2015	1,436	1.23%	28	3.12%	1,279	2.37%
2016	1,482	1.16%	31	3.26%	1,353	2.38%
2017	1,498	1.17%	32	3.21%	1,380	2.47%
2018	1,287	1.01%	24	2.37%	1,190	2.22%
2019	1,275	0.98%	30	3.05%	1,259	2.34%



# Lighting Conditions in Pedalcyclist Crashes

Type of Lighting	Number of Crashes						
Conditions	Total	Fatal	Injury				
Daylight	975	17	958				
Dawn	24	0	24				
Dusk	31	1	30				
Dark - Lighted	211	7	204				
Dark - Not Lighted	22	2	20				
Dark - Unknown Lighting	4	2	2				
Unknown	8	1	7				
TOTAL	1,275	30	1,245				

## Weather Conditions in Pedalcyclist Crashes

Type of Weether Conditions	Nı	umber of Crash	nes
Type of Weather Conditions	Total	Fatal	Injury
Clear	1,124	24	1,100
Cloudy	109	2	107
Sleet/Hail	1	0	1
Rain	22	0	22
Snow or Blowing Snow	0	0	0
Severe Crosswinds	0	0	0
Blowing Sand, Soil, Dirt	1	0	1
Fog, Smog, Smoke	0	0	0
Other	0	0	0
Unknown	18	4	14
TOTAL	1,275	30	1,245

Pedestrian Crashes by County											
County	Nun	nber of Cra	shes	Number of	Pedestrians						
County	Total	Total Fatal		Killed	Injured						
Apache	3	2	1	2	1						
Cochise	8	2	6	2	6						
Coconino	43	8	35	8	36						
Gila	12	4	8	4	9						
Graham	4	1	3	1	3						
Greenlee	0	0	0	0	0						
La Paz	2	1	1	1	1						
Maricopa	1,370	132	1,238	134	1,291						
Mohave	26	6	20	6	21						
Navajo	13	3	10	3	11						
Pima	260	44	216	45	224						
Pinal	31	8	23	8	25						
Santa Cruz	1	1	0	1	0						
Yavapai	31	1	30	1	32						
Yuma	38	4	34	4	37						
TOTAL	1,842	217	1,625	220	1,697						

 Table 7 – 14

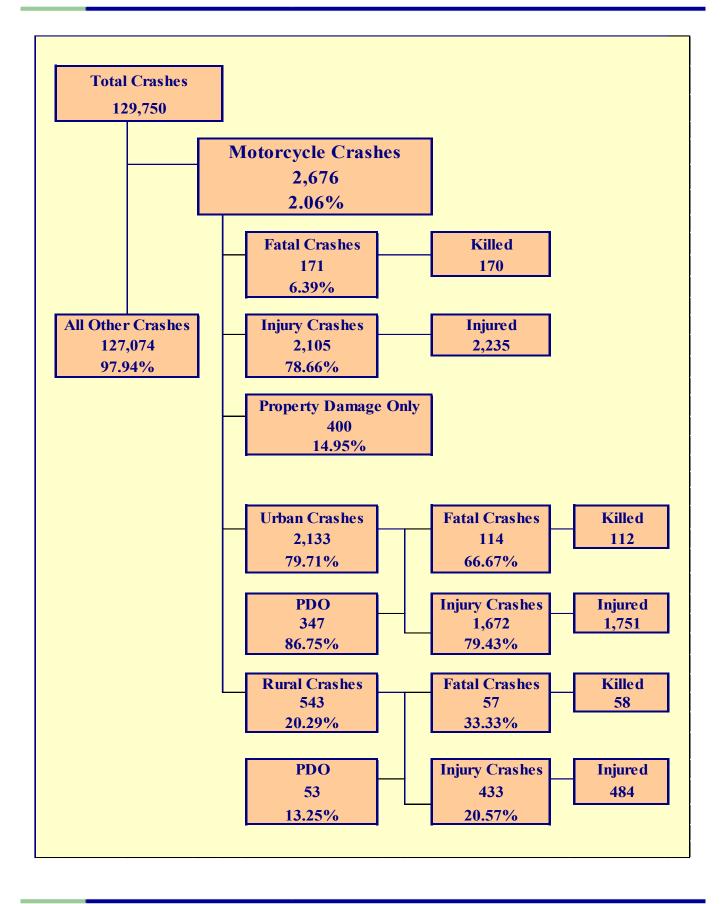
 Pedestrian Crashes by County

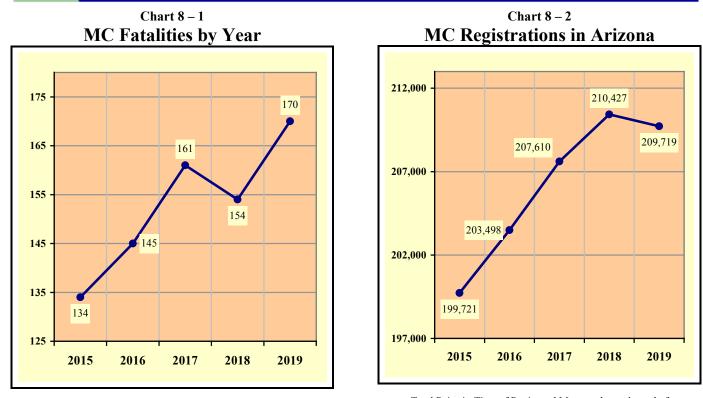
Maricopa and Pima Counties accounted for 81.36% of pedestrian fatalities.

redaicyclist Crashes by County											
Country	Nun	nber of Cra	shes	Number of l	Pedalcyclists						
County	Total	Fatal	Injury	Killed	Injured						
Apache	0	0	0	0	0						
Cochise	6	1	5	1	5						
Coconino	38	1	37	1	37						
Gila	5	0	5	0	5						
Graham	3	0	3	0	3						
Greenlee	0	0	0	0	0						
La Paz	1	0	1	0	1						
Maricopa	940	19	921	19	931						
Mohave	13	0	13	0	13						
Navajo	2	0	2	0	2						
Pima	172	6	166	6	170						
Pinal	28	0	28	0	28						
Santa Cruz	2	1	1	1	1						
Yavapai	19	1	18	1	18						
Yuma	46	1	45	1	45						
TOTAL	1,275	30	1,245	30	1,259						

 Table 7 – 15

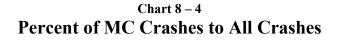
 Pedalcyclist Crashes by County

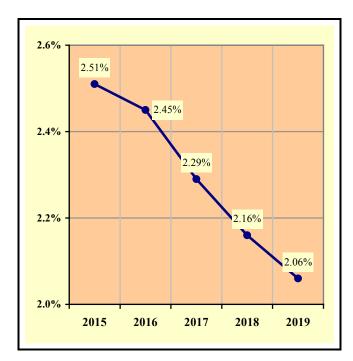


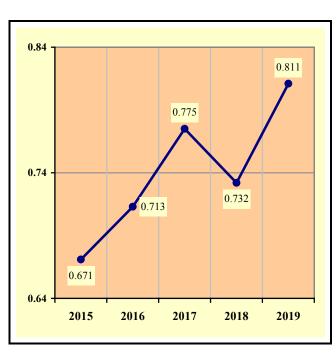


Total Point-in-Time of Registered Motorcycles at the end of Calendar year 2019. (Source: MVD - MV988 MV630419 Currently Registered Vehicles by County Listing (motorcycle sub category), reports dated 12/31/19.)

Chart 8 – 3 Fatality Rate per Registered MC







MC Crashes by First Harmun Event									
First Harmful Frant Trme	Number of Crashes								
First Harmful Event Type	Total	Fatal	Injury	PDO					
Collision with Motor Vehicle in Transport	1,598	90	1,197	311					
Overturning	602	23	535	44					
Collision with Pedestrian	11	2	9	0					
Collision with Pedalcyclist	6	1	5	0					
Collision with Animal	28	2	21	5					
Collision with Fixed Object	313	49	249	15					
Collision with Non-fixed Object*	71	1	49	21					
Vehicle Fire or Explosion	1	0	0	1					
Other Non-collision**	3	0	3	0					
Unknown	43	3	37	3					
TOTAL	2,676	171	2,105	400					
*Includes Collision with Parked Vehicles, Trains, Railway Vehicles, and Work Zone Equipment									
**Includes Vehicle Immersion, Jackknife, and Cargo Loss	or Shift								

 Table 8 – 1

 MC Crashes by First Harmful Event

<b>Table 8 – 2</b>
<b>Lighting Conditions in MC Crashes</b>

Type of Lighting	Number of Crashes							
Conditions	Total	Fatal	Injury	PDO				
Daylight	1,846	102	1,474	270				
Dawn	59	2	46	11				
Dusk	77	7	60	10				
Dark - Lighted	535	37	415	83				
Dark - Not Lighted	136	17	100	19				
Dark - Unknown Lighting	7	2	1	4				
Unknown	16	4	9	3				
TOTAL	2,676	171	2,105	400				

Table 8 – 3 Road Surface Conditions in MC Crashes

		Number of	Operators							
Type of Road Surface Condition	Total	In Fatal Crashes	In Injury Crashes	In PDO Crashes						
Dry	2,603	153	2,062	388						
Wet	58	4	48	6						
Snow/Slush	2	0	1	1						
Ice/Frost	3	0	3	0						
Water (standing or moving)	1	0	1	0						
Mud, Dirt, Gravel, Sand	28	1	26	1						
Other	7	1	4	2						
Unknown	26	15	4	7						
TOTAL	2,728	174	2,149	405						

MC Crashes by Geographic Location											
Category	Total	Urban	Percent of Total Rural		Percent of Total						
Total Crashes	2,676	2,133	79.71%	543	20.29%						
Fatal Crashes	171	114	66.67%	57	33.33%						
Injury Crashes	2,105	1,672	79.43%	433	20.57%						
PDO Crashes	400	347	86.75%	53	13.25%						
Persons Killed	170	112	65.88%	58	34.12%						
Persons Injured	2,235	1,751	78.34%	484	21.66%						

 Table 8 – 4

 MC Crashes by Geographic Location

#### Table 8 – 5

## **Operator Involvement by Age in MC Crashes**

Operator		•	ľ	Number of Ope	erators	•		
-	Tradal	Percent	In Fatal	Percent	In Injury	Percent	In PDO	Percent
Age Group	Total	of Total	Crashes	of Fatal	Crashes	of Injury	Crashes	of PDO
15 & Under	11	0.40%	0	0.00%	9	0.42%	2	0.49%
16	7	0.26%	0	0.00%	6	0.28%	1	0.25%
17	18	0.66%	0	0.00%	16	0.74%	2	0.49%
18	38	1.39%	3	1.72%	32	1.49%	3	0.74%
19	74	2.71%	1	0.57%	61	2.84%	12	2.96%
20	82	3.01%	4	2.30%	66	3.07%	12	2.96%
21	74	2.71%	5	2.87%	57	2.65%	12	2.96%
22	89	3.26%	1	0.57%	70	3.26%	18	4.44%
23	83	3.04%	5	2.87%	64	2.98%	14	3.46%
24	75	2.75%	3	1.72%	64	2.98%	8	1.98%
25-34	609	22.32%	33	18.97%	491	22.85%	85	20.99%
35-44	429	15.73%	29	16.67%	346	16.10%	54	13.33%
45-54	444	16.28%	27	15.52%	358	16.66%	59	14.57%
55-64	384	14.08%	35	20.11%	303	14.10%	46	11.36%
65-74	208	7.62%	21	12.07%	164	7.63%	23	5.68%
75 & Older	39	1.43%	7	4.02%	28	1.30%	4	0.99%
Unknown	64	2.35%	0	0.00%	14	0.65%	50	12.35%
TOTAL	2,728	100.00%	174	100.00%	2,149	100.00%	405	100.00%

 Table 8 – 6

 MC Operator Physical Condition

Type of		Number of Operators								
Condition	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	2,286	83.80%	60	34.48%	1,884	87.67%	342	84.44%		
Alcohol	132	4.84%	37	21.26%	88	4.09%	7	1.73%		
Illegal Drugs	31	1.14%	26	14.94%	5	0.23%	0	0.00%		
Medications	1	0.04%	1	0.57%	0	0.00%	0	0.00%		
Marijuana	12	0.44%	11	6.32%	1	0.05%	0	0.00%		
Illness or Physical Impairment	6	0.22%	1	0.57%	4	0.19%	1	0.25%		
Fell Asleep or Fatigued	3	0.11%	0	0.00%	3	0.14%	0	0.00%		
Other	10	0.37%	1	0.57%	6	0.28%	3	0.74%		
Unknown	247	9.05%	37	21.26%	158	7.35%	52	12.84%		
TOTAL	2,728	100.00%	174	100.00%	2,149	100.00%	405	100.00%		

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	198	14.55%	42	7.57%	171	21.06%	411	15.07%				
Unknown Injury	17	1.25%	5	0.90%	26	3.20%	48	1.76%				
Possible Injury	218	16.02%	79	14.23%	155	19.09%	452	16.57%				
Suspected Minor Injury	587	43.13%	197	35.50%	316	38.92%	1,100	40.32%				
Suspected Serious Injury	260	19.10%	163	29.37%	130	16.01%	553	20.27%				
Fatal Injury	81	5.95%	69	12.43%	14	1.72%	164	6.01%				
TOTALS	1,361	100.00%	555	100.00%	812	100.00%	2,728	100.00%				

Table 8 – 7 MC Operator's Helmet Use

Table 8 – 8 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	12	16.90%	2	4.35%	10	21.74%	24	14.72%				
Unknown Injury	1	1.41%	0	0.00%	2	4.35%	3	1.84%				
Possible Injury	11	15.49%	7	15.22%	10	21.74%	28	17.18%				
Suspected Minor Injury	35	49.30%	16	34.78%	16	34.78%	67	41.10%				
Suspected Serious Injury	12	16.90%	16	34.78%	7	15.22%	35	21.47%				
Fatal Injury	0	0.00%	5	10.87%	1	2.17%	6	3.68%				
TOTALS	71	100.00%	46	100.00%	46	100.00%	163	100.00%				

		Number of Operators and Passengers											
Gender	Helmet Used	Percent of Helmet Used	Helmet Not Used	Percent of Helmet Not Used	Helmet Use Unknown	Percent of Unknown	Total	Percent of Total					
Male	1,283	89.59%	528	87.85%	733	85.43%	2,544	88.00%					
Female	145	10.13%	73	12.15%	87	10.14%	305	10.55%					
Unknown	4	0.28%	0	0.00%	38	4.43%	42	1.45%					
TOTAL	1,432	100.00%	601	100.00%	858	100.00%	2,891	100.00%					

Table 8 – 9 Helmet Use by Gender

MC Operators and Passengers Killed and Injured											
Age of	Pe	ersons Kill	ed	Persons Injured							
Victim	Total	Male	Female	Total	Male	Female	Gender Unknown				
0-4	0	0	0	0	0	0	0				
5-9	0	0	0	1	0	1	0				
10-14	0	0	0	7	6	1	0				
15-19	5	4	1	125	113	12	0				
20-24	18	17	1	328	301	27	0				
25-34	30	29	1	503	462	41	0				
35-44	30	27	3	367	311	56	0				
45-54	27	24	3	373	328	45	0				
55-64	32	30	2	320	271	49	0				
65-74	21	21	0	168	156	12	0				
75 & Older	7	7	0	31	26	5	0				
Unknown	0	0	0	12	10	0	2				
TOTAL	170	159	11	2,235	1,984	249	2				

 Table 8 – 10

 MC Operators and Passengers Killed and Injured

 Table 8 – 11

 MC Operator Violations

		•		Number of	f Operators	5		
Type of Violation or Behavior	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	1,273	46.66%	41	23.56%	1,037	48.26%	195	48.15%
Speed too Fast for Conditions	644	23.61%	46	26.44%	522	24.29%	76	18.77%
Exceeded Lawful Speed	63	2.31%	15	8.62%	44	2.05%	4	0.99%
Failed to Yield Right-Of-Way	66	2.42%	1	0.57%	48	2.23%	17	4.20%
Followed Too Closely	86	3.15%	1	0.57%	63	2.93%	22	5.43%
Ran Stop Sign	20	0.73%	5	2.87%	14	0.65%	1	0.25%
Disregarded Traffic Signal	29	1.06%	2	1.15%	24	1.12%	3	0.74%
Made Improper Turn	32	1.17%	2	1.15%	25	1.16%	5	1.23%
Drove in Opposing Lane	6	0.22%	0	0.00%	5	0.23%	1	0.25%
Drove Left of Center Line	13	0.48%	2	1.15%	10	0.47%	1	0.25%
Passed in No-Passing Zone	5	0.18%	2	1.15%	2	0.09%	1	0.25%
Unsafe Lane Change	55	2.02%	3	1.72%	42	1.95%	10	2.47%
Failed to Keep in Proper Lane	76	2.79%	10	5.75%	56	2.61%	10	2.47%
Crossed Median	1	0.04%	0	0.00%	1	0.05%	0	0.00%
Aggressive Driving	8	0.29%	0	0.00%	6	0.28%	2	0.49%
Wrong Way Driving	1	0.04%	0	0.00%	0	0.00%	1	0.25%
Other	111	4.07%	6	3.45%	86	4.00%	19	4.69%
Unknown	239	8.76%	38	21.84%	164	7.63%	37	9.14%
TOTAL	2,728	100.00%	174	100.00%	2,149	100.00%	405	100.00%

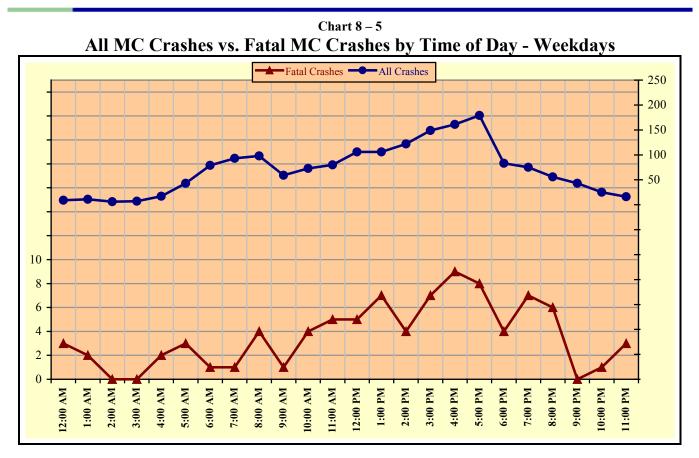


Chart 8 – 6 All MC Crashes vs. Fatal MC Crashes by Time of Day - Weekends



Page 54 – 2019 Arizona Crash Facts Summary





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

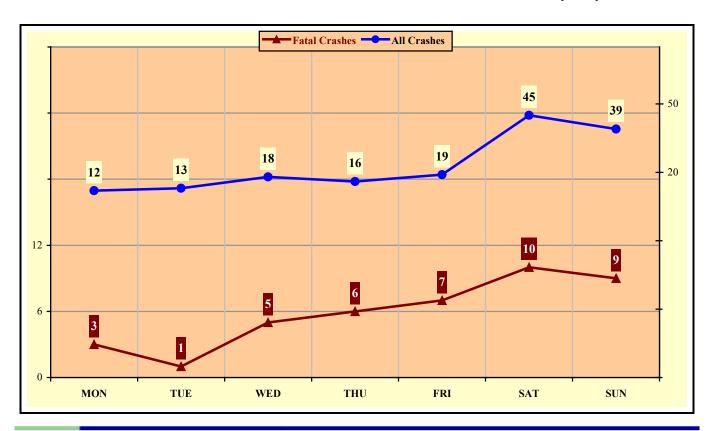


Table 8 – 12MC Crashes by Hour and Day of Week

Hour	Total Cr	ashes	Mon	day	Tues	day	Wedn	esday	Thur	s day	Frie	day	Satu	rday	Sun	day	Week	days	Week	cends
Beginning	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal
12:00 AM	30	4	1	0	2	0	2	1	1	1	4	1	9	0	11	1	9	3	21	1
1:00 AM	28	2	2	0	2	1	1	0	3	1	5	0	7	0	8	0	11	2	17	0
2:00 AM	18	1	0	0	0	0	2	0	2	0	2	0	8	1	4	0	6	0	12	1
3:00 AM	16	0	1	0	1	0	3	0	2	0	1	0	1	0	7	0	7	0	9	0
4:00 AM	28	2	4	0	6	1	1	0	3	0	7	1	4	0	3	0	17	2	11	0
5:00 AM	58	3	9	0	12	1	12	1	11	0	8	1	3	0	3	0	43	3	15	0
6:00 AM	87	3	15	0	17	0	24	1	13	0	10	0	4	1	4	1	79	1	8	2
7:00 AM	110	3	15	1	26	0	18	0	10	0	24	0	10	1	7	1	93	1	17	2
8:00 AM	122	6	21	0	17	1	19	2	20	1	21	0	14	2	10	0	98	4	24	2
9:00 AM	97	3	13	0	6	0	15	0	10	1	15	0	22	1	16	1	59	1	38	2
10:00 AM	129	9	12	1	15	0	14	0	14	1	18	2	38	3	18	2	73	4	56	5
11:00 AM	134	10	9	0	15	0	16	3	16	1	24	1	33	2	21	3	80	5	54	5
12:00 PM	179	9	13	0	16	1	21	0	34	1	22	3	33	1	40	3	106	5	73	4
1:00 PM	182	14	24	2	16	0	19	2	19	3	28	0	44	2	32	5	106	7	76	7
2:00 PM	187	11	21	1	29	1	22	1	24	0	26	1	37	5	28	2	122	4	65	7
3:00 PM	206	11	29	2	24	1	28	1	38	2	30	1	33	2	24	2	149	7	57	4
4:00 PM	217	17	28	1	29	2	32	1	34	3	38	2	24	3	32	5	161	9	56	8
5:00 PM	227	11	21	1	45	1	36	3	40	1	37	2	25	1	23	2	179	8	48	3
6:00 PM	171	9	22	1	21	0	15	1	25	2	34	2	30	1	24	2	83	4	88	5
7:00 PM	144	14	19	1	18	2	23	3	15	1	21	2	26	3	22	2	75	7	69	7
8:00 PM	114	13	16	1	12	1	11	2	17	2	26	3	17	3	15	1	56	6	58	7
9:00 PM	88	2	15	0	8	0	11	0	9	0	10	0	20	2	15	0	43	0	45	2
10:00 PM	61	4	4	0	6	0	3	1	12	0	13	1	16	2	7	0	25	1	36	3
11:00 PM	43	10	5	2	3	0	2	0	6	1	14	2	10	4	3	1	16	3	27	7
TOTAL	2,676	171	319	14	346	13	350	23	378	22	438	25	468	40	377	34	1,696	87	980	84

Crashes during Weekends accounted for 36.62% of all MC crashes and 49.12% of Fatal MC Crashes.

Me crashes by county										
Country		Number o		Number of Persons						
County	Total	Fatal	Injury	PDO	Killed	Injured				
Apache	9	2	7	0	2	8				
Cochise	31	3	22	6	3	24				
Coconino	60	5	48	7	5	50				
Gila	50	4	43	3	4	49				
Graham	12	0	9	3	0	9				
Greenlee	11	2	8	1	2	8				
La Paz	8	2	5	1	2	5				
Maricopa	1,784	93	1,402	289	92	1,472				
Mohave	119	12	90	17	12	101				
Navajo	19	1	14	4	1	14				
Pima	256	26	196	34	26	206				
Pinal	112	7	92	13	7	100				
Santa Cruz	6	0	6	0	0	6				
Yavapai	145	12	116	17	11	133				
Yuma	54	2	47	5	3	50				
TOTAL	2,676	171	2,105	400	170	2,235				

Table	8 –	13
-------	-----	----

**MC Crashes by County** 

Table	8 –	14
-------	-----	----

Manner of Collision in MC Crashes

		SS		Number of	of Crashe	S			
Manner of Collision Type	Total	Percent of All Crashes	Fatal	Percent of Fatal Crashes	Injury	Percent of Injury Crashes	PDO	Percent of PDO Crashes	
Angle	282	16.55%	24	23.76%	212	16.59%	46	14.15%	
Left Turn	430	25.23%	37	36.63%	347	27.15%	46	14.15%	
Rear End	557	32.69%	18	17.82%	403	31.53%	136	41.85%	
Head-On	25	1.47%	2	1.98%	17	1.33%	6	1.85%	
Sideswipe (same)	253	14.85%	1	0.99%	192	15.02%	60	18.46%	
Sideswipe (opposite)	36	2.11%	2	1.98%	25	1.96%	9	2.77%	
U-Turn	12	0.70%	2	1.98%	5	0.39%	5	1.54%	
Other*	89	5.22%	12	11.88%	63	4.93%	14	4.31%	
Unknown	20	1.17%	3	2.97%	14	1.10%	3	0.92%	
TOTAL	1,704	100.00%	101	100.00%	1,278	100.00%	325	100.00%	
Note: Includes only multi-vehicle MC crashes *Other includes pedestrian and pedalcyclist crashes									

# Acknowledgements

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

The Information Technology Group, Arizona Department of Transportation

Motor Vehicle Division, Arizona Department of Transportation

Multimodal Planning Division, Arizona Department of Transportation

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

National Highway Transportation Safety Administration