

2003 Motor Vehicle Crash Facts for the State of Arizona

*Prepared by the:
Arizona Department of Transportation
Motor Vehicle Division*



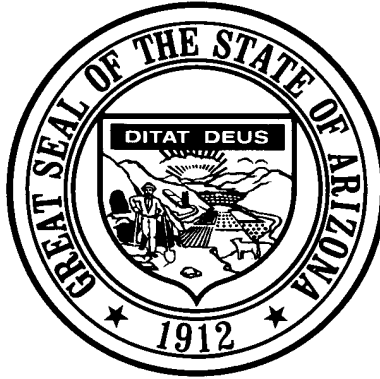
This publication is an annual statistical review of the motor vehicle crashes in the State of Arizona for calendar year 2003. The results are compiled from Arizona Traffic Accident Reports submitted to the Arizona Department of Transportation by state, county, city, tribal, and other law enforcement agencies. Specific inquiries regarding the data in this report or requests for additional copies should be directed to:

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

This issue as well as previous issues of this publication may be viewed and downloaded from ADOT's Web Site at
<http://www.dot.state.az.us/mvd/statistics/statisticshome.htm>
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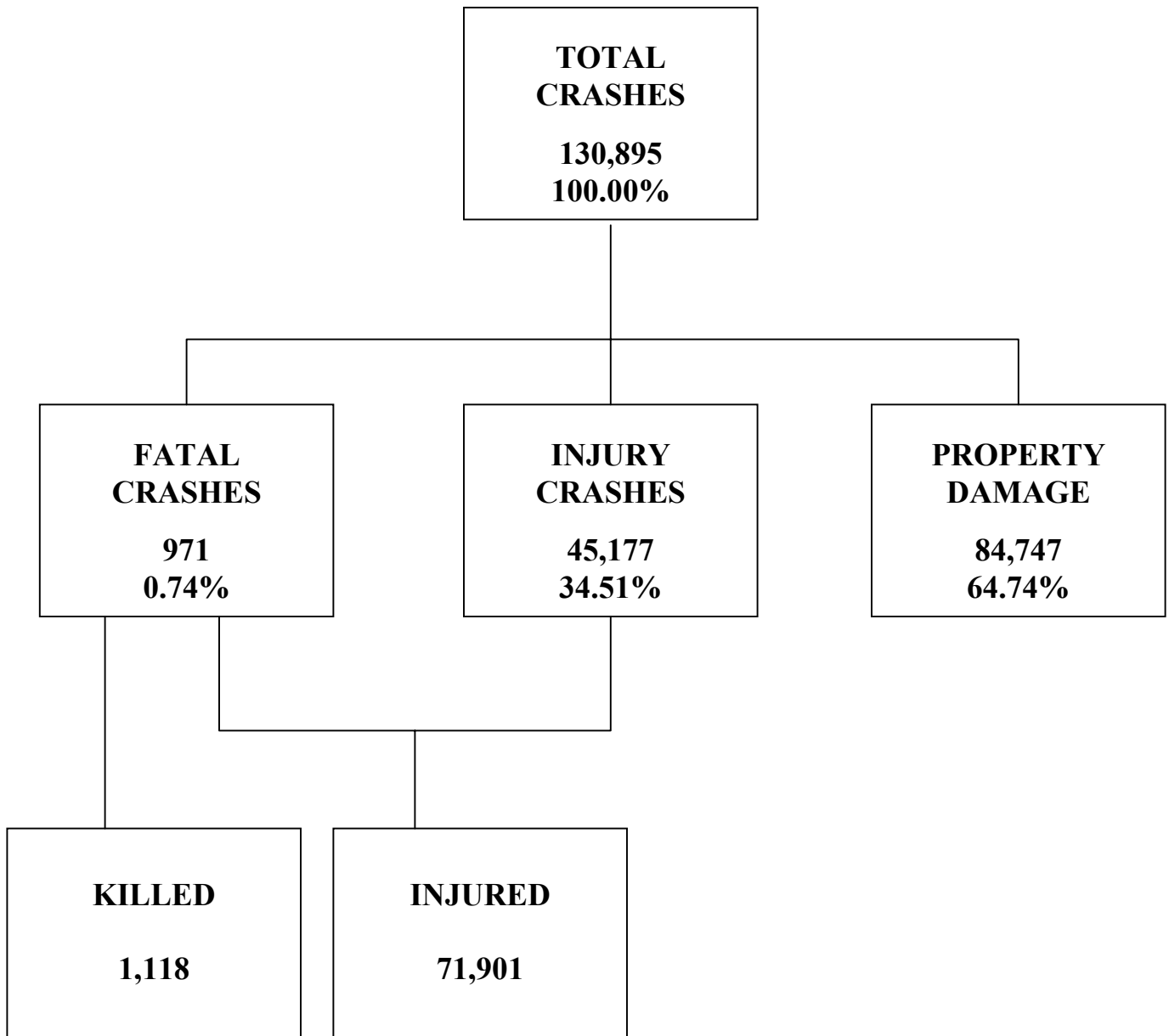
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Section 1:

Highlights and Historical Trends



Section 1: Highlights and Historical Trends

**Table 1-1
Arizona Crash Facts**

Category	2002	2003	Pct Change
Reported crashes	134,228	130,895	-2.48%
Total killed	1,132	1,118	-1.24%
Total injured	74,230	71,901	-3.14%
Pedestrians killed	158	126	-20.25%
Pedestrians injured	1,481	1,528	+3.17%
Motorcyclists killed	95	111	+16.84%
Motorcyclists injured	1,999	2,098	+4.95%
Pedalcyclists killed	15	15	0%
Pedalcyclists injured	1,618	1,617	-0.06%
Millions of vehicle miles traveled (VMT)	53,404	53,345	+2.56%
Deaths per 100 million VMT	2.17	2.10	-3.23%
Injuries per 100 million VMT	139.00	134.78	-3.04%

2003 At a Glance

- Approximately **3.1** persons were killed each day.
- One person was killed every **7.8** hours.
- There were **197** persons injured every day.
- One person was injured every **7.3** minutes.
- Drinking drivers were involved in **5.96%** of all crashes.
- Drinking drivers were involved in **26.65%** of all fatalities.
- Over **80.27%** of all drinking drivers involved in crashes were males.
- Rural crashes accounted for **20.2%** of all crashes, and over **58.6%** of all fatal crashes.
- **71.28%** of all crashes occurred during daylight.
- Motor vehicle crashes resulted in **\$3.2** billion in economic losses to Arizona.
- Sixty nine (**69**) children were killed and **6,397** children age 14 and younger were injured in motor vehicle crashes.

The Nation In 2003

The population of the United States was estimated at **290,809,800**.

Estimated vehicle miles traveled totaled **2,880 billion** miles.

There were an estimated **6,305,800** crashes

An estimated **2,891,000** persons were injured.

An estimated **43,200** persons were killed in motor vehicle crashes in the United States.

**Table 1-2
Arizona Licensed Drivers, Motor Vehicle Registration
and Crash History**

Calendar Year	Total Crashes	Fatal Crashes	Injury Crashes	Property Damage Crashes	Total Persons Killed	Total Persons Injured	Total Licensed Drivers	Total Registered Vehicles
1999	125,764	907	45,541	79,316	1,024	73,514	3,372,187	3,731,126
2000	131,368	892	47,485	82,992	1,037	76,626	3,529,732	3,983,860
2001	131,899	944	46,234	84,726	1,057	74,110	3,550,766	4,037,359
2002	134,228	984	46,209	87,045	1,132	74,230	3,668,704	4,089,662
2003	130,895	971	45,177	84,747	1,118	71,901	3,819,823	4,193,262

**Table 1-3
Historical Trends
Arizona and the United States**

Calendar Year	U.S. Fatality Rate*	Arizona Fatality Rate*	Arizona Traffic Deaths	Estimated Motor Vehicle Miles Traveled*	AZ Fatal Crash Rate*
1999	1.55	2.18	1,024	47,014	1.90
2000	1.55	2.08	1,037	48,568	1.83
2001	1.50	2.08	1,057	50,861	1.84
2002	1.51	2.17	1,132	52,014	1.89
2003	1.50	2.10	1,118	53,345	1.83

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

Due to refinements in the method used for the calculation of vehicle miles traveled and the use of preliminary data in some cases, the Arizona crash and fatality rates may differ slightly from previous reports. The most current data is always used at the time of publication, but it may change as new information is received.

During 2003, an average of 118.4 persons died each day in motor vehicle crashes across the United States - one every 12.2 minutes.

Section 1: Highlights and Historical Trends

Statewide Economic Loss Due to Motor Vehicle Crashes

In 2003, the economic impact of motor vehicle crashes was \$567.60 for every man, woman, and child in the state of Arizona.

Fatalities	\$ 1,252,160,000
Injuries	1,248,429,700
Property Damage Only	694,925,400
TOTAL	\$3,195,515,100

**Table 1-4
Estimated Economic Loss by County**

Counties	Cost of Traffic Crashes			Total
	Fatalities	Injuries	PDOs	
Apache	\$53,760,000	\$11,314,800	3,698,200	68,773,000
Cochise	57,120,000	20,954,800	12,045,800	90,120,600
Coconino	63,840,000	37,368,300	23,591,400	124,799,700
Gila	23,520,000	11,570,700	5,715,400	40,806,100
Graham	15,680,000	4,180,600	1,697,400	21,558,000
Greenlee	1,120,000	756,000	262,400	2,138,400
La Paz	43,680,000	8,633,900	2,804,400	55,118,300
Maricopa	509,600,000	776,653,700	448,950,000	1,735,203,700
Mohave	82,880,000	43,875,700	17,482,400	144,238,100
Navajo	66,080,000	15,202,700	7,429,200	88,711,900
Pima	132,160,000	210,673,500	113,324,000	456,157,500
Pinal	84,000,000	38,334,600	18,712,400	141,047,000
Santa Cruz	8,960,000	4,043,600	3,968,800	16,972,400
Yavapai	81,760,000	37,189,800	22,435,200	141,385,000
Yuma	28,000,000	27,677,000	12,808,400	68,485,400
TOTALS	\$1,252,160,000	\$1,248,429,700	\$694,925,400	\$3,195,515,100

Cost estimates are based on the 2003 National Safety Council estimates of the average cost of motor vehicle crashes, deaths and injuries. These costs are an estimate of wage and productivity losses, medical expenses, administrative expenses, motor vehicle damage, and employer costs. Effective in 1993, new components were added and new benchmarks and inflation factors adopted. For this reason, the cost estimates for 2003 are not comparable to those published prior to 1993. The following factors were used to approximate the value of the loss for crashes occurring in Arizona.

- | | | |
|----|---------------------------|-------------|
| 1. | Fatality | \$1,120,000 |
| 2. | Incapacitating Injury | 55,500 |
| 3. | Non-incapacitating Injury | 18,200 |
| 4. | Possible Injury | 10,300 |
| 5. | Property Damage Only | 8,200 |

Traffic Crashes in Arizona by Year

Figure 1-1: All Crashes

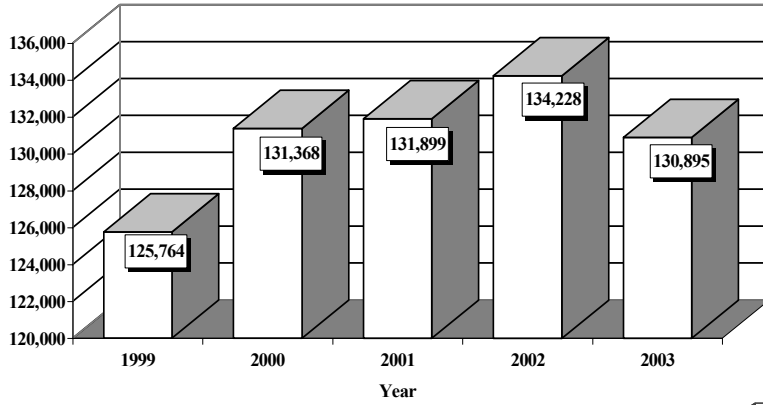


Figure 1-3: Injury Crashes

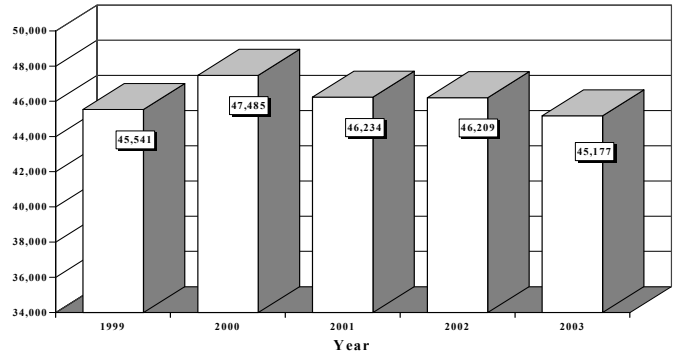


Figure 1-2: Fatal Crashes

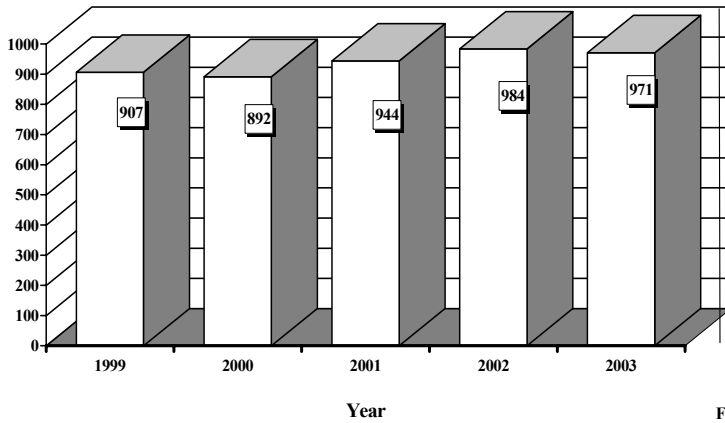
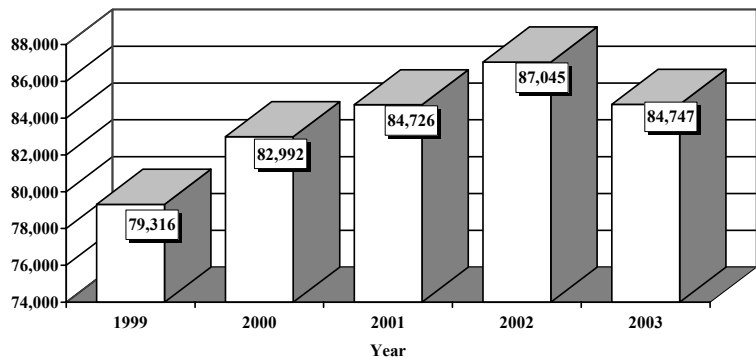


Figure 1-4: Property Damage Only Crashes



Section 1: Highlights and Historical Trends

Table 1-5
Victims of Motor Vehicle Crashes*

Age of Victim	Total Killed	Sex		Total Injured	Sex		Sex Unk.
		Male	Female		Male	Female	
0 - 4	16	11	5	1,604	815	786	3
5 - 9	17	7	10	2,062	1,033	1,028	1
10 - 14	36	23	13	2,731	1,312	1,415	4
15 - 19	122	86	36	9,830	4,565	5,245	20
20 - 24	144	101	43	10,257	5,088	5,164	5
25 - 34	179	132	47	13,736	6,962	6,765	9
35 - 44	207	154	53	11,396	5,542	5,848	6
45 - 54	160	103	57	8,832	4,080	4,748	4
55 - 64	90	57	33	5,255	2,387	2,864	4
65 - 74	71	41	30	2,854	1,301	1,551	2
75 & Older	76	38	38	2,676	1,231	1,406	39
Age Unknown	0	0	0	668	283	355	30
Totals	1,118	753	365	71,901	34,599	37,175	127

*Includes all reported injuries and fatalities occurring on Arizona roadways.

Arizona's Estimated Population			
	Population*	Traffic Crash	Population*
	Percentage	Fatality Percentage	Estimate
White	71.61%	53.23%	3,919,036
Hispanic	18.77%	26.27%	1,027,235
African American	2.86%	2.59%	156,521
Native American	5.18%	16.51%	283,488
Asian	1.41%	1.29%	77,165
Other	0.17%	0.09%	9,304
2003 Population		5,629,870	

Sources: Arizona State Data Center, Arizona Department of Economic Security and The Arizona Department of Health Services, Office of Planning, Evaluation and Public Health Statistics. * Population percentages and totals are based on 2000 U.S. Census Data.

Table 1-6
Victims of Motor Vehicle Crashes (Arizona Residents Only)***

Age of Victim	Total Killed	Sex		White	Hispanic	African American		Native American		Unk.
		Male	Female			American	Asian	American	American	
Less than 1	4	4	0	0	3	0	0	1	0	
1-14	63	39	24	29	22	1	0	11	0	
15-19	105	75	30	37	37	4	3	24	0	
20-44	479	357	122	232	139	13	4	91	0	
45-64	221	149	72	131	46	5	4	34	1	
65+	131	63	68	105	16	3	2	5	0	
Unknown	2	2	0	1	1	0	0	0	0	
Total	1,005	689	316	535	264	26	13	166	1	

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

***includes victims of crashes occurring outside Arizona.

Figure 1-5, Vehicle Miles Traveled

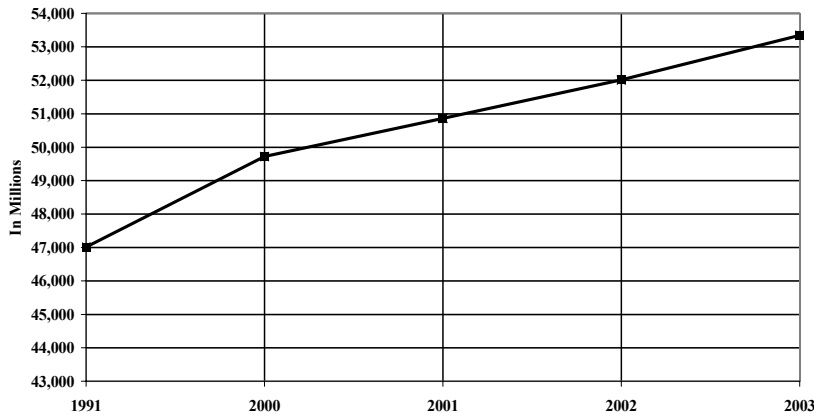


Figure 1-6, Arizona versus U.S. Fatality Rate

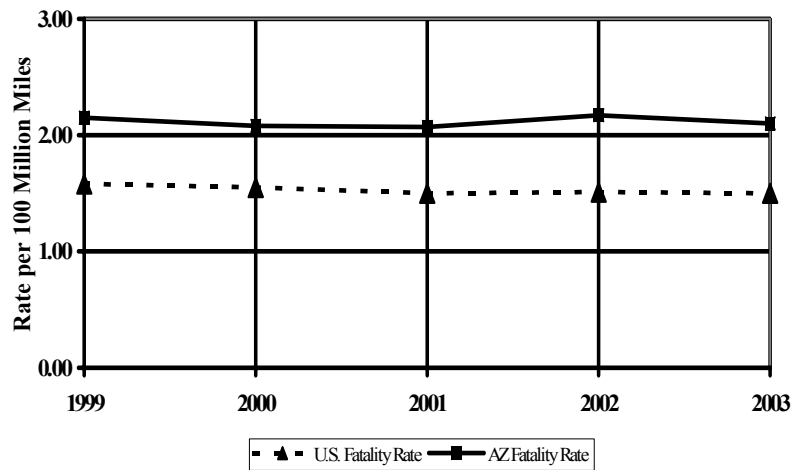
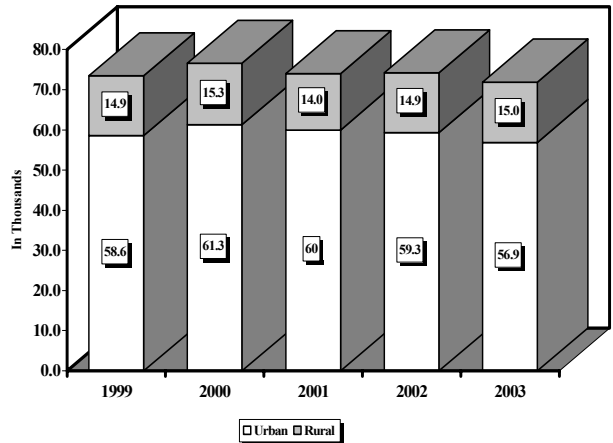
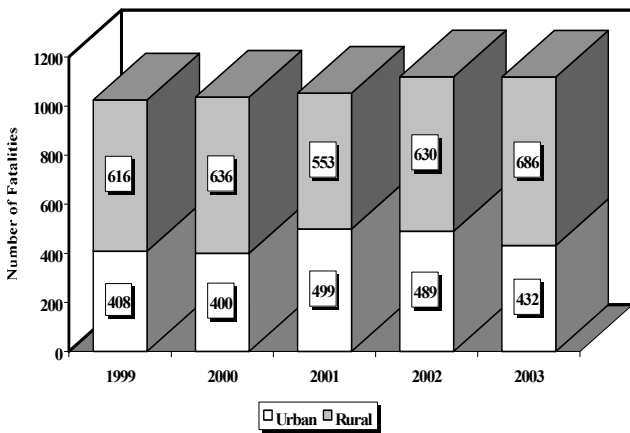


Figure 1-7, Traffic Fatalities by geographic location

Figure 1-8, Traffic Injuries by geographic location



Section 1: Highlights and Historical Trends

Table 1-7 Holiday Crash Statistics

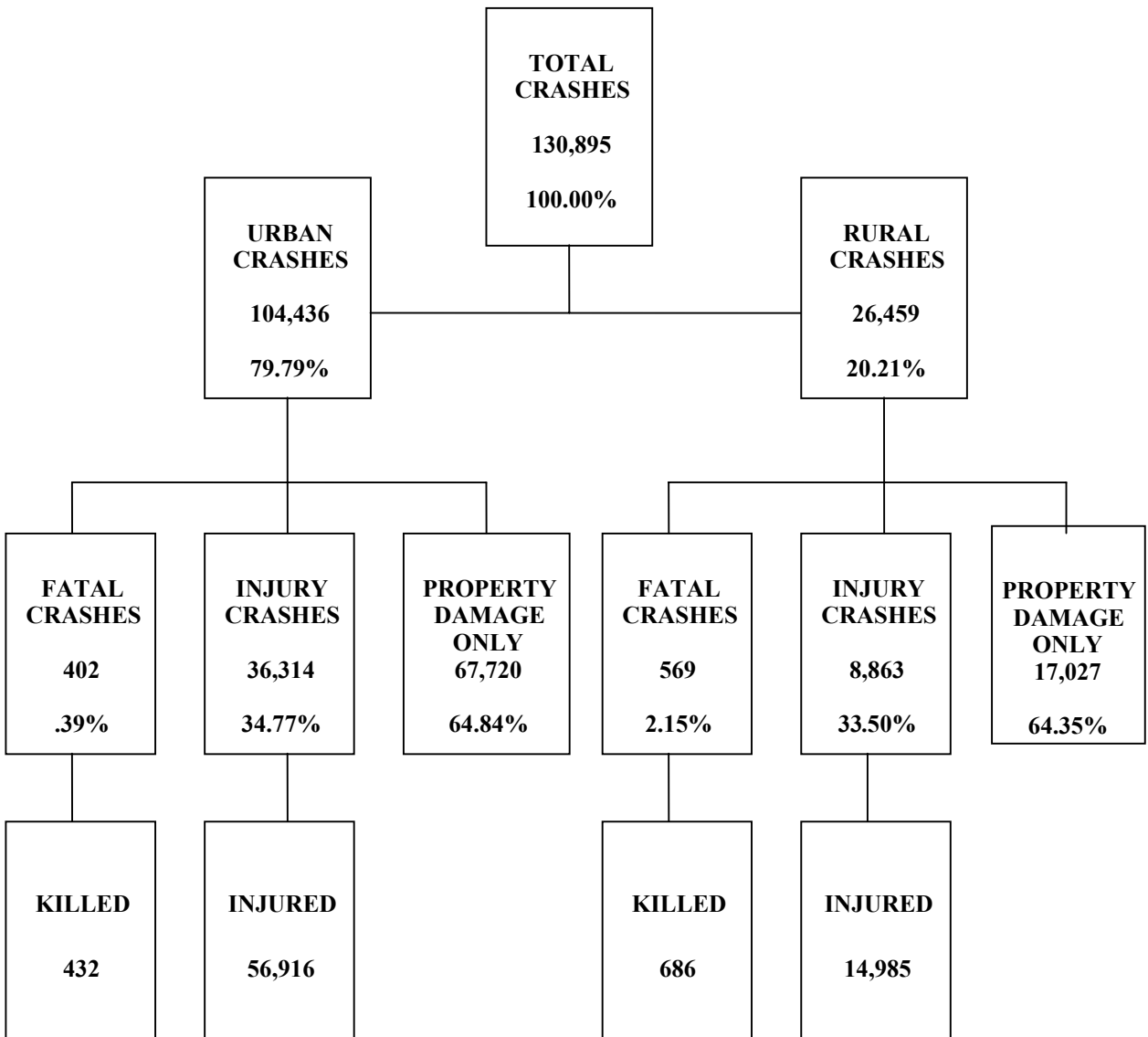
Holidays such as Memorial Day, Labor Day, and Thanksgiving are regarded as a 3 or 4 day weekend holiday for statistical purposes. Holidays such as Christmas, New Year's, and the Fourth of July are celebrated on specific dates; which make the holiday period range from two to five days in length.

Holiday fatality statistics are based on fatal crashes occurring between 6:00 p.m. on the last working day prior to the holiday and 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.

2003 Holidays	Beginning at 6 p.m.	Ending at 5:59 a.m.	Number of Days	Fatal Crashes	Persons Killed	Alcohol-Related Crashes	Alcohol-Related Fatalities
New Year's	Tuesday 12/31/02	Thursday 1/2/03	2	3	3	2	2
Memorial Day	Friday 5/23/03	Tuesday 5/27/03	4	10	12	5	7
July 4th	Thursday 7/03/03	Monday 7/7/03	4	19	24	5	7
Labor Day	Friday 8/29/03	Tuesday 9/2/03	4	8	8	1	1
Thanksgiving Day	Wednesday 11/26/03	Monday 12/01/03	5	22	25	3	3
Christmas	Wednesday 12/24/03	Friday 12/26/03	2	5	5	2	2

Fatal Crashes by Year	New Year's	Memorial Day	July 4th	Labor Day	Thanks-giving	Christmas	Total
1999	6	13	5	13	13	5	55
2000	10	11	17	16	19	10	83
2001	10	16	4	15	11	15	71
2002	9	7	14	14	15	9	68
2003	3	10	19	8	22	5	67
Persons Killed	New Year's	Memorial Day	July 4th	Labor Day	Thanks-Giving	Christmas	Total
1999	7	16	7	13	14	9	66
2000	11	16	21	19	24	12	103
2001	13	18	4	15	14	15	79
2002	9	11	18	20	19	12	89
2003	3	12	24	8	25	5	77
Number of Days	New Year's	Memorial Day	July 4th	Labor Day	Thanks-giving	Christmas	Total
1999	3	3	3	3	4	2	18
2000	3	3	4	3	4	3	20
2001	4	4	2	4	5	4	23
2002	2	4	2	4	5	2	19
2003	2	4	4	4	5	2	21

Section 2: Geographic Location



Section 2: Geographic Location

**Tables 2-1, 2-2, and 2-3
Severity by First Harmful Event Statewide**

Statewide	Number of Crashes				Number of Persons	
	Total	Fatal	Injury	PDO	Killed	Injured
Overturning	3,002	245	1,641	1,116	283	3,050
Other Non-Collision	4,472	18	460	3,994	18	582
Pedestrian	1,595	123	1,374	98	123	1,511
Motor Veh. In Transit	99,796	390	34,511	64,895	481	57,751
Motor Veh. Other Roadway	29	1	13	15	1	27
Pedalcyclist	1,874	15	1,607	252	15	1,672
Animal	1,414	5	169	1,240	5	244
Fixed Object	13,413	124	4,026	9,263	140	5,279
Other Object	70	0	21	49	0	24
Misc.	5,230	50	1,355	3,825	52	1,761
TOTALS	130,895	971	45,177	84,747	1,118	71,901

Severity by First Harmful Event in Urban Areas

Urban	Number of Crashes				Number of Persons	
	Total	Fatal	Injury	PDO	Killed	Injured
Overturning	593	31	332	230	32	514
Other Non-Collision	3,833	4	383	3,446	4	466
Pedestrian	1,401	85	1,226	90	85	1,344
Motor Veh. In Transit	85,351	200	29,670	55,481	222	49,056
Motor Veh. Other Roadway	19	1	8	10	1	18
Pedalcyclist	1,713	11	1,476	226	11	1,527
Animal	154	0	19	135	0	23
Fixed Object	8,913	52	2,518	6,343	59	3,161
Other Object	14	0	5	9	0	6
Misc.	2,445	18	677	1,750	18	801
TOTALS	104,436	402	36,314	67,720	432	56,916

Severity by First Harmful Event in Rural Areas

Rural	Number of Crashes				Number of Persons	
	Total	Fatal	Injury	PDO	Killed	Injured
Overturning	2,409	214	1,309	886	251	2,536
Other Non-Collision	639	14	77	548	14	116
Pedestrian	194	38	148	8	38	167
Motor Veh. In Transit	14,445	190	4,841	9,414	259	8,695
Motor Veh. Other Roadway	10	0	5	5	0	9
Pedalcyclist	161	4	131	26	4	145
Animal	1,260	5	150	1,105	5	221
Fixed Object	4,500	72	1,508	2,920	81	2,118
Other Object	56	0	16	40	0	18
Misc.	2,785	32	678	2,075	34	960
TOTALS	26,459	569	8,863	17,027	686	14,985

**Table 2-4
Crashes by County**

County	Number of Crashes				Number of Persons	
	Total	Fatal	Injury	PDOs	Fatalities	Injuries
Apache	776	40	285	451	48	616
Cochise	2,165	42	654	1,469	51	1,063
Coconino	4,135	51	1,207	2,877	57	1,945
Gila	1,095	18	380	697	21	601
Graham	340	13	120	207	14	213
Greenlee	58	1	25	32	1	35
La Paz	569	30	197	342	39	378
Maricopa	84,619	414	29,455	54,750	455	46,768
Mohave	3,426	57	1,237	2,132	74	1,975
Navajo	1,431	52	473	906	59	763
Pima	21,591	99	7,672	13,820	118	11,906
Pinal	3,455	60	1,113	2,282	75	1,885
Santa Cruz	630	6	140	484	8	219
Yavapai	3,968	65	1,167	2,736	73	1,829
Yuma	2,637	23	1,052	1,562	25	1,706
Total	130,895	971	45,177	84,747	1,118	71,901

While rural crashes in Arizona accounted for 20.21% of all crashes, they accounted for 58.60% of all fatal crashes occurring in 2003

**Table 2-5
Analysis by Jurisdiction**

COUNTIES Cities	Total	Number of Crashes			No. of Persons		Alcohol-Related		
		Fatal	Injury	Property Damage	Killed	Injured	Crashes	Killed	Injured
APACHE COUNTY									
Eagar	47	1	11	35	1	15	4	1	4
St. Johns	16	1	3	12	2	8	1	0	1
Springerville	27	0	7	20	0	12	4	0	4
State Rural Roads	527	25	198	304	30	450	49	7	63
Other Rural Roads	159	13	66	80	15	131	35	6	46
TOTAL	776	40	285	451	48	616	93	14	118

Section 2: Geographic Location

COUNTIES Cities	Total	Number of Crashes			No. of Persons		Alcohol-Related		
		Fatal	Injury	Property Damage	Killed	Injured	Crashes	Killed	Injured
COCHISE COUNTY									
Benson	81	2	25	54	2	52	2	0	1
Bisbee	54	1	31	22	1	44	6	0	5
Douglas	288	0	49	239	0	72	23	0	8
Huachuca City	9	1	2	6	1	2	0	0	0
Sierra Vista	798	2	263	533	2	400	20	0	14
Tombstone	15	0	4	11	0	9	2	0	1
Willcox	47	0	9	38	0	13	1	0	0
State Rural Roads	595	27	183	385	35	314	26	6	22
Other Rural Roads	278	9	88	181	10	157	25	3	27
TOTAL	2,165	42	654	1,469	51	1,063	105	9	78
COCONINO COUNTY									
Flagstaff	1,945	5	521	1,419	5	799	98	0	62
Fredonia	6	0	4	2	0	4	0	0	0
Page	101	1	28	72	1	38	15	1	7
Sedona	288	3	74	211	3	108	18	2	11
Williams	98	0	24	74	0	46	2	0	1
State Rural Roads	1,336	28	431	877	34	753	73	2	83
Other Rural Roads	361	14	125	222	14	197	32	3	22
TOTAL	4,135	51	1,207	2,877	57	1,945	238	8	186
GILA COUNTY									
Globe	174	1	46	127	1	80	7	0	6
Hayden	0	0	0	0	0	0	0	0	0
Miami	25	0	8	17	0	12	0	0	0
Payson	228	0	80	148	0	116	11	0	15
Winkelman	0	0	0	0	0	0	0	0	0
State Rural Roads	521	11	197	313	13	309	35	0	37
Other Rural Roads	147	6	49	92	7	84	16	2	14
TOTAL	1,095	18	380	697	21	601	69	2	72
GRAHAM COUNTY									
Pima	3	0	1	2	0	1	0	0	0
Safford	115	1	38	76	1	73	9	0	3
Thatcher	64	0	24	40	0	34	6	0	6
State Rural Roads	98	9	38	51	10	71	4	0	5
Other Rural Roads	60	3	19	38	3	34	7	1	1
TOTAL	340	13	120	207	14	213	26	1	15

2003 Arizona Crash Facts Summary

COUNTIES Cities	Total	Number of Crashes			No. of Persons		Alcohol-Related		
		Fatal	Injury	Property Damage	Killed	Injured	Crashes	Killed	Injured
GREENLEE COUNTY									
Clifton	1	0	0	1	0	0	0	0	0
Duncan	1	0	0	1	0	0	0	0	0
State Rural Roads	55	1	25	29	1	35	2	0	2
Other Rural Roads	1	0	0	1	0	0	0	0	0
TOTAL	58	1	25	32	1	35	2	0	2
LA PAZ COUNTY									
Parker	81	0	27	54	0	38	7	0	5
Quartzite	59	3	16	40	3	28	3	1	2
State Rural Roads	370	23	123	224	31	269	19	2	18
Other Rural Roads	59	4	31	24	5	43	10	2	13
TOTAL	569	30	197	342	39	378	39	5	38
MARICOPA COUNTY									
Avondale	788	8	210	570	8	320	39	0	17
Buckeye	202	6	75	121	7	141	6	1	6
Carefree	18	0	5	13	0	8	0	0	0
Cave Creek	63	0	15	48	0	21	5	0	2
Chandler	4,388	11	1,289	3,088	11	1,963	237	4	183
El Mirage	169	1	69	99	1	105	13	0	13
Fountain Hills	162	2	38	122	3	59	6	0	4
Gila Bend	34	0	13	21	0	23	1	0	0
Gilbert	1,747	6	553	1,188	6	818	79	2	36
Glendale	4,861	16	1,492	3,353	19	2,404	245	3	179
Goodyear	591	3	200	388	4	325	35	1	25
Guadalupe	137	0	34	103	0	50	4	0	6
Litchfield Park	66	1	21	44	1	37	7	1	9
Mesa	10,263	35	3,298	6,930	36	4,938	542	8	388
Paradise Valley	221	0	73	148	0	104	14	0	4
Peoria	2,106	11	648	1,447	13	965	113	3	76
Phoenix	39,581	178	15,032	24,371	189	24,496	2,431	61	2,004
Queen Creek	29	0	11	18	0	12	1	0	0
Scottsdale	4,169	12	1,391	2,766	13	2,078	364	4	236
Surprise	475	1	174	300	2	286	19	0	9
Tempe	8,243	27	2,596	5,620	31	3,950	468	14	341
Tolleson	269	2	96	171	2	176	16	2	19
Wickenburg	76	0	25	51	0	31	2	0	0
Youngtown	22	0	12	10	0	18	1	0	0
State Rural Roads	2,764	52	914	1,798	64	1,571	137	14	135
Other Rural Roads	3,175	42	1,171	1,962	45	1,869	228	18	195
TOTAL	84,619	414	29,455	54,750	455	46,768	5,013	136	3,887

Section 2: Geographic Location

COUNTIES Cities	Total	Number of Crashes			No. of Persons		Alcohol-Related		
		Fatal	Injury	Property Damage	Killed	Injured	Crashes	Killed	Injured
MOHAVE COUNTY									
Bullhead City	853	5	280	568	6	440	64	0	46
Colorado City	29	0	8	21	0	12	1	0	0
Kingman	572	1	222	349	1	317	28	0	22
Lake Havasu City	671	3	239	429	3	365	65	2	38
State Rural Roads	885	34	327	524	50	588	54	17	57
Other Rural Roads	416	14	161	241	14	253	45	3	41
TOTAL	3,426	57	1,237	2,132	74	1,975	257	22	204
NAVAJO COUNTY									
Holbrook	99	0	32	67	0	46	3	0	1
Pinetop-Lakeside	115	2	35	78	3	53	9	1	10
Show Low	180	0	65	115	0	99	11	0	15
Snowflake	94	1	23	70	1	41	7	0	3
Taylor	28	1	7	20	1	8	2	1	0
Winslow	183	3	41	139	3	68	18	0	13
State Rural Roads	531	27	206	298	33	348	51	13	48
Other Rural Roads	201	18	64	119	18	100	28	5	29
TOTAL	1,431	52	473	906	59	763	129	20	119
PIMA COUNTY									
Marana	879	7	219	653	7	336	40	2	27
Oro Valley	358	1	107	250	1	167	6	0	6
Sahuarita	78	1	28	49	4	54	2	0	1
South Tucson	256	2	73	181	2	128	15	0	7
Tucson	14,964	37	5,565	9,362	38	8,414	681	5	579
State Rural Roads	1,149	22	407	720	30	806	68	2	77
Other Rural Roads	3,907	29	1,273	2,605	36	2,001	264	19	184
TOTAL	21,591	99	7,672	13,820	118	11,906	1,076	28	881
PINAL COUNTY									
Apache Junction	453	3	148	302	3	225	34	1	20
Casa Grande	851	8	245	598	8	394	49	0	29
Coolidge	114	1	37	76	2	58	6	0	5
Eloy	192	3	49	140	3	80	15	0	6
Florence	55	0	10	45	0	14	1	0	1
Kearny	3	0	0	3	0	0	0	0	0
Mammoth	7	0	2	5	0	2	1	0	1
Superior	33	0	12	21	0	20	5	0	7
State Rural Roads	1,069	28	402	639	37	754	87	10	110
Other Rural Roads	678	17	208	453	22	338	67	12	62
TOTAL	3,455	60	1,113	2,282	75	1,885	265	23	241

2003 Arizona Crash Facts Summary

COUNTIES Cities	Total	Number of Crashes			No. of Persons		Alcohol-Related		
		Fatal	Injury	Property Damage	Killed	Injured	Crashes	Killed	Injured
SANTA CRUZ COUNTY									
Nogales	381	1	72	308	2	102	18	0	7
Patagonia	0	0	0	0	0	0	0	0	0
State Rural Roads	229	3	62	164	4	108	12	1	10
Other Rural Roads	20	2	6	12	2	9	2	1	0
TOTAL	630	6	140	484	8	219	32	2	17
YAVAPAI COUNTY									
Camp Verde	201	3	60	138	3	94	23	2	18
Chino Valley	114	1	42	71	1	70	10	1	10
Clarkdale	7	0	3	4	0	4	2	0	2
Cottonwood	265	2	93	170	2	137	14	1	13
Jerome	19	1	2	16	1	2	4	1	1
Prescott	1,027	4	269	754	5	375	52	2	48
Prescott Valley	487	2	118	367	2	166	40	0	29
State Rural Roads	1,391	43	435	913	49	741	71	7	59
Other Rural Roads	457	9	145	303	10	240	42	5	42
TOTAL	3,968	65	1,167	2,736	73	1,829	258	19	222
YUMA COUNTY									
San Luis	3	0	1	2	0	1	0	0	0
Somerton	8	0	0	8	0	0	1	0	0
Wellton	6	0	1	5	0	2	0	0	0
Yuma	1,740	8	749	983	9	1,205	141	5	95
State Rural Roads	323	10	102	211	11	187	20	3	17
Other Rural Roads	557	5	199	353	5	311	36	1	23
TOTAL	2,637	23	1,052	1,562	25	1,706	198	9	135
STATEWIDE TOTAL	130,895	971	45,177	84,747	1,118	71,901	7,800	298	6,215

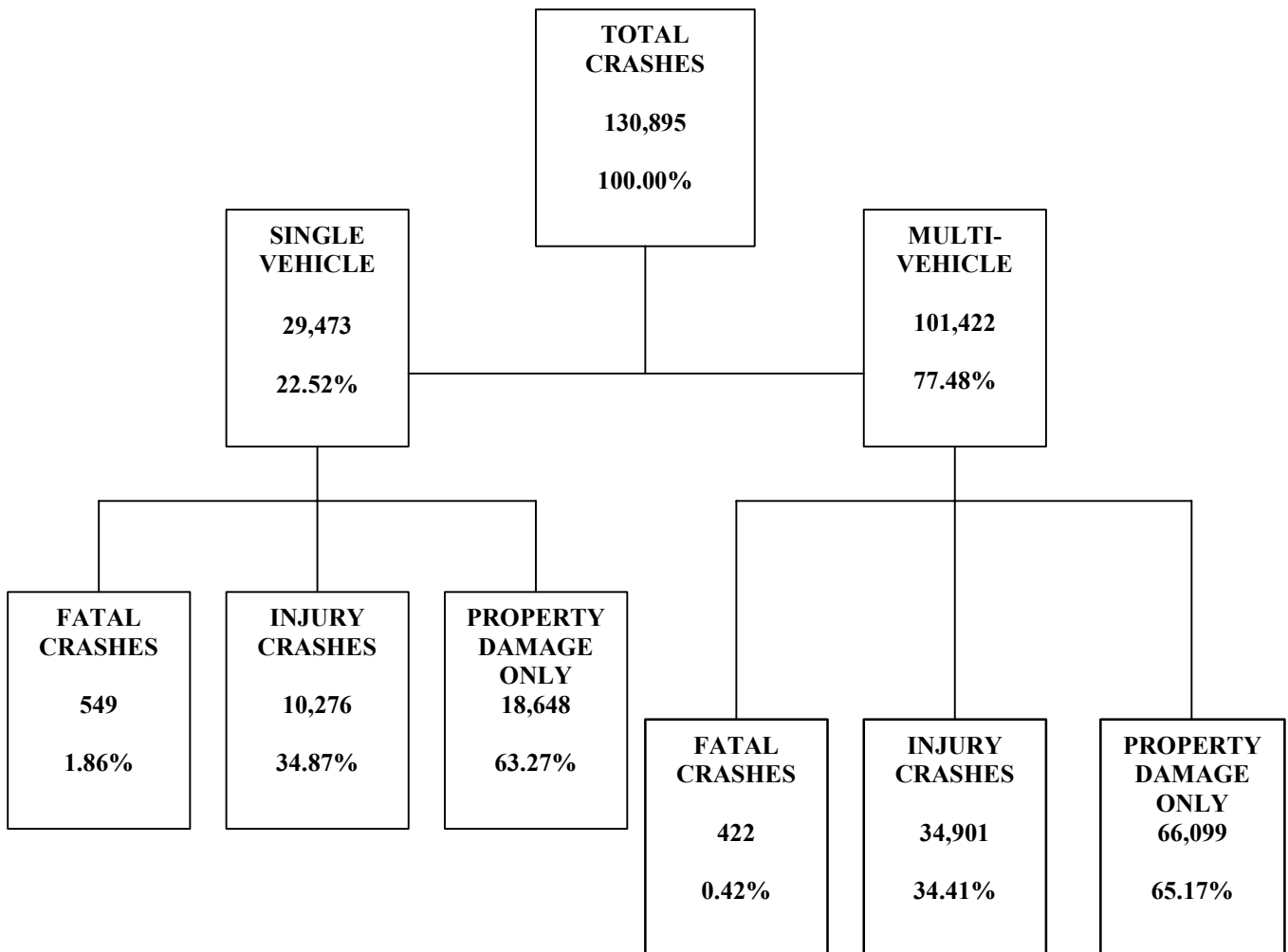
Some individual city data may be incomplete due to lack of timely reporting.

Totals within city and town jurisdictions include all state highways.

About 60.3% of Arizona's population resides in Maricopa County, but only 45.2% of all fatal crashes occurred there in 2003.

Section 3: Crash Descriptions

Section 3: Crash Descriptions



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

Manner of Collision	Total	Percent of All Crashes	Fatal		Injury	
			Fatal	Percent of Fatal Crashes	Injury	Percent of Injury Crashes
Head On	835	0.82%	107	25.36%	449	1.29%
Rear End	46,570	45.92%	60	14.22%	16,299	46.70%
Side Swipe Opposite Direction	956	0.94%	16	3.79%	326	0.93%
Side Swipe Same Direction	13,183	13.00%	22	5.21%	2,048	5.87%
Left Turn	12,386	12.21%	59	13.98%	6,069	17.39%
Other Angle	20,849	20.56%	119	28.20%	8,354	23.94%
Backed Into	2,129	2.10%	0	0.00%	142	0.41%
U-Turn	1,485	1.46%	3	0.71%	456	1.31%
Other	3,029	2.99%	36	8.53%	758	2.17%
TOTAL	101,422	100.00%	422	100.00%	34,901	100.00%

**Table 3-2
Unusual Road Conditions**

Unusual Road Conditions	Number of Crashes				Number of Victims	
	Total	Fatal	Injury	PDO	Killed	Injured
No Unusual Condition	125,186	938	43,442	80,806	1,082	69,166
Under Construction Thru Traffic Allowed	3,696	18	1,048	2,630	20	1,655
Under Construction Traffic Detoured	69	0	27	42	0	32
Under Repairs	82	0	33	49	0	47
Holes, Ruts, Bumps	350	4	152	194	4	234
Obstruction Protected	41	0	14	27	0	28
Obstruction Unprotected	101	0	20	81	0	25
Obstruction Unlighted at Night	128	0	49	79	0	78
Defective Shoulders	38	0	10	28	0	11
Changing Road Width	356	4	109	243	4	193
Flooded	493	5	148	340	6	226
Temporary Lane Closure	355	2	125	228	2	206
TOTALS	130,895	971	45,177	84,747	1,118	71,901

Section 3: Crash Descriptions

**Table 3-3
Weather Conditions**

Weather	Number of Crashes				Number of Persons	
	Total	Fatal	Injury	PDO	Killed	Injured
Clear	111,481	780	38,583	72,118	894	61,506
Raining	5,294	19	1,756	3,519	23	2,682
Cloudy	12,406	85	4,368	7,953	100	6,876
Snow, Sleet, Hail	882	9	247	626	9	430
Strong Wind	125	4	36	85	4	71
Blowing Sand	119	4	42	73	4	99
Fog, Smoke, Smog	91	0	31	60	0	48
Not Reported	497	70	114	313	84	189
TOTALS	130,895	971	45,177	84,747	1,118	71,901

**Table 3-4
Lighting Conditions**

Lighting	Number of Crashes				Number of Persons	
	Total	Fatal	Injury	PDO	Killed	Injured
Daylight	93,308	462	32,129	60,717	533	50,510
Dawn or Dusk	6,649	81	2,317	4,251	93	3,712
Darkness	30,656	424	10,677	19,555	488	17,586
Not Reported	282	4	54	224	4	93
TOTALS	130,895	971	45,177	84,747	1,118	71,901

**Table 3-5
Road Surface**

Surface	Number of Crashes				Number of Persons	
	Total	Fatal	Injury	PDO	Killed	Injured
Asphalt	116,317	832	40,663	74,822	965	65,183
Concrete	12,445	40	3,812	8,593	44	5,614
Gravel	316	7	82	227	7	112
Dirt	1,319	29	471	819	30	751
Other	78	1	34	43	1	55
Not Reported	420	62	115	243	71	186
TOTALS	130,895	971	45,177	84,747	1,118	71,901

**Table 3-6
Road Surface Conditions**

Surface	Number of Crashes				Number of Persons	
	Total	Fatal	Injury	PDO	Killed	Injured
Wet	7,543	27	2,454	5,062	31	3,773
Loose Dirt, Sand, Etc.	733	10	254	469	10	375
Snowy or Icy	967	14	266	687	15	469
Other	72	0	17	55	0	26
Unknown	626	3	156	467	3	225
Dry, No Unusual Cond.	120,954	917	42,030	78,007	1,059	67,033
TOTALS	130,895	971	45,177	84,747	1,118	71,901

The USDOT estimates that 67% of traffic fatalities are caused by Aggressive Drivers.

**Table 3-7
Road Grade**

Road Grade	Number of Crashes				Number of Persons	
	Total	Fatal	Injury	PDO	Killed	Injured
Level	117,465	723	40,660	76,082	826	64,614
Downgrade	7,002	133	2,411	4,458	152	3,996
Upgrade	5,048	61	1,621	3,366	75	2,458
Hill Crest	376	9	155	212	9	276
Dip	182	2	68	112	2	113
Not Reported	822	43	262	517	54	444
TOTALS	130,895	971	45,177	84,747	1,118	71,901

Section 3: Crash Descriptions

Figure 3-1
Crashes by Time of Day
Weekdays

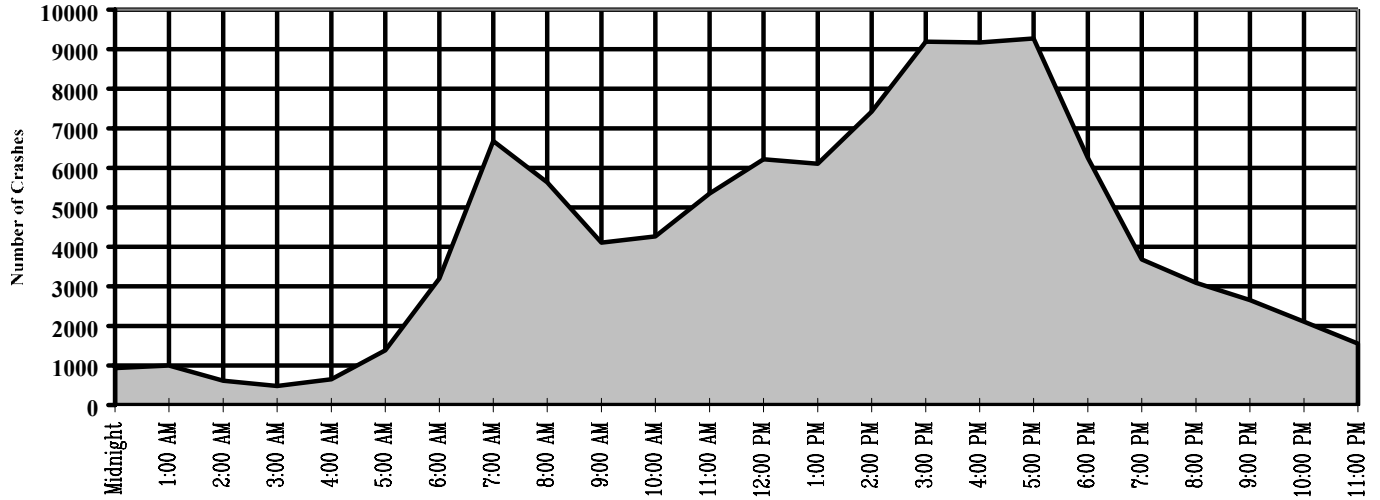
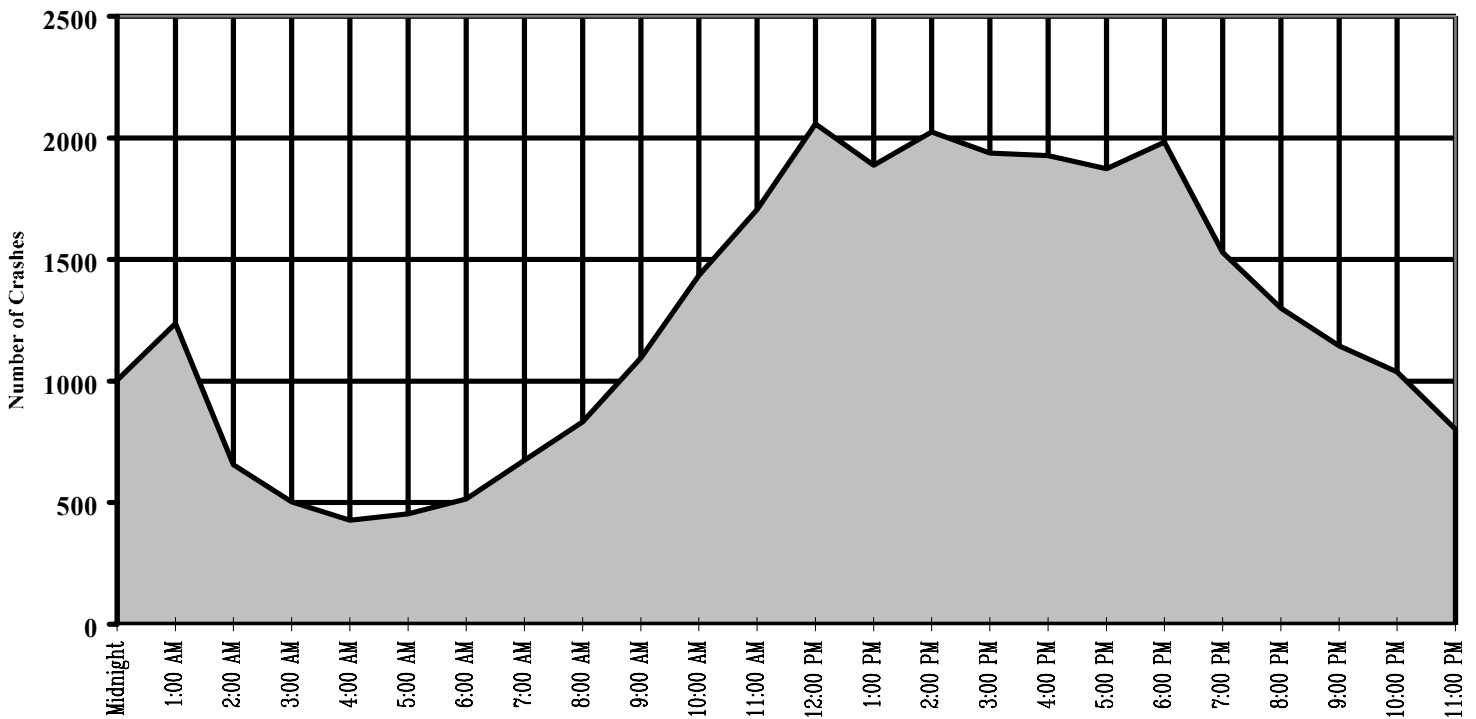
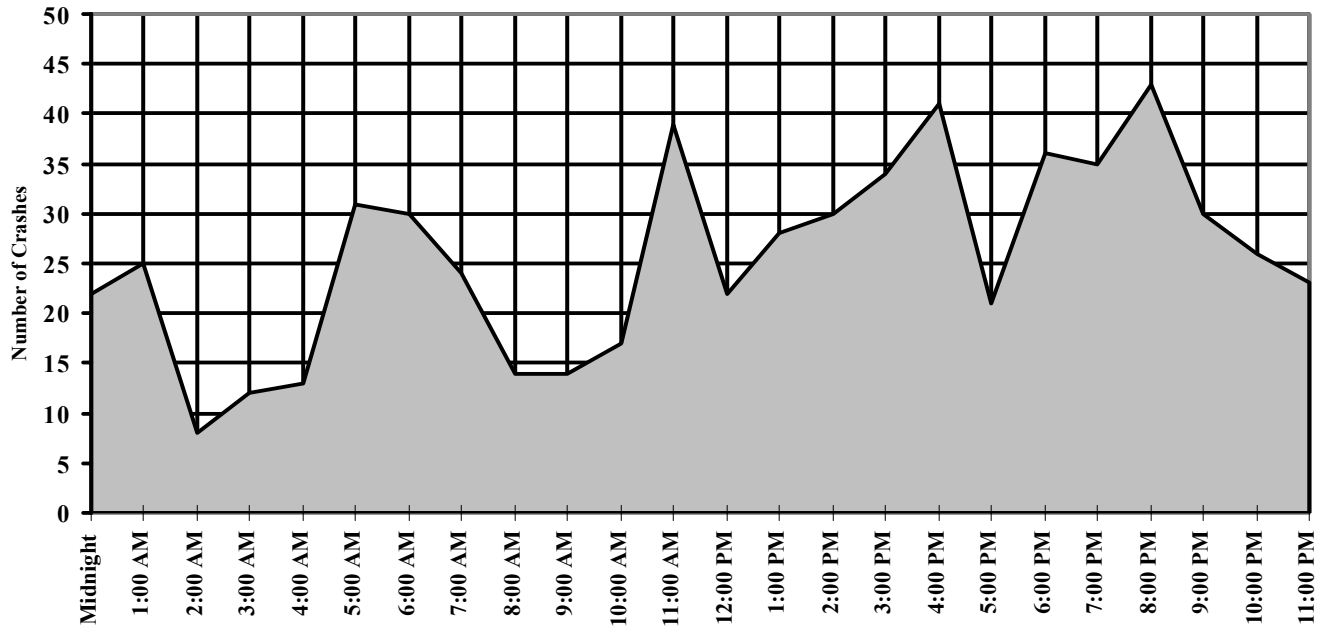


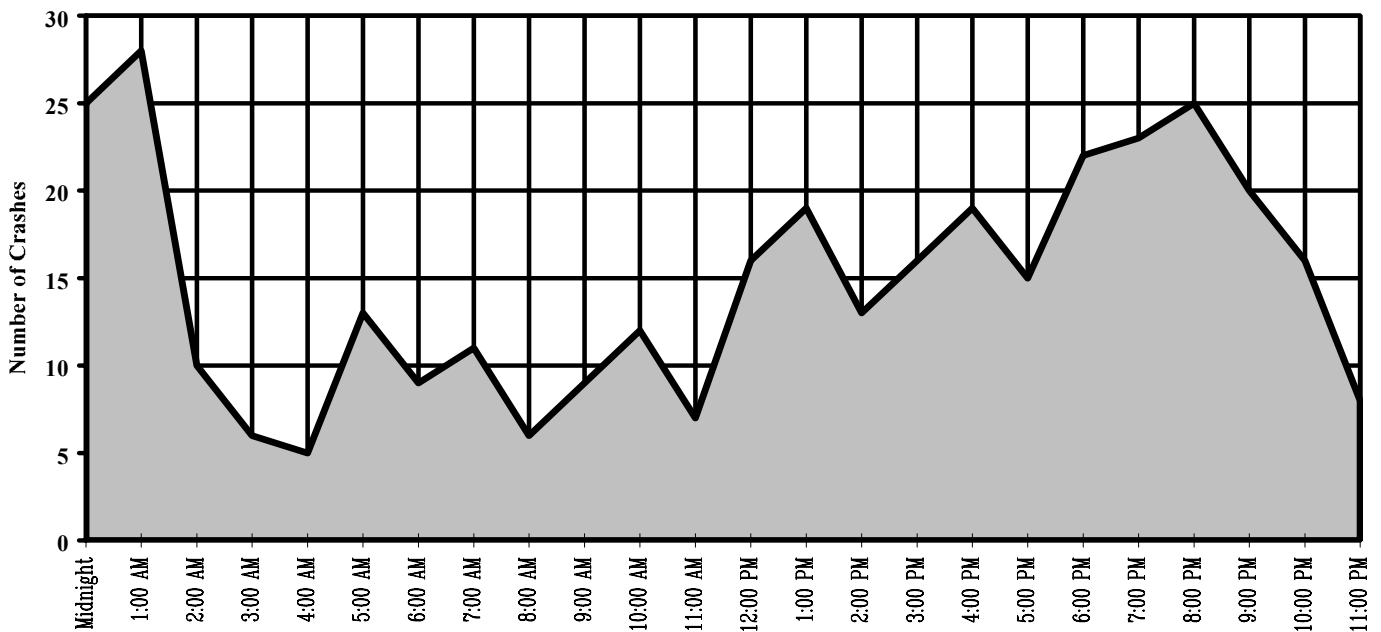
Figure 3-2
Crashes by Time of Day
Weekends



**Figure 3-3
Fatal Crashes by Time of Day
Weekdays**

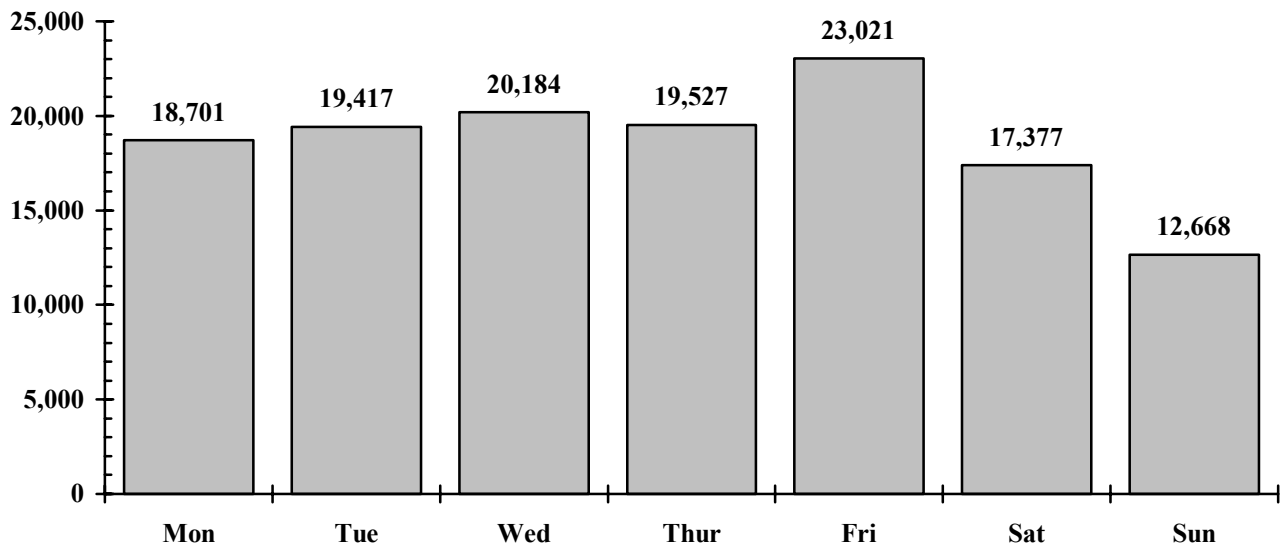


**Figure 3-4
Fatal Crashes by Time of Day
Weekends**

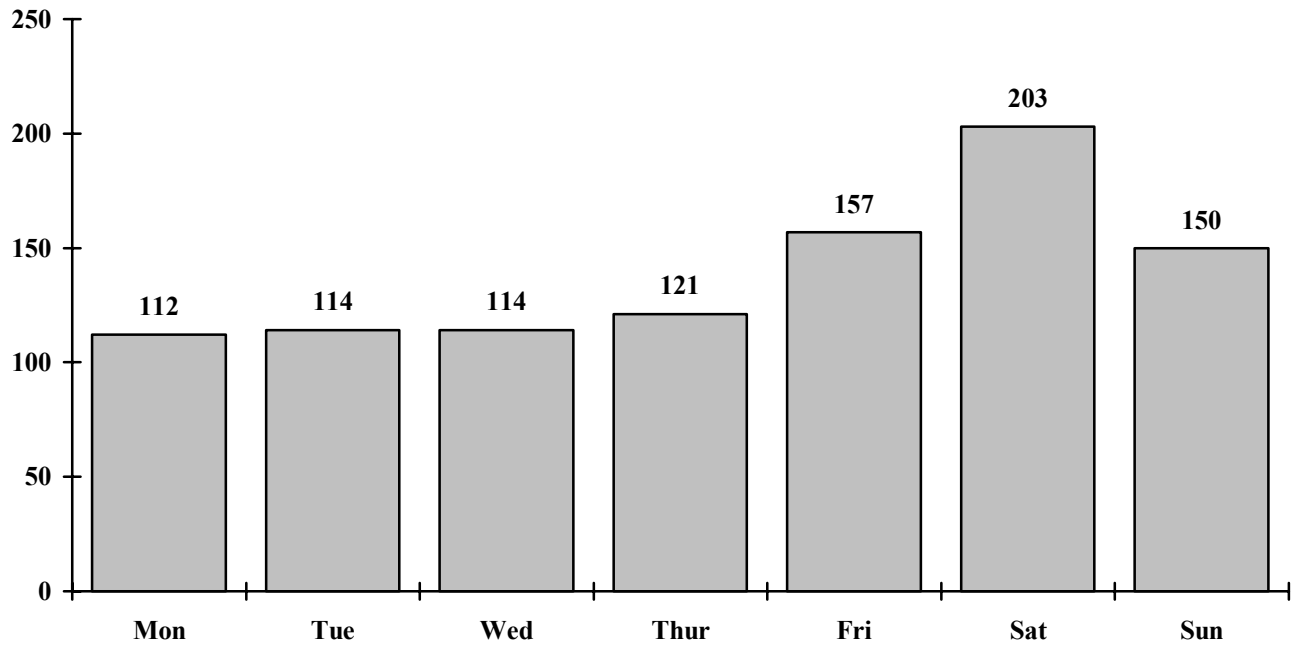


Section 3: Crash Descriptions

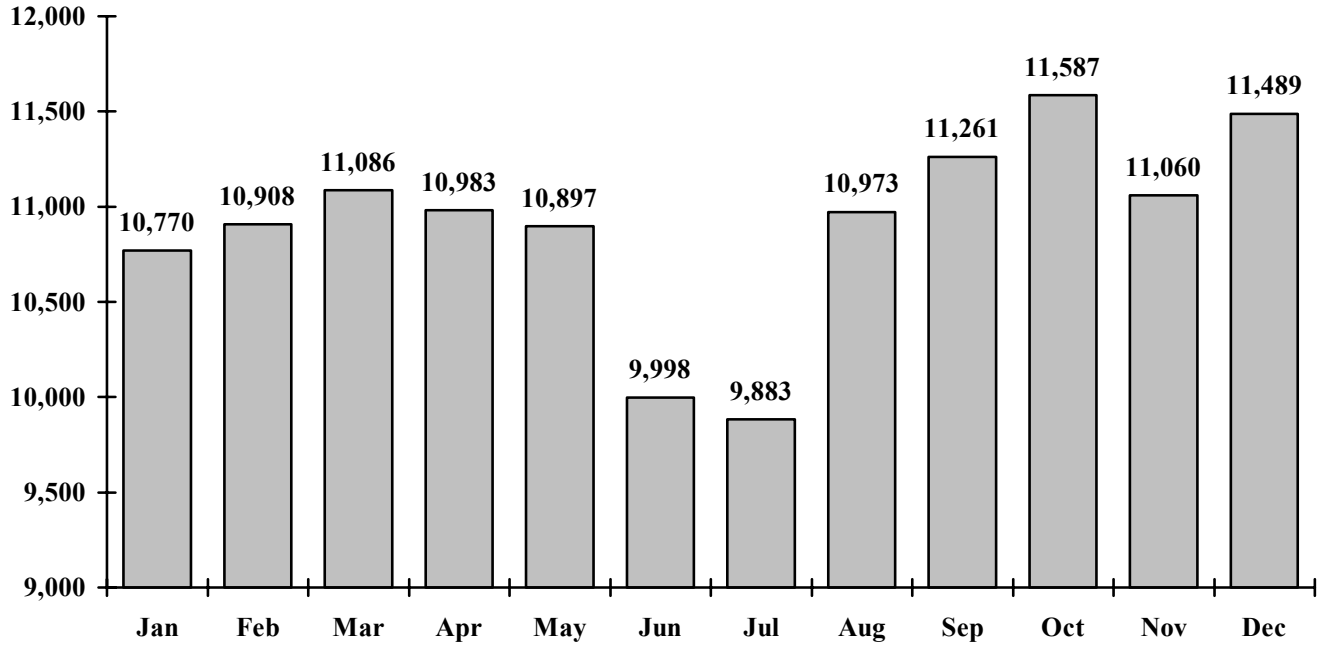
**Figure 3-5
Crashes by Day of Week**



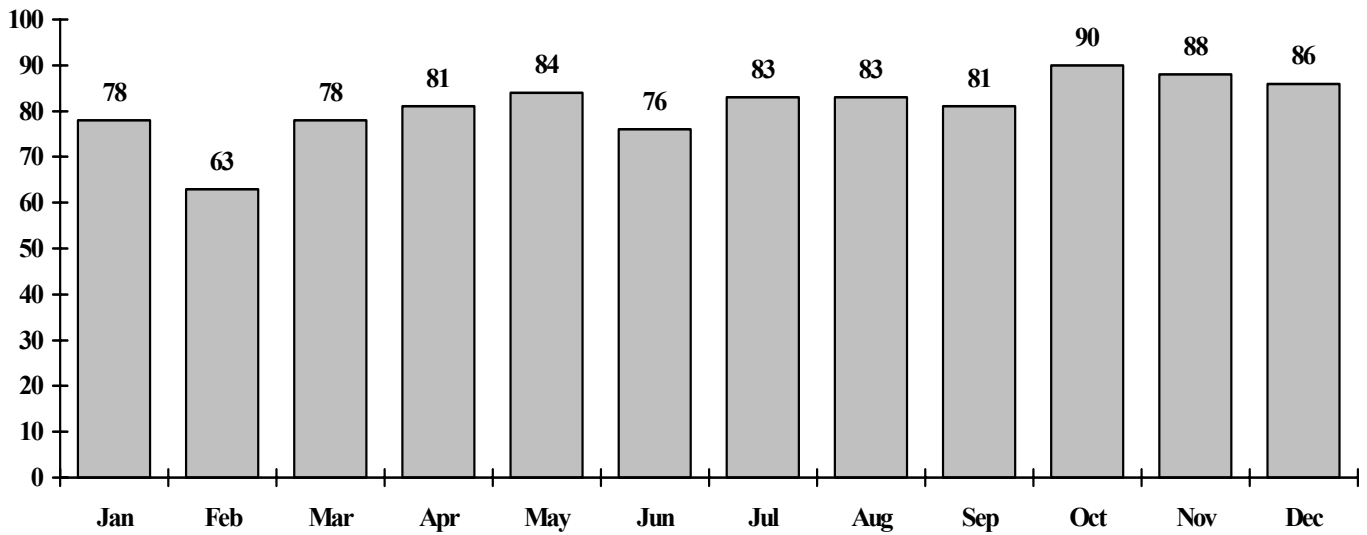
**Figure 3-6
Fatal Crashes by Day of Week**



**Figure 3-7
Crashes by Month**



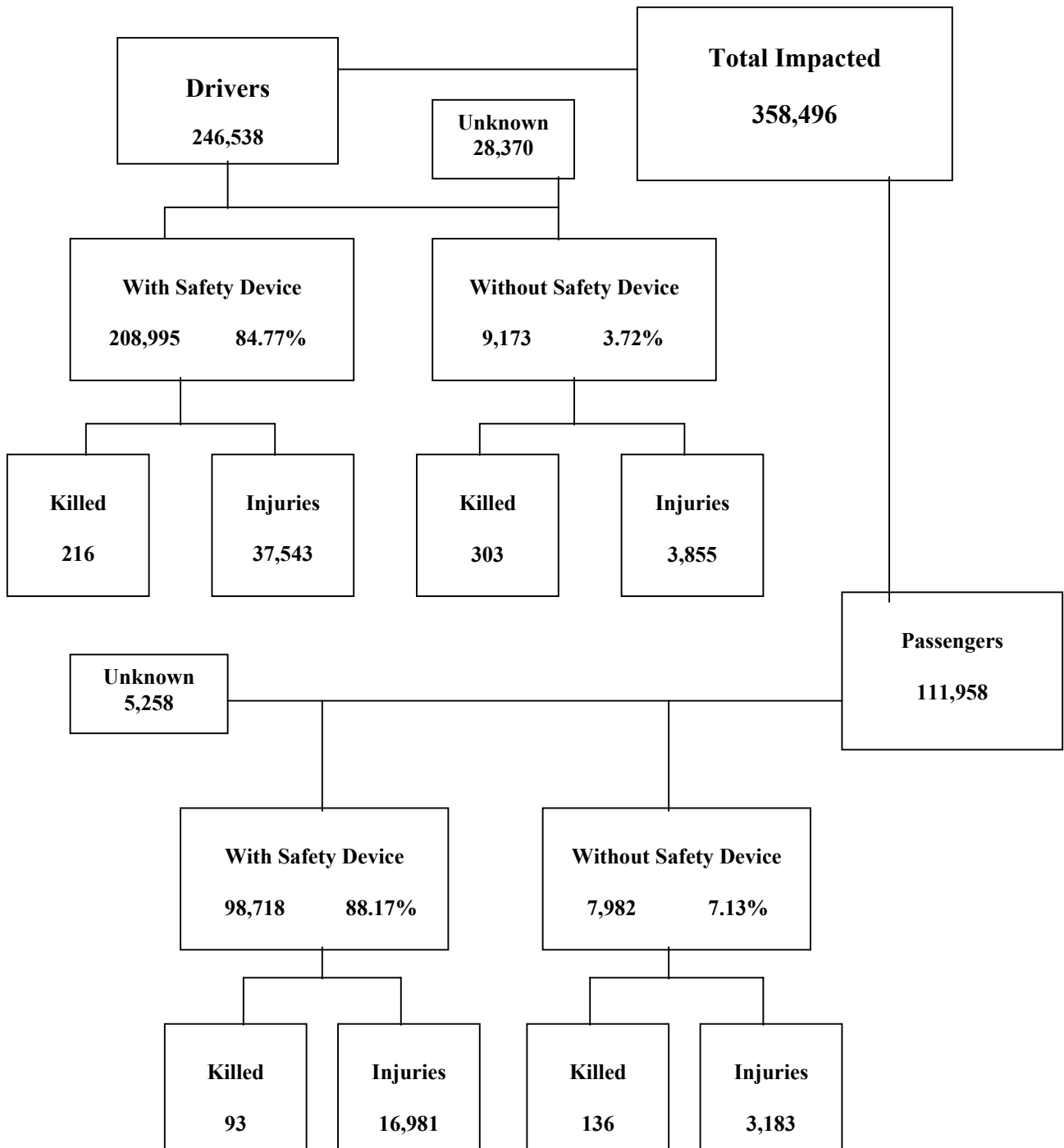
**Figure 3-8
Fatal Crashes by Month**



**Table 3-9
Crashes by Hour and Day of Week**

Hour Beginning	Total Crashes		Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal
Midnight	1,941	47	199	4	158	3	179	5	169	5	232	5	499	13	505	12
1:00	2,240	53	193	6	151	1	175	3	221	4	263	11	617	19	620	9
2:00	1,276	18	128	4	98	1	129	0	99	1	166	2	336	5	320	5
3:00	983	18	94	2	76	1	86	1	104	7	120	1	250	1	253	5
4:00	1,079	18	133	1	119	1	122	3	106	5	171	3	234	5	194	0
5:00	1,836	44	266	5	270	7	312	8	296	4	237	7	236	8	219	5
6:00	3,716	39	629	6	676	8	656	6	654	6	586	4	288	5	227	4
7:00	7,356	35	1,312	6	1,468	3	1,397	6	1,309	4	1,196	5	422	9	252	2
8:00	6,468	20	1,084	2	1,161	2	1,182	4	1,103	2	1,105	4	545	6	288	0
9:00	5,024	23	803	4	754	1	784	3	748	2	839	4	685	5	411	4
10:00	5,702	29	825	2	846	3	861	6	829	3	907	3	906	7	528	5
11:00	7,057	46	1,033	6	1,035	6	1,051	5	1,018	9	1,214	13	1,042	4	664	3
Noon	8,275	38	1,192	5	1,202	3	1,233	5	1,171	6	1,419	3	1,231	12	827	4
1:00	7,989	47	1,212	7	1,176	4	1,247	7	1,071	5	1,395	5	1,098	8	790	11
2:00	9,449	43	1,393	7	1,424	9	1,492	0	1,400	5	1,715	9	1,210	9	815	4
3:00	11,126	50	1,765	5	1,723	8	1,839	8	1,747	8	2,115	5	1,122	4	815	12
4:00	11,094	60	1,613	8	1,827	10	1,820	4	1,766	9	2,141	10	1,074	8	853	11
5:00	11,139	36	1,691	3	1,773	3	1,853	5	1,910	6	2,039	4	1,021	6	852	9
6:00	8,237	58	1,061	5	1,140	9	1,352	6	1,241	2	1,461	14	1,109	14	873	8
7:00	5,215	58	597	5	676	8	711	7	737	5	965	10	841	15	688	8
8:00	4,395	68	530	9	579	8	605	4	604	9	777	13	734	15	566	10
9:00	3,799	50	440	4	487	7	501	7	551	5	675	7	701	15	444	5
10:00	3,143	42	303	3	356	5	327	4	397	3	722	11	651	6	387	10
11:00	2,356	31	205	3	242	3	270	7	276	6	561	4	525	4	277	4
TOTALS	130,895	971	18,701	112	19,417	114	20,184	114	19,527	121	23,021	157	17,377	203	12,668	150

Section 4: Safety Devices



In this chart, "Unknown" represents incidents where the reporting officer could not discern whether a safety device was in use at the time of the crash. For this reason fatalities and injuries occurring where use was unknown are not included. Motorcycle operators are included in this chart under "Drivers." "Safety devices" refer to the use of helmets or safety belts depending on the mode of transportation. For a detailed analysis of motorcycle helmet use, see Section 8: Motorcycle Crashes.

Section 4: Safety Devices

Arizona law requires young children to be restrained when riding in a motor vehicle.

A.R.S. Title 28-907 states "...a person shall not operate a motor vehicle on the highways in this state when transporting a child who is under five years of age unless that child is properly secured in a child passenger restraint system."

**Table 4-1
Child Restraint Usage (less than five years old)**

Severity of Injury	Restraint Used	Percent of Restraint Used	No Restraint Used	Percent of No Restraint	Not Reported	Percent of Unknown
No injury	11,791	89.29%	392	64.69%	368	76.99%
Possible injury	879	6.66%	88	14.52%	55	11.51%
Injury	394	2.98%	113	18.65%	27	5.65%
Fatality	6	0.05%	6	0.99%	2	0.42%
Unknown	135	1.02%	7	1.16%	26	5.44%
Totals	13,205	100.00%	606	100.00%	478	100.00%

The most dangerous place for a child to travel in a car is in your lap. This is often called the "child crusher position." In a crash of approximately 30 mph, a 10 lb infant will be ripped from a belted adult's arms with a force of almost 200 pounds. If the adult is unbelted, the child is likely to be crushed between the adult's body and the dashboard.

Wearing a seat belt isn't just good idea, in Arizona it's the law.

**Table 4-2
Driver Restraint Usage**

Severity of Injury	Restraint Used	Percent of Restraint Used	No Restraint Used	Percent of No Restraint	Not Reported	Percent of Unknown
No injury	169,245	80.98%	4,795	52.27%	9,748	34.36%
Possible injury	23,554	11.27%	1,180	12.86%	1,650	5.82%
Injury	13,989	6.69%	2,675	29.16%	2,427	8.55%
Fatality	216	0.10%	303	3.30%	114	0.40%
Unknown	1991	0.95%	220	2.40%	14,431	50.87%
Total	208,995	100.00%	9,173	100.00%	28,370	100.00%

Excludes all motorcycle, motor scooter, moped, and golf cart operators.

**Table 4-3
*Front-Seat Passenger Restraint Usage**

Severity of Injury	Restraint Used	Percent of Restraint Used	No Restraint Used	Percent of No Restraint	Not Reported	Percent of Unknown
No injury	45,573	79.23%	2,034	52.67%	1,873	62.75%
Possible injury	7,198	12.51%	636	16.47%	361	12.09%
Injury	4,317	7.51%	1,087	28.15%	531	17.79%
Fatality	70	0.12%	70	1.81%	26	0.87%
Unknown	361	0.63%	35	0.91%	194	6.50%
Total	57,519	100.00%	3,862	100.00%	2,985	100.00%

*Excludes data in Table 4-1

It is estimated that safety belts save the lives of more than 14,000 motorists each year, and about \$50 billion in medical care, lost productivity, and other injury related costs nationwide.

Section 4: Safety Devices

The National Center for Statistics and Analysis states that, in 2003, Arizona lead the nation in increased seat belt use, converting nearly one half of its non users to users in a single year.

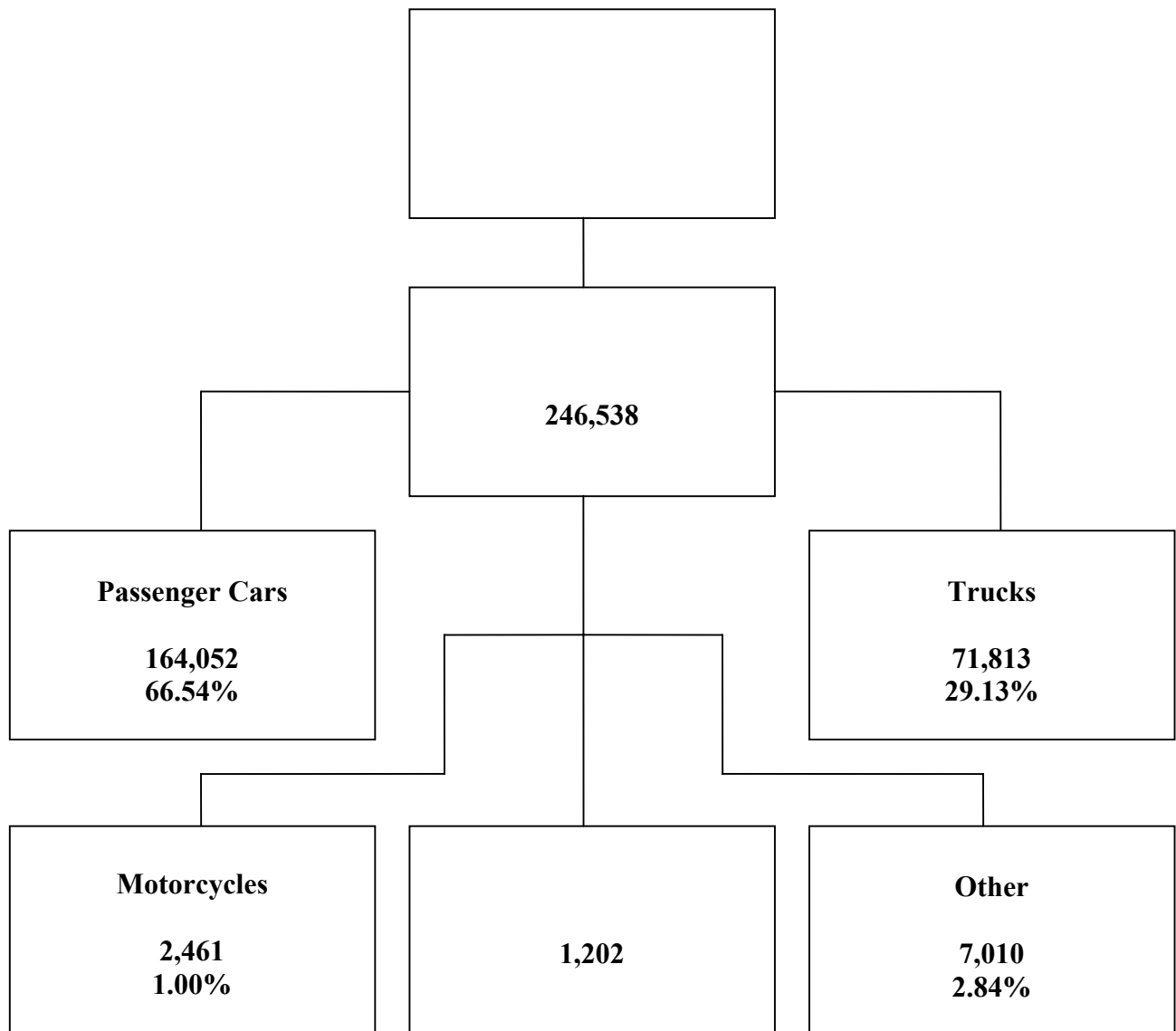
**Table 4-4
*Rear-Seat Passenger Restraint Usage**

Severity of Injury	Restraint Used	Percent of Restraint Used	No Restraint Used	Percent of No Restraint	Not Reported	Percent of Unknown
No injury	23,601	84.31%	2,172	61.81%	1,302	72.54%
Possible injury	2,649	9.46%	532	15.14%	197	10.97%
Injury	1,544	5.52%	727	20.69%	202	11.25%
Fatality	17	0.06%	60	1.71%	16	0.89%
Unknown	183	0.65%	23	0.65%	78	4.35%
Total	27,994	100.00%	3,514	100.00%	1,795	100.00%

*Excludes data in Table 4-1

Arizona's overall seat belt use increased from 74% in 2002, to 86% in 2003.

**Section 5:
Motor Vehicle and Driver Descriptions**



***Includes driverless or illegally parked vehicles.**

Section 5: Motor Vehicle and Driver Characteristics

Table 5-1
Arizona Motor Vehicle Registrations

Privately Owned Vehicles	3,591,921
Commercial Vehicles	470,370
Buses and Taxis	3,344
Motorcycles*	127,028
Mopeds	599
Total	4,193,262

*Includes 3 & 4 wheel ATVs and golf carts.

Data provided by, and inquiries should be directed to, Motor Vehicles Division
Strategic Planning and Statistical Reports..

Table 5-2
Motor Vehicle Crash Involvement by Vehicle Type

Motor Vehicle Type	Total	Percent	Fatal	Injury	PDOs
Passenger Car (Includes cars with trailer)	164,052	66.54%	766	60,463	102,823
Pickup Truck (Incl. Panel & Mini Bus)	63,677	25.83%	426	21,612	41,639
Pickup Truck With Camper	33	0.01%	0	11	22
Other Vehicle With Camper	5	0.00%	0	2	3
Truck or Truck Tractor (Excl. P/U)	171	0.07%	1	48	122
Truck Tractor and Semi-Trailer	3,979	1.61%	79	963	2,937
Other Truck Combination	3,953	1.60%	29	1,090	2,834
Farm Tractor and/or Farm Equipment	29	0.01%	0	17	12
Taxicab	234	0.09%	3	99	132
Bus	823	0.33%	4	216	603
School Bus	488	0.20%	3	110	375
Motorcycle	2,461	1.00%	115	1,942	404
Motor Scooter or Motor Bicycle	11	0.00%	0	8	3
Moped	14	0.01%	0	11	3
Recreational Vehicle	76	0.03%	2	34	40
Motor Home or House Car	345	0.14%	4	64	277
Vehicle With Special Controls (Dual, Etc.)	0	0.00%	0	0	0
Emergency Veh. (Inc. Privately Owned)	167	0.07%	1	57	109
Military Vehicles	2	0.00%	0	2	0
Other Types Of Vehicles	256	0.10%	4	101	151
Vehicle Type Not Reported	5,762	2.34%	76	1,186	4,500
TOTALS	246,538	100.00%	1,513	88,036	156,989

Table 5-3
Hit and Run Drivers

Hit And Run?	Number of Crashes				Number of Persons	
	Total	Fatal	Injury	PDOs	Killed	Injured
Yes	15,803	39	3,678	12,086	39	5,240
No	115,092	936	41,499	72,657	1,079	66,661
TOTALS	130,895	971	45,177	84,743	1,118	71,901

**Table 5-4
Gender of Drivers Involved in Crashes**

Gender of Driver	Total		Fatal		Injury	
	Total	Percent	Fatal	Percent	Injury	Percent
Male	141,592	57.43%	1,051	69.46%	49,831	56.60%
Female	94,477	38.32%	387	25.58%	36,353	41.29%
Not Reported	10,469	4.25%	75	4.96%	1,852	2.10%
TOTALS	246,538	100.00%	1,513	100.00%	88,036	100.00%

**Table 5-5
Residence of Drivers Involved in Crashes**

Residence of Driver	Total		Fatal		Injury		PDOs	
	Total	Percent	Fatal	Percent	Injury	Percent	PDOs	Percent
Arizona	195,277	79.21%	1,015	67.09%	71,219	80.90%	123,043	78.38%
Non-Resident	48,032	19.48%	498	32.91%	15,447	17.55%	32,087	20.44%
Not Reported	3,229	1.31%	0	0.00%	1,370	1.55%	1,859	1.18%
TOTALS	246,538	100.00%	1,513	100.00%	88,036	100.00%	156,989	100.00%

**Table 5-6
Drivers and Occupants Killed and Injured by Vehicle Type**

Type of Motor Vehicle	Drivers		Occupants	
	Killed	Injured	Killed	Injured
Passenger Car (Includes Cars With Trailer)	316	33,014	211	17,036
Pickup Truck (Incl. Panel & Mini Bus)	155	9,637	98	5,299
Pickup Truck With Camper	0	8	0	9
Other Vehicle With Camper	0	1	0	0
Truck or Truck Tractor (Excl. P/U)	0	10	0	2
Truck Tractor and Semi-Trailer	8	227	1	63
Other Truck Combination	4	307	0	115
Farm Tractor and/or Farm Equipment	0	6	0	1
Taxicab	3	49	0	38
Bus	1	50	3	276
School Bus	0	21	0	63
Motorcycle	104	1,884	7	214
Motor Scooter or Motor Bicycle	0	8	0	0
Moped	0	10	0	0
Recreational Vehicle	1	18	1	14
Motor Home or House Car	0	15	1	19
Vehicle With Special Controls (Dual, Etc.)	0	0	0	0
Emergency Veh. (Inc. Privately Owned)	0	35	0	15
Military Vehicles	0	1	0	2
Other Types Of Vehicles	2	63	0	19
Vehicle Type Not Reported	36	111	25	71
TOTALS	630	45,475	347	23,256

Section 5: Motor Vehicle and Driver Characteristics

Table 5-7
Licensed Drivers in Arizona by Age

Driver Age Group	Male Number	Percent	Female Number	Percent	Total Number	Percent	Cumulative Percent
16	10,514	0.54%	9,780	0.52%	20,294	0.53%	0.53%
17	17,777	0.92%	16,274	0.86%	34,051	0.89%	1.42%
18	22,229	1.15%	20,288	1.08%	42,517	1.11%	2.54%
19	24,271	1.25%	22,193	1.18%	46,464	1.22%	3.75%
20	27,321	1.41%	24,822	1.32%	52,143	1.37%	5.12%
21	29,040	1.50%	26,656	1.41%	55,696	1.46%	6.58%
22	30,112	1.56%	28,447	1.51%	58,559	1.53%	8.11%
23	31,850	1.65%	29,631	1.57%	61,481	1.61%	9.72%
24	32,612	1.69%	30,877	1.64%	63,489	1.66%	11.38%
25-34	377,814	19.53%	346,674	18.38%	724,488	18.97%	30.35%
35-44	407,516	21.07%	390,422	20.70%	797,938	20.89%	51.24%
45-54	371,080	19.19%	375,417	19.91%	746,497	19.54%	70.78%
55-64	266,884	13.80%	272,161	14.43%	539,045	14.11%	84.89%
65-74	162,732	8.41%	162,274	8.61%	325,006	8.51%	93.39%
75 & Older	122,447	6.33%	129,708	6.88%	252,155	6.60%	100.00%
TOTALS	1,934,199	100.00%	1,885,624	100.00%	3,819,823	100.00%	100.00%

Source: Motor Vehicle Division: Strategic Planning and Statistical Reports

Drivers 65 years old and older represent 14.7% of the licensed driver population, but only 7.1% of the total drivers involved in crashes.

Table 5-8
Driver Involvement by Age

Driver Age Group	Total	Percent	Fatal	Percent	Injury	Percent	PDOs	Percent
15 & Younger	887	0.36%	8	0.53%	354	0.40%	525	0.33%
16	4,970	2.02%	21	1.39%	1,733	1.97%	3,216	2.05%
17	6,833	2.77%	24	1.59%	2,509	2.85%	4,300	2.74%
18	8,530	3.46%	38	2.51%	3,072	3.49%	5,420	3.45%
19	7,944	3.22%	39	2.58%	2,889	3.28%	5,016	3.20%
20	7,723	3.13%	38	2.51%	2,835	3.22%	4,850	3.09%
21	7,456	3.02%	44	2.91%	2,784	3.16%	4,628	2.95%
22	7,048	2.86%	34	2.25%	2,571	2.92%	4,443	2.83%
23	6,678	2.71%	41	2.71%	2,505	2.85%	4,132	2.63%
24	6,202	2.52%	40	2.64%	2,369	2.69%	3,793	2.42%
25-34	52,000	21.09%	275	18.18%	19,123	21.72%	32,602	20.77%
35-44	44,342	17.99%	301	19.89%	16,134	18.33%	27,907	17.78%
45-54	33,287	13.50%	235	15.53%	12,173	13.83%	20,879	13.30%
55-64	19,469	7.90%	126	8.33%	7,161	8.13%	12,182	7.76%
65-74	10,069	4.08%	89	5.88%	3,671	4.17%	6,309	4.02%
75 & Older	7,464	3.03%	73	4.82%	2,701	3.07%	4,640	2.96%
Not Reported	15,636	6.34%	87	5.75%	3,452	3.92%	12,147	7.74%
TOTALS	246,538	100.00%	1,513	100.00%	88,036	100.00%	156,989	100.00%

2003 Arizona Crash Facts Summary

**Table 5-9
Driver Errors**

Contributing Circumstances	Total Drivers	Percent of Total Drivers	Fatal Drivers	Percent of Fatal Drivers	Injury Drivers	Percent of Injury Drivers	PDO Drivers	Percent of PDO Drivers
Exceeded Lawful Speed	1,271	0.52%	85	5.62%	564	0.64%	622	0.40%
Speeding *	46,439	18.84%	278	18.37%	16,994	19.30%	29,167	18.58%
Failed to Yield	25,226	10.23%	121	8.00%	10,411	11.83%	14,694	9.36%
Ran Stop Sign	1,385	0.56%	16	1.06%	656	0.74%	713	0.45%
Disregarded Signal	5,246	2.13%	42	2.78%	2,765	3.14%	2,439	1.55%
Opposing Lane	1,388	0.56%	76	5.02%	571	0.65%	741	0.47%
Followed too Closely	4,883	1.98%	5	0.33%	1,458	1.66%	3,420	2.18%
Improper Turn	3,928	1.59%	6	0.40%	957	1.09%	2,965	1.89%
Driver Inattention	13,504	5.48%	55	3.64%	3,870	4.40%	9,579	6.10%
Other Improper Driving	7,261	2.95%	58	3.83%	2,146	2.44%	5,057	3.22%
Faulty Equipment	338	0.14%	3	0.20%	113	0.13%	222	0.14%
Unsafe Lane Change	6,526	2.65%	10	0.66%	1,104	1.25%	5,412	3.45%
Unsafe Passing	1,078	0.44%	7	0.46%	198	0.22%	873	0.56%
No Improper Driving	114,081	46.27%	566	37.41%	42,279	48.02%	71,236	45.38%
Not stated	13,984	5.67%	185	12.23%	3,950	4.49%	9,848	6.27%
TOTALS	246,538	100.00%	1,513	100.00%	88,036	100.00%	156,988	100.00%

* Speeding too fast for conditions

**Table 5-10
Driver Physical Condition**

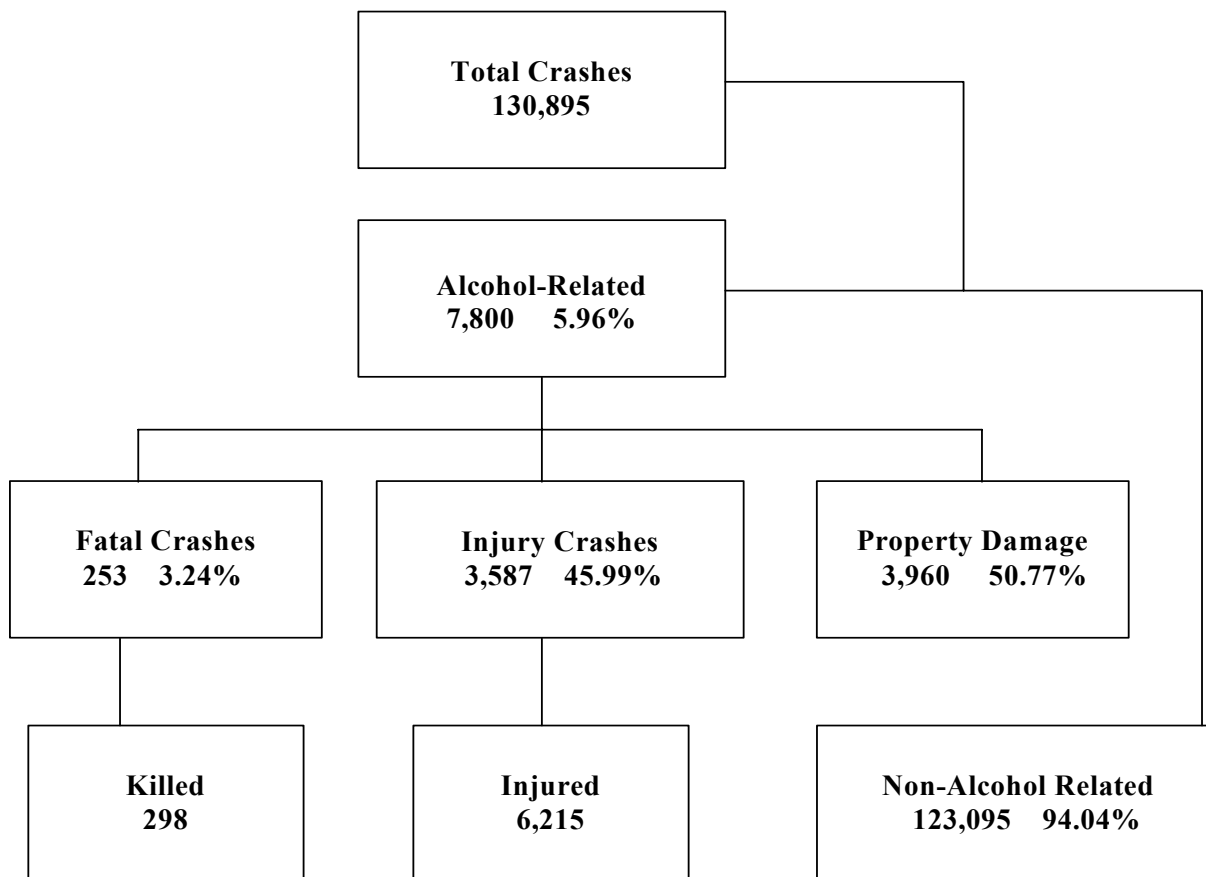
Driver Condition	Total Drivers	% of Total Drivers	Fatal Drivers	% of Fatal Drivers	Injury Drivers	% of Injury Drivers	PDO Drivers	% of PDO Drivers
No Apparent Influence	211,434	85.76%	823	54.40%	76,247	86.61%	134,364	85.59%
Impaired Had Been Drinking	7,918	3.21%	261	17.25%	3,656	4.15%	4,001	2.55%
Other Physical Impairment	1,916	0.78%	10	0.66%	684	0.78%	1,222	0.78%
Ill, Ability Influenced	320	0.13%	7	0.46%	183	0.21%	130	0.08%
Sleepy, Fatigued	1,617	0.66%	28	1.85%	731	0.83%	858	0.55%
Under Influence Of Drugs*	677	0.27%	24	1.59%	325	0.37%	328	0.21%
Not Reported/Unknown	22,656	9.19%	360	23.79%	6,210	7.05%	16,085	10.24%
TOTALS	246,538	100.00%	1,513	100.0%	88,036	100.0%	156,988	100.00%

*Narcotic or Prescription

According to the Bureau of Transportation Statistics there are more cars, trucks, and SUVs registered in the US than there are licensed drivers. The average American household has 1.9 vehicles and 1.8 drivers. That equals 204 million registered vehicles and 191 million drivers.

Section 6: Alcohol-Related Crashes

**Section 6:
Alcohol Related Crashes**



The statistics in the Alcohol-Related section represent those crashes where the investigating officer indicated that a driver 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 the crash took place.

Economic Loss Due to Alcohol-Related Crashes in Arizona for 2003	
Fatalities	\$333,760,000
Injuries	\$131,204,400
Property Damage	\$ 32,472,000
Total	\$497,436,400

2003 Arizona Crash Facts Summary

Table 6-1

1999 to 2003 - Alcohol-Related Crashes

Year	Alcohol-Related Crashes	Percent of all Crashes	Victims Killed	Percent of all Fatalities
1999	7,756	6.16%	267	26.07%
2000	8,048	6.13%	266	25.67%
2001	8,095	6.15%	258	24.64%
2002	8,100	6.03%	274	28.13%
2003	7,800	5.96%	298	26.65%

Table 6-2

Manner of Collision in Alcohol-Related Crashes

Manner Of Collision	Number of Crashes					
	Total	Percent of all Crashes	Fatal	Percent of Fatal Crashes	Injury	Percent of Injury Crashes
Single Vehicle	3,468	44.46%	147	58.10%	1,476	41.15%
Head On	172	2.21%	23	9.09%	106	2.96%
Rear End	1,943	24.91%	14	5.53%	928	25.87%
Sideswipe Opposite Direction	138	1.77%	5	1.98%	70	1.95%
Sideswipe Same Direction	399	5.12%	6	2.37%	118	3.29%
Left Turn	555	7.12%	15	5.93%	320	8.92%
Other Angle	834	10.69%	35	13.83%	465	12.96%
Backing Into	64	0.82%	0	0.00%	5	0.14%
U-Turn	65	0.83%	0	0.00%	34	0.95%
Other	162	2.08%	8	3.16%	65	1.81%
TOTALS	7,800	100.00%	253	100.00%	3,587	100.00%

Table 6-3

Alcohol-Related Crashes by First Harmful Event

First Harmful Event	Total	Number of Crashes			Number of Persons	
		Fatal	Injury	PDO	Killed	Injured
Overturning	418	78	265	75	92	440
Pedestrian	69	16	52	1	16	75
Motor Veh. In Transit	4,217	99	2,069	2,049	122	4,160
Motor Veh. Other Roadway	5	0	2	3	0	9
Pedalcyclist	22	2	18	2	2	21
Animal	13	0	7	6	0	10
Fixed Object	2,321	44	932	1,345	52	1,191
Other Object	2	0	1	1	0	1
Miscellaneous	733	14	241	478	14	308
TOTALS	7,800	253	3,587	3,960	298	6,215

Section 6: Alcohol-Related Crashes

**Table 6-4
Alcohol-Related Crashes by Vehicle Type**

Motor Vehicle Type	Total Number of Vehicles	Percent	Number of Vehicles		
			Fatal	Injury	PDO
Passenger Car	5,403	68.24%	138	2,457	2,808
Motor Home or House Car	5	0.06%	0	2	3
Pickup Truck (Incl. Panel & Mini Bus)	2,237	28.25%	94	1,023	1,120
Truck Tractor and Semi-Trailer	11	0.14%	1	1	9
Other Truck Combination	24	0.30%	1	11	12
RV (all wheel drive, dune buggy)	4	0.05%	1	1	2
Farm Tractor and/or Farm Equipment	0	0.00%	0	0	0
Taxicab	0	0.00%	0	0	0
Bus	1	0.01%	0	0	1
School Bus	1	0.01%	0	0	1
Motorcycle	180	2.27%	21	142	17
Motor Scooter or Motor Bicycle	1	0.01%	0	1	0
Other Special Vehicles	0	0.00%	0	0	0
Vehicle Type Not Reported	51	0.64%	5	18	28
TOTALS	7,918	100.00%	261	3,656	4,001

**Table 6-5
Light Conditions - Alcohol-Related Crashes**

Light Condition	Number of Crashes			
	Total	Fatal	Injury	PDO
Daylight	2,137	53	1,039	1,045
Dawn or Dusk	355	24	166	165
Darkness	5,296	175	2,377	2,744
Not Reported	12	1	5	6
TOTALS	7,800	253	3,587	3,960

**Table 6-6
Road Surface Conditions - Alcohol-Related Crashes**

	Number of Crashes			
	Total	Fatal	Injury	PDO
Dry	7,124	232	3,292	3,600
Wet	351	6	144	201
Snowy or Icy	24	3	10	11
Other	80	5	36	39
Not Reported	221	7	105	109
TOTALS	7,800	253	3,587	3,960

2003 Arizona Crash Facts Summary

Table 6-7

Age of Driver - Alcohol-Related Crashes

Driver Age	Total Drivers	Percent of all Drivers	Drivers In Fatal Crashes	Percent of all Fatal Drivers	Drivers In Injury Crashes	Percent of all Injury Drivers
15	13	0.16%	1	0.38%	4	0.11%
16	52	0.66%	2	0.77%	25	0.68%
17	138	1.74%	7	2.68%	67	1.83%
18	249	3.14%	5	1.92%	122	3.34%
19	296	3.74%	7	2.68%	122	3.34%
20	310	3.92%	8	3.07%	139	3.80%
21	448	5.66%	12	4.60%	193	5.28%
22	372	4.70%	11	4.21%	169	4.62%
23	361	4.56%	8	3.07%	168	4.60%
24	346	4.36%	10	3.83%	155	4.24%
25-34	2,204	27.84%	70	26.82%	1,039	28.42%
35-44	1,501	18.96%	51	19.54%	716	19.58%
45-54	892	11.27%	36	13.79%	414	11.32%
55-64	378	4.77%	20	7.66%	173	4.73%
65-74	118	1.49%	8	3.07%	50	1.37%
75 & Older	42	0.53%	0	0.00%	19	0.52%
Not Reported	198	2.50%	5	1.92%	81	2.22%
TOTALS	7,918	100.00%	261	100.00%	3,656	100.00%

*In total crashes across the state, 57.4% of the drivers were males.
When alcohol was involved, males accounted for 80.5% of the drivers.*

Table 6-8

Driver Gender - Alcohol-Related Crashes

Driver Gender	Total Drivers	Percent of All Drivers	Drivers In Fatal Crashes	Percent of Fatal Drivers	Drivers in Injury Crashes	Percent of Injury Drivers
Male	6,356	80.27%	217	83.14%	2,942	80.47%
Female	1,484	18.74%	38	14.56%	691	18.90%
Not Reported	78	0.99%	6	2.30%	23	0.63%
TOTALS	7,918	100.00%	261	100.00%	3,656	100.00%

Section 6: Alcohol-Related Crashes

Table 6-9
Safety Restraints - Drinking Drivers

Drivers	Number of Drinking Drivers				
	No Injury	Possible Injury	Non-Incapacitating Injury	Incapacitating Injury	Fatal
Restraint Used	3,060	352	531	128	29
No Restraint Used	552	141	361	208	109
Restraint Use Unknown	1,455	238	330	151	25
TOTALS	5,067	731	1,222	487	163

Table 6-10
Persons Killed and Injured in Alcohol-Related Crashes

Victims Age	Total Killed	Male	Female	Total Injured	Male	Female	Sex Unk.
0 - 4	1	1	0	122	67	55	0
5 - 9	2	1	1	125	53	72	0
10 - 14	3	3	0	156	68	88	0
15 - 19	34	27	7	742	444	298	0
20 - 24	58	46	12	1,292	871	421	0
25 - 34	61	48	13	1,483	992	491	0
35 - 44	56	43	13	1,021	637	382	2
45 - 54	43	30	13	655	400	254	1
55 - 64	26	21	5	300	174	126	0
65 - 74	8	6	2	140	74	66	0
75 & Older	6	4	2	118	70	43	5
Not Reported	0	0	0	61	33	24	4
TOTALS	298	230	68	6,215	3,883	2,320	12

Table 6-11
When Alcohol-Related Crashes Occurred in 2003

	Total	Weekday**	Weekend
Daytime***	2,026	1,151	875
Nighttime	5,774	2,269	3,505
Total	7,800	3,420	4,380

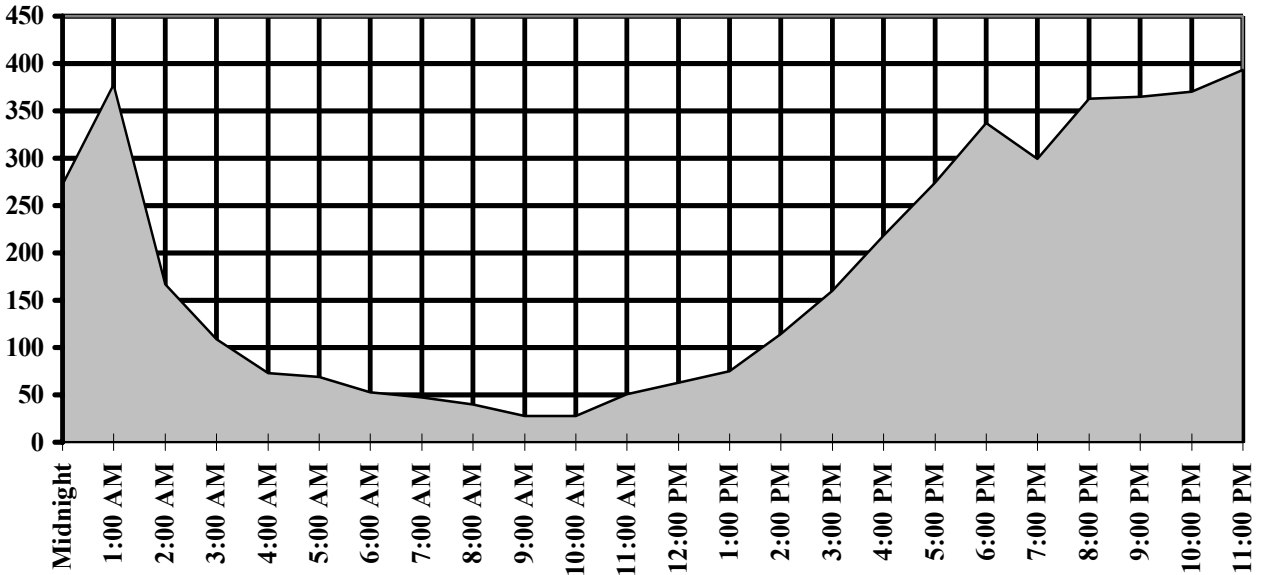
**Weekend begins at 6:00 p.m. on Friday and continues through 6:00 a.m. Monday. All other times and days are considered Weekdays.

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

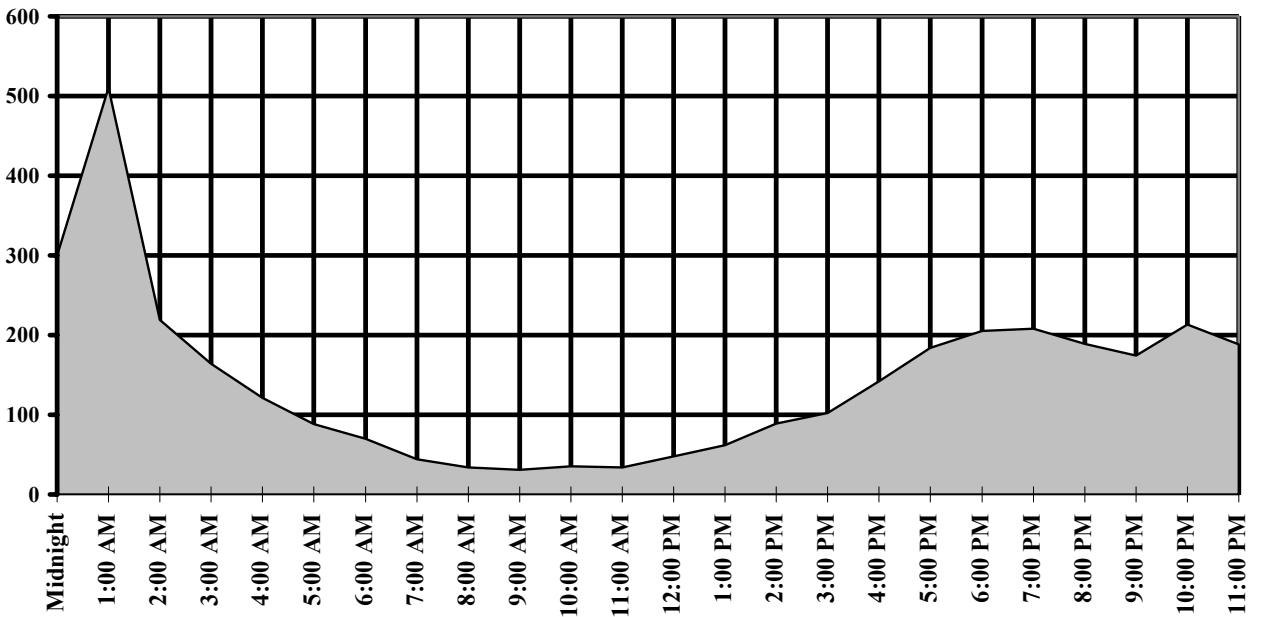
According to the National Highway Traffic Safety Administration, about 3 in every 10 Americans will be involved in an alcohol-related crash at some time in their lives.

Section 6: Alcohol-Related Crashes

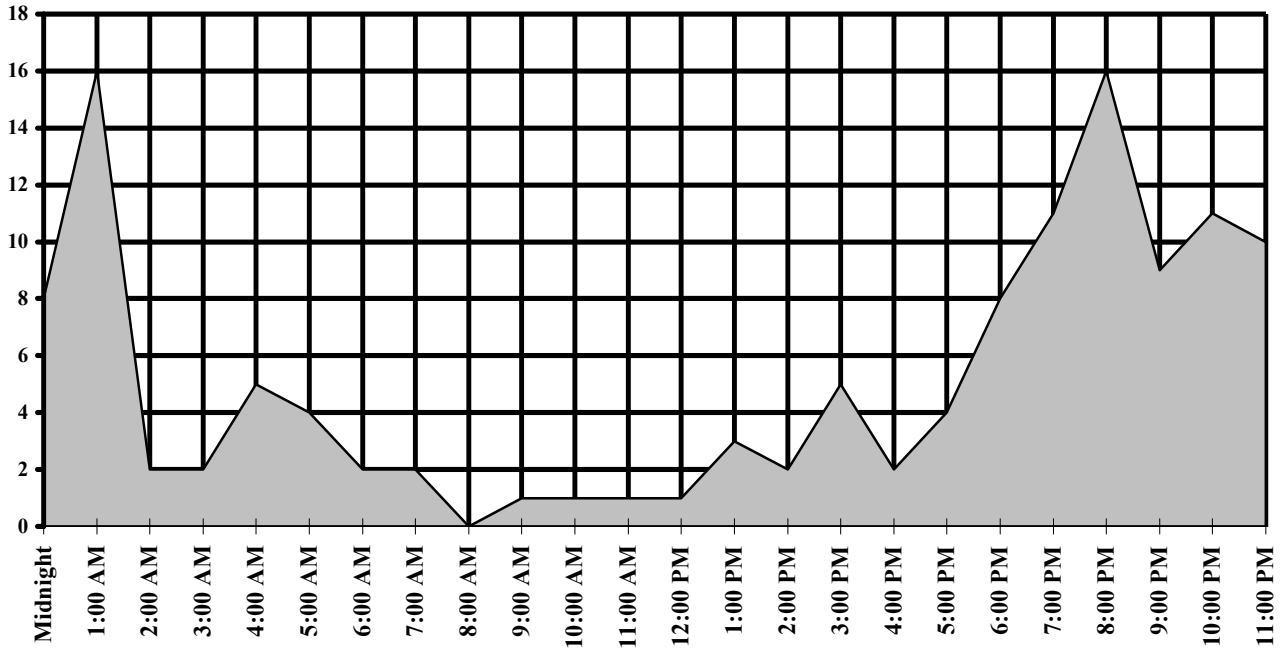
Figures 6-1 and 6-2
Alcohol-Related Crashes
Weekdays



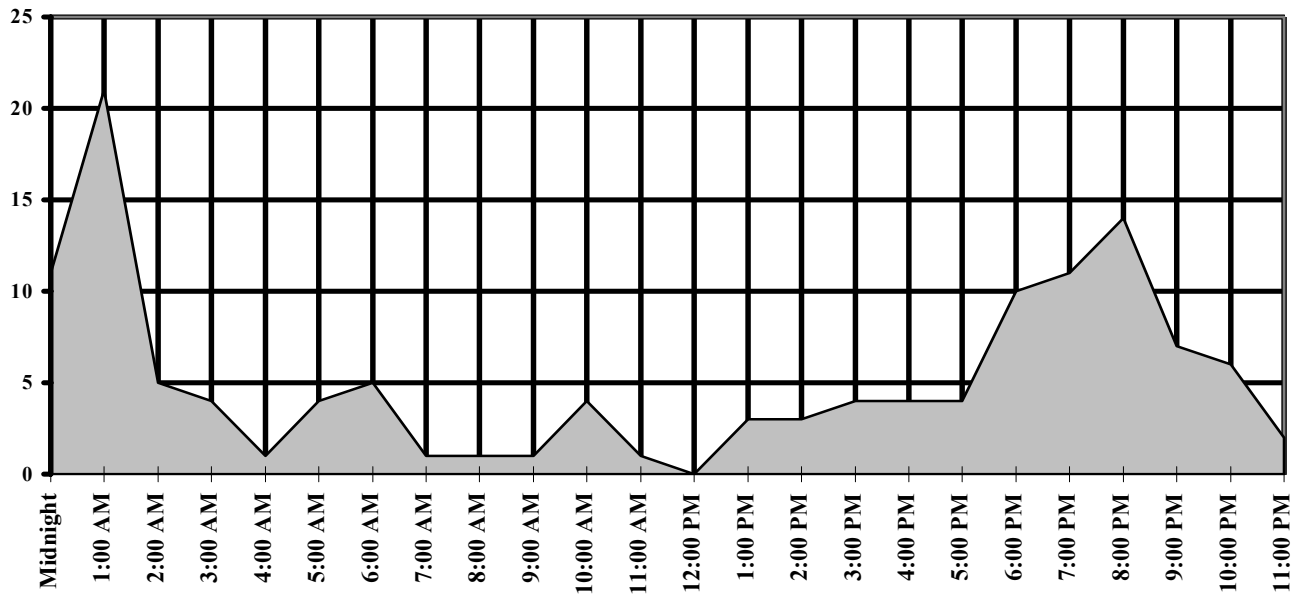
Weekends



Figures 6-3 and 6-4
Fatal Alcohol-Related Crashes
Weekdays



Weekends

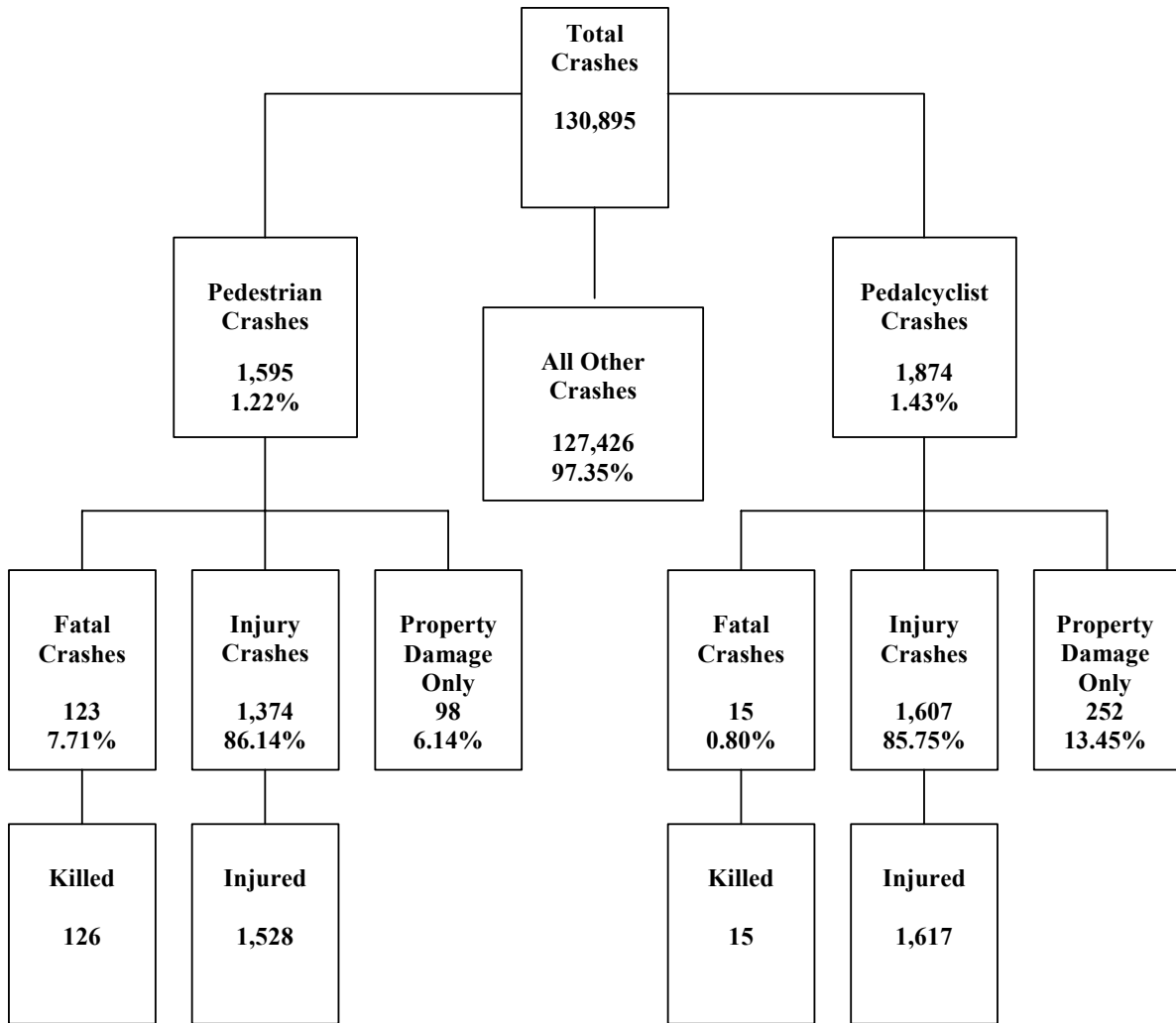


**Table 6-13
Alcohol-Related Crashes
By Hour and Day of Week**

Hour Beginning	Total Crashes		Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal
Midnight	572	19	59	0	43	1	46	1	53	3	71	3	154	3	146	8
1:00	888	37	61	4	45	0	64	2	106	3	102	7	253	15	257	6
2:00	386	7	32	1	20	0	35	0	26	1	54	0	113	2	106	3
3:00	273	6	22	1	15	0	16	0	26	1	30	0	83	1	81	3
4:00	194	6	10	0	14	1	13	1	9	2	27	1	63	1	58	0
5:00	157	8	19	1	6	0	11	2	17	0	16	1	40	2	48	2
6:00	123	7	10	0	5	0	11	0	16	0	11	2	32	2	38	3
7:00	91	3	11	1	10	0	6	1	10	0	10	0	19	1	25	0
8:00	74	1	12	0	6	0	8	0	6	0	8	0	20	1	14	0
9:00	59	2	12	1	3	0	1	0	5	0	7	0	16	0	15	1
10:00	63	5	1	0	8	0	5	0	6	1	8	0	27	1	8	3
11:00	85	2	10	0	5	0	7	0	12	1	17	0	23	1	11	0
Noon	111	1	9	0	12	0	9	0	16	0	17	1	34	0	14	0
1:00	137	6	16	1	14	0	13	1	11	1	21	0	38	0	24	3
2:00	203	5	25	0	21	0	19	0	23	0	26	2	48	2	41	1
3:00	262	9	27	0	29	0	38	2	30	2	36	1	56	1	46	3
4:00	360	6	32	0	49	0	34	1	34	0	69	1	77	2	65	2
5:00	458	8	33	1	50	1	51	1	60	1	80	0	95	2	89	2
6:00	542	18	50	0	62	2	49	2	63	0	113	4	118	7	87	3
7:00	507	22	41	2	52	2	65	4	50	2	91	1	108	6	100	5
8:00	552	30	66	3	54	1	58	1	60	5	125	6	109	9	80	5
9:00	539	16	50	1	69	2	77	0	63	3	106	3	105	4	69	3
10:00	583	17	40	1	59	2	55	1	73	2	143	5	138	2	75	4
11:00	581	12	53	3	56	1	75	3	64	2	145	1	128	1	60	1
Not Reported																
TOTALS	7,800	253	701	21	707	13	766	23	839	30	1,333	39	1,897	66	1,557	61

Section 7:

Pedestrian and Pedalcyclist Crashes



Section 7: Pedestrian and Pedalcyclist Crashes

**Table 7-1
Pedestrians By Age and Gender**

Age Group	Persons Killed			Persons Injured			
	Total	Male	Female	Total	Male	Female	Not Reported
0-4	1	1	0	42	32	10	0
5-9	1	0	1	106	69	37	0
10-14	7	6	1	174	115	59	0
15-19	8	3	5	180	104	75	1
20-24	10	10	0	138	80	58	0
25-34	18	14	4	204	127	76	1
35-44	32	27	5	213	150	63	0
45-54	24	14	10	196	129	67	0
55-64	10	6	4	91	59	32	0
65-74	8	4	4	56	36	20	0
75 & Older	7	5	2	33	16	15	2
Not Reported	0	0	0	95	59	36	0
Total	126	90	36	1,528	976	548	4

Nationally, on average, a pedestrian is killed by a motor vehicle every 113 minutes, and one is injured every 7.7 minutes.

**Table 7-2
Pedestrian Crashes**

Statewide	Total	Urban	Rural
Number of Crashes	1,595	1,401	194
Persons Killed	126	88	38
Persons Injured	1,528	1361	167
Property Damage Only	98	90	8

Year	Number of Pedestrians	
	Fatal	Injury
1999	148	1,571
2000	137	1,637
2001	166	1,509
2002	158	1,481
2003	126	1,528

**Table 7-3
Pedestrian Crash History**

Across the U.S., approximately 68,000 pedestrians were injured and 4,672 were killed in traffic crashes, representing 2.4% of all the people injured and 10.8 % of all traffic fatalities.

2003 Arizona Crash Facts Summary

Table 7-4 Pedestrians Killed

Pedestrian Action	Total	0-4	5-9	10-14	15-19	20-24	25-44	45-64	65 & Older	Not Reported
Crossing Road	73	0	0	4	3	6	28	21	11	0
Walking In Roadway With Traffic	3	0	1	0	1	0	0	0	1	0
Walking In Roadway Against Traffic	2	0	0	0	0	0	1	1	0	0
Standing In Roadway	7	1	0	1	0	1	2	2	0	0
Pushing or Working On Veh. In Roadway	3	0	0	0	0	0	3	0	0	0
Other Working In Roadway	0	0	0	0	0	0	0	0	0	0
Lying In Roadway	7	0	0	0	0	0	6	1	0	0
Getting On or Off Veh. In Roadway	0	0	0	0	0	0	0	0	0	0
Other In Actions In Roadway	6	0	0	1	1	0	1	2	1	0
Unknown	25	0	0	1	3	3	9	7	2	0
Not Reported	0	0	0	0	0	0	0	0	0	0
TOTALS	126	1	1	7	8	10	50	34	15	0

Table 7-5 Pedestrians Injured

Pedestrian Action	Total	0-4	5-9	10-14	15-19	20-24	25-44	45-64	65 & Older	Not Reported
Crossing Road	857	22	66	111	91	65	230	178	93	1
Walking In Roadway With Traffic	72	2	2	9	12	7	25	10	5	0
Walking In Roadway Against Traffic	89	0	5	9	12	9	26	18	10	0
Standing In Roadway	113	1	7	5	16	13	37	15	19	0
Pushing or Working On Veh. In Roadway	14	0	1	0	1	4	5	0	3	0
Other Working In Roadway	8	0	1	0	0	1	2	3	1	0
Lying In Roadway	5	0	0	0	0	1	3	1	0	0
Getting On or Off Veh. In Roadway	15	0	2	3	3	2	2	1	2	0
Other In Actions In Roadway	236	11	17	24	36	22	53	40	30	3
Unknown	119	6	5	13	9	14	34	21	17	0
Not Reported	0	0	0	0	0	0	0	0	0	0
TOTALS	1,528	42	106	174	180	138	417	287	180	4

Table 7-6 Pedestrian Physical Condition

Pedestrian Condition	% of Total Peds		% of Fatal Peds		% of Injury Peds		% of PDO Peds	
	Total		Fatal		Injury		PDO	
No Apparent Impairment	1,046	59.43%	30	23.81%	950	62.17%	66	62.26%
Impaired Had Been Drinking	262	14.89%	52	41.27%	202	13.22%	8	7.55%
Other Bodily Impairment	49	2.78%	0	0.00%	48	3.14%	1	0.94%
Ill, Ability Influenced	3	0.17%	0	0.00%	3	0.20%	0	0.00%
Sleepy, Fatigued	2	0.11%	0	0.00%	2	0.13%	0	0.00%
Under Influence Of Drugs*	6	0.34%	1	0.79%	5	0.33%	0	0.00%
Not Reported/Unknown	392	21.27%	43	34.13%	318	20.81%	31	29.25%
TOTALS	1,760	100.00%	126	100.00%	1,528	100.0%	106	100.00%

*Narcotic or Prescription

Section 7: Pedestrian and Pedalcyclist Crashes

**Table 7-7
Lighting Conditions - Pedestrian Crashes**

Lighting Conditions	Number of Pedestrian Crashes			
	Total	Fatal	Injury	PDOs
Daylight	902	26	808	68
Darkness	589	89	480	20
Dawn or Dusk	95	8	84	3
Not Reported	9	0	2	7
TOTALS	1,595	123	1,374	98

**Table 7-8
Weather Conditions - Pedestrian Crashes**

Weather Conditions	Number of Pedestrian Crashes			
	Total	Fatal	Injury	PDOs
Clear	1,338	104	1,163	71
Raining	48	4	39	5
Cloudy	181	7	160	14
Snowing	4	2	2	0
Strong wind	0	0	0	0
Dust	0	0	0	0
Fog	2	0	2	0
Other	1	0	1	0
Not Reported	21	6	7	8
TOTALS	1,595	123	1,374	98

2003 Arizona Crash Facts Summary

**Table 7-9
Pedalcyclists by Age and Gender**

Age Group	Persons Killed			Persons Injured			Not Reported
	Total	Male	Female	Total	Male	Female	
0-4	1	1	0	5	2	3	0
5-9	0	0	0	83	64	19	0
10-14	0	0	0	298	240	58	0
15-19	3	2	1	218	167	51	0
20-24	2	2	0	182	125	57	0
25-34	2	1	1	234	181	53	0
35-44	3	3	0	253	191	62	0
45-54	1	1	0	189	159	29	1
55-64	3	3	0	66	53	13	0
65-74	0	0	0	30	27	3	0
75 & Older	0	0	0	8	8	0	0
Not Reported	0	0	0	51	40	11	0
TOTALS	15	13	2	1,617	1,257	359	1

**Table 7-10
Pedalcycle Crashes**

	Statewide	Total	Urban	Rural
Number Of Crashes		1,874	1,713	161
Persons Killed		15	11	4
Persons Injured		1,617	1,476	141
Property Damage Only		252	226	26

NUMBER OF PEDALCYCLISTS		
Year	Total Killed	Total Injured
1999	26	1,986
2000	25	1,915
2001	29	1,757
2002	15	1,618
2003	15	1,617

**Table 7-11
Pedalcycle Crash History**

In 2003, approximately 44,000 pedalcyclists were injured and 626 were killed in traffic crashes across the country. This represented 1.5% of all injuries and 1.4% of all fatalities from traffic crashes.

Section 7: Pedestrian and Pedalcyclist Crashes

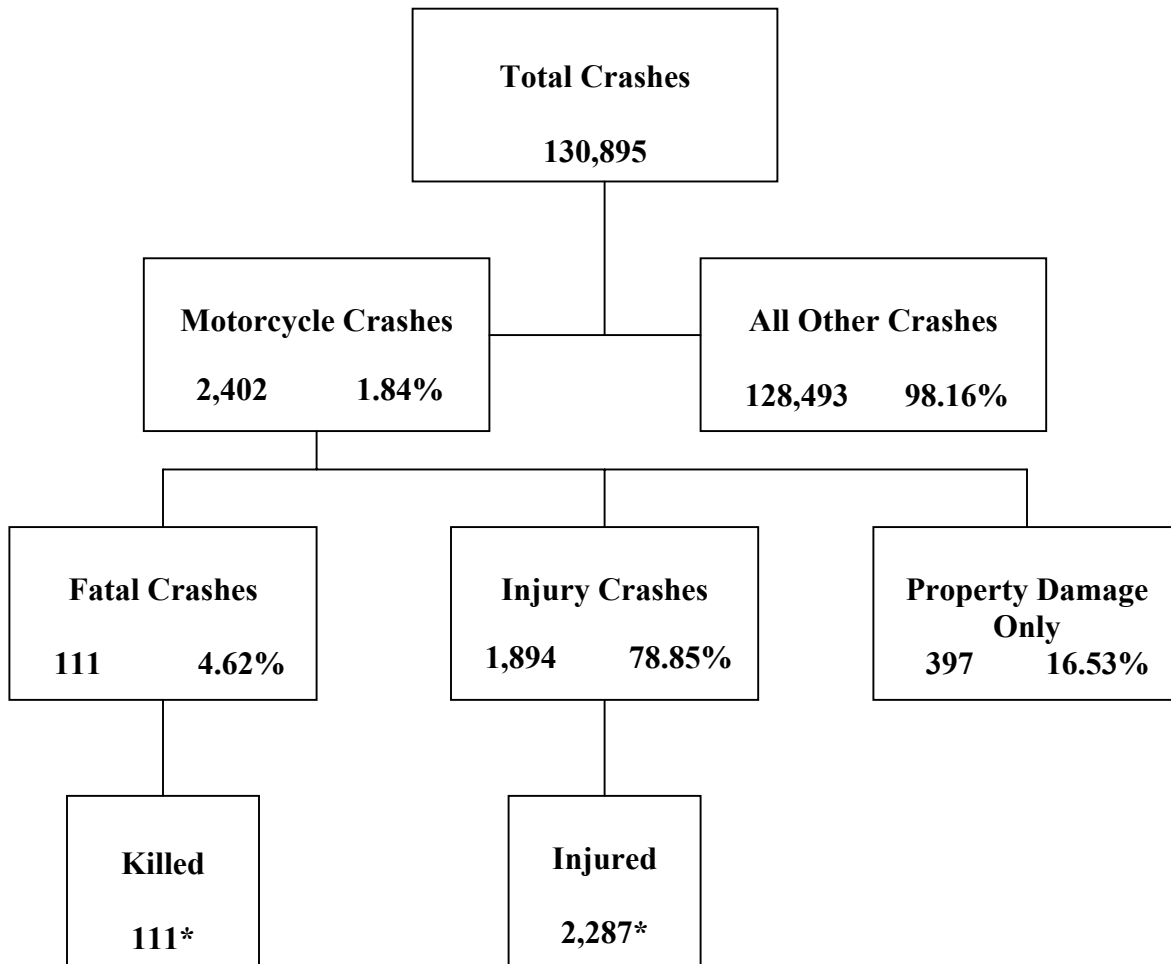
**Table 7-12
Lighting Conditions - Pedalcyclist Crashes**

Lighting Conditions	Number of Pedalcyclist Crashes			
	Total	Fatal	Injury	PDOs
Daylight	1,438	5	1,233	200
Darkness	319	7	277	35
Dawn or Dusk	114	3	95	16
Not Reported	3	0	2	1
TOTALS	1,874	15	1,607	252

**Table 7-13
Weather Conditions - Pedalcyclist Crashes**

Weather Conditions	Number of Pedalcyclist Crashes			
	Total	Fatal	Injury	PDOs
Clear	1,634	13	1,408	213
Raining	36	0	32	4
Cloudy	196	1	163	32
Snowing	0	0	0	0
Strong wind	1	1	0	0
Dust	0	0	0	0
Fog	0	0	0	0
Other	1	0	1	0
Not Reported	6	0	3	3
TOTALS	1,874	15	1,607	252

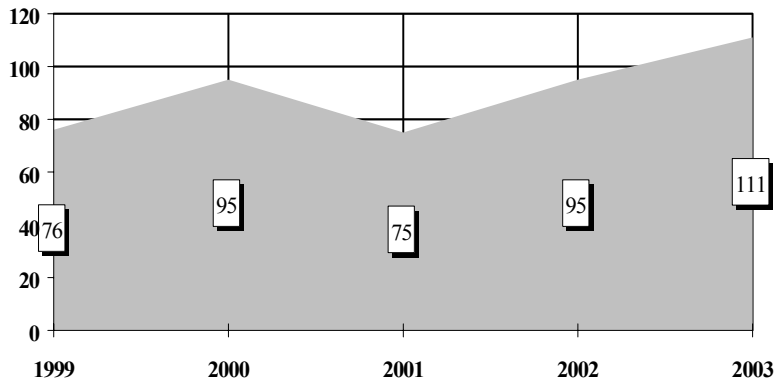
Section 8: Motorcycle Crashes



*Includes motorcycle drivers and/or passengers only.

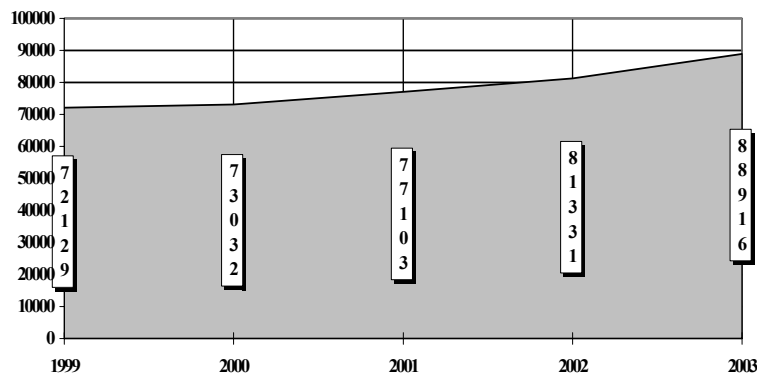
Section 8: Motorcycle Crashes

**Figure 8-1
Motorcycle Fatalities by Year**



In 2003, over 3,592 motorcyclists were killed in traffic crashes in the United States, an increase of 348 over the previous year. Arizona's 111 fatalities were an increase of 16 from the previous year.

**Figure 8-2
Motorcycle Registrations in Arizona**



1999-2003 Totals include motorcycles only. Prior years included golf carts, atvs, etc.
Source: The Motor Vehicle Division: Strategic Planning and Statistical Reports.

Figure 8-3
Motorcycle Fatality Rate per Registered Motorcycle

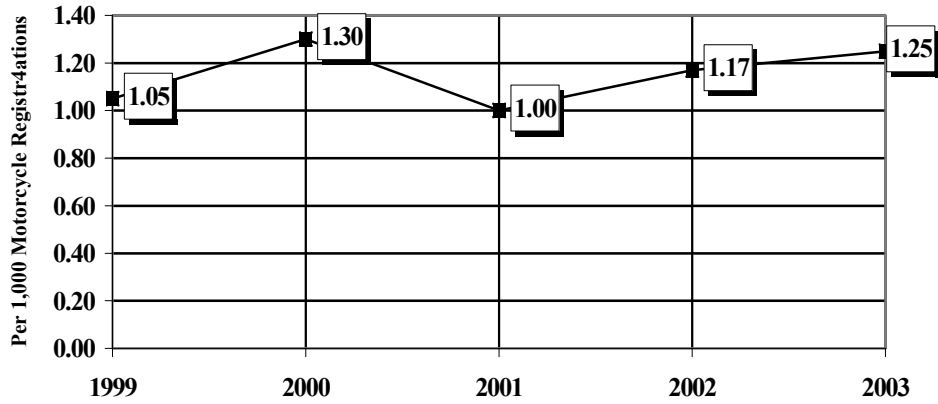
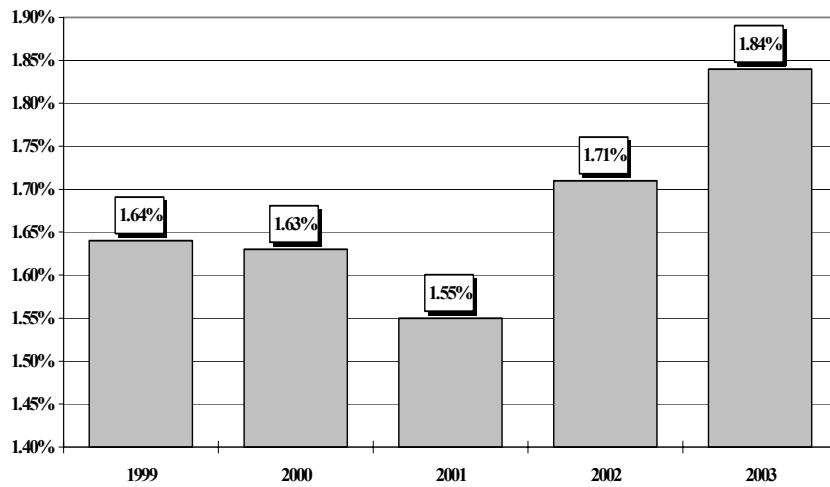


Figure 8-4
Percent of Motorcycle Crashes to All Crashes



Section 8: Motorcycle Crashes

**Table 8-1
Motorcycle Crashes by Type**

Accident Type	Number of Crashes			
	Total	Fatal	Non-Fatal Injury	Property Damage Only
Overturning	28	2	21	5
Pedestrian	14	1	13	0
Motor Vehicle In Transport	1,320	69	981	270
Motor Vehicle On Other Roadway	1	0	1	0
Pedalcyclist	9	0	8	1
Animal	31	2	27	2
Fixed Object	265	21	210	34
Other Object	43	1	34	8
Misc.	691	15	599	77
Not Reported	0	0	0	0
TOTALS	2,402	111	1,894	397

**Table 8-2
Motorcycle Crashes - Lighting Conditions**

Lighting Condition	Number of Crashes		
	Total	Fatal	Injury
Daylight	1,646	65	1,311
Dawn or Dusk	127	8	95
Darkness	625	38	485
Not Reported	4	0	3
Totals	2,402	111	1,894

**Table 8-3
Motorcycle Crashes - Road Conditions**

Road Surface	Number of Crashes		
	Total	Fatal	Injury
Dry	2,191	106	1,733
Wet	49	1	36
Snowy/icy	9	0	5
Other	77	2	66
Not Reported	76	2	54
Totals	2,402	111	1,894

**Table 8-4
Motorcycle Crashes - Land Use**

	Number of Crashes and % of Total				
	Total	Rural	% of Total	Urban	% of Total
Crashes	2,402	742	30.89%	1,660	69.11%
Fatalities	112	52	46.43%	60	53.57%
Injuries	2,287	716	31.31%	1,571	68.69%

**Table 8-5
Operators' Age - Motorcycle Crashes**

Age of Operator	Total No. of Operators	Percent of Total	Number of operators	
			Fatal Crashes	Injury Crashes
15 & Younger	49	1.99%	0	38
16	8	0.33%	1	4
17	23	0.93%	2	18
18-19	127	5.16%	4	108
20-24	332	13.49%	9	274
25-34	524	21.29%	22	412
35-44	500	20.32%	24	395
45-54	499	20.28%	32	395
55-64	255	10.36%	15	208
65-74	61	2.48%	5	52
75 & Older	12	0.49%	1	11
Not Reported	71	2.89%	0	27
TOTALS	2,461	100.00%	115	1,942

**Table 8-6
Alcohol-Related Motorcycle Crashes**

Total number of impaired operators	180
Total number of fatal crashes	21
Total number of injury crashes	142

Nationally, 32% of all fatally injured motorcycle operators were intoxicated.

In Arizona, alcohol was involved in 19% of all fatal motorcycle crashes.

Section 8: Motorcycle Crashes

Table 8-7
Motorcycle Operators Involved in Fatal Crashes by License Status*

License Status	2001		2002		2003	
	Total Fatal Crashes	Percent of Fatal Crashes	Total Fatal Crashes	Percent of Fatal Crashes	Total Fatal Crashes	Percent of Fatal Crashes
No license	5	6.02%	5	5.21%	3	2.70%
Invalid	26	31.33%	28	29.17%	30	27.03%
Valid	51	61.45%	62	64.58%	77	69.37%
Unknown	1	1.20%	1	1.04%	1	0.90%
TOTALS	83	100.00%	96	100.00%	111	100.00%

*Note: includes only motorcycle operators involved in fatal crashes.

Table 8-8

Motorcycle Operator's Helmet Use

Severity of Injury	Number of Motorcycle Crashes							
	Helmet Used	% of Total	No Helmet	% of Total	Unknown	% of Total	Total	% of Total
No injury	128	16.10%	140	14.36%	147	21.27%	415	16.86%
Possible injury	123	15.47%	135	13.85%	119	17.22%	377	15.32%
Non-incapacitating	333	41.89%	366	37.54%	253	36.61%	952	38.68%
Incapacitating	171	21.51%	259	26.56%	125	18.09%	555	22.55%
Fatality	30	3.77%	62	6.36%	12	1.74%	104	4.23%
Unknown	10	1.26%	13	1.33%	35	5.07%	58	2.36%
TOTALS	795	100.00%	975	100.00%	691	100.00%	2,461	100.00%

Table 8-9

Motorcycle Passenger Helmet Use

Severity of Injury	Number of Motorcycle Crashes							
	Helmet Used	% of Total	No Helmet	% of Total	Use Unknown	% of Total	Total	% of Total
No injury	9	13.43%	21	14.79%	8	14.55%	38	14.39%
Possible injury	11	16.42%	15	10.56%	7	12.73%	33	12.50%
Non-incapacitating	32	47.76%	58	40.85%	25	45.45%	115	43.56%
Incapacitating	14	20.90%	40	28.17%	12	21.82%	66	25.00%
Fatality	1	1.49%	5	3.52%	1	1.82%	7	2.65%
Unknown	0	0.0%	3	2.11%	2	3.64%	5	1.89%
TOTALS	67	100.00%	142	100.00%	55	100.00%	264	100.00%

The incidence of fatal motorcycle crashes in the United States has been increasing in recent years as the percentage of riders wearing helmets has fallen from 71% to 58% nationally.

Table 8-10
Motorcycle Operators and Passengers Killed and Injured

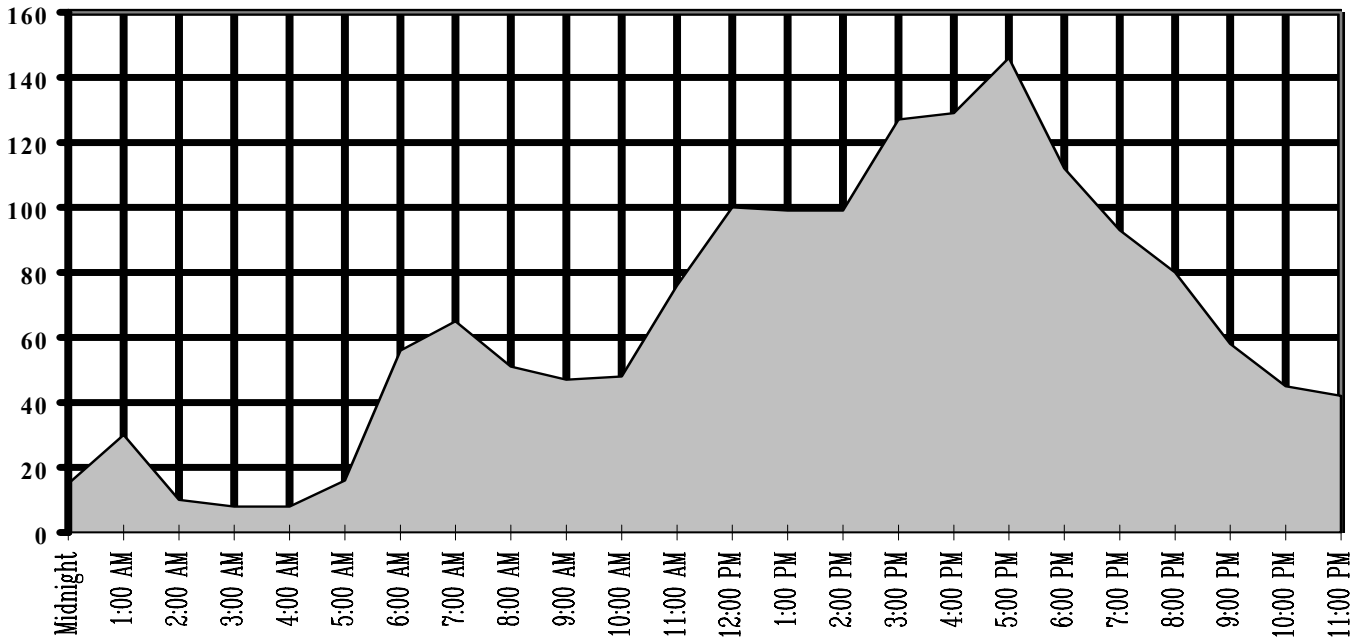
Age of Victims	Number Killed			Number Injured			
	Total	Male	Female	Total	Male	Female	Unk.
0 - 4	0	0	0	4	2	2	0
5 - 9	0	0	0	6	5	1	0
10 - 14	0	0	0	39	27	12	0
15 - 19	7	6	1	188	146	42	0
20 - 24	10	8	2	311	274	37	0
25 - 34	22	22	0	470	404	66	0
35 - 44	24	19	5	454	350	104	0
45 - 54	29	23	6	458	366	91	1
55 - 64	13	11	2	243	198	45	0
65 - 74	5	5	0	64	51	13	0
75 & Older	1	1	0	41	30	10	1
Not Reported	0	0	0	9	4	5	0
TOTALS	111	95	16	2,287	1,857	428	2

Table 8-11
Motorcycle Operator Errors

Contributing Circumstances	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number Of Cases	Percent Of Units	Number Of Cases	Percent Of Units	Number Of Cases	Percent Of Units
Exceeding lawful speed limit	38	1.54%	10	8.70%	24	1.24%
Speed too fast for conditions	675	27.43%	34	29.57%	559	28.78%
Failed to yield	81	3.29%	4	3.48%	60	3.09%
Passed stop sign	6	0.24%	0	0.00%	4	0.21%
Disregarded traffic signal	18	0.73%	2	1.74%	14	0.72%
Drove left of center	21	0.85%	3	2.61%	14	0.72%
Followed too closely	33	1.34%	1	0.87%	26	1.34%
Driver inattention	145	5.89%	2	1.74%	121	6.23%
Had been drinking	203	8.25%	21	18.26%	142	7.31%
Other improper driving	67	2.72%	0	0.00%	49	2.52%
Faulty or Missing Equip.	20	0.81%	0	0.00%	18	0.93%
No improper driving	1,039	42.22%	26	22.61%	776	39.96%
Not Reported	115	4.67%	12	10.43%	135	6.95%
TOTALS	2,461	100.00%	115	100.00%	1,942	100.00%

Section 8: Motorcycle Crashes

**Figure 8-5
Motorcycle Crashes by Time of Day
Weekdays**



**Figure 8-6
Weekends**

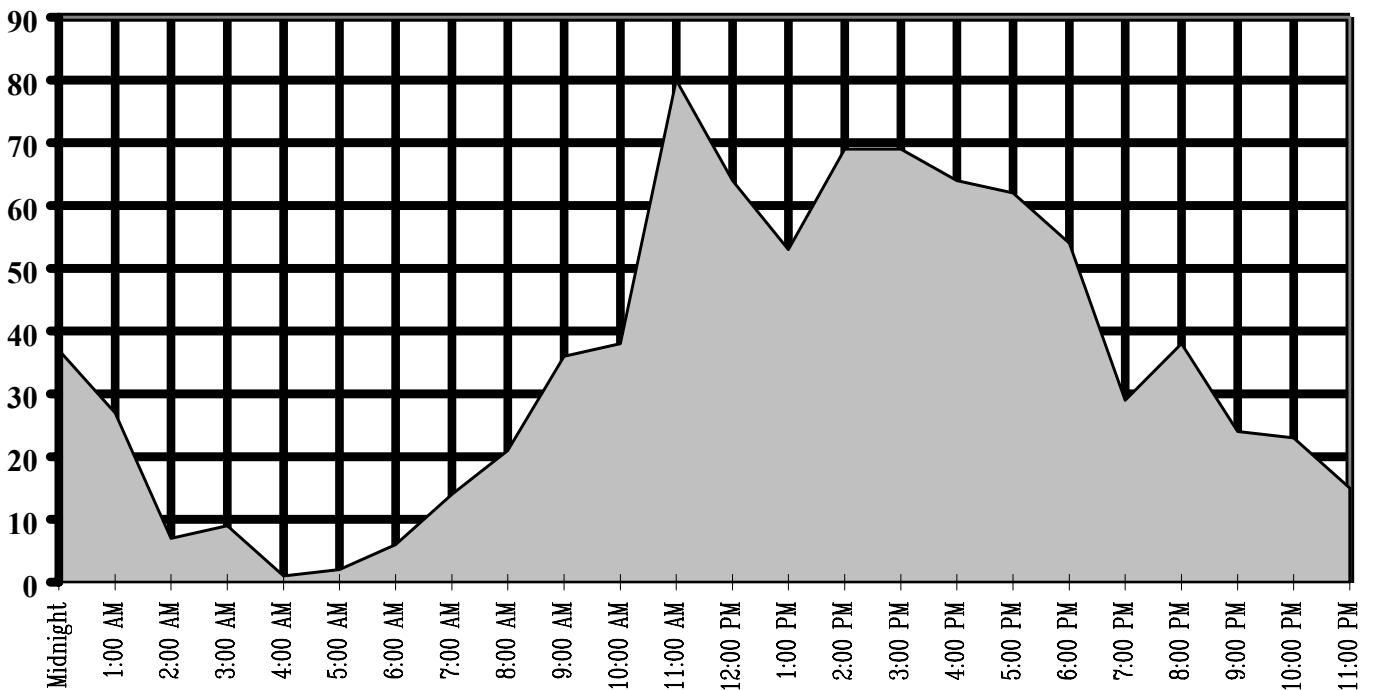


Figure 8-7
Fatal Motorcycle Crashes by Time of Day
Weekdays

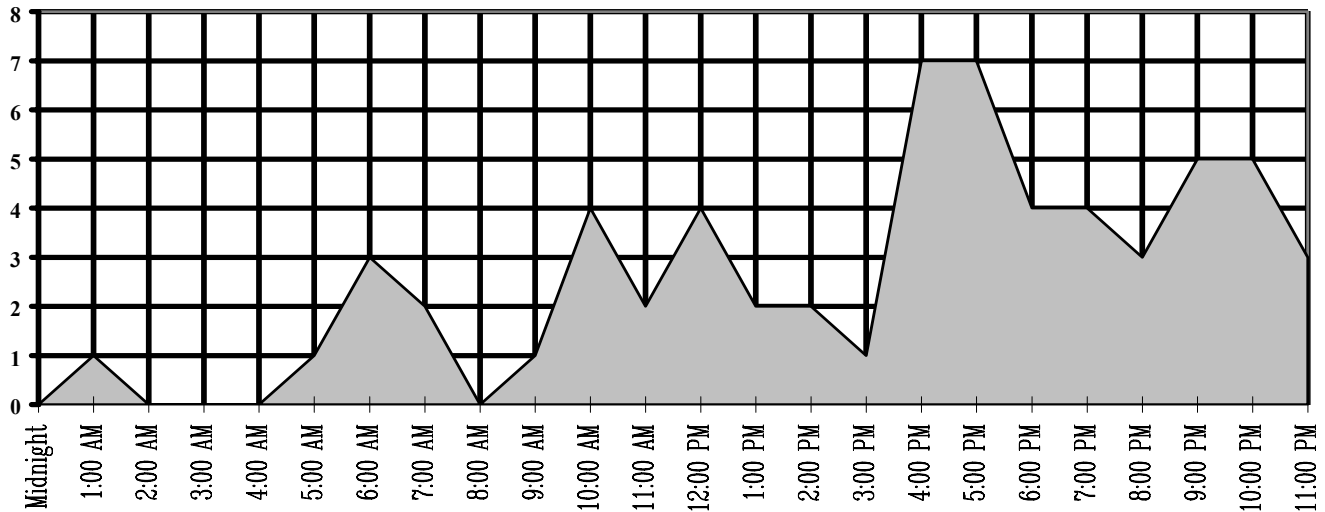
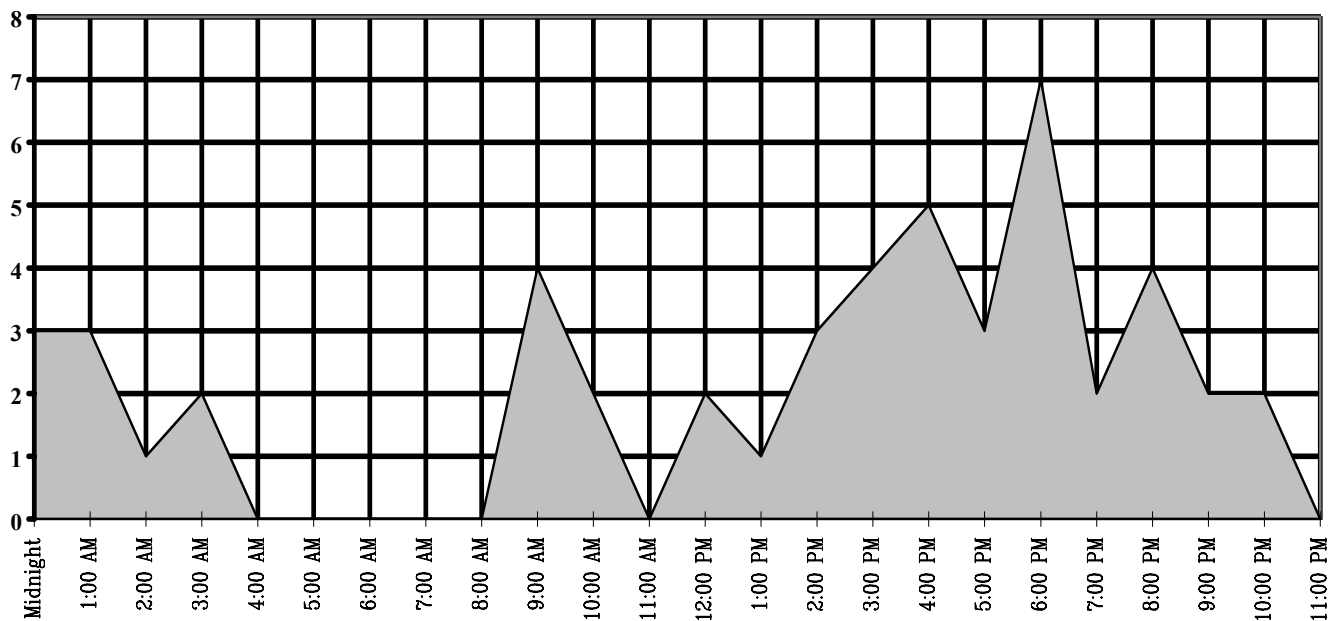
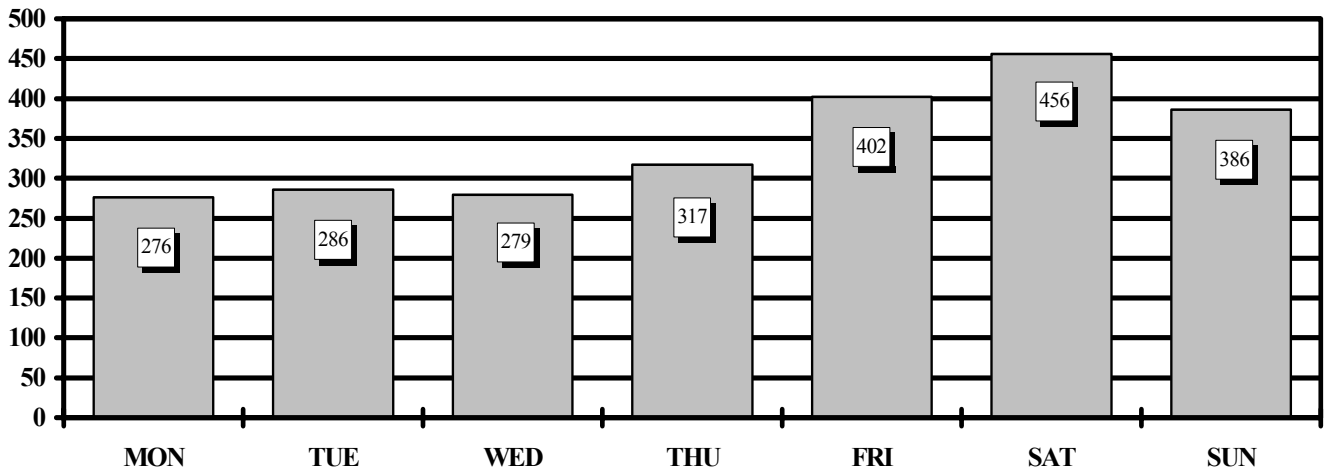


Figure 8-8
Fatal Motorcycle Crashes by Time of Day
Weekends

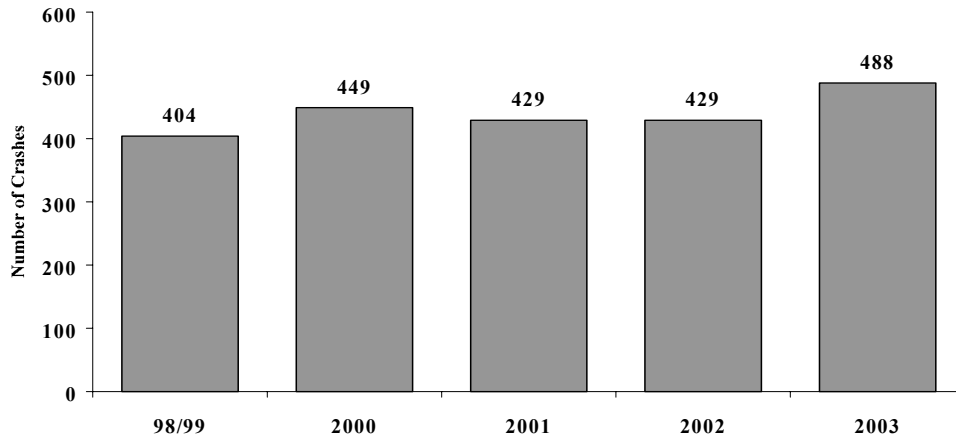


Section 8: Motorcycle Crashes

Figure 8-9
Motorcycle Crashes by Day of Week



**Section 9:
School Bus Crashes**



**Table 9-1
School Bus Driver Errors**

	Number of Drivers and % of Total	
	Total	%
No Improper Driving	248	50.82%
Speed Not Reasonable & Proper	38	7.79%
Failed to Yield	30	6.15%
Following Too Closely	3	0.61%
Improper Turn	33	6.76%
Drove in Opposing Lane	4	0.82%
Other	33	6.76%
Unknown	28	5.74%
Inattention	56	11.48%
No Passing Zone	4	0.82%
Unsafe Lane Change	11	2.25%
TOTAL DRIVERS	488	100.00%

** Beginning with the year 2000 school bus crash data is based upon the calendar year.
Prior issues were based on school session years.*

Section 9: School Bus Crashes

**Table 9-2
School Bus Crash History**

	98/99	2000	2001	2002	2003
Injuries and Fatalities					
Pupils					
Killed	0	1	0	0	0
Injured	95	139	128	81	63
Bus Drivers					
Killed	0	0	0	1	0
Injured	17	20	22	20	21
Property Damage Only Crashes	424	433	289	280	339
Crash by Time of Day					
A.M.	179	208	199	169	210
P.M.	225	241	230	236	278
Weather Conditions:					
Not Reported	3	1	0	2	2
Clear and Dry	346	380	355	356	403
Rain	17	12	17	7	21
Snow or Ice	2	4	16	2	4
Dusty or Windy	2	1	1	1	1
Fog	1	2	0	0	0
Cloudy	27	49	40	37	57

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The National Safety Council