

ARIZONA



MOTOR VEHICLE CRASH FACTS 1997

1997 Motor Vehicle Crash Facts for Arizona

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This publication is a statistical review of the motor vehicle crashes in the State of Arizona for calendar year 1997. 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.

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Motor Vehicle Crash Facts is an annual report published by the Traffic Engineering Group of the Arizona Department of Transportation. 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.

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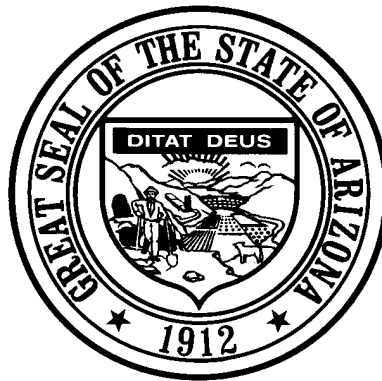


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Note to all statistical users

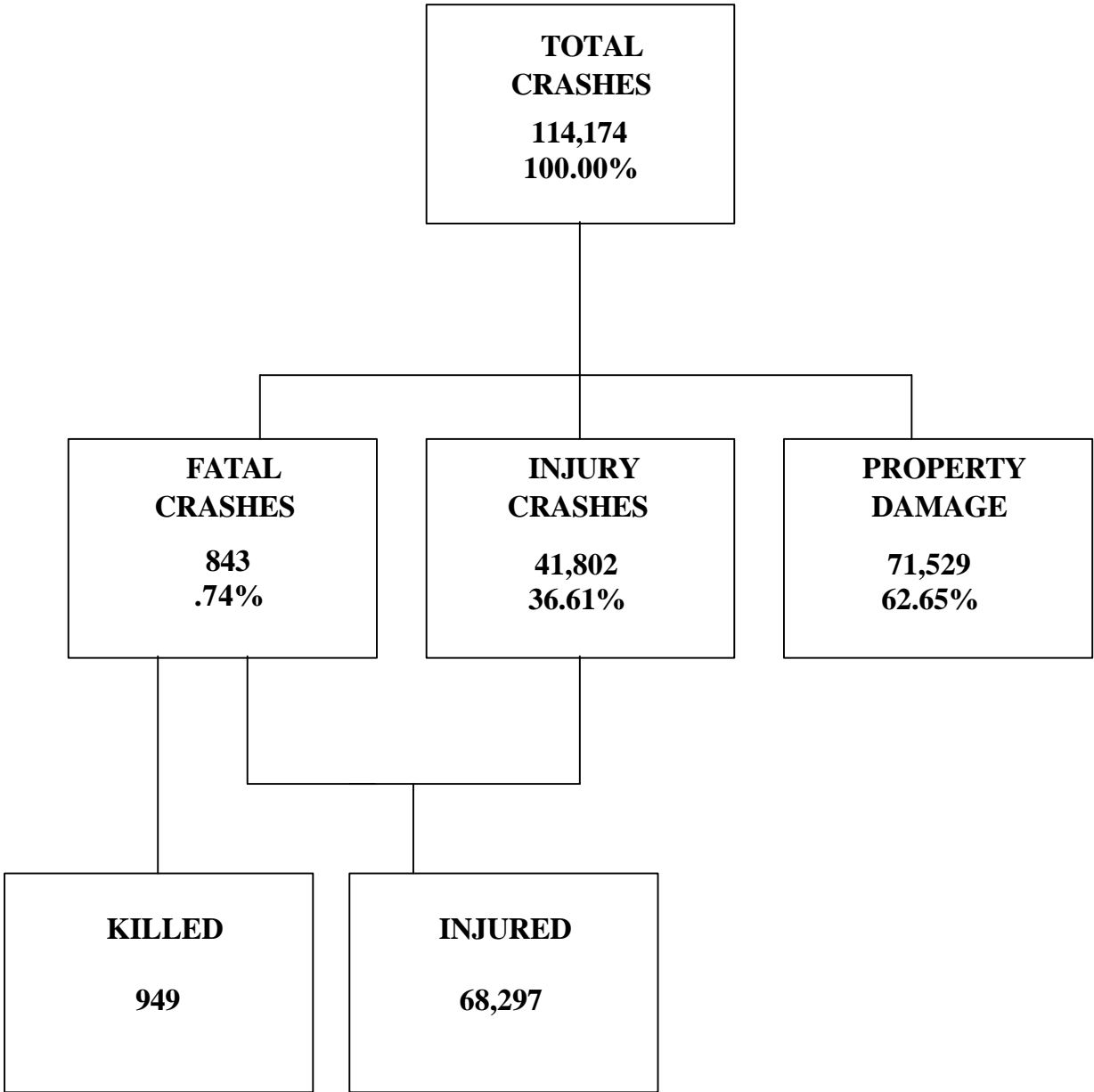
It has been discovered that the data entry program used for the drivers and victims had a default error concerning age. All persons with an unknown date of birth had been assigned, February 14, 1912, (AZ Statehood Day), as a default date of birth. Their ages show in the statistics as being in their 80's. This error has effected our database since mid 1992. Please be aware of this when attempting age comparisons in the 1992 through 1996 crash facts.

The most obvious category is the Hit and Run driver. Approximately 10,000 to 12,000 individuals were appearing in the 75 and older group when in reality they should have been distributed throughout all age brackets.

Tables 1-5 (page 8) and 5-8 (page 38) are most adversely effected. Those tables have been adjusted to show the fatalities and fatal crash involvement according to the Fatality Analysis Reporting System. Injury and property damage only crashes will be shown as unknown or not reported in this addition.

Tables 6-7 (page 43), 6-10 (page 45), 7-1 (page 50), 7-9 (page 53) and 8-5 (page 58) will show some effect but have not been adjusted.

Section 1: Highlights and Historical Trends



Section 1: Highlights and Historical Trends

**Table 1-1
Arizona Crash Facts**

Category	1996	1997	Pct Change
Reported crashes	112,959	114,174	+1.08%
Total killed	995	949	-4.62%
Total injured	71,807	68,297	-4.89%
Pedestrians killed	164	153	-6.71%
Pedestrians injured	1,621	1,624	+0.19%
Motorcyclists killed	71	60	-15.49%
Motorcyclists injured	1,819	1,636	-10.06%
Pedalcyclists killed	30	31	+3.33%
Pedalcyclists injured	2,089	2,067	-1.05%
Millions of vehicle miles traveled (VMT)	42,007	43,543	+3.66%
Deaths per 100 million VMT	2.37	2.18	-8.02%
Injuries per 100 million VMT	170.74	158.85	-6.97%

1997 At a Glance

- ⇒ Approximately **2.6** persons were killed each day.
- ⇒ One person was killed every **9.2** hours.
- ⇒ There were **187.1** persons injured every day.
- ⇒ One person was injured every **7.7** minutes.
- ⇒ Drinking drivers were involved in **6.44%** of all crashes.
- ⇒ Drinking drivers were involved in **29.5%** of all fatalities.
- ⇒ Over **82.2%** of all drinking drivers involved in crashes were males.
- ⇒ Rural crashes accounted for **19.8%** of all crashes, and over **56.4%** of all fatal crashes.
- ⇒ **79.2%** of all crashes occurred during daylight.
- ⇒ Motor vehicle crashes resulted in **\$2.32** billion in economic losses to Arizona.
- ⇒ Motor vehicle crashes killed **73** children and injured **6,687** children through age 14.

The Nation In 1997

41,967 persons were killed in motor vehicle crashes in the United States.

An estimated **3,399,000** persons were injured.

There were an estimated **6,726,000** crashes.

The population of the United States was estimated at **264,349,000**.

Vehicle miles traveled totaled **2,694 billion** miles.

**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
1983	76,616	616	31,683	44,317	675	50,076	2,299,798	2,055,026
1984	88,037	787	36,576	50,674	869	57,592	2,526,872	2,162,526
1985	92,921	782	37,841	54,298	893	59,650	2,106,559	2,283,832
1986	99,809	889	39,651	59,269	1,007	62,466	2,186,465	2,387,818
1987	99,172	811	40,115	58,246	939	63,278	2,296,741	2,438,960
1988	96,225	844	38,853	56,528	944	62,232	2,375,763	2,511,115
1989	92,144	770	37,850	53,524	879	61,597	2,416,057	2,546,530
1990	91,121	784	37,609	52,728	869	60,747	2,480,244	2,822,304
1991	85,728	727	34,277	50,724	816	55,625	2,517,836	2,842,475
1992	89,862	703	36,024	53,137	811	58,496	2,653,409	2,820,431
1993	97,903	704	38,434	58,765	801	63,037	2,855,184	2,910,175
1994	106,728	796	41,809	64,123	906	68,872	2,631,218	2,786,435
1995	113,888	919	43,721	69,248	1,037	71,994	2,776,877	2,945,574
1996	112,964	858	43,314	68,792	995	71,807	3,127,080	3,187,190
1997	114,174	843	41,802	71,529	949	68,297	3,187,150	3,393,170

Section 1: Highlights and Historical Trends

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*
1945	11.28	17.99	283	1,573	
1950	7.59	11.04	325	2,944	9.54
1955	6.37	8.11	358	4,415	6.86
1960	5.31	7.85	513	6,536	9.15
1965	5.54	6.60	550	8,339	5.80
1970	4.91	6.29	762	12,122	5.27
1975	3.46	4.18	670	16,031	3.69
1976	3.25	4.36	737	16,895	3.75
1977	3.26	5.15	933	18,121	4.43
1978	3.26	5.33	1,027	19,277	4.71
1979	3.34	5.25	1,029	19,584	4.47
1980	3.35	5.03	947	18,816	4.43
1981	3.17	4.93	916	18,570	4.47
1982	2.76	3.67	724	19,729	3.22
1983	2.58	3.44	675	19,611	3.14
1984	2.57	4.22	869	20,613	3.82
1985	2.47	3.07	893	29,052	2.69
1986	2.51	3.23	1,007	31,143	2.85
1987	2.42	2.96	939	31,729	2.56
1988	2.32	2.76	944	34,153	2.47
1989	2.16	2.52	879	34,816	2.21
1990	2.44	2.45	869	35,455	2.21
1991	1.91	2.34	816	34,927	2.08
1992	1.80	2.31	811	35,048	2.00
1993	1.80	2.10	801	38,067	1.85
1994	1.73	2.34	906	38,776	2.05
1995	1.70	2.62	1,037	39,566	2.32
1996	1.70	2.37	995	42,007	2.04
1997	1.70	2.18	949	43,543	1.99

*vehicle miles traveled are shown per 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 1997, an average of 115 persons died each day in motor vehicle crashes across the United States -one every 12 minutes.

Statewide Economic Loss Due to Motor Vehicle Crashes

In 1997, the economic impact of motor vehicle crashes accounted for \$503.66 for every man, woman, and child in the state of Arizona.

Fatalities	\$930,020,000.
Injuries	929,163,200.
Property Damage Only	457,785,600.
TOTAL.	\$2,316,968,800.

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

Counties	Cost of Traffic Crashes			Total
	Fatalities	Injuries	PDOs	
Apache	\$42,140,000	\$3,331,600	\$2,073,600	\$47,545,200
Cochise	21,560,000	14,830,800	8,352,000	44,742,800
Coconino	49,980,000	27,771,600	21,113,600	98,865,200
Gila	25,480,000	10,105,200	4,140,800	39,726,000
Graham	10,780,000	4,434,000	1,235,200	16,449,200
Greenlee	1,960,000	1,251,200	416,000	3,627,200
La Paz	17,640,000	4,248,800	1,382,400	23,271,200
Maricopa	392,000,000	575,856,400	292,332,800	1,260,189,200
Mohave	54,880,000	24,869,600	11,040,000	90,789,600
Navajo	36,260,000	9,028,000	5,241,600	50,529,600
Pima	135,240,000	167,328,400	74,233,600	376,802,000
Pinal	63,700,000	28,779,600	12,089,600	104,569,200
Santa Cruz	1,960,000	2,434,400	2,656,000	7,050,400
Yavapai	50,960,000	24,522,400	13,107,200	88,589,600
Yuma	25,480,000	30,371,200	8,371,200	64,222,400
TOTALS	\$930,020,000	\$929,163,200	\$457,785,600	\$2,316,968,800

Cost estimates are based on the 1997 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 1997 are not comparable to those published in the past. The following factors were used to approximate the value of the loss for crashes occurring in Arizona.

- | | |
|------------------------------|------------|
| 1. Fatality | \$980,000. |
| 2. Incapacitating Injury | 42,800. |
| 3. Non-incapacitating Injury | 14,400 |
| 4. Possible Injury | 7,200. |
| 5. Property Damage Only | 6,400. |

Across our nation, the economic cost of motor vehicle crashes in 1997 was estimated to be \$150.5 billion.

Section 1: Highlights and Historical Trends

Traffic Crashes in Arizona by Year

Figure 1-1: All Crashes

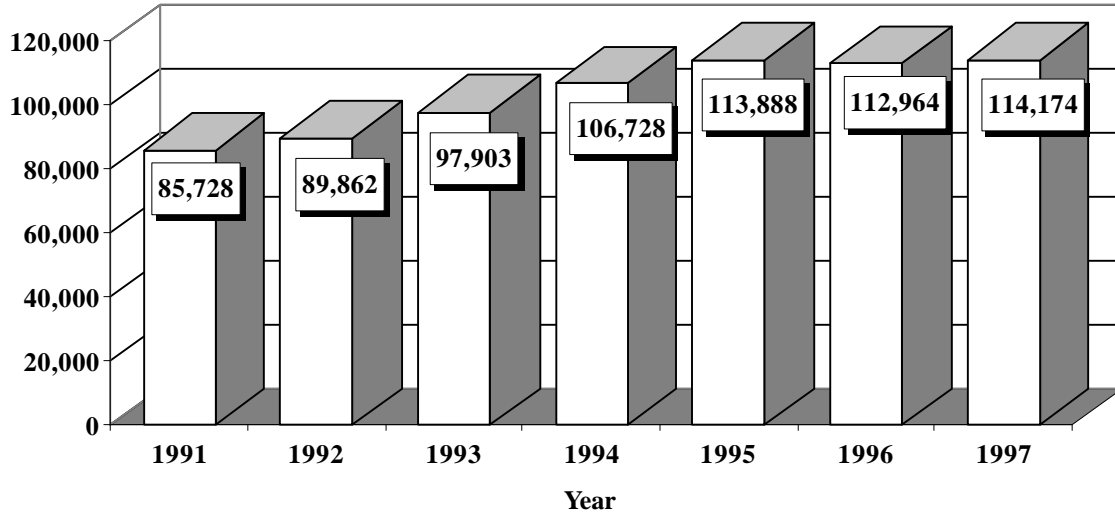


Figure 1-2: Fatal Crashes

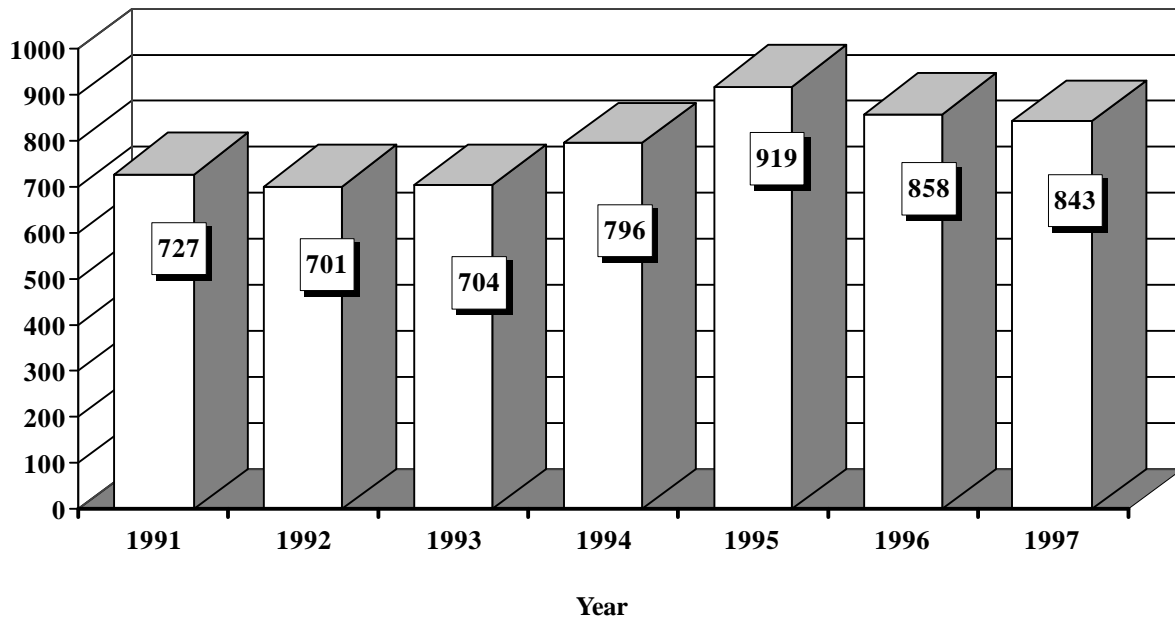


Figure 1-3: Injury Crashes

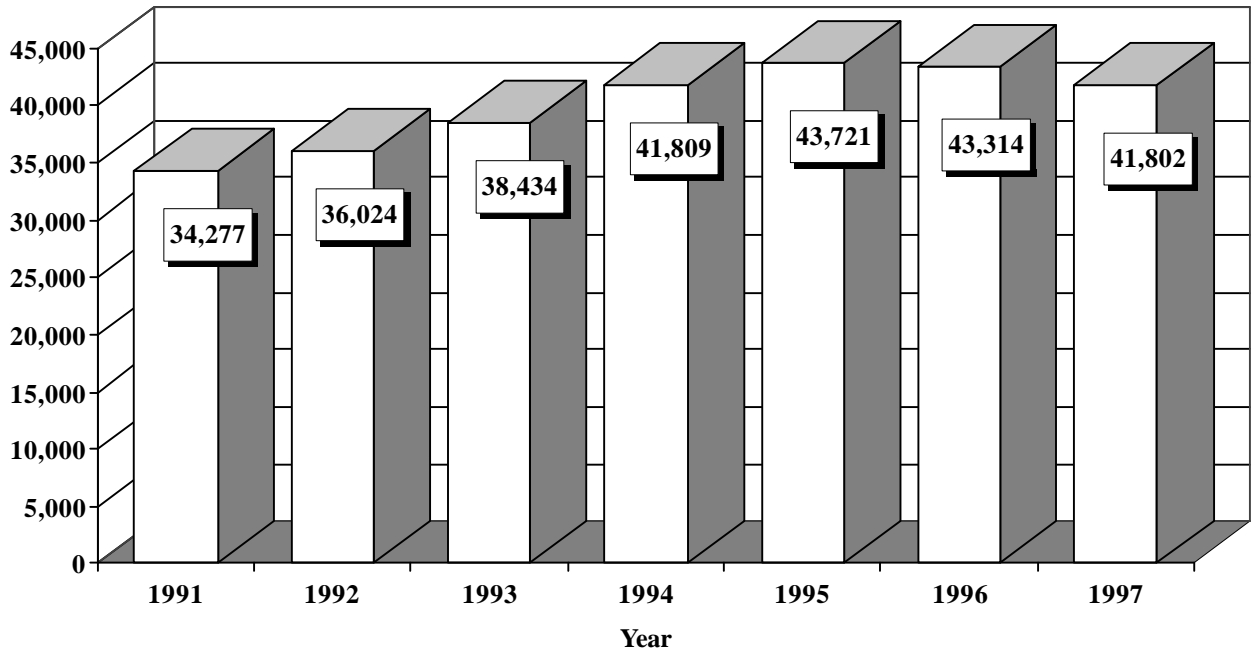
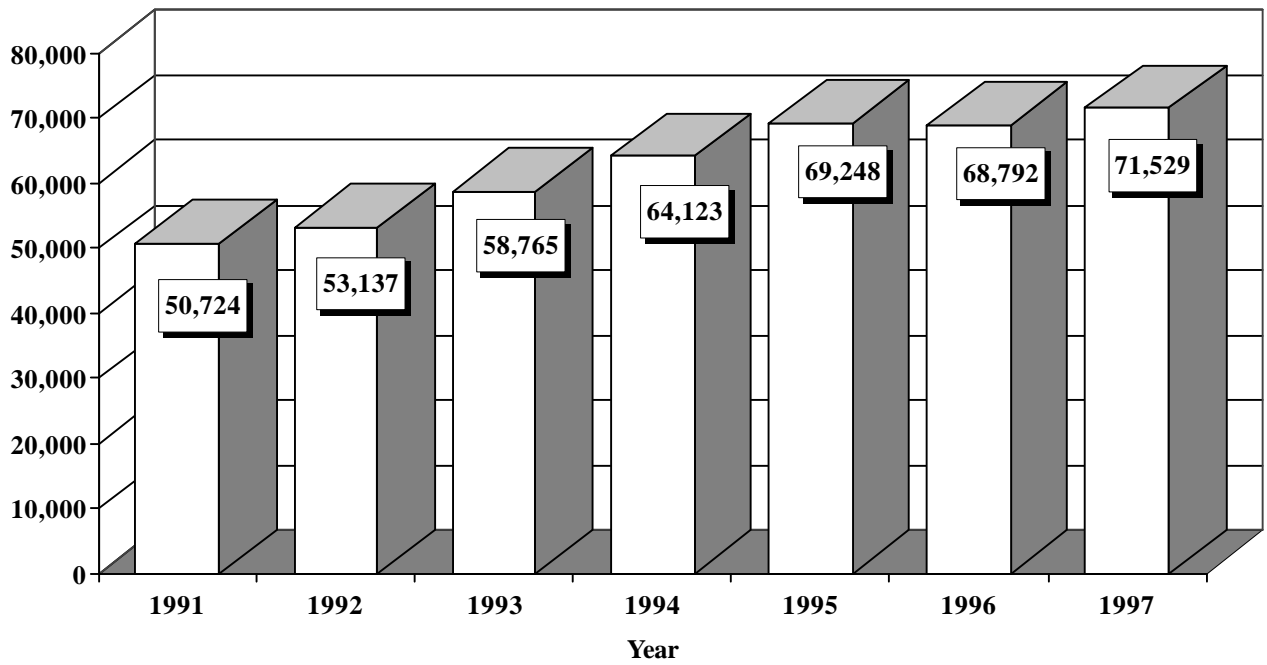


Figure 1-4: Property Damage Only Crashes



Section 1: Highlights and Historical Trends

Table 1-5
Victims of Motor Vehicle Crashes*

Age of Victim	Total Killed			Total Injured			Sex Unk.
	Male	Female		Male	Female		
0 - 4	23	10	13	1,695	824	869	2
5 - 9	23	12	11	2,291	1,162	1,128	1
10 - 14	27	16	11	2,701	1,326	1,374	1
15 - 19	76	53	23	9,942	4,821	5,116	5
20 - 24	115	84	31	9,338	4,920	4,410	8
25 - 34	180	143	37	13,938	7,121	6,813	4
35 - 44	163	116	47	11,081	5,395	5,684	2
45 - 54	107	67	40	7,282	3,466	3,810	6
55 - 64	75	46	29	3,948	1,818	2,128	2
65 - 74	73	45	28	3,039	1,397	1,640	2
**75 & Older	87	46	41	unk	unk	unk	
Age Unknown	0	0	0	3,042	1,398	1,601	43
Totals	949	638	311	68,297	33,648	34,573	76

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

** See note on page I

Arizona's Estimated Population

	Population Percentage	Traffic Crash Fatality Percentage	Population Estimate
White	71.61%	59.9%	3,290,748
Hispanic	18.77%	19.3%	862,552
African American	2.86%	3.6%	131,428
Native American	5.18%	15.8%	238,040
Asian	1.41%	1.2%	64,795
Other	0.12%	0.00%	5,519
Total estimated 1997 population		4,595,375**	

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 ratios are based on 1990 U.S. Census Data.

**Numbers are based on estimates and may not total to exact number.

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

Age of Victim	Total Killed			African American			Native American	
		Male	Female	White	Hispanic	Asian	American	
Less than 1	3	1	0	1	1	1	0	0
1-14	81	55	26	35	25	6	1	14
15-19	86	60	27	51	15	1	0	19
20-44	472	324	149	231	104	15	5	116
45-64	168	115	53	104	31	6	1	26
65+	159	109	50	124	17	4	1	13
Unknown	3	2	1	0	1	1	0	0
Total	972	666	306	546	194	34	8	188

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

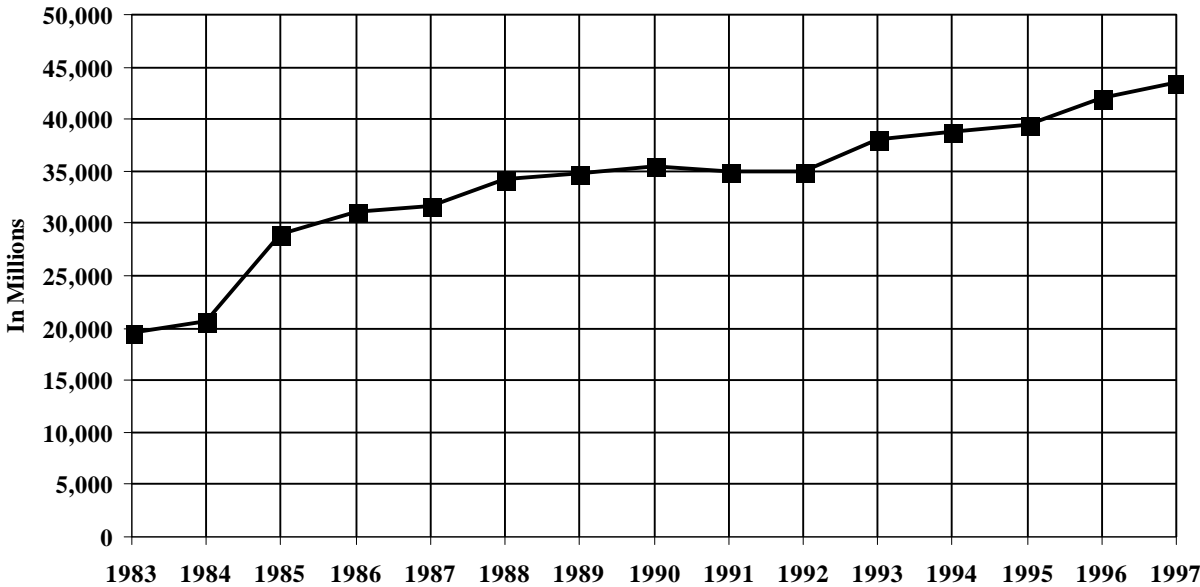
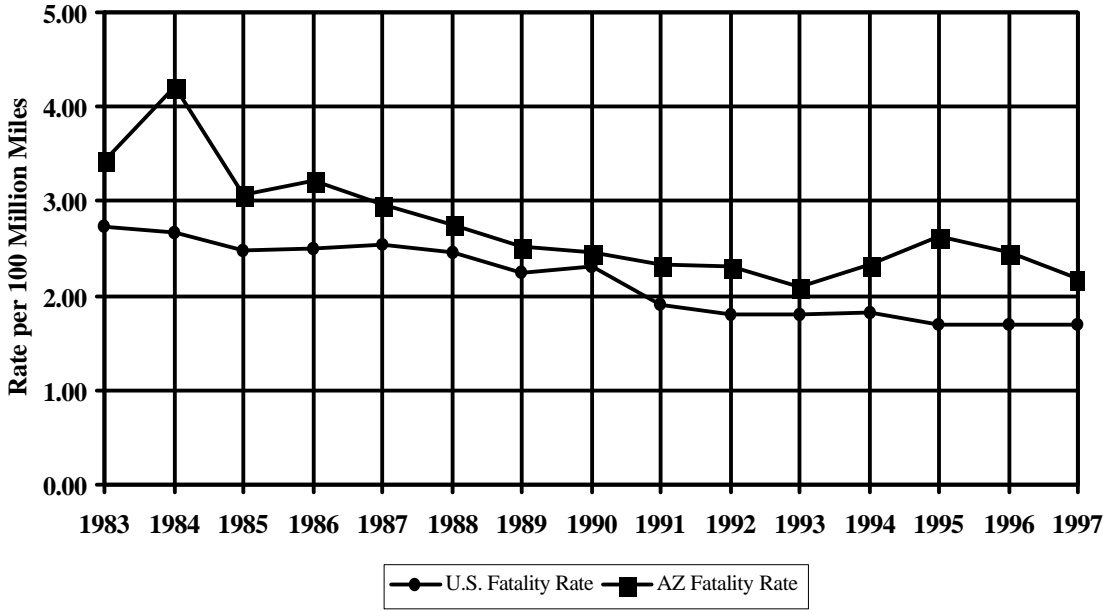


Figure 1-6
Arizona versus U.S. Fatality Rate



Section 1: Highlights and Historical Trends

Figure 1-7
Traffic Fatalities by Land Use

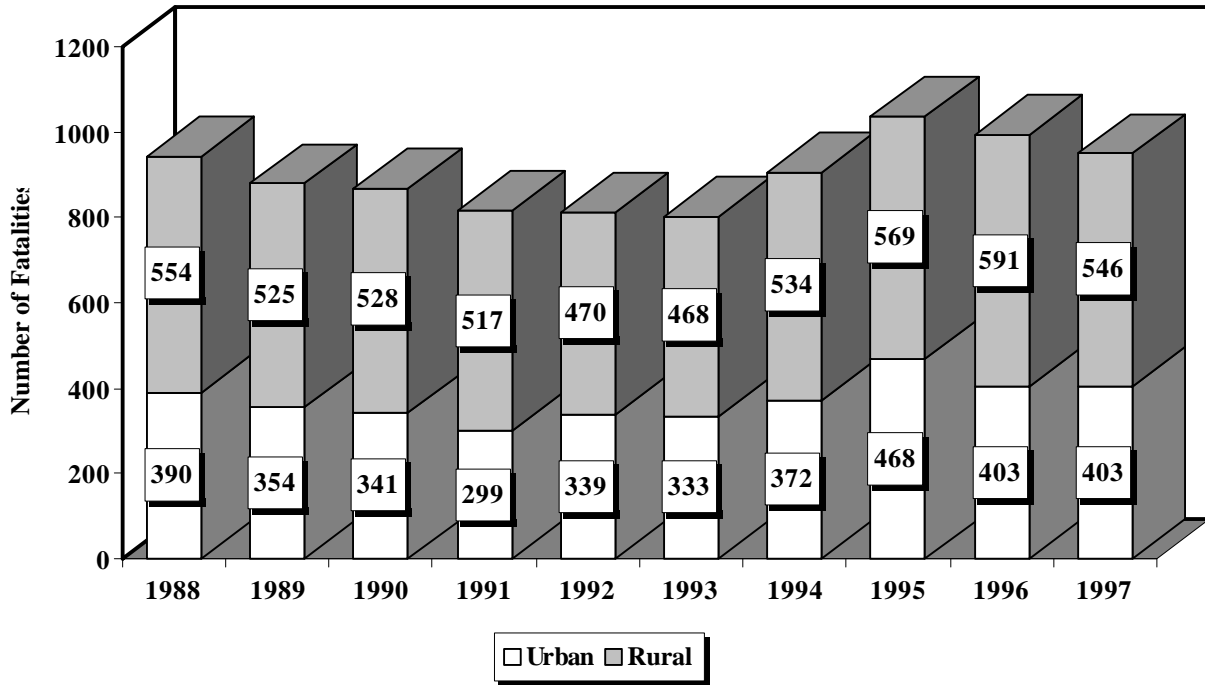
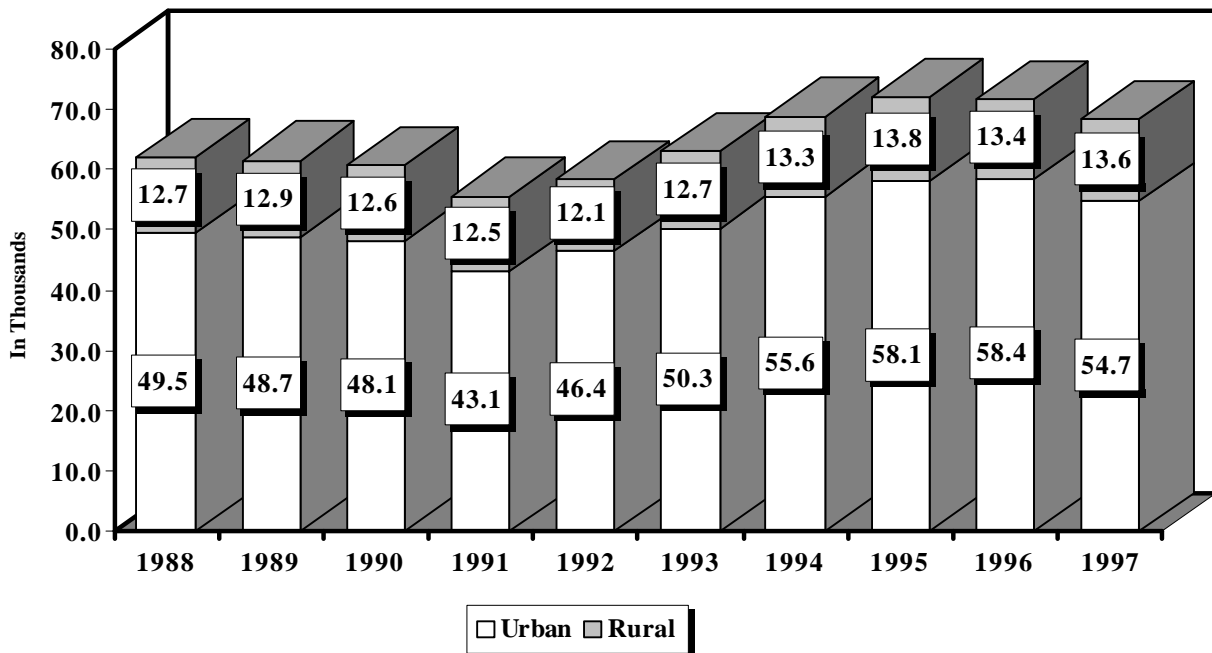


Figure 1-8
Traffic Injuries by Land Use



**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 Years, and the Fourth of July are celebrated on specific dates; which also make the holiday period range from one to four days in length.

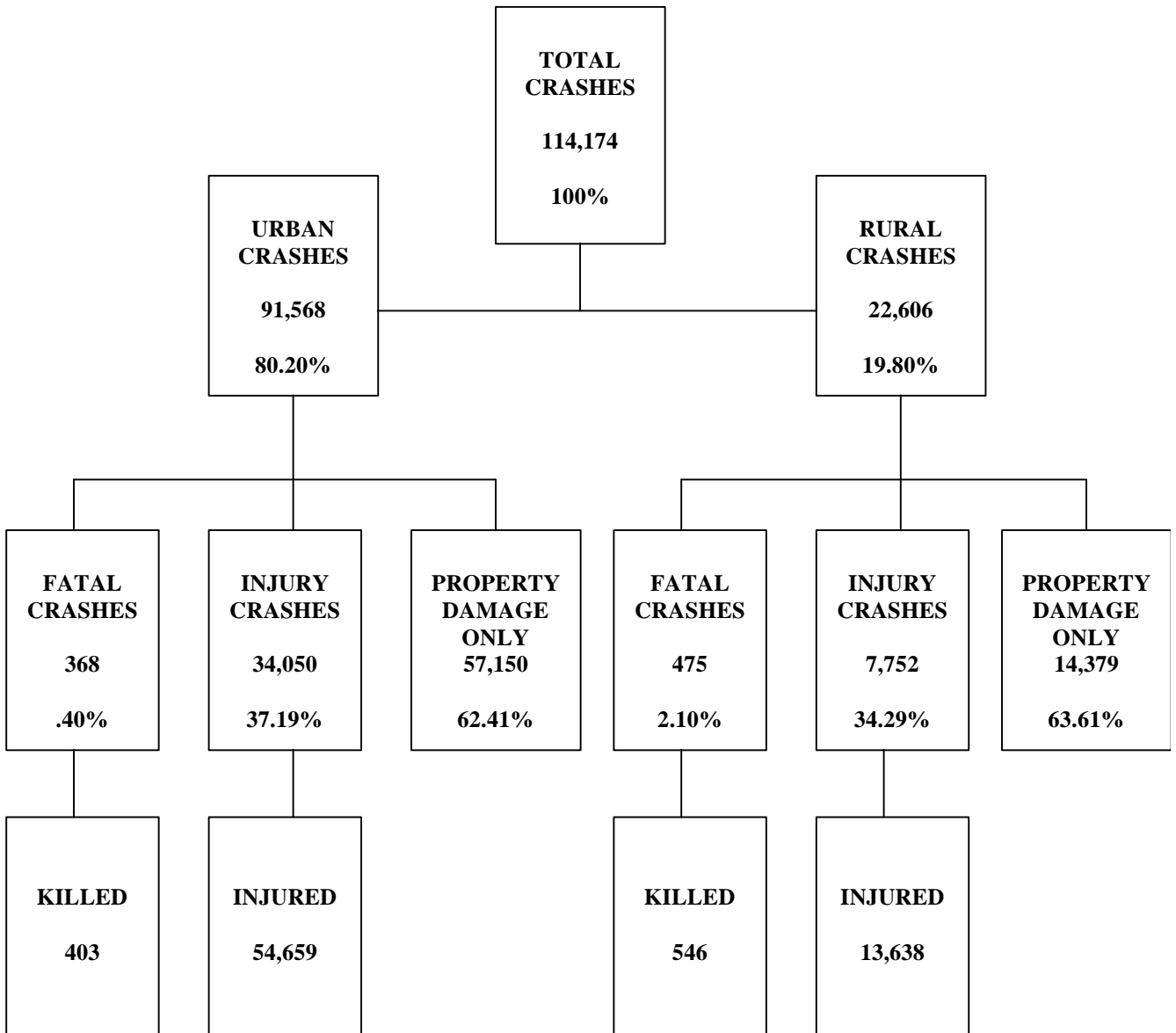
Holiday fatality statistics are based on fatal crashes occurring between 6:00 p.m. on the last working day prior to the holiday and midnight on the last day of the holiday period. Example: Thanksgiving fatalities are counted from Wednesday evening at 6:00 p.m. through midnight of the following Sunday.

1997 Holidays	Beginning at 6 p.m.	Ending at Midnight	Number of Days	Fatal Crashes	Persons Killed	Alcohol-Related Crashes	Alcohol-Related Fatalities
New Years	Tuesday 12/31/96	Wednesday 1/1/97	1	3	3	1	1
Memorial Day	Friday 5/23/97	Monday 5/26/97	3	9	12	5	8
July 4th	Thursday 7/03/97	Sunday 7/6/97	3	9	10	1	1
Labor Day	Friday 8/29/97	Monday 9/1/97	3	22	23	6	6
Thanksgiving Day	Wednesday 11/26/97	Sunday 11/30/97	4	11	17	2	3
Christmas	Wednesday 12/24/97	Sunday 12/28/97	4	11	17	2	3

Fatal Crashes by Year	New Years	Memorial Day	July 4th	Labor Day	Thanks-giving	Christmas	Total
1993	4	6	14	7	9	10	50
1994	5	7	8	9	10	7	46
1995	7	10	10	13	11	10	62
1996	14	5	9	8	13	1	50
1997	3	9	9	22	11	11	65
Persons Killed	New Years	Memorial Day	July 4th	Labor Day	Thanks-giving	Christmas	Total
1993	5	6	21	8	9	11	60
1994	6	11	8	9	11	14	59
1995	8	10	11	15	12	14	70
1996	16	6	14	8	16	1	61
1997	3	12	10	23	17	17	82
Number of Days	New Years	Memorial Day	July 4th	Labor Day	Thanks-giving	Christmas	Total
1993	3	3	3	3	4	3	19
1994	3	3	3	3	4	3	19
1995	3	3	1	3	4	3	17
1996	3	3	4	3	4	1	18
1997	1	3	3	3	4	4	18

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	2,860	139	1,551	1,170	162	2,742
Other Non-Collision	2,031	21	580	1,430	23	699
Pedestrian	1,724	152	1,512	57	153	1,624
Motor Veh. In Transit	88,223	311	31,789	56,123	374	55,155
Motor Veh. Other Roadway	20	10	4	6	13	39
Parked Motor Veh.	3,512	3	372	3,137	4	452
Railway Train	21	3	7	11	4	8
Pedalcyclist	2,330	31	2,041	258	31	2,067
Animal	1,285	2	176	1107	2	248
Fixed Object	11,772	166	3,697	7909	178	5,168
Other Object	399	5	73	321	5	95
TOTALS	114,174	843	41,802	71,529	949	68,297

Severity by First Harmful Event in Urban Areas

Urban	Number of Crashes				Number of Persons	
	Total	Fatal	Injury	PDO	Killed	Injured
Overturning	414	9	223	182	11	355
Other Non-Collision	775	9	290	476	9	319
Pedestrian	1,504	104	1,350	50	104	1,447
Motor Veh. In Transit	76,295	154	27,730	48,411	181	47,241
Motor Veh. Other Roadway	6	4	0	2	4	18
Parked Motor Veh.	3,059	2	324	2,733	3	392
Railway Train	16	0	5	11	0	6
Pedalcyclist	2,191	24	1,921	246	24	1,945
Animal	158	0	27	131	0	42
Fixed Object	7,053	61	2,146	4,846	66	2,847
Other Object	97	1	34	62	1	47
TOTALS	91,568	368	34,050	57,150	403	54,659

Severity by First Harmful Event in Rural Areas

Rural	Number of Crashes				Number of Persons	
	Total	Fatal	Injury	PDO	Killed	Injured
Overturning	2,446	130	1,328	988	151	2,387
Other Non-Collision	1,256	12	290	954	14	380
Pedestrian	217	48	162	7	49	177
Motor Veh. In Transit	11,928	157	4,059	7,712	193	7,914
Motor Veh. Other Roadway	14	6	4	4	9	21
Parked Motor Veh.	453	1	48	404	1	60
Railway Train	5	3	2	0	4	2
Pedalcyclist	139	7	120	12	7	122
Animal	1,127	2	149	976	2	206
Fixed Object	4,719	105	1,551	3,063	112	2,321
Other Object	302	4	39	259	4	48
TOTALS	22,606	475	7,752	14,379	546	13,638

Section 2: Geographic Location

**Table 2-4
Crashes by County**

County	Number of Crashes				Number of Persons	
	Total	Fatal	Injury	PDOs	Fatalities	Injuries
Apache	473	37	112	324	43	182
Cochise	1,865	20	540	1,305	22	894
Coconino	4,514	46	1,169	3,299	51	1,974
Gila	1,031	22	362	647	26	650
Graham	355	11	151	193	11	260
Greenlee	106	2	39	65	2	55
La Paz	365	17	132	216	18	232
Maricopa	73,616	372	27,567	45,677	400	44,801
Mohave	2,674	46	903	1,725	56	1,533
Navajo	1,217	29	369	819	37	631
Pima	19,186	116	7,471	11,599	138	12,059
Pinal	2,881	56	936	1,889	65	1,736
Santa Cruz	546	2	129	415	2	188
Yavapai	3,145	44	1,053	2,048	52	1,670
Yuma	2,200	23	869	1,308	26	1,432
Total	114,174	843	41,802	71,529	949	68,297

While rural crashes in Arizona accounted for only 19.8% of all crashes, they were responsible for 56.3% of all fatal crashes occurring in 1997.

**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	56	0	12	44	0	19	5	0	5
St. Johns	9	0	3	6	0	7	0	0	0
Springerville	1	0	0	1	0	0	0	0	0
State Rural Roads	364	12	93	259	15	150	25	2	28
Other Rural Roads	43	25	4	14	28	6	6	6	3
TOTAL	473	37	112	324	43	182	36	8	36

1997 Arizona Crash Facts Summary

COUNTIES Cities	Total	Number of Crashes			No. of Persons		Alcohol-Related		
		Fatal	Injury	Property Damage	Killed	Injured	Crashes	Killed	Injured
COCHISE COUNTY									
Benson	23	0	7	16	0	11	1	0	2
Bisbee	55	0	22	33	0	28	5	0	1
Douglas	339	0	54	285	0	82	24	0	18
Huachuca City	9	0	4	5	0	5	0	0	0
Sierra Vista	552	1	174	377	1	267	19	1	14
Tombstone	28	1	5	22	1	7	2	0	0
Willcox	58	1	11	46	1	20	3	0	1
State Rural Roads	630	10	219	401	12	410	43	1	59
Other Rural Roads	171	7	44	120	7	64	12	2	4
TOTAL	1,865	20	540	1305	22	894	110	4	99
COCONINO COUNTY									
Flagstaff	2,343	2	501	1,840	2	782	99	1	65
Fredonia	11	0	3	8	0	5	0	0	0
Page	125	1	36	88	1	53	12	1	8
Sedona	273	1	79	193	1	114	18	0	7
Williams	66	0	8	58	0	19	1	0	0
State Rural Roads	1,407	36	464	907	40	878	92	8	104
Other Rural Roads	289	6	78	205	7	123	40	5	29
TOTAL	4,514	46	1,169	3,299	51	1,974	262	15	213
GILA COUNTY									
Globe	162	2	53	107	3	97	12	1	13
Hayden	3	0	1	2	0	1	1	0	1
Miami	18	0	4	14	0	4	1	0	0
Payson	116	0	33	83	0	52	5	0	3
Winkelman	0	0	0	0	0	0	0	0	0
State Rural Roads	612	14	239	359	17	442	48	2	56
Other Rural Roads	120	6	32	82	6	54	9	1	6
TOTAL	1,031	22	362	647	26	650	76	4	79
GRAHAM COUNTY									
Pima	8	0	5	3	0	8	0	0	0
Safford	79	3	41	35	3	72	3	0	4
Thatcher	51	1	21	29	1	40	3	0	2
State Rural Roads	131	6	45	80	6	75	18	1	34
Other Rural Roads	86	1	39	46	1	65	9	1	8
TOTAL	355	11	151	193	11	260	33	2	48

Section 2: Geographic Location

COUNTIES Cities	Total	Number of Crashes			No. of Persons		Alcohol-Related		
		Fatal	Injury	Property Damage	Killed	Injured	Crashes	Killed	Injured
GREENLEE COUNTY									
Clifton	24	0	10	14	0	14	3	0	2
Duncan	1	0	0	1	0	0	0	0	0
State Rural Roads	79	2	28	49	2	40	12	1	14
Other Rural Roads	2	0	1	1	0	1	0	0	0
TOTAL	106	2	39	65	2	55	15	1	16
LA PAZ COUNTY									
Parker	0	0	0	0	0	0	0	0	0
Quartzite	21	0	5	16	0	6	2	0	0
Colo. River Resv.	13	4	6	3	4	8	1	0	0
State Rural Roads	320	12	117	191	13	213	24	2	27
Other Rural Roads	11	1	4	6	1	5	3	1	3
TOTAL	365	17	132	216	18	232	30	3	30
MARICOPA COUNTY									
Avondale	222	0	49	173	0	86	29	0	14
Buckeye	3	1	1	1	1	2	0	0	0
Carefree	6	0	3	3	0	3	1	0	1
Cave Creek	5	0	2	3	0	5	0	0	0
Chandler	2,553	11	876	1,666	11	1,388	173	4	135
El Mirage	41	0	15	26	0	22	5	0	7
Fountain Hills	19	0	3	16	0	5	1	0	0
Ft. McDowell Resv	4	3	0	1	4	1	1	1	0
Gila Bend	6	0	1	5	0	5	0	0	0
Gilbert	838	5	283	550	5	434	45	1	24
Glendale	3,044	15	1,263	1,766	17	2,138	201	4	195
Goodyear	135	2	51	82	4	87	6	0	2
Guadalupe	47	1	15	31	1	20	4	0	2
Mesa	10,728	31	3,395	7,302	32	5,379	452	6	402
Paradise Valley	187	1	62	124	0	106	14	1	7
Peoria	1,002	2	313	687	2	503	49	0	53
Phoenix	38,211	172	14,985	23,054	184	24,542	2,559	54	2,372
Scottsdale	4,401	19	1,533	2,849	19	2,465	235	7	211
Surprise	149	0	49	100	0	74	10	0	6
Tempe	6,881	17	2,773	4,091	19	4,190	428	7	358
Tolleson	113	2	36	75	2	70	4	0	2
Wickenburg	47	0	18	29	0	30	4	0	1
Youngtown	1	0	1	0	0	1	0	0	0
State Rural Roads	1,798	39	652	1,107	43	1,178	139	10	148
Other Rural Roads	3,175	51	1,188	1,936	56	2,067	249	20	276
TOTAL	73,616	372	27,567	45,677	400	44,801	4,609	115	4,216

1997 Arizona Crash Facts Summary

COUNTIES Cities	Total	Number of Crashes			No. of Persons		Alcohol-Related		
		Fatal	Injury	Property Damage	Killed	Injured	Crashes	Killed	Injured
MOHAVE COUNTY									
Bullhead City	652	3	190	459	4	307	58	0	47
Colorado City	13	0	4	9	0	8	1	0	0
Kaibab-Paiute Resv.	6	1	1	4	1	1	1	1	0
Kingman	402	1	131	270	1	186	28	0	18
Lake Havasu City	370	4	150	216	5	219	53	3	48
State Rural Roads	894	27	306	561	35	583	75	11	79
Other Rural Roads	337	10	121	206	10	229	56	3	57
TOTAL	2,674	46	903	1,725	56	1,533	272	18	249
NAVAJO COUNTY									
Holbrook	102	3	17	82	3	28	7	0	5
Pinetop-Lakeside	93	1	35	57	1	68	6	0	11
Show Low	169	0	52	117	0	94	5	0	4
Snowflake	68	2	18	48	3	30	9	1	9
Taylor	8	0	1	7	0	2	1	0	2
Winslow	164	1	36	127	1	56	19	1	8
State Rural Roads	475	15	165	295	19	280	32	8	30
Other Rural Roads	138	7	45	86	10	73	10	2	12
TOTAL	1,217	29	369	819	37	631	89	12	81
PIMA COUNTY									
Marana	344	2	89	253	3	142	13	0	10
Oro Valley	182	0	60	122	0	97	6	0	11
Sahuarita	8	0	3	5	0	5	0	0	0
South Tucson	257	1	78	178	1	141	18	0	21
Tucson	13,519	56	5,506	7,957	68	8,730	728	18	633
State Rural Roads	1,266	26	446	794	32	795	78	4	84
Other Rural Roads	3,610	31	1,289	2,290	34	2,149	281	12	278
TOTAL	19,186	116	7,471	11,599	138	12,059	1,124	34	1,037
PINAL COUNTY									
Apache Junction	388	3	130	255	3	234	25	0	18
Casa Grande	594	3	179	412	3	288	31	0	21
Coolidge	73	0	24	49	0	44	6	0	4
Eloy	86	2	23	61	2	39	15	2	10
Florence	60	1	8	51	1	9	1	1	0
Kearny	3	0	1	2	0	2	0	0	0
Mammoth	12	1	4	7	1	10	4	1	6
Superior	25	0	7	18	0	14	6	0	10
State Rural Roads	1,053	26	373	654	31	773	109	9	114
Other Rural Roads	587	20	187	380	24	323	56	4	49
TOTAL	2,881	56	936	1,889	65	1,736	253	17	232

Section 2: Geographic Location

About 59.2% of Arizona's population reside in Maricopa County, but only 44.1% of all fatal crashes occurred there in 1997.

COUNTIES Cities	Total	Number of Crashes			No. of Persons		Alcohol-Related		
		Fatal	Injury	Property Damage	Killed	Injured	Crashes	Killed	Injured
SANTA CRUZ COUNTY									
Nogales	357	1	69	287	1	101	23	0	10
Rio Rico	1	0	1	0	0	1	0	0	0
State Rural Roads	186	1	59	126	1	86	24	0	18
Other Rural Roads	2	0	0	2	0	0	0	0	0
TOTAL	546	2	129	406	2	188	47	0	28
YAVAPAI COUNTY									
Camp Verde	94	3	21	70	3	27	10	1	5
Ash Fork	1	0	0	1	0	0	0	0	0
Cottonwood	191	0	52	139	0	70	5	0	5
Jerome	4	0	0	4	0	0	0	0	0
Prescott	656	2	237	417	2	341	50	1	37
Prescott Valley	289	1	70	218	1	110	21	0	9
State Rural Roads	1,434	30	512	892	38	876	95	6	74
Other Rural Roads	476	8	161	307	8	246	50	2	39
TOTAL	3,145	44	1,053	2,048	52	1,670	231	10	169
YUMA COUNTY									
San Luis	12	0	2	10	0	3	1	0	2
Somerton	11	0	2	9	0	5	3	0	3
Wellton	1	0	1	0	0	1	0	0	0
Yuma	1,389	3	596	790	4	909	93	0	105
State Rural Roads	346	10	110	226	10	224	28	3	42
Other Rural Roads	441	10	158	273	12	290	36	3	38
TOTAL	2,200	23	869	1,308	26	1,432	161	6	190
STATEWIDE TOTAL	114,174	843	41,802	71,529	949	68,297	7,348	249	6,723

Totals within city and town jurisdictions include all State Highways

During 1997, across the nation, 86 percent of speeding-related fatalities occurred on roads that were not Interstate Highways.

Figure 2-1
Crash Rate per 100,000 People

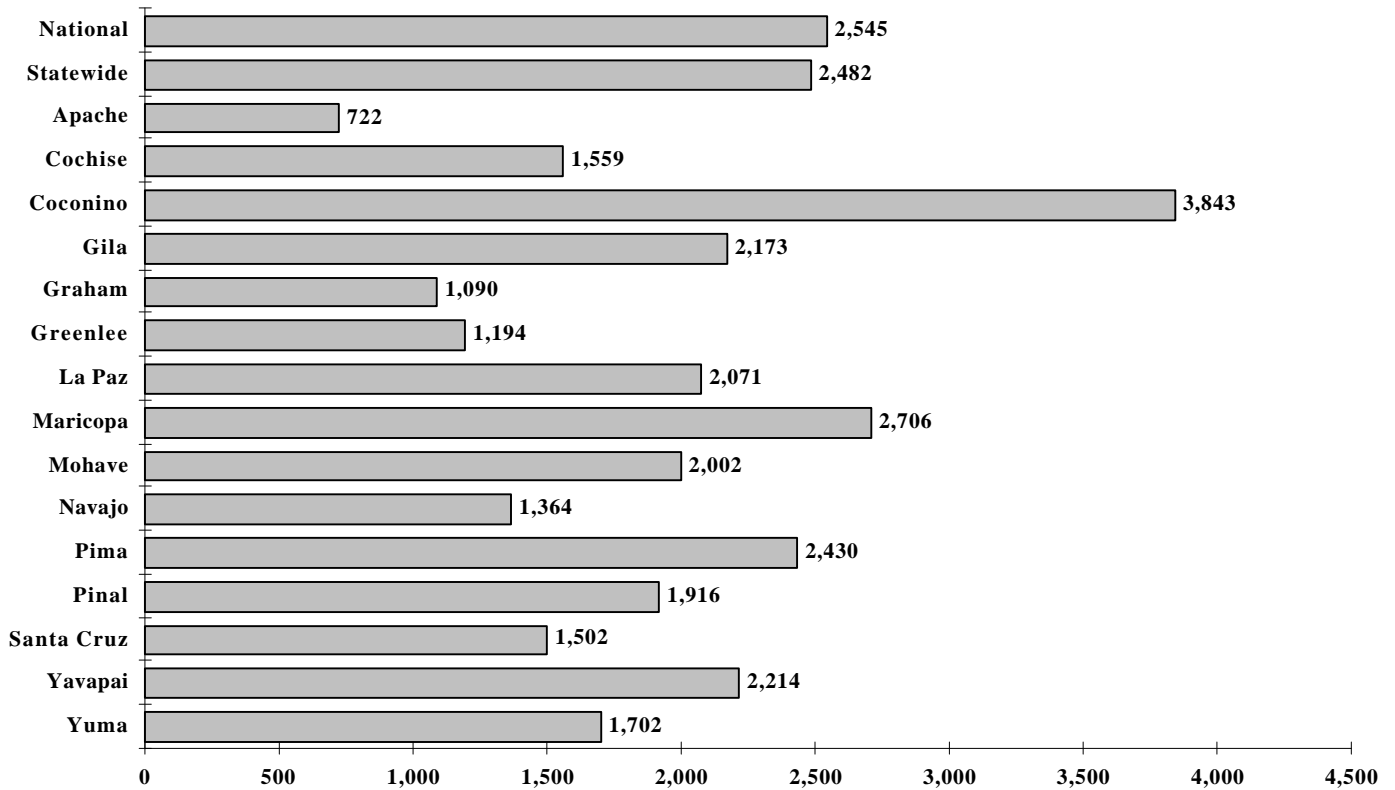
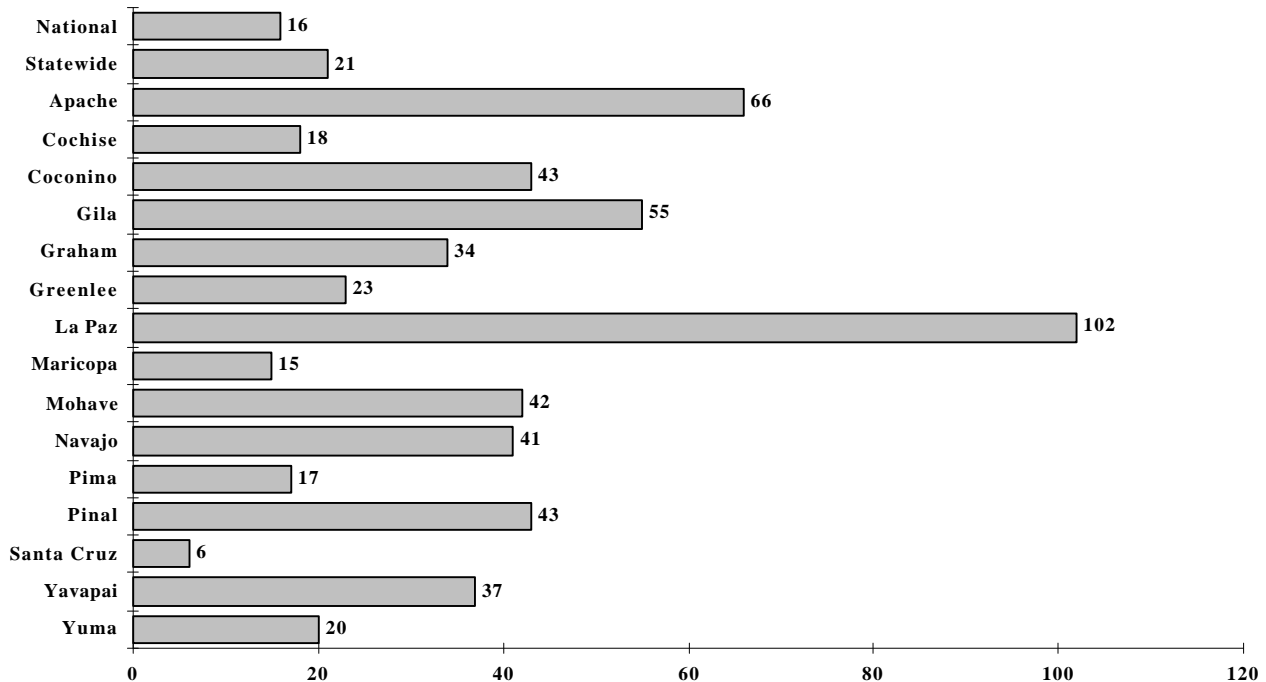


Figure 2-2
Fatality Rate per 100,000 People



Section 2: Geographic Location

Table 2-6
The State Highway System*

Route	Number of Crashes				Number of Persons				
	Total	Fatal	Injury	Property Damage	Total Killed	Total Injured	Possible Injury	Non-Incap Injury	Incap Injury
I 8	294	16	95	183	18	204	48	84	72
SB 8	51	1	17	33	1	37	17	13	7
I 10	5,445	46	1,551	3,848	51	2,864	1,415	887	382
SB 10	26	0	11	15	0	20	3	12	5
I 15	101	3	28	70	4	56	19	18	19
I 17	3,491	28	995	2,468	34	1,553	936	502	115
I 19	408	2	143	263	5	218	108	95	15
SB 19	69	2	36	31	2	55	21	25	9
I 40	1,338	29	452	857	37	792	301	367	124
SB 40	533	0	139	394	0	236	126	103	7
S 51	629	3	170	456	3	246	175	59	12
U 60	2,263	17	730	1,516	20	1,189	636	387	166
S 61	24	0	6	18	0	7	2	4	1
S 64	107	3	25	79	3	50	12	33	5
S 66	44	2	20	22	2	38	14	18	6
S 67	30	0	2	28	0	5	1	2	2
S 68	102	5	36	61	6	67	27	17	23
S 69	310	1	109	200	1	182	102	55	25
U 70	124	9	55	60	10	100	39	38	23
S 71	11	1	2	8	1	2	1	1	0
S 72	19	0	6	11	2	11	7	2	2
S 73	5	0	3	2	0	3	1	1	1
S 74	52	1	19	32	1	31	6	18	7
S 75	11	1	8	2	1	13	3	2	8
S 77	551	11	181	359	12	295	150	120	25
S 78	10	0	1	9	0	1	0	0	1
S 79	77	2	27	48	2	43	15	15	13
SB 79	0	0	0	0	0	0	0	0	0
S 80	140	3	44	93	3	82	35	34	13
S 81	0	0	0	0	0	0	0	0	0
S 82	60	1	18	41	1	23	10	12	1
S 83	22	1	10	11	1	11	7	3	1
S 84	77	4	27	46	4	62	21	14	27
S 85	91	5	31	55	6	68	21	30	17
S 86	110	4	47	59	8	107	50	34	23
S 87	654	11	248	395	17	448	194	174	80
S 88	137	3	52	82	4	75	23	41	11
S 89	230	5	96	129	5	161	73	56	32
SA 89	493	4	163	326	4	239	140	88	11
SL 89	2	0	1	1	0	5	0	4	1
U 89	268	8	96	164	10	204	81	87	36
UA 89	52	2	23	27	2	44	15	16	13
S 90	171	1	65	105	1	110	38	48	24
S 92	108	3	40	65	3	79	24	46	9
U 93	333	8	123	202	10	246	98	97	51

Legend:

In the route column, the first letter signifies the following: I=Interstate, S=State, U=U.S. Highway.
The second letter signifies: A=alternate, B=business, L=loop, S=spur, X=temporary.

1997 Arizona Crash Facts Summary

Route	Number of Crashes				Number of Persons				
	Total	Fatals	Injury	Property Damage	Killed	Total Injured	Possible Injury	Non-Incap Injury	Incap Injury
S 95	672	8	240	424	9	429	208	147	74
U 95	152	4	56	92	4	118	33	60	25
S 96	3	0	1	2	0	1	0	1	0
S 97	4	0	2	2	0	2	0	1	1
S 98	13	1	4	8	1	12	7	5	0
S 99	6	0	2	4	0	4	0	3	1
S 101	246	1	69	176	1	98	56	29	13
S 143	122	2	40	80	2	62	40	18	4
S 153	0	0	0	0	0	0	0	0	0
U 160	34	10	6	18	11	32	5	14	13
U 163	4	0	3	1	0	3	1	2	0
S 169	20	0	9	11	0	17	7	8	2
S 170	1	0	1	0	0	1	0	1	0
S 177	33	0	16	17	0	23	5	16	2
S 179	103	2	35	66	2	53	30	21	2
SA 180	0	0	0	0	0	0	0	0	0
U 180	195	1	65	129	2	115	45	57	13
S 181	2	1	1	0	1	6	6	0	0
S 186	6	0	3	3	0	4	0	2	2
S 188	34	0	10	24	0	22	12	6	4
S 189	8	1	1	6	1	1	1	0	0
U 191	193	8	63	122	9	107	50	29	28
UB 191	0	0	0	0	0	0	0	0	0
UX 191	7	0	3	4	0	4	1	2	1
S 202	905	3	245	657	3	358	250	84	24
S 238	7	0	2	5	0	5	2	3	0
S 260	649	11	206	432	11	373	198	141	34
S 261	1	0	0	1	0	0	0	0	0
S 264	12	5	6	1	7	12	5	6	1
S 266	6	0	4	2	0	6	4	2	0
S 273	13	0	4	9	0	9	8	1	0
S 277	22	0	5	17	0	5	1	4	0
S 280	19	0	2	17	0	4	1	3	0
S 286	10	1	1	8	1	7	3	2	2
S 287	33	0	10	23	0	17	7	8	2
S 288	11	0	7	4	0	10	4	5	1
S 289	4	0	2	2	0	2	1	1	0
S 303	36	2	17	17	2	39	16	16	7
S 347	18	1	3	14	1	4	0	2	2
S 366	19	1	6	12	1	8	3	2	3
S 373	5	0	2	3	0	3	0	2	1
S 377	14	2	2	10	2	5	3	2	0
S 386	1	0	1	0	0	2	1	1	0
S 387	35	2	11	22	2	25	5	15	5
S 389	20	1	5	14	1	7	1	5	1
S 473	2	0	0	2	0	0	0	0	0
S 564	0	0	0	0	0	0	0	0	0
S 587	11	0	4	7	0	7	4	3	0
TOTAL	22,784	316	7,126	15,342	369	12,124	6,039	4,392	1,693

* This table does not include crashes on the state highway system where a local street name was used as a reference on the police accident report form.

Section 3: Crash Descriptions

Section 3: Crash Descriptions

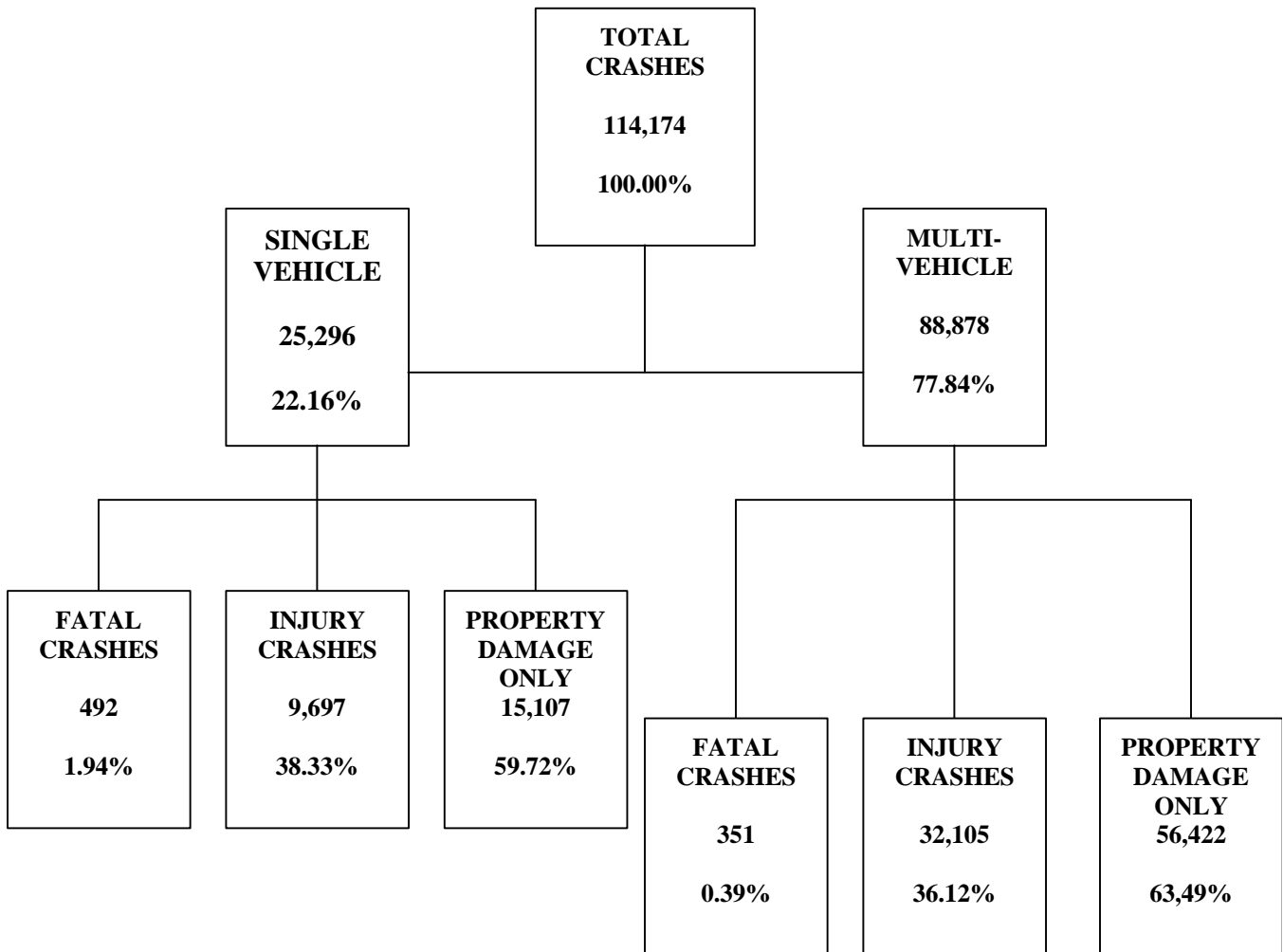


Table 3-1
Manner of Collision in Multi-Vehicle Crashes

Manner of Collision	Percent of		Percent of		Percent of	
	Total	All Crashes	Fatal	Fatal Crashes	Injury	Injury Crashes
Head On	584	0.66%	93	26.50%	388	1.20%
Rear End	38,027	42.79%	39	11.11%	14,036	43.36%
Side Swipe Opposite Direction	932	1.05%	10	2.85%	325	1.00%
Side Swipe Same Direction	10,845	12.20%	16	4.56%	1,898	5.86%
Left Turn	11,617	13.07%	58	16.52%	5,824	17.99%
Other Angle	21,215	23.87%	90	25.64%	8,633	26.67%
Backed Into	1,692	1.90%	0	0%	142	0.44%
Other	3,966	4.46%	45	12.82%	1,128	3.48%
TOTAL	88,878	100.00%	351	100.00%	32,374	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	109,810	828	40,424	68,558	933	66,113
Under Construction Thru Traffic Allowed	2,968	8	896	1,964	8	1,447
Under Construction Traffic Detoured	43	0	9	34	0	13
Under Repairs	106	0	32	74	0	51
Holes,Ruts,Bumps	366	3	132	231	4	200
Obstruction Protected	34	0	6	28	0	11
Obstruction Unprotected	112	0	30	82	0	43
Obstruction Unlighted at Night	48	1	19	28	1	27
Defective Shoulders	29	0	15	14	0	20
Changing Road Width	296	0	82	214	0	121
Flooded	85	0	31	54	0	36
Temporary Lane Closure	377	3	126	248	3	215
TOTALS	114,174	843	41,802	71,529	949	68,297

Section 3: Crash Descriptions

**Table 3-3
Weather Conditions**

Weather	Number of Crashes				Number of Persons	
	Total	Fatal	Injury	PDO	Killed	Injured
Clear	93,598	626	34,533	58,439	692	56,353
Raining	6,119	30	2,136	3,953	32	3,567
Cloudy	12,387	91	4,614	7,682	111	7,484
Snowing	1,034	4	195	835	4	295
Strong Wind	465	3	160	302	3	267
Dust	80	0	33	47	0	101
Fog	54	0	19	35	0	48
Not Reported	437	89	112	236	107	182
TOTALS	114,174	843	41,802	71,529	949	68,297

**Table 3-4
Lighting Conditions**

Lighting	Number of Crashes				Number of Persons	
	Total	Fatal	Injury	PDO	Killed	Injured
Daylight	82,656	399	29,945	52,312	448	48,251
Dawn or Dusk	5,288	52	1,933	3,303	57	3,189
Darkness	26,045	392	9,874	15,779	444	16,781
Not Reported	185	0	50	135	0	76
TOTALS	114,174	843	41,802	71,529	949	68,297

**Table 3-5
Road Surface**

Surface	Number of Crashes				Number of Persons	
	Total	Fatal	Injury	PDO	Killed	Injured
Asphalt	104,089	698	38,728	64,663	779	63,565
Concrete	7,881	30	2,392	5,459	34	3,597
Gravel	374	1	117	256	2	184
Dirt	1,412	27	450	935	29	759
Other	63	0	16	47	0	30
Not Reported	355	87	99	169	105	162
TOTALS	114,174	843	41,802	71,529	949	68,297

**Table 3-6
Road Surface Conditions**

Surface	Number of Crashes				Number of Persons	
	Total	Fatal	Injury	PDO	Killed	Injured
Dry	102,416	778	37,974	63,664	880	62,096
Wet	8,144	41	2,845	5,258	43	4,692
Snowy or Icy	1,768	7	371	1,390	7	581
Other	1,846	17	612	1,217	19	928
TOTALS	114,174	843	41,802	71,529	949	68,297

Nationally, traffic fatalities account for more than 90 percent of transportation-related fatalities.

**Table 3-7
Road Grade**

Road Grade	Number of Crashes				Number of Persons	
	Total	Fatal	Injury	PDO	Killed	Injured
Level	101,517	578	37,464	63,475	636	61,226
Downgrade	6,440	103	2,266	4,071	119	3,711
Upgrade	4,549	55	1,497	2,997	63	2,407
Hill crest	363	5	147	211	8	263
Dip	175	4	70	101	5	112
Not Reported	1,130	98	358	674	118	578
TOTALS	114,174	843	41,802	71,529	949	68,297

Section 3: Crash Descriptions

Figure 3-1
Crashes by Time of Day
Weekdays

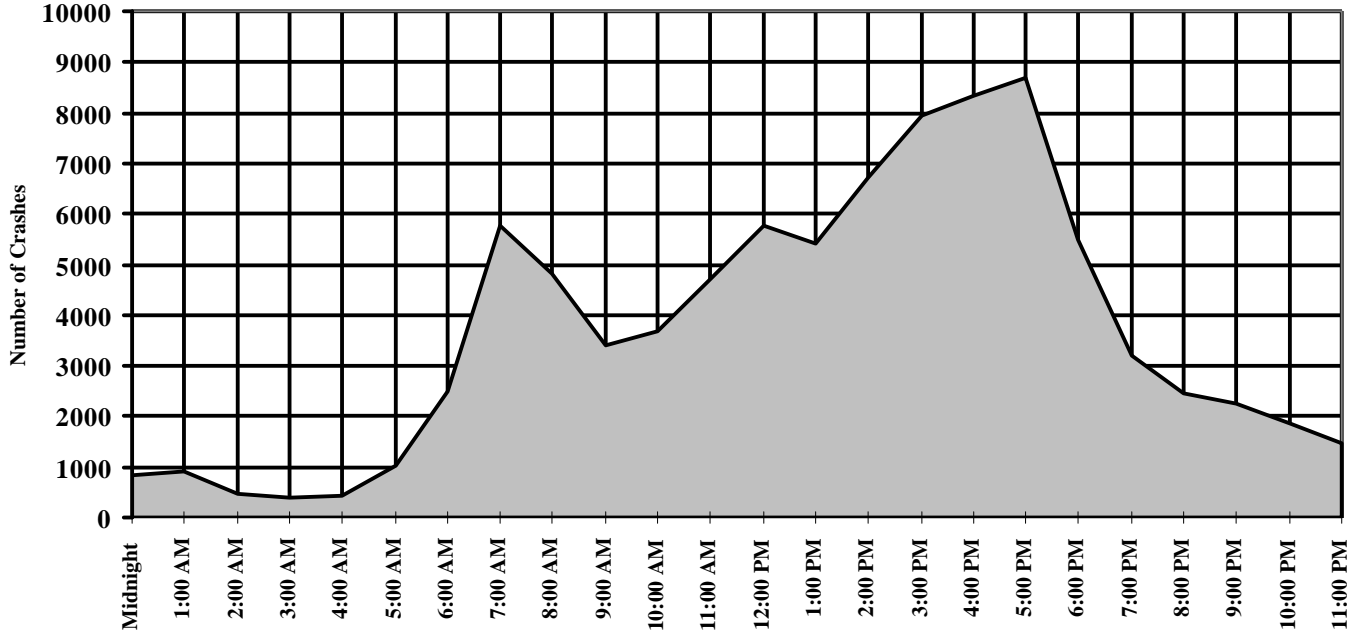


Figure 3-2
Crashes by Time of Day
Weekends

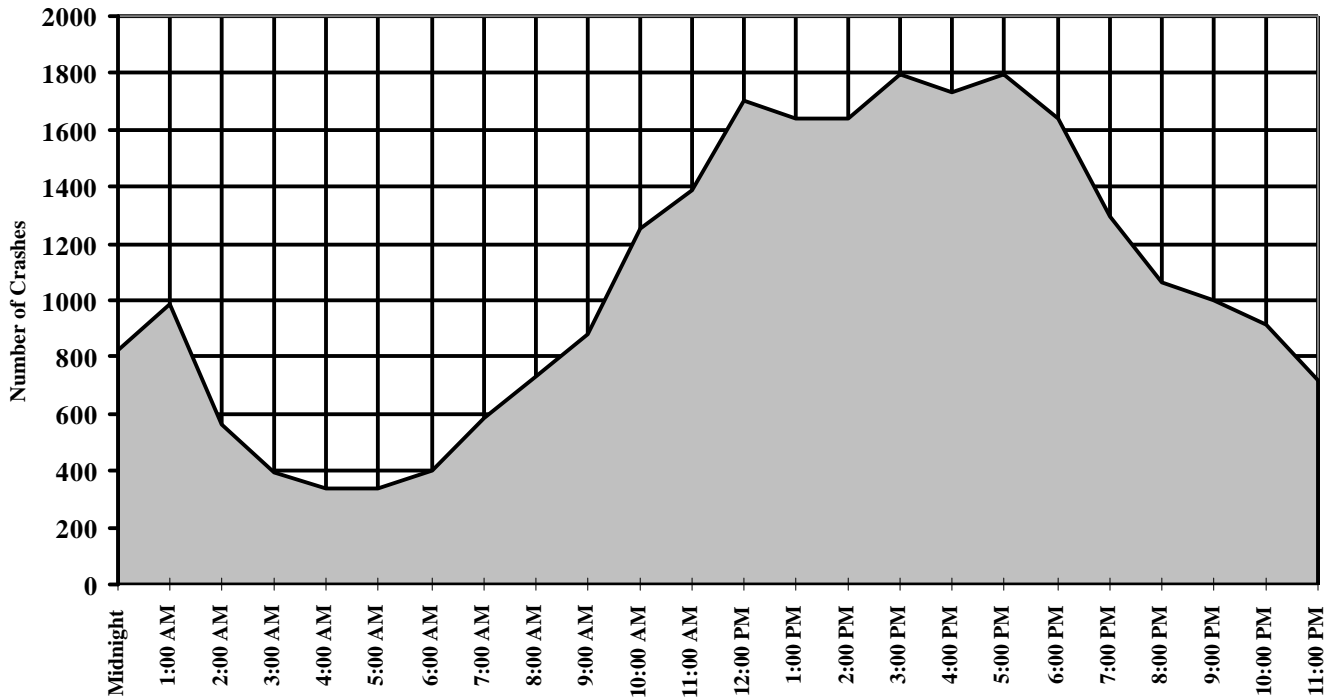


Figure 3-3
Fatal Crashes by Time of Day
Weekdays

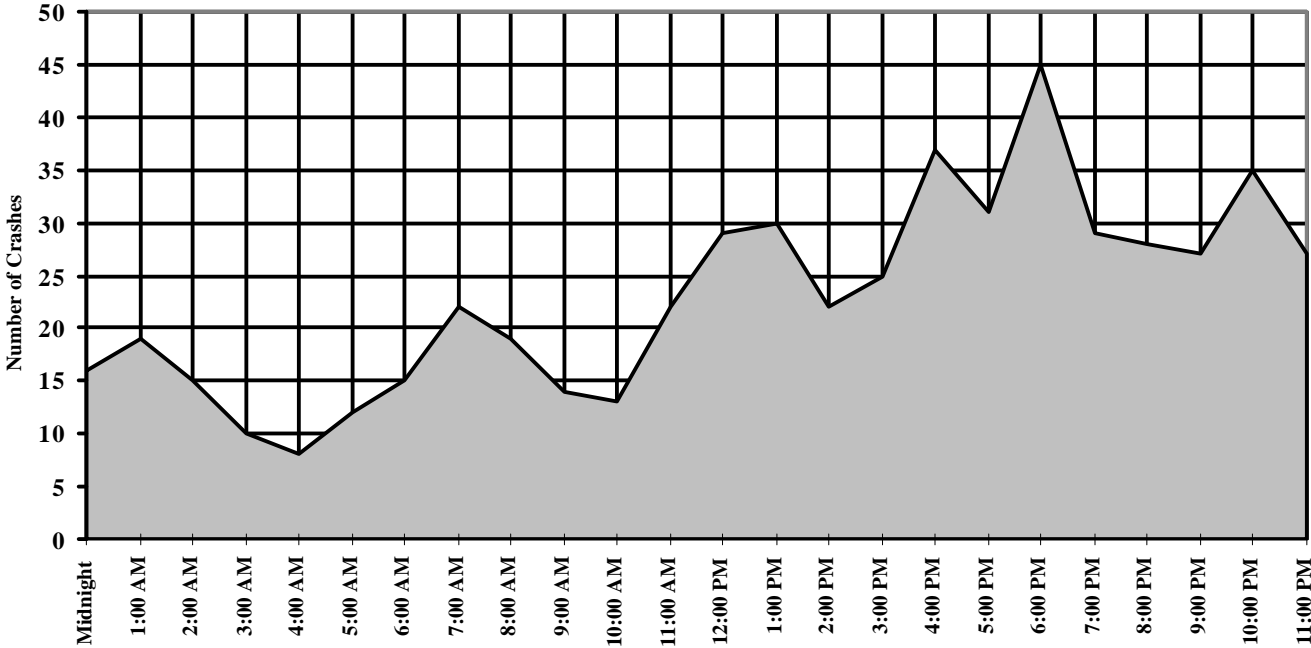
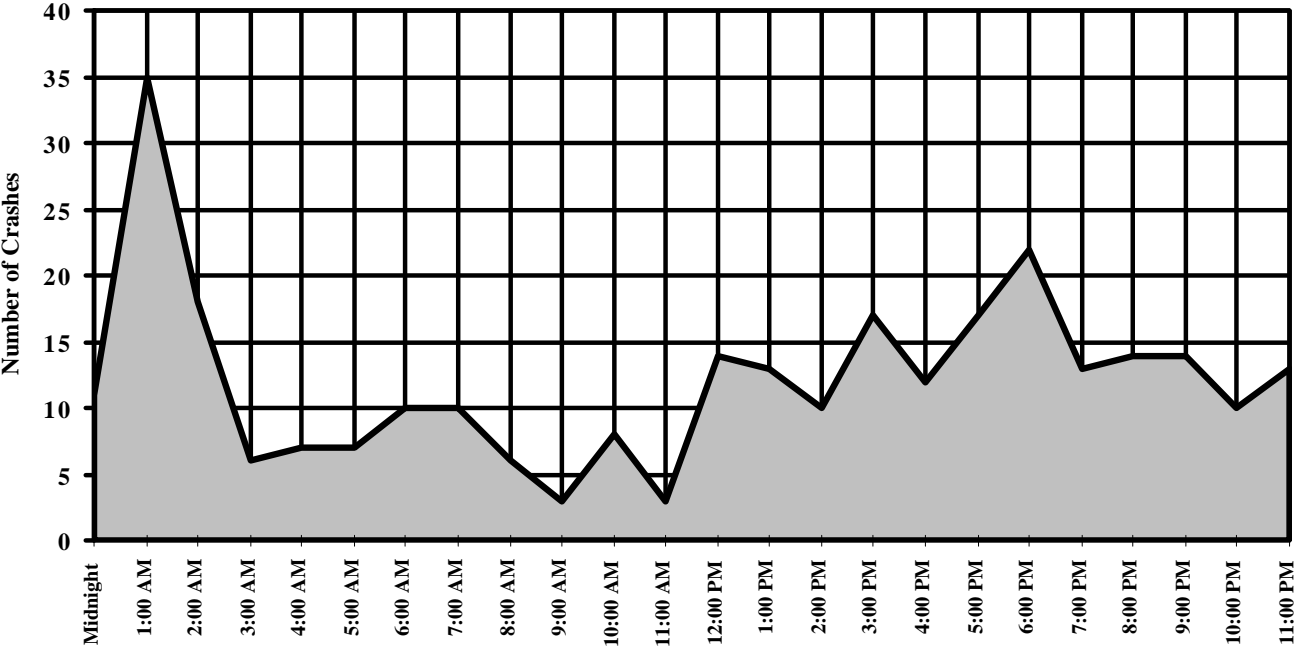
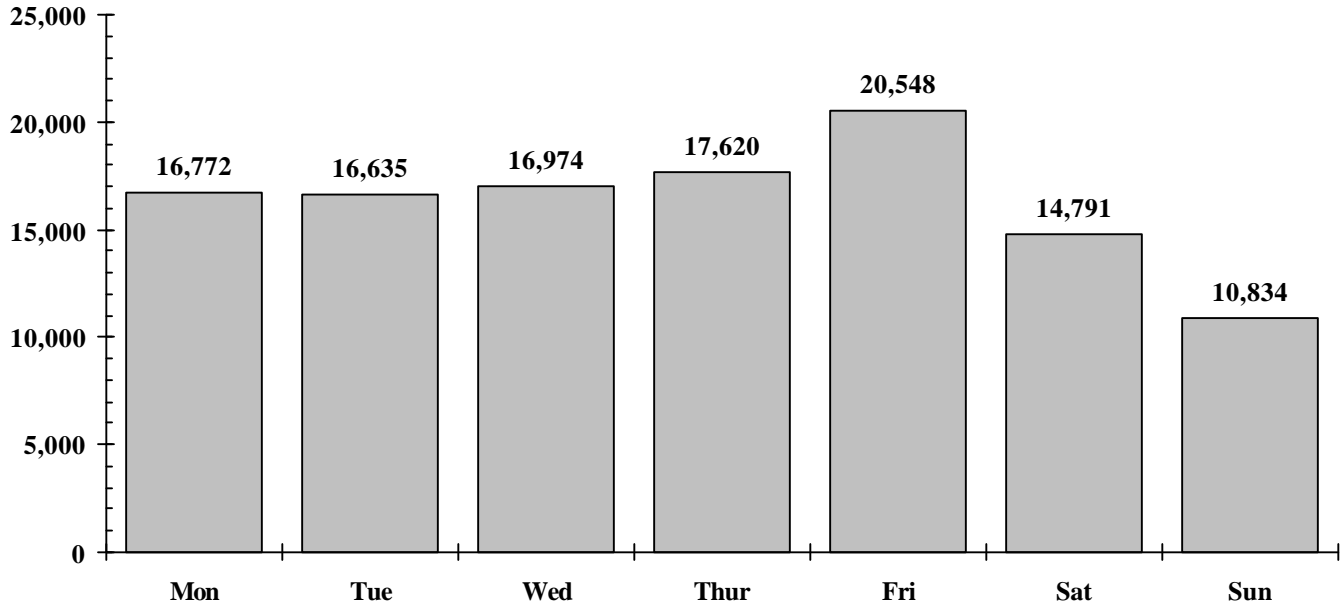


Figure 3-4
Fatal Crashes by Time of Day
Weekends

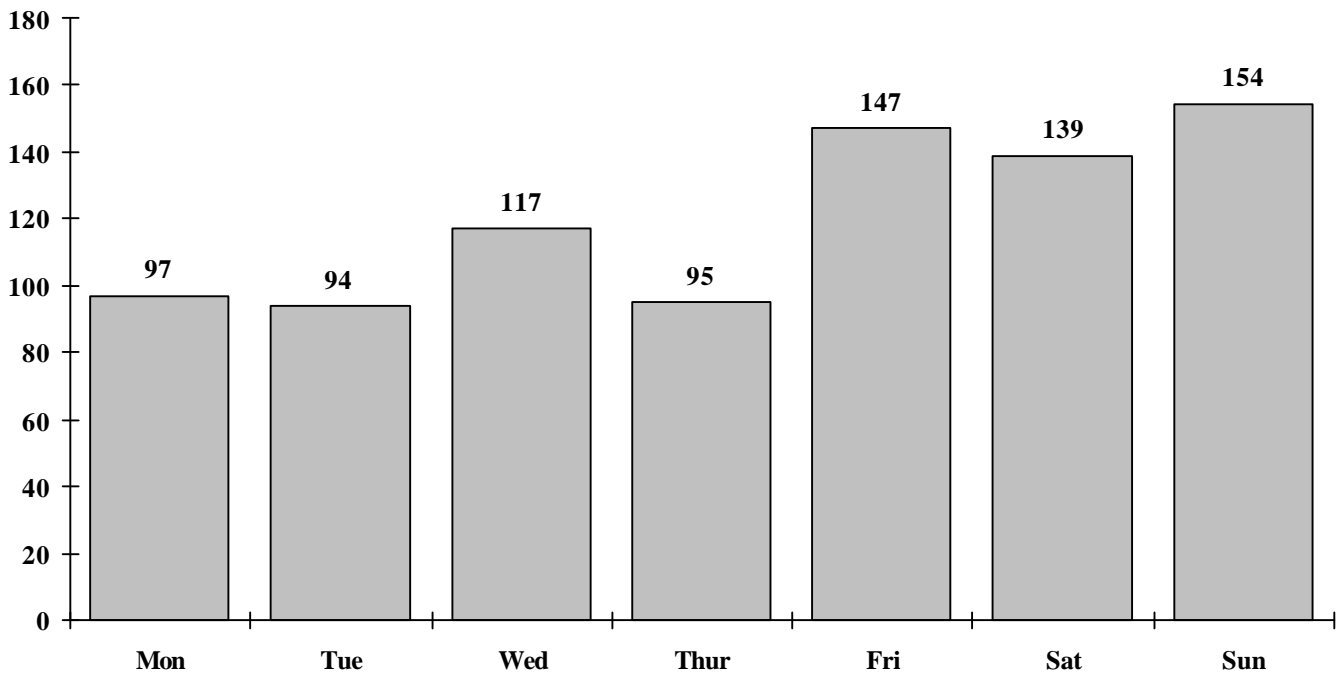


Section 3: Crash Descriptions

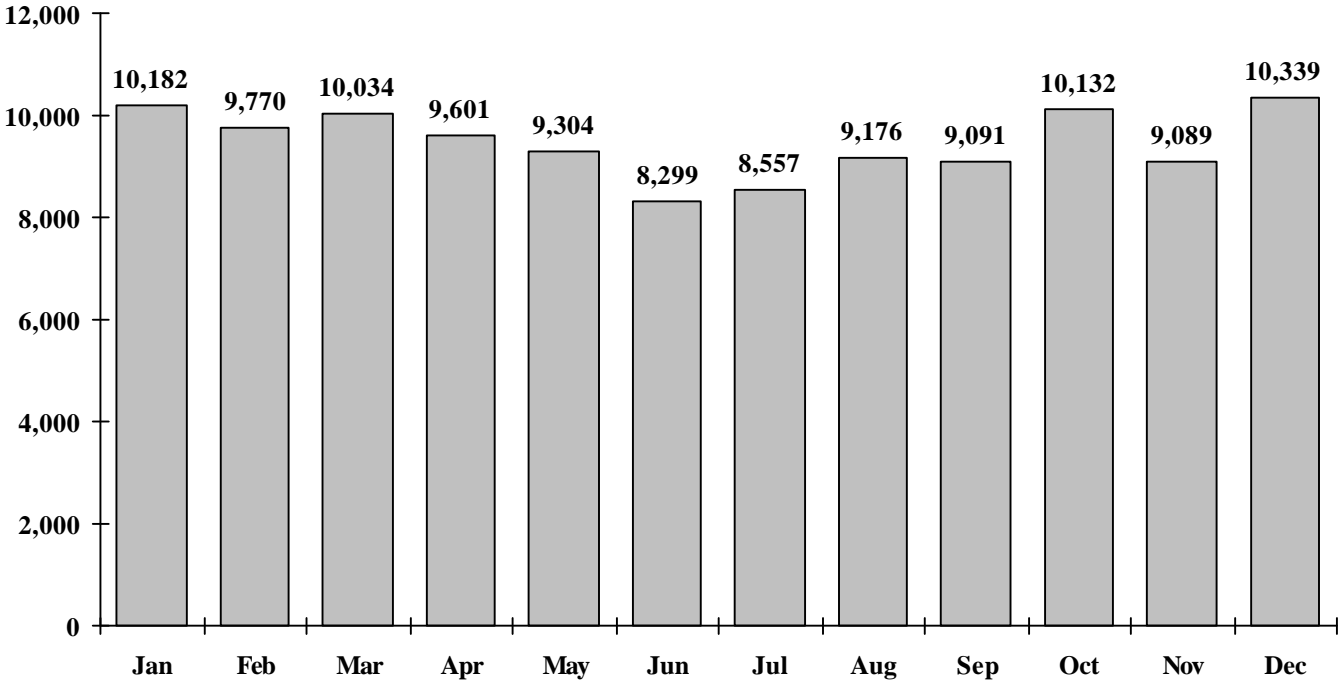
**Figure 3-5
Crashes by Day of Week**



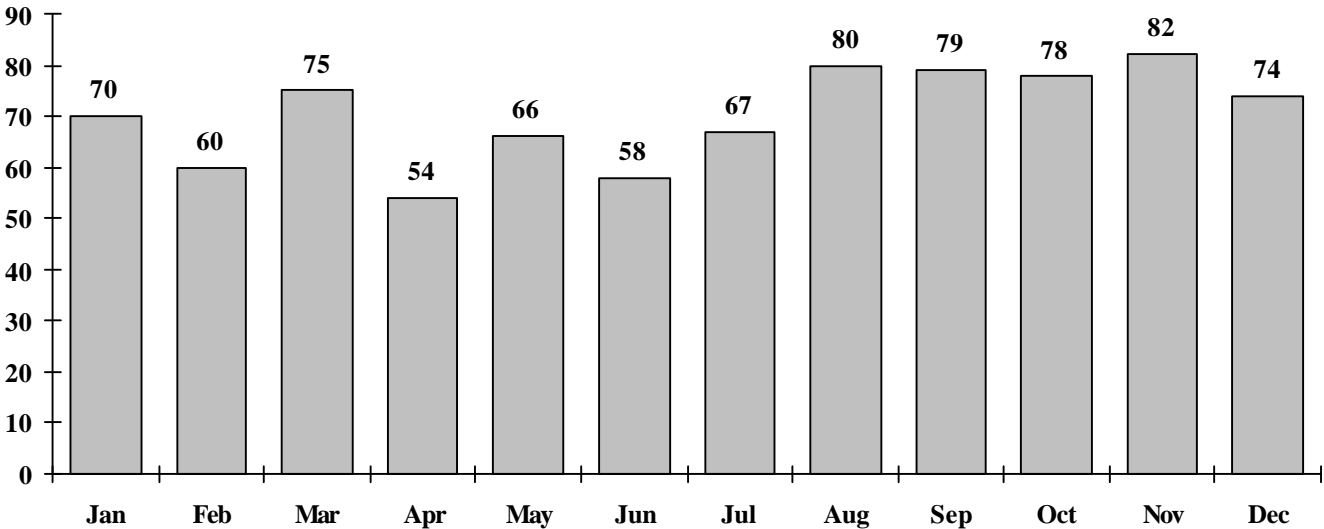
**Figure 3-6
Fatal Crashes by Day of Week**



**Figure 3-7
Crashes by Month**



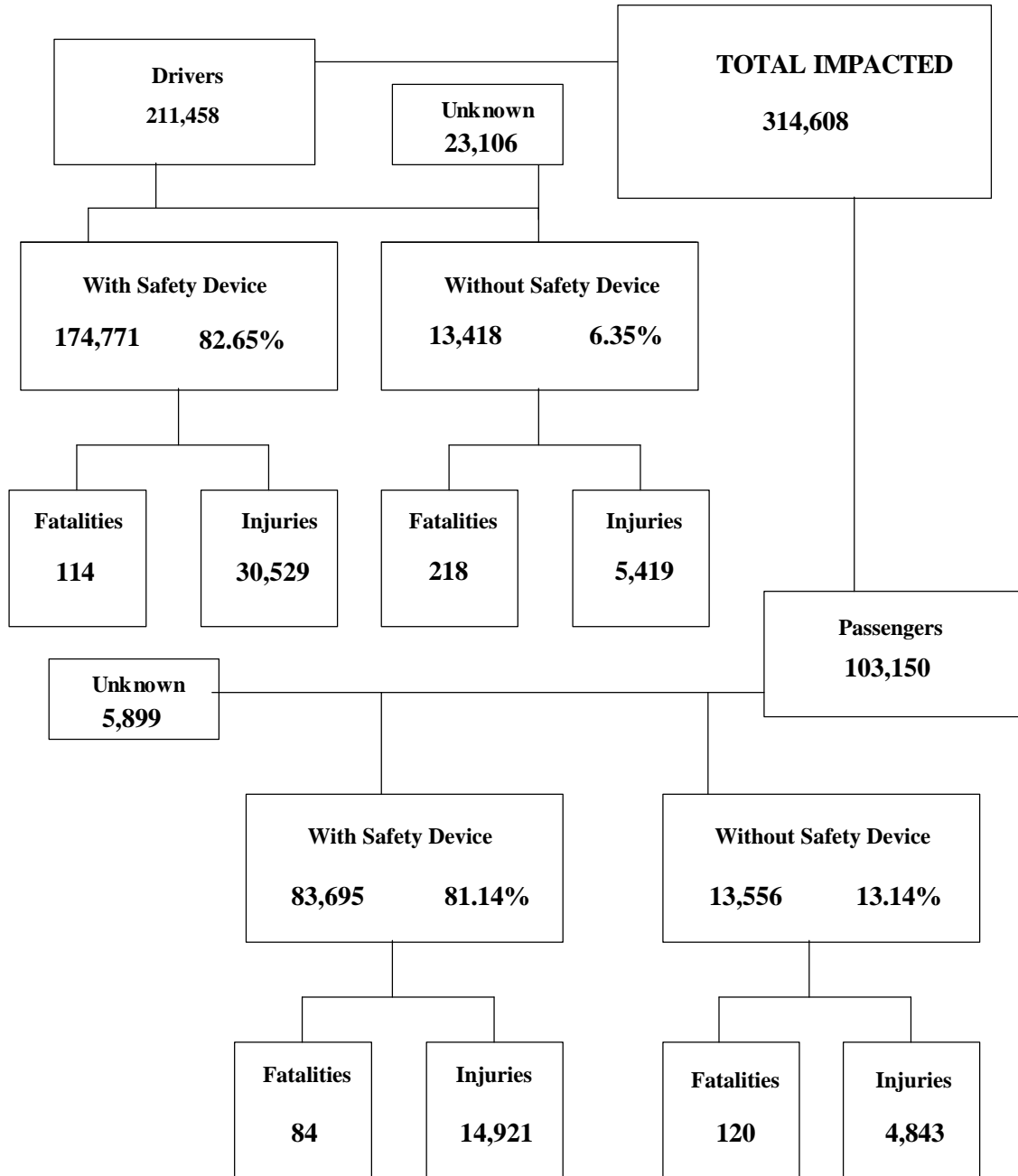
**Figure 3-8
Fatal Crashes by Month**



**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	1,648	27	177	2	118	3	167	5	178	0	183	6	412	6	413	5
1:00	1,903	54	172	5	133	2	158	5	210	3	247	4	502	14	481	21
2:00	1,051	33	94	4	77	2	90	4	108	1	118	4	274	7	290	11
3:00	787	16	81	3	74	1	75	1	86	1	79	4	196	2	196	4
4:00	779	15	85	2	86	1	83	1	94	2	95	2	170	4	166	3
5:00	1,349	19	223	5	199	1	194	2	194	3	199	1	179	0	161	7
6:00	2,887	25	527	3	527	4	488	6	491	0	453	2	237	3	164	7
7:00	6,352	32	1,138	4	1,114	2	1,223	3	1,192	8	1,102	5	350	5	233	5
8:00	5,548	25	991	2	1,031	7	960	6	936	1	898	3	461	4	271	2
9:00	4,271	17	666	3	689	5	666	1	692	3	681	2	562	1	315	2
10:00	4,940	21	800	4	712	4	690	1	711	2	773	2	758	5	496	3
11:00	6,080	25	933	4	853	6	938	4	948	5	1,020	3	888	3	500	0
Noon	7,465	43	1,101	5	1,090	6	1,120	4	1,116	5	1,332	9	1,001	6	705	8
1:00	7,059	43	1,016	5	1,018	3	1,042	7	1,040	8	1,303	7	975	9	665	4
2:00	8,358	32	1,276	6	1,291	1	1,168	6	1,342	4	1,637	5	1,007	6	637	4
3:00	9,751	42	1,546	8	1,465	3	1,486	7	1,616	2	1,840	5	1,045	9	753	8
4:00	10,088	49	1,514	4	1,533	8	1,565	9	1,698	4	2,046	12	972	4	760	8
5:00	10,497	48	1,659	5	1,662	5	1,753	8	1,741	7	1,887	6	944	7	851	10
6:00	7,128	67	985	11	1,063	10	1,078	9	1,077	7	1,283	8	911	7	731	15
7:00	4,512	42	568	3	587	5	579	3	646	6	839	12	747	9	546	4
8:00	3,502	42	395	3	453	3	446	5	490	7	658	10	593	7	467	7
9:00	3,262	41	365	1	374	6	431	7	423	6	666	7	585	8	418	6
10:00	2,794	45	264	1	275	2	315	6	351	8	672	18	560	4	357	6
11:00	2,163	40	196	4	211	4	259	7	240	2	537	10	462	9	258	4
Not Reported	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	114,174	843	16,772	97	16,635	94	16,974	117	17,620	95	20,548	147	14,791	139	10,834	154

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 parent, guardian or custodian of a child four or less years of age...shall properly secure that child 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	Unknown	Percent of Unknown
No injury	10,186	88.98%	786	71.26%	414	81.82%
Possible injury	799	6.98%	128	11.60%	31	6.13%
Injury	403	3.52%	176	15.96%	46	9.09%
Fatality	6	0.05%	10	0.91%	2	0.40%
Unknown	54	0.47%	3	0.27%	13	2.57%
Totals	11,448	100.00%	1,103	100.00%	506	100.00%

Children in rear-facing child seats should not be placed in the front seat of cars equipped with passenger-side air bags. The impact of a deploying air bag striking a rear-facing child could result in injury to the child. NHTSA recommends that children 12 and under sit in the rear seat away from the force of a deploying air bag.

Arizona law requires the use of seat belts.

A.R.S. Title 28-909 states "...each front seat occupant of a motor vehicle which is manufactured for the model year 1972 and thereafter...shall have the lap and shoulder belt properly adjusted and fastened while the vehicle is in motion, or if only a lap belt is installed where the occupant is sitting, have the lap belt properly adjusted and fastened while the vehicle is in motion."

**Table 4-2
Driver Restraint Usage**

Severity of Injury	Restraint in Use	Percent of Restraint Used	No Restraint Used	Percent of No Restraint	Unknown	Percent of Unknown
No injury	143,392	82.05%	7,584	56.52%	9,671	41.85%
Possible injury	20,413	11.68%	1,959	14.60%	1,367	5.92%
Injury	10,116	5.79%	3,460	25.79%	1,688	7.31%
Fatality	114	0.08%	218	1.62%	93	0.40%
Unknown	736	0.42%	197	1.14%	10,287	44.52%
Total	174,771	100.00%	13,418	100.00%	23,106	100.00%

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

In Arizona, 82.7% of all drivers involved in crashes in 1997 were reportedly wearing their safety belts. Of those drivers fatally injured, 34.3% were wearing seat belts.

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

Severity of Injury	Restraint in Use	Percent of Restraint Used	No Restraint Used	Percent of No Restraint	Unknown	Percent of Unknown
No injury	40,911	79.38%	3,856	56.97%	2,364	69.71%
Possible injury	6,832	13.26%	1,150	16.99%	412	12.15%
Injury	3,536	6.86%	1,643	24.27%	445	13.12%
Fatality	67	0.13%	73	1.08%	14	0.41%
Unknown	195	0.38%	47	0.69%	156	4.60%
Total	51,541	100.00%	6,769	100.00%	3,391	100.00%

Section 4: Safety Devices

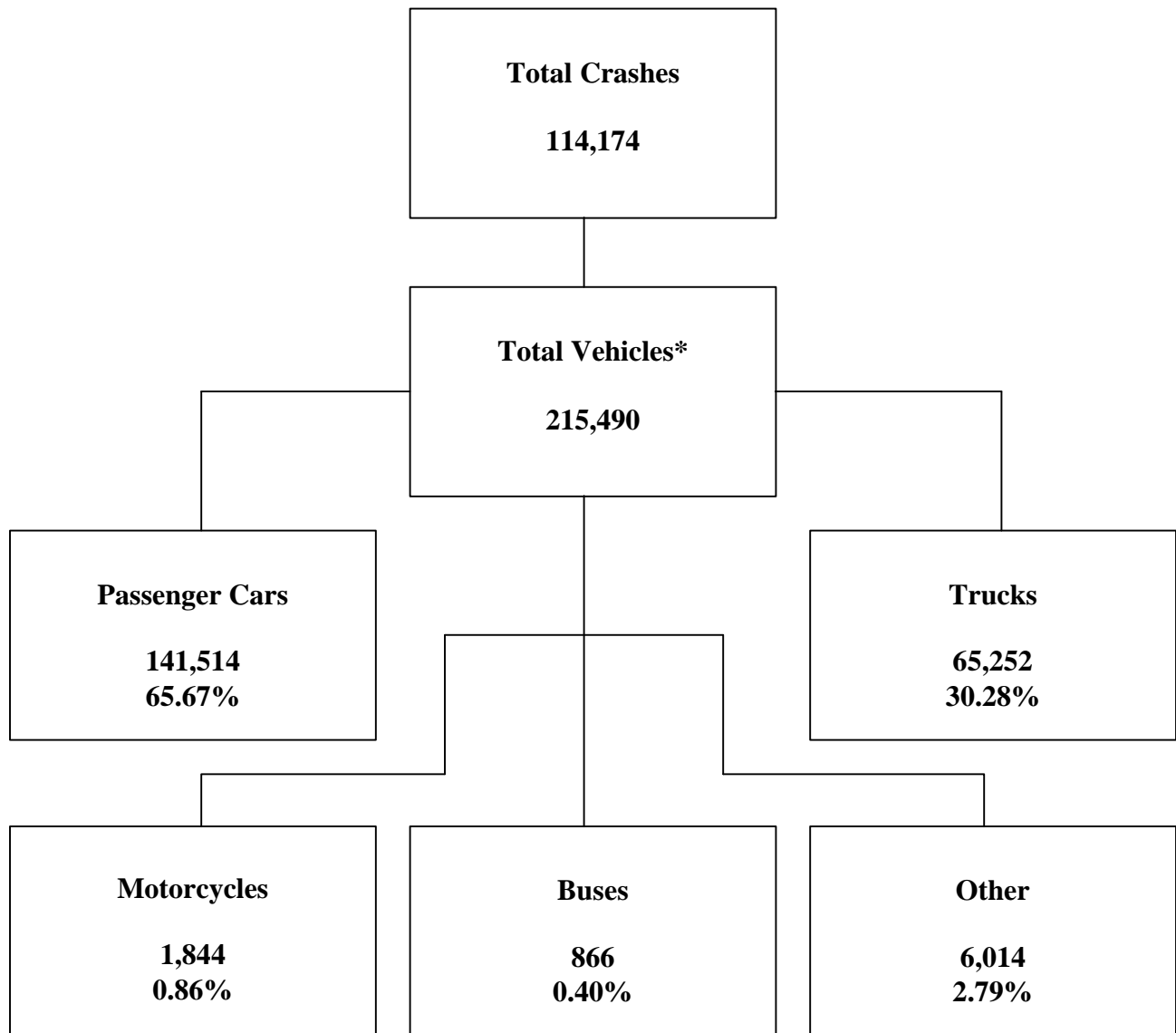
NHTSA estimates that nationwide, seatbelt usage is approximately 69%.

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

Severity of Injury	Restraint Used	Percent of Restraint Used	No Restraint Used	Percent of No Restraint	Unknown	Percent of Unknown
No injury	17,267	83.39%	3,868	68.05%	1,505	75.17%
Possible injury	2,236	10.80%	863	15.18%	224	11.19%
Injury	1,115	5.38%	883	15.53%	208	10.39%
Fatality	11	0.05%	37	0.65%	4	0.20%
Unknown	77	0.37%	33	0.58%	61	3.05%
Total	20,706	100.00%	5,684	100.00%	2,002	100.00%

Across the nation, 10,750 lives were saved in 1997 by the use of safety belts.

Section 5: Motor Vehicle and Driver Characteristics



*Includes driverless or illegally parked

Section 5: Motor Vehicle and Driver Characteristics

**Table 5-1
Arizona Motor Vehicle Registrations**

Privately Owned Vehicles	3,043,605
Commercial Vehicles	289,256
Buses and Taxis	2,529
Motorcycles	57,531
Mopeds	249
Total	3,393,170

*Total does not include duplicate registrations. Data provided by, and inquiries should be directed to, Motor Vehicles Division.

**Table 5-2
Motor Vehicle Accident Involvement by Vehicle Type**

Motor Vehicle Type	Total	Percent	Fatal	Injury	PDOs
Passenger Car	141,514	65.67%	676	54,804	86,034
Passenger Car and Trailer	261	0.12%	3	77	181
Pickup Truck (Incl. Panel & Mini Bus)	57,910	26.87%	136	20,666	36,928
Pickup Truck With Camper	820	0.38%	27	295	498
Other Vehicle With Camper	2	0%	0	0	2
Truck or Truck Tractor (Excl. P/U)	19	0.01%	1	5	13
Truck Tractor and Semi-Trailer	3,135	1.45%	53	817	2,265
Other Truck Combination	3,368	1.56%	21	1,033	2,314
Farm Tractor and/or Farm Equipment	37	0.02%	0	11	26
Taxicab	94	0.04%	3	39	52
Bus	533	0.25%	2	177	354
School Bus	333	0.15%	2	88	243
Motorcycle	1,844	0.86%	61	1,510	273
Motor Scooter or Motor Bicycle	10	0.01%	1	7	2
Moped	11	0.01%	0	9	2
Recreational Vehicle	1,328	0.67%	1	495	832
Motor Home or House Car	363	0.17%	3	89	271
Vehicle With Special Controls (Dual, Etc.)	12	0.01%	0	7	5
Emergency Veh. (Inc. Privately Owned)	116	0.05%	2	43	71
Military Vehicles	0	0%	0	0	0
Other Types Of Vehicles	153	0.07%	3	60	90
Vehicle Type Unknown	3,627	1.68%	96	772	2,759
TOTALS	215,490	100.00%	1,271	81,004	133,215

**Table 5-3
Hit and Run Drivers**

Hit And Run?	Number of Crashes				Number of Persons	
	Total	Fatal	Injury	PDOs	Killed	Injured
Yes	11,389	7	2,853	8,529	7	4,057
No	102,785	836	38,949	63,000	742	64,240
TOTALS	114,174	843	41,802	71,529	949	68,297

Table 5-4
Gender of Drivers Involved in Crashes

Gender of Driver	Total		Fatal		Injury	
	Total	Percent	Fatal	Percent	Injury	Percent
Male	127,550	59.19%	859	67.58%	47,240	58.32%
Female	80,340	37.28%	327	25.73%	32,312	39.89%
Not Reported	7,600	3.53%	85	6.69%	1,452	1.79%
TOTALS	215,490	100.00%	1,271	100.00%	81,004	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	177,618	82.43%	1,021	80.33%	68,197	84.19%	108,400	81.37%
Non-Resident	18,684	8.67%	147	11.57%	6,826	8.43%	11,711	8.79%
Not Reported	19,188	8.90%	103	8.10%	5,981	7.38%	13,104	9.84%
TOTALS	215,490	100.00%	1,271	100.00%	81,004	100.00%	133,215	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	260	29,793	179	16,486
Passenger Car and Trailer	0	41	1	50
Pickup Truck (Incl. Panel & Mini Bus)	106	9,154	60	5,333
Pickup Truck With Camper	11	165	7	117
Other Vehicle With Camper	0	0	0	0
Truck or Truck Tractor (Excl. P/U)	0	3	0	0
Truck Tractor and Semi-Trailer	6	228	0	69
Other Truck Combination	1	331	1	148
Farm Tractor and/or Farm Equipment	0	2	0	0
Taxicab	0	24	0	10
Bus	0	32	0	197
School Bus	0	22	0	101
Motorcycle	51	1,464	9	172
Motor Scooter or Motor Bicycle	1	6	0	1
Moped	0	9	0	2
Recreational Vehicle	1	251	0	143
Motor Home or House Car	0	31	0	28
Vehicle With Special Controls (Dual, Etc.)	0	2	0	0
Emergency Veh. (Inc. Privately Owned)	0	27	1	16
Military Vehicles	0	0	0	0
Other Types Of Vehicles	1	45	2	10
Vehicle Type Unknown	39	55	28	38
TOTALS	477	41,685	288	22,921

Section 5: Motor Vehicle and Driver Characteristics

**Table 5-7
Licensed Drivers in Arizona by Age**

Driver Age Group	Male		Female		Total		Cumulative	
	Number	Percent	Number	Percent	Number	Percent	Percent	Percent
15	3,518	0.21%	3,249	0.21%	6,767	0.21%	.21%	
16	25,886	1.58%	24,229	1.56%	50,115	1.57%	1.78%	
17	34,467	2.10%	32,112	2.07%	66,579	2.09%	3.87%	
18	36,870	2.25%	34,692	2.24%	71,562	2.25%	6.12%	
19	37,016	2.26%	34,685	2.24%	71,701	2.25%	8.37%	
20	37,029	2.26%	35,012	2.26%	72,041	2.26%	10.63%	
21	35,012	2.14%	32,559	2.10%	67,571	2.12%	12.75%	
22	31,602	1.93%	28,639	1.85%	60,241	1.89%	14.64%	
23	30,912	1.89%	27,389	1.77%	58,301	1.83%	16.47%	
24	27,083	1.65%	23,972	1.55%	51,055	1.60%	18.07%	
25-34	307,763	18.78%	274,753	17.74%	582,516	18.28%	36.35%	
35-44	345,535	21.09%	324,361	20.95%	669,896	21.02%	57.37%	
45-54	281,758	17.20%	263,521	17.02%	545,279	17.11%	74.48%	
55-64	177,623	10.84%	173,165	11.18%	350,788	11.01%	85.49%	
65-74	138,750	8.47%	141,179	9.12%	279,929	8.78%	94.27%	
75 & Older	87,696	5.35%	95,113	6.14%	182,809	5.74%	100.00%	
TOTALS	1,638,520	100.00%	1,548,630	100.00%	3,187,150	100.00%	100.00%	

**Table 5-8
Driver Involvement by Age**

Driver Age Group	Total		Fatal		Injury		PDOs	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
15 & Younger	780	0.36%	0	0%	347	0.43%	433	0.33%
16	5,139	2.38%	20	1.57%	1,944	2.40%	3,175	2.38%
17	6,052	2.81%	28	2.20%	2,310	2.85%	3,714	2.79%
18	7,060	3.28%	40	3.15%	2,749	3.39%	4,271	3.21%
19	6,756	3.14%	28	2.20%	2,675	3.30%	4,053	3.04%
20	6,229	2.89%	39	3.07%	2,414	2.98%	3,776	2.83%
21	6,006	2.79%	36	2.83%	2,323	2.87%	3,647	2.74%
22	5,927	2.75%	44	3.46%	2,279	2.81%	3,604	2.71%
23	5,574	2.59%	27	2.12%	2,154	2.66%	3,393	2.55%
24	5,484	2.54%	31	2.44%	2,179	2.69%	3,274	2.46%
25-34	49,420	22.93%	260	20.46%	19,067	23.54%	30,093	22.59%
35-44	40,832	18.95%	216	16.99%	15,729	19.42%	24,887	18.68%
45-54	26,515	12.30%	161	12.67%	9,951	12.28%	16,403	12.31%
55-64	14,348	6.66%	100	7.87%	5,478	6.76%	8,770	6.58%
65-74	9,952	4.62%	80	6.29%	3,832	4.73%	6,040	4.53%
*75 & Older	8,000	8.99%	161	12.67%	5,554	6.86%	13,655	10.25%
Not Reported	11,416	0.02%	0	0%	19	0%	27	0%
TOTALS	215,490	100.00%	1,271	100.00%	81,004	100.00%	133,215	100.00%

* See note on page I

**Table 5-9
Driver Errors**

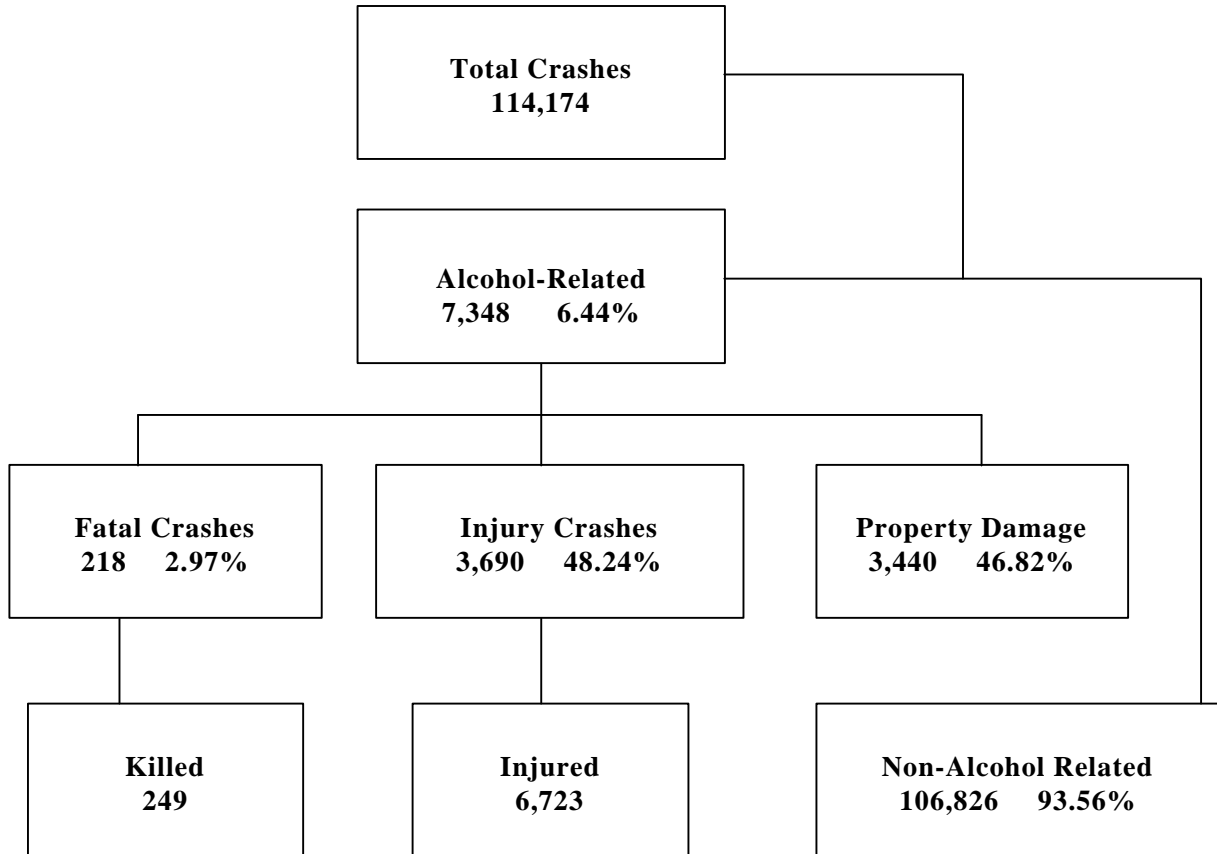
Contributing Circumstances	Total Drivers	Percent of Total Drivers	Fatal Drivers	Percent of Fatal Drivers	Injury Drivers	Percent of Injury Drivers	PDO Drivers	Percent of PDO Drivers
Exceeded Lawful Speed	925	0.43%	37	2.91%	421	0.52%	467	0.35%
Speeding *	37,730	17.51%	168	13.22%	14,185	17.51%	23,377	17.55%
Failed to Yield	24,517	11.38%	88	6.92%	10,220	12.62%	14,209	10.67%
Ran Stop Sign	1,310	0.61%	14	1.10%	603	0.74%	693	0.52%
Disregarded Signal	4,700	2.18%	20	1.57%	2,473	3.05%	2,207	1.66%
Opposing Lane	975	0.45%	36	2.83%	377	0.47%	562	0.42%
Followed too Closely	3,382	1.57%	0	0%	1,042	1.29%	2,340	1.76%
Improper Turn	3,398	1.58%	1	0.08%	842	1.04%	2,555	1.92%
Driver Inattention	62	0.03%	1	0.08%	24	0.03%	37	0.03%
Had Been Drinking	7,454	3.46%	224	17.62%	3,759	4.64%	3,471	2.61%
Other Improper Driving	5,749	2.67%	48	3.78%	1,601	1.98%	4,100	3.08%
Inadequate Brakes	239	0.11%	2	0.16%	76	0.09%	161	0.12%
Defective Tires	556	0.26%	2	0.16%	181	0.22%	373	0.28%
Other Mech. Defects	1,122	0.52%	4	0.32%	227	0.28%	891	0.67%
Other Non-driving Error	560	0.26%	7	0.55%	243	0.30%	310	0.23%
No Improper Driving	96,106	44.60%	409	32.18%	37,701	46.54%	57,996	43.54%
Not stated	26,705	12.39%	210	16.52%	7,029	8.68%	19,466	14.61%
TOTALS	215,490	100.0%	1,271	100.0%	81,004	100.0%	133,215	100.0%

* 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 Defects	188,403	87.43%	677	53.27%	71,199	87.90%	116,527	87.47%
Impaired Had Been Drinking	7,454	3.46%	224	17.62%	3,759	4.64%	3,471	2.61%
Other Bodily Defects	524	0.24%	6	0.47%	232	0.29%	286	0.21%
Ill, Ability Influenced	364	0.17%	2	0.16%	198	0.24%	164	0.12%
Sleepy, Fatigued	1,553	0.72%	39	3.07%	764	0.94%	750	0.56%
Under Influence Of Narcotic Drug	335	0.16%	12	0.94%	169	0.21%	154	0.12%
Not Reported	16,857	7.82%	311	24.47%	4,683	5.78%	11,863	8.91%
TOTALS	215,490	100.0%	1,271	100.0%	81,004	100.0%	133,215	100.0%

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 0.1% or higher) at the time the crash took place.

Economic Loss due to Alcohol-Related Crashes in Arizona for 1997	
Fatalities	\$244,020,000.
Injuries	115,332,400.
Property Damage	22,016,000.
Total	\$381,368,400.

Table 6-1
1992 to 1997 - Alcohol-Related Crashes

Year	Alcohol-Related Crashes	Percent of all Crashes	Victims Killed	Percent of all Fatalities
1992	7,513	8.36%	262	32.39%
1993	7,698	7.86%	258	32.21%
1994	7,620	7.14%	242	26.71%
1995	7,947	6.98%	261	25.17%
1996	7,748	6.86%	272	27.34%
1997	7,348	6.44%	249	26.24%

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	3,174	43.20%	128	58.72%	1,469	39.81%
Head On	136	1.85%	34	15.60%	75	2.03%
Rear End	1,683	22.90%	7	3.21%	887	24.04%
Sideswipe Opposite Direction	138	1.88%	6	2.75%	61	1.65%
Sideswipe Same Direction	366	4.98%	4	1.83%	142	3.85%
Left Turn	596	8.11%	8	3.67%	374	10.14%
Other Angle	968	13.13%	24	11.01%	560	15.18%
Backing Into	58	0.79%	0	0%	12	0.33%
U Turn	60	0.82%	1	0.46%	30	0.81%
Other	169	2.30%	6	2.75%	80	2.17%
TOTALS	7,348	100.00%	218	100.00%	3,690	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	377	42	245	90	48	413
Other Non - Collision	95	5	59	31	6	75
Pedestrian	72	17	55	0	17	70
Motor Veh. In Transit	4,066	79	2,165	1,822	98	4,539
Motor Veh. Other Roadway	5	5	0	0	5	24
Parked Motor Veh.	470	1	129	340	2	158
Railway Train	2	0	2	0	0	2
Pedalcyclist	32	5	27	0	5	27
Animal	8	0	6	2	0	12
Fixed Object	2,202	61	994	1,147	65	1,394
Other Object	19	3	8	8	3	9
TOTALS	7,348	7,348	3,690	3,440	249	6,723

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	4,792	64.29%	124	2,394	2,274
Passenger Car and Trailer	5	0.07%	0	2	3
Pickup Truck (Incl. Panel & Mini Bus)	2,326	31.20%	76	1,145	1,105
Truck or Truck Tractor (Excl. P/U)	1	0.01%	0	0	1
Truck Tractor and Semi-Trailer	10	0.13%	1	3	6
Other Truck Combination	62	0.83%	0	36	26
Farm Tractor and/or Farm Equipment	1	0.01%	0	0	1
Taxicab	1	0.01%	0	1	0
Bus	0	0%	0	0	0
School Bus	2	0.03%	0	1	1
Motorcycle	149	2.00%	14	124	11
Motor Scooter or Motor Bicycle	3	0.04%	0	3	0
Other Special Vehicles	67	0.90%	1	40	26
Vehicle Type Not Reported	35	0.47%	8	10	17
TOTALS	7,454	100.0%	224	3,759	3,471

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

Light Condition	Number of Crashes			
	Total	Fatal	Injury	PDO
Daylight	2,084	57	1,077	950
Dawn or Dusk	317	10	163	144
Darkness	4,943	151	2,448	2,344
Not Reported	4	0	2	2
TOTALS	7,348	218	3,690	3,440

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

	Number of Crashes			
	Total	Fatal	Injury	PDO
Dry	6,679	202	3,379	3,098
Wet	465	9	223	233
Snowy or Icy	34	0	12	22
Other	170	7	76	87
TOTALS	7,348	218	3,690	3,440

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	16	0.21%	0	0%	9	0.24%
16	50	0.67%	1	0.45%	23	0.61%
17	102	1.37%	7	3.13%	46	1.22%
18	191	2.56%	12	5.36%	99	2.63%
19	216	2.90%	7	3.13%	116	3.09%
20	228	3.06%	7	3.13%	118	3.14%
21	337	4.52%	10	4.46%	156	4.15%
22	296	3.97%	15	6.70%	133	3.54%
23	302	4.05%	8	3.57%	161	4.28%
24	233	3.13%	8	3.57%	155	4.12%
25-34	2,205	59.58%	63	28.13%	1,126	29.95%
35-44	1,787	23.97%	47	20.98%	932	24.79%
45-54	808	10.84%	20	8.93%	409	10.88%
55-64	295	3.96%	9	4.02%	154	4.10%
65-74	151	2.03%	1	0.45%	75	2.00%
*75 & Older	237	3.18%	9	4.02%	87	2.31%
TOTALS	7,454	100.00%	224	100.00%	3,759	100.00%

* See note on page i

The National Highway Traffic Safety Administration estimates that 39% of all fatal U.S. crashes involved alcohol. According to State records, alcohol was involved in 25.9% of the fatal crashes in Arizona during 1997.

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	6,127	82.20	182	81.25	3,084	82.04%
Female	1,264	16.96	37	16.52	656	17.45%
Not Reported	63	0.84	5	2.23	19	0.51%
TOTALS	7,454	100.00%	224	100.00%	3,759	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	2,554	339	382	127	17
No restraint Used	752	244	448	341	79
Restraint Use Unknown	1,171	168	208	146	11
TOTALS	4,477	751	1,038	614	107

According to the NHTSA, about 3 in every 10 Americans will be involved in an alcohol-related crash as some tiome in their lives.

**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	2	1	1	129	59	70
5 - 9	1	0	1	190	95	95	0
10 - 14	3	1	2	177	82	95	0
15 - 19	28	20	8	875	538	337	0
20 - 24	53	41	12	1,215	844	370	1
25 - 34	59	51	8	1,635	1,107	528	0
35 - 44	48	32	16	1,270	770	500	0
45 - 54	26	19	7	654	395	259	0
55 - 64	12	7	5	268	163	105	0
65 - 74	9	6	3	129	84	45	0
*75 & Older	8	5	3	99	62	32	5
Not Reported	0	0	0	82	52	24	6
TOTALS	249	183	66	6,723	4,251	2,460	12

* See note on page i

Table 6-11
When Alcohol-Related Crashes Occurred in 1997

	Total	Weekday**	Weekend
Daytime***	1,979	1,207	772
Nighttime	5,369	2,070	3,299
Total	7,348	3,277	4,071

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

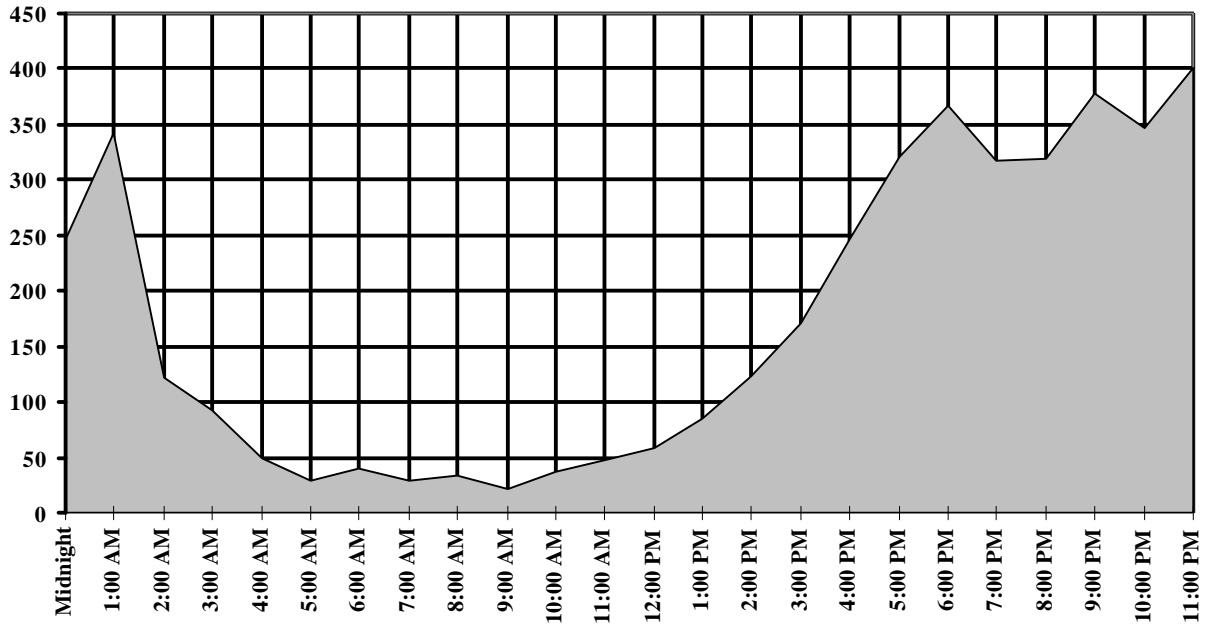
Table 6-12
Pedestrian vs. Vehicle Action in Alcohol-Related Crashes*

Pedestrian Action	Totals	Vehicle Action				
		Straight	Right Turn	Left Turn	U-Turn	Others
Crossing at Intersection or Crosswalk	6	4	1	1	0	0
Crossing not at Intersection or Crosswalk	21	21	0	0	0	0
Walking in Roadway with Traffic	2	1	0	0	0	1
Walking in Roadway against Traffic	1	0	0	0	0	1
Standing In Roadway	16	9	0	0	0	7
Pushing or Working on Vehicle in Roadway	4	1	0	0	0	3
Other Working in Roadway	1	1	0	0	0	0
Playing in Roadway	0	0	0	0	0	0
Other in Roadway	20	16	0	0	0	4
Not in Roadway	17	11	1	1	0	4
Not Reported	0	0	0	0	0	0
TOTALS	88	64	2	2	0	20

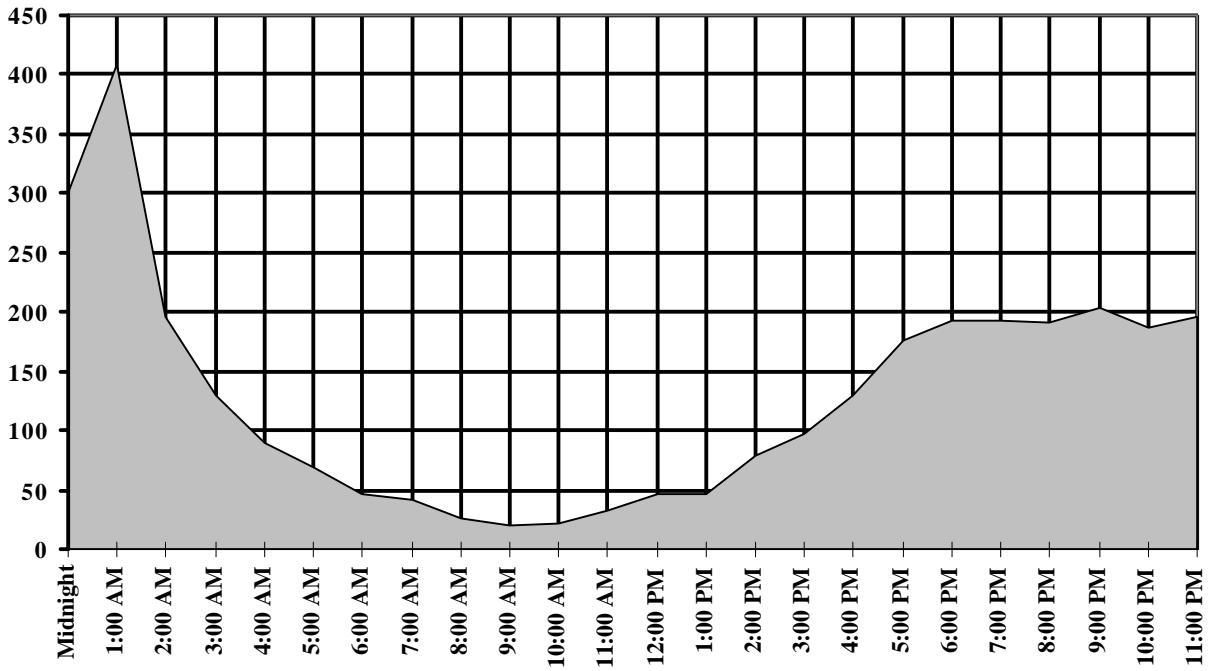
*in this table, alcohol-related refers to vehicle driver only

Section 6: Alcohol-Related Crashes

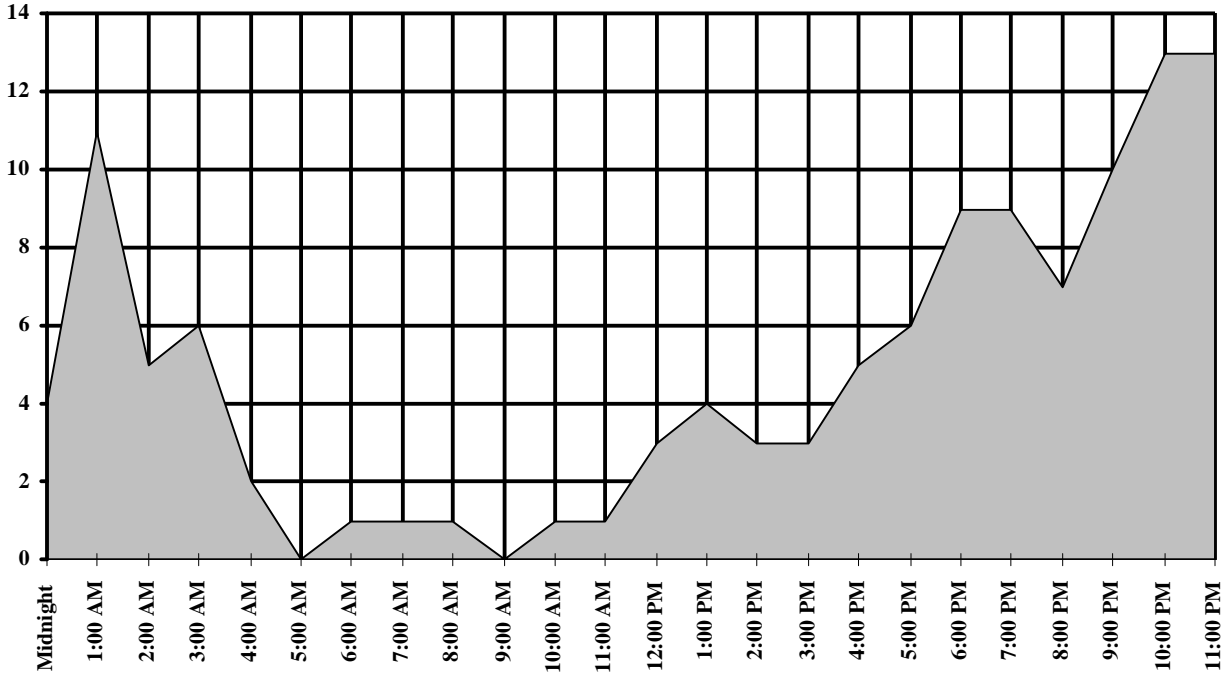
Figures 6-1 and 6-2
Alcohol-Related Crashes
Weekdays



Weekends



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



Weekends

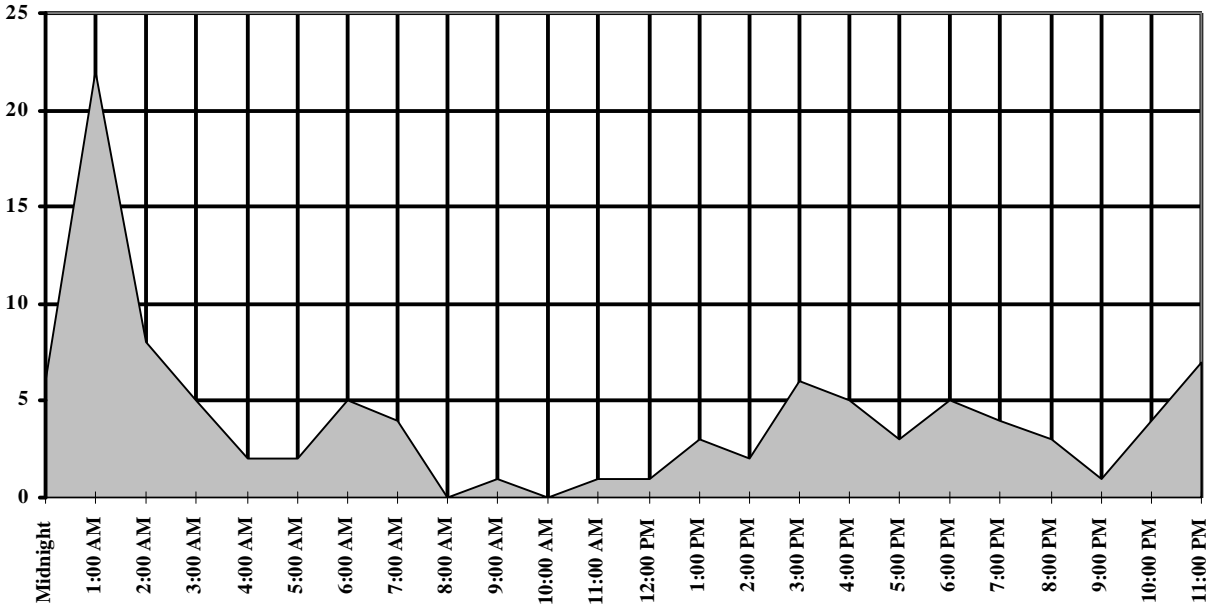
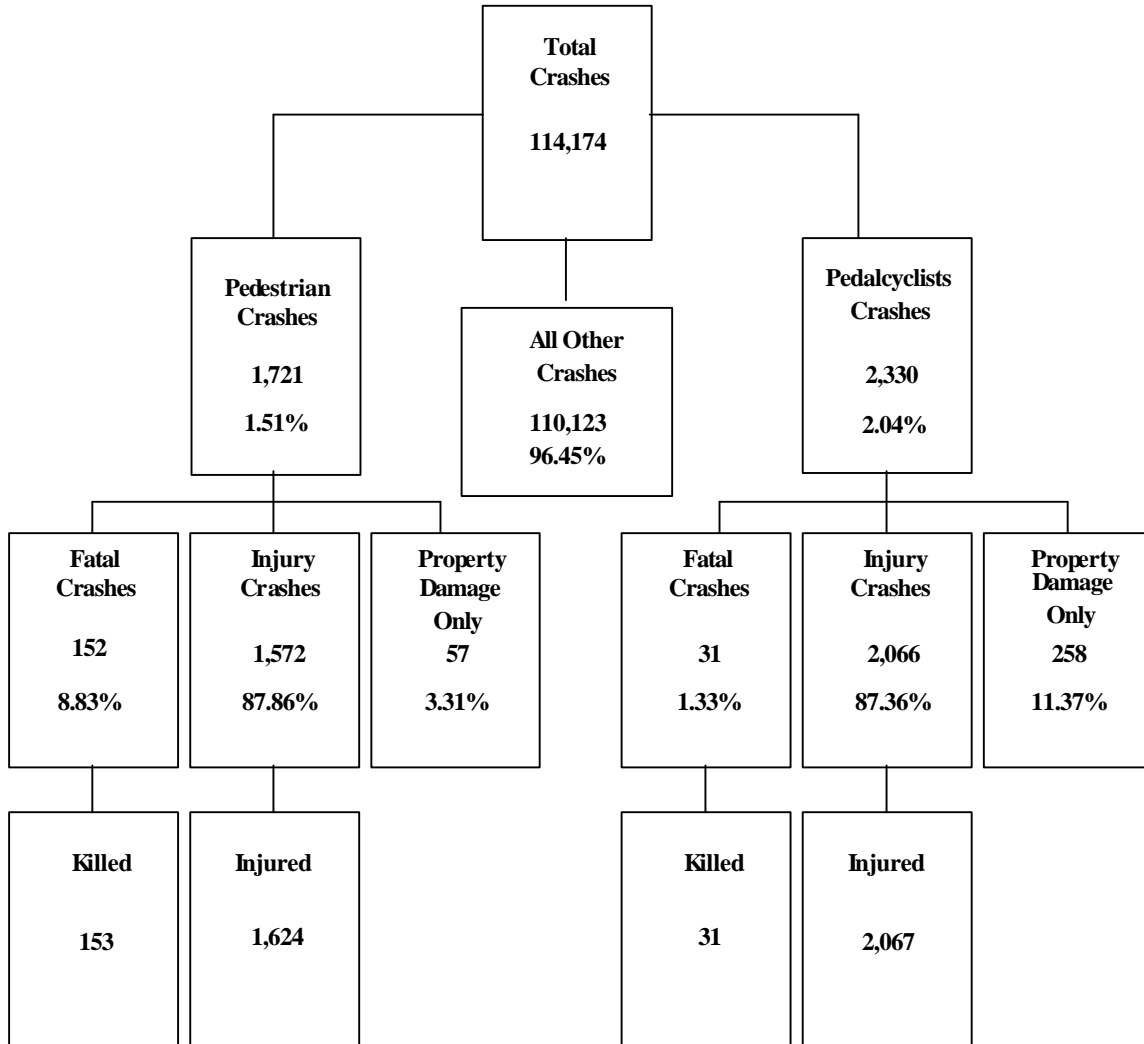


Table 6-13
Alcohol-Related Crashes
Injury Severity by Hour and Day of Week

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	548	10	46	2	28	0	46	2	63	0	64	0	140	3	161	3
1:00	750	33	58	3	37	0	59	2	83	3	105	3	218	8	190	14
2:00	318	13	19	2	16	1	22	0	26	0	39	2	105	3	91	5
3:00	222	11	19	2	17	0	15	0	20	1	22	3	70	2	59	3
4:00	140	4	5	0	9	0	8	1	11	1	17	0	50	2	40	0
5:00	100	2	7	0	2	0	7	0	7	0	7	0	33	0	37	2
6:00	86	6	6	0	6	0	4	1	7	0	17	0	16	1	30	4
7:00	72	5	3	1	6	0	8	0	8	0	5	0	20	1	22	3
8:00	60	1	11	1	3	0	6	0	8	0	6	0	17	0	9	0
9:00	41	1	3	0	3	0	7	0	3	0	5	0	10	1	10	0
10:00	59	1	10	1	6	0	5	0	6	0	10	0	10	0	12	0
11:00	80	2	11	0	9	1	7	0	7	0	14	0	21	1	11	0
Noon	106	4	17	0	8	0	6	1	12	0	16	2	26	1	21	0
1:00	132	7	20	0	17	0	21	2	13	0	14	2	26	3	21	0
2:00	203	5	22	2	28	0	16	1	24	0	34	0	51	1	28	1
3:00	268	9	30	1	30	0	38	1	33	0	40	1	55	3	42	3
4:00	377	10	47	2	49	1	38	0	56	0	57	2	69	2	61	3
5:00	495	9	43	1	64	1	56	1	58	0	99	3	94	2	81	1
6:00	560	14	63	2	60	1	78	2	54	2	112	2	104	1	89	4
7:00	510	13	42	1	49	1	50	0	60	3	117	4	115	3	77	1
8:00	510	10	42	1	50	3	58	0	67	1	102	2	108	1	83	2
9:00	581	11	58	0	56	2	57	2	78	3	128	3	126	1	78	0
10:00	533	17	38	0	38	1	50	2	69	4	152	6	121	0	65	4
11:00	597	20	43	2	51	1	69	2	62	0	176	8	132	5	64	2
Not Reported	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	7,348	218	663	24	642	13	731	20	835	18	1,358	43	1,737	45	1,382	55

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	4	2	2	82	46	36	0
5-9	7	4	3	168	110	58	0
10-14	5	4	1	183	109	74	0
15-19	5	4	1	202	116	86	0
20-24	5	4	1	117	73	44	0
25-34	34	26	8	229	152	77	0
35-44	30	24	6	232	153	78	1
45-54	25	18	7	150	106	44	0
55-64	14	13	1	66	42	24	0
65-74	13	11	2	65	35	30	0
*75 & Older	11	7	4	126	76	48	2
Not Reported	0	0	0	4	2	2	0
Total	153	117	36	1,624	1,020	601	3

* See note on page i

Nationally, on average, a pedestrian is killed in a motor vehicle crash every 99 minutes, and one is injured every 7 minutes.

**Table 7-2
Pedestrian Crashes**

Statewide	Total	Urban	Rural
Number of Crashes	1,721	1,504	217
Persons Killed	153	104	49
Persons Injured	1,624	1,447	177
Property Damage Only	57	50	7

**Table 7-3
Pedestrian Crash History**

Year	Number of Pedestrians	
	Fatal	Injury
1988	164	1,459
1989	130	1,332
1990	137	1,444
1991	121	1,369
1992	141	1,420
1993	140	1,445
1994	151	1,593
1995	179	1,634
1996	165	1,621
1997	153	1,624

Across the U.S., 77,000 pedestrians were injured and 5,307 were killed in traffic crashes, representing 2 percent of all the people injured and 13 percent of all traffic fatalities.

**Table 7-4
Pedestrians Killed**

Pedestrian Action	Total	Age Group								Not Reported
		0-4	5-9	10-14	15-19	20-24	25-44	45-64	65 & Older	
Crossing At Intersection Or Crosswalk	12	0	1	0	1	0	4	5	1	0
Crossing Other Than Crosswalk	70	3	4	3	1	3	28	15	13	0
Walking In Roadway With Traffic	7	0	0	0	0	0	4	3	0	0
Walking In Roadway Against Traffic	3	0	0	0	1	0	0	1	1	0
Standing In Roadway	6	0	0	0	0	1	2	2	1	0
Pushing or Working On Veh. In Roadway	0	0	0	0	0	0	0	0	0	0
Other Working In Roadway	1	0	0	0	0	0	0	1	0	0
Playing In Roadway	0	0	0	0	0	0	0	0	0	0
Lying In Roadway	5	0	0	1	0	0	4	0	0	0
Getting On or Off Veh. In Roadway	0	0	0	0	0	0	0	0	0	0
Other In Actions In Roadway	13	0	0	1	1	1	5	3	2	0
Not In Roadway	12	1	0	0	1	0	5	4	1	0
Not Reported	24	0	2	0	0	0	12	5	5	0
TOTALS	153	4	7	5	5	5	64	39	24	0

**Table 7-5
Pedestrians Injured**

Pedestrian Action	Total	Age Group								Not Reported
		0-4	5-9	10-14	15-19	20-24	25-44	45-64	65 & Older	
Crossing At Intersection Or Crosswalk	316	8	19	28	54	20	93	51	44	2
Crossing Other Than Crosswalk	665	45	113	88	72	35	159	84	68	1
Walking In Roadway With Traffic	56	3	1	2	10	6	21	7	6	0
Walking In Roadway Against Traffic	54	2	2	8	4	1	21	10	6	0
Standing In Roadway	82	4	3	6	6	7	36	13	7	0
Pushing or Working On Veh. In Roadway	26	0	0	2	5	5	10	2	2	0
Other Working In Roadway	9	0	0	0	0	2	7	0	0	0
Playing In Roadway	0	0	0	0	0	0	0	0	0	0
Lying In Roadway	9	0	0	0	2	2	4	1	0	0
Getting On or Off Veh. In Roadway	14	2	2	3	2	1	3	0	1	0
Other In Actions In Roadway	211	11	21	25	31	15	57	20	31	0
Not In Roadway	101	5	3	10	8	14	29	16	15	1
Not Reported	81	5	4	11	8	9	21	12	11	0
TOTALS	1,624	82	168	183	202	117	461	216	191	4

**Table 7-6
Pedestrian Physical Condition**

Pedestrian Condition	Total	% of Total Peds	% of Fatal		% of Injury		PDO	% of PDO Peds
			Fatal	Peds	Injury	Peds		
No Apparent Defects	1,090	63.26%	43	28.29%	1,014	67.11%	33	55.00%
Impaired Had Been Drinking	274	15.90%	51	33.55%	218	14.43%	5	8.33%
Other Bodily Defects	27	1.57%	3	1.97%	21	1.39%	3	5.00%
Ill, Ability Influenced	4	0.23%	0	0%	4	0.26%	0	0%
Sleepy, Fatigued	2	0.12%	0	0%	2	0.13%	0	0%
Under Influence Of Narcotic Drug	17	0.99%	3	1.97%	13	0.86%	1	1.67%
Not Reported	309	17.93%	52	34.21%	239	15.82%	18	30.00%
TOTALS	1,723	100.0%	152	100.0%	1,511	100.0%	60	100.0%

Section 7: Pedestrian and Pedalcyclist Crashes

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

Lighting Conditions	Number of Pedestrian Crashes			
	Total	Fatal	Injury	PDOs
Daylight	994	36	915	43
Darkness	634	107	514	13
Dawn or Dusk	93	9	83	1
Not Reported	0	0	0	0
TOTALS	1,721	152	1,512	57

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

Weather Conditions	Number of Pedestrian Crashes			
	Total	Fatal	Injury	PDOs
Clear	1,467	118	1,297	49
Raining	55	4	48	3
Cloudy	174	14	156	4
Snowing	6	0	5	1
Strong wind	3	0	3	0
Dust	0	0	0	0
Fog	0	0	0	0
Other	0	0	0	0
Not Reported	16	16	3	0
TOTALS	1,721	152	1,512	57

**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	13	10	3	0
5-9	1	1	0	134	100	34	0
10-14	2	2	0	347	284	63	0
15-19	3	3	0	292	229	63	0
20-24	2	1	1	254	199	55	0
25-34	6	6	0	411	325	85	1
35-44	7	6	1	290	232	57	1
45-54	4	4	0	148	123	25	0
55-64	2	2	0	47	41	6	0
65-74	1	1	0	38	26	12	0
*75 & Older	2	2	0	93	79	13	1
Not Reported	0	0	0	0	0	0	0
TOTALS	31	29	2	2,067	1,648	416	3

*See note on page i

**Table 7-10
Pedalcycle Crashes**

	Statewide	Total	Urban	Rural
Number Of Crashes		2,330	2,191	139
Persons Killed		31	24	7
Persons Injured		2,067	1,945	122
Property Damage Only		258	246	12

**Table 7-11
Pedalcycle Crash History**

NUMBER OF PEDALCYCLISTS		
Year	Total Killed	Total Injured
1988	35	1,862
1989	30	1,864
1990	28	2,055
1991	30	2,121
1992	18	2,091
1993	24	2,162
1994	21	2,271
1995	31	2,308
1996	30	2,089
1997	31	2,067

In 1997, 58,000 pedalcyclists were injured and 813 were killed in traffic crashes across the country. This represented 2 percent of all injuries and 2 percent of all fatalities from traffic crashes.

Section 7: Pedestrian and Pedalcyclist Crashes

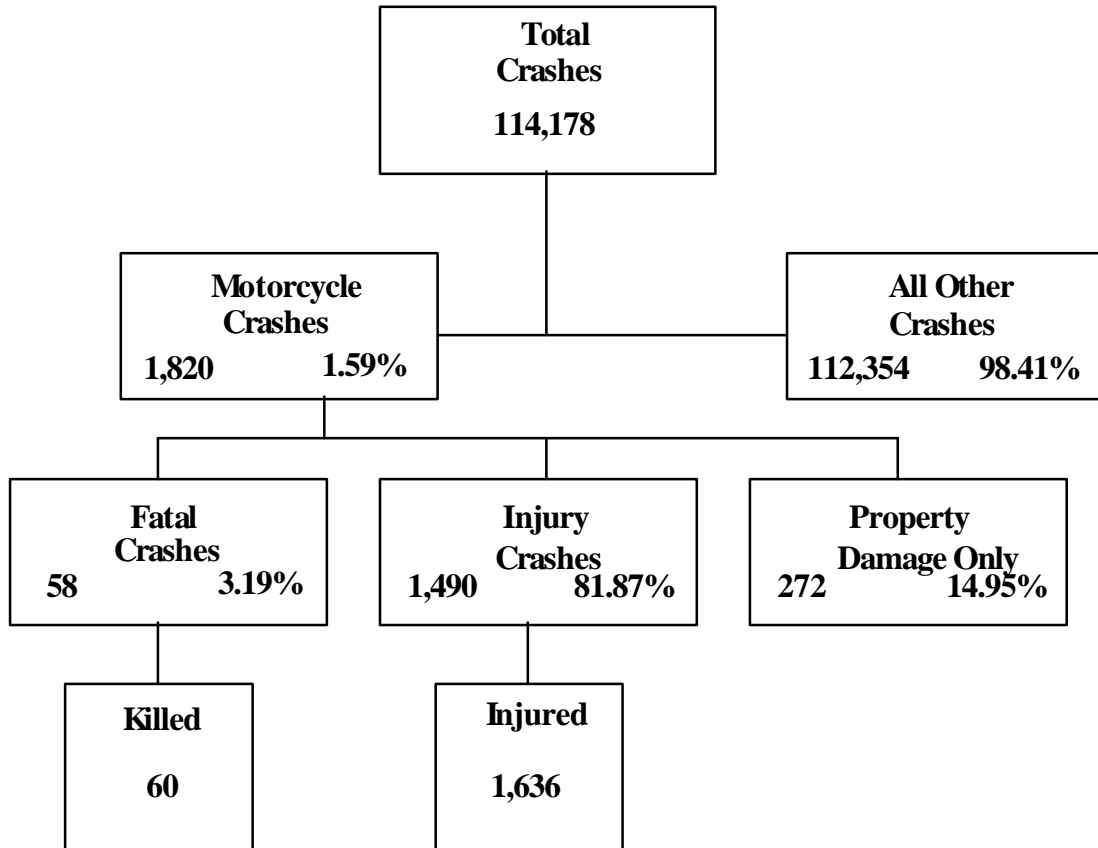
**Table 7-12
Lighting Conditions - Pedalcyclist Crashes**

Lighting Conditions	Number of Pedalcyclist Crashes			
	Total	Fatal	Injury	PDOs
Daylight	1,795	13	1,576	206
Darkness	400	5	114	16
Dawn or Dusk	135	13	351	36
Not Reported	0	0	0	0
TOTALS	2,330	31	2,041	258

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

Weather Conditions	Number of Pedalcyclist Crashes			
	Total	Fatal	Injury	PDOs
Clear	2,026	28	1,768	230
Raining	42	0	38	4
Cloudy	243	3	218	22
Snowing	0	0	0	0
Strong wind	7	0	6	1
Dust	1	0	1	0
Fog	0	0	0	0
Other	0	0	0	0
Not Reported	11	0	10	1
TOTALS	2,330	31	2,041	258

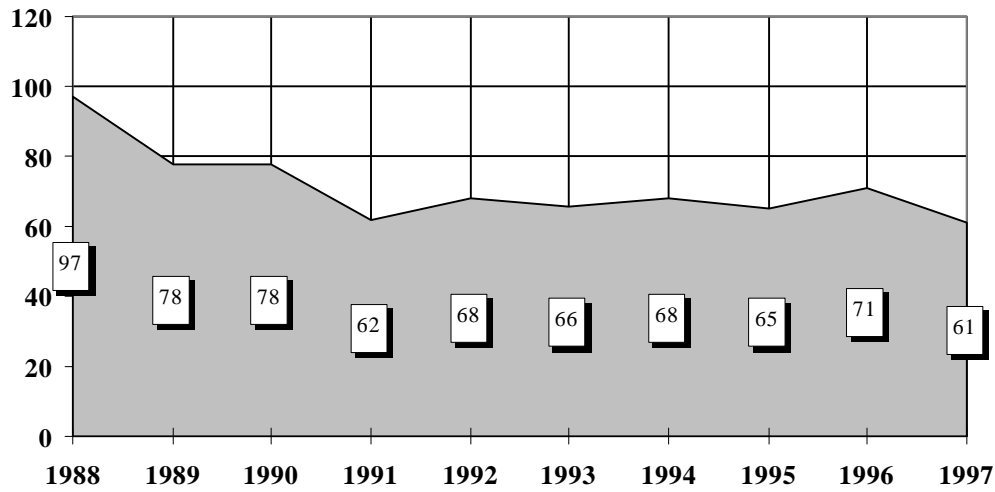
Section 8: Motorcycle Crashes



Includes motorcycle drivers and/or motorcycle passengers only

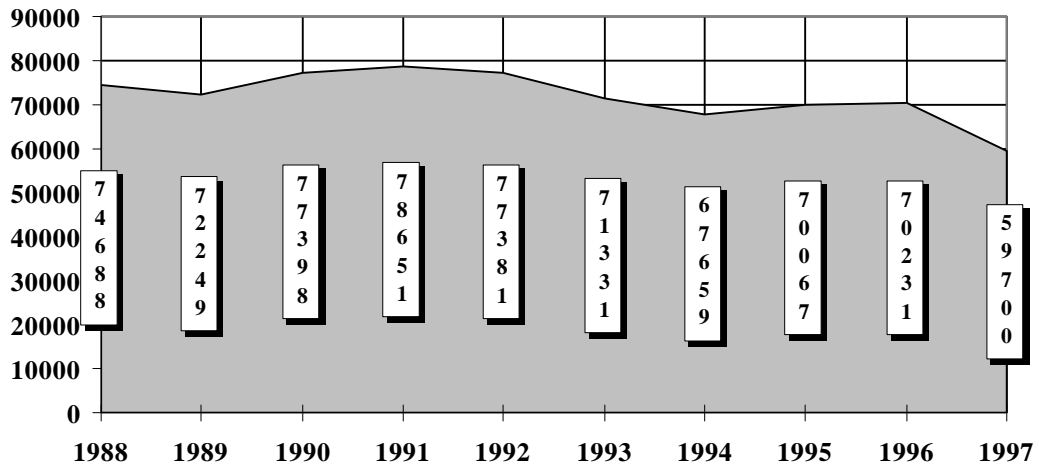
Section 8: MotorcycleCrashes

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



In 1997, 2,106 motorcyclists were killed in traffic crashes in the United States, 71 of these occurred on Arizona roadways.

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



1997 Total includes motorcycles only. Prior years included golf carts, atv's, etc.
Source: The Motor Vehicle Division of the Arizona Department of Transportation

Figure 8-3
Motorcycle Fatality Rate per Registered Motorcycles

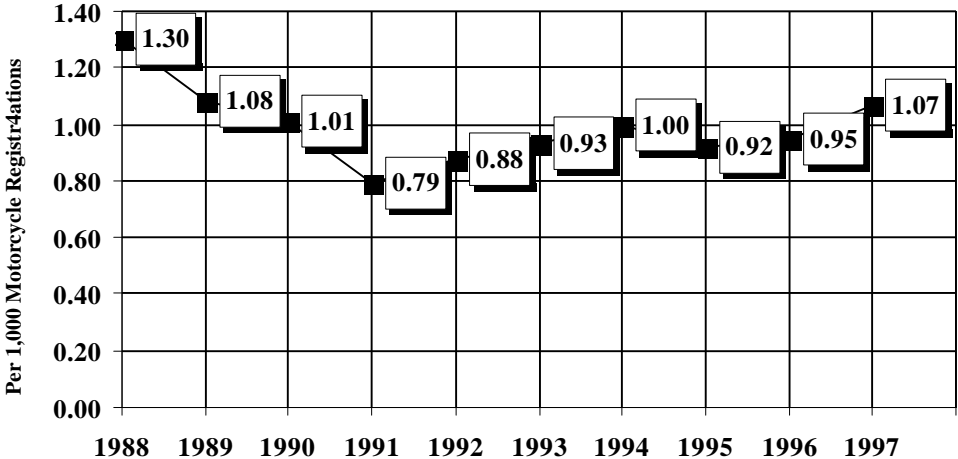
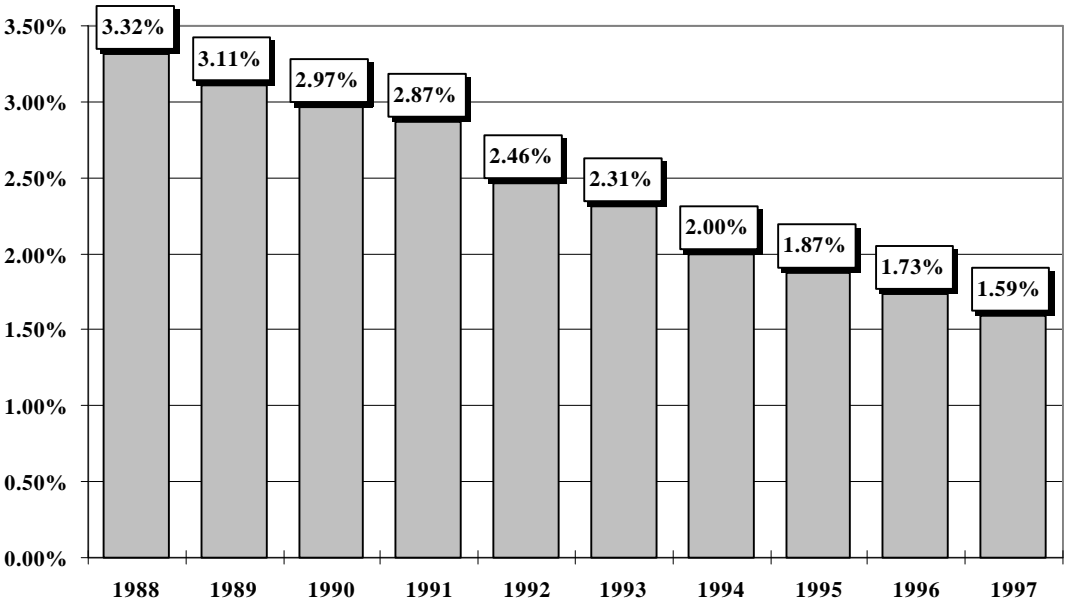


Figure 8-4
Percent of Motorcycle Crashes to All Crashes



Section 8: MotorcycleCrashes

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

Accident Type	Number of Crashes			
	Total	Fatal	Non-Fatal Injury	Property Damage Only
Overturning	20	0	18	2
Other Non-Collision	377	5	337	35
Pedestrian	11	0	11	0
Motor Vehicle In Transport	1,082	34	843	205
Motor Vehicle On Other Roadway	0	0	0	0
Parked Motor Vehicle	18	0	12	6
Railway Train	0	0	0	0
Pedalcyclist	11	0	11	0
Animal	29	1	27	1
Fixed Object	258	17	220	21
Other Object	14	1	11	2
TOTALS	1,820	58	1,490	272

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

Lighting Condition	Number of Crashes		
	Total	Fatal	Injury
Daylight	1,196	26	969
Dawn or Dusk	98	2	86
Darkness	523	30	432
Not Reported	3	0	3
Totals	1,820	58	1,490

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

Road Surface	Number of Crashes		
	Total	Fatal	Injury
Dry	1,661	54	1,350
Wet	58	1	51
Snowy/icy	0	0	0
Other	101	3	89
Not Reported	0	0	0
Totals	1,820	58	1,490

Table 8-4
Motorcycle Crashes - Land Use

	Number of Crashes and % of Total				
	Total	Rural	% of Total	Urban	% of Total
Crashes	1,820	475	26.10%	1,345	73.90%
Fatalities	60	24	40.00%	36	60.00%
Injuries	1,636	443	27.08%	1,193	72.92%

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	31	1.68	0	27
16	13	0.70	0	12
17	22	1.19	0	20
18-19	119	6.45	1	99
20-24	329	17.84	10	270
25-34	492	26.68	21	406
35-44	436	23.64	12	366
45-54	232	12.58	10	195
55-64	78	4.23	6	61
65-74	29	1.57	1	23
*75 & Older	62	3.36	0	30
Not Reported	1	0.05	0	1
TOTALS	1,844	100.00%	61	1,510

* See note on page i

Table 8-6
Alcohol-Related Motorcycle Crashes

Total number of impaired operators	149
Total number of fatal crashes	14
Total number of injury crashes	124

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

License Status	1995		1996		1997	
	Total Fatal Crashes	Percent of Fatal Crashes	Total Fatal Crashes	Percent of Fatal Crashes	Total Fatal Crashes	Percent of Fatal Crashes
No license	2	3.45%	4	5.97%	4	6.67%
Invalid	31	53.45%	25	37.31%	18	30.00%
Valid	24	41.38%	34	50.75%	37	61.67%
Unknown	1	1.72%	4	5.97%	1	1.67%
TOTALS	58	100.00%	67	100.00%	60	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	76	14.56%	124	13.96%	87	20.05%	287	15.56%
Possible injury	99	18.97%	169	19.03%	110	25.35%	378	20.50%
Non-incapacitating	222	42.53%	326	36.71%	138	31.80%	686	37.20%
Incapacitating	110	21.07%	228	25.68%	62	14.29%	400	21.69%
Fatality	12	2.30%	31	3.49%	8	1.84%	51	2.77%
Unknown	3	0.57%	10	1.13%	29	6.68%	42	2.28%
TOTALS	522	100.00%	888	100.00%	434	100.00%	1,844	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	16.36%	15	11.63%	9	28.13%	33	15.28%
Possible injury	10	18.18%	22	17.05%	10	31.25%	42	19.44%
Non-incapacitating	25	45.45%	47	36.43%	7	21.88%	79	36.57%
Incapacitating	10	18.18%	37	28.68%	4	12.50%	51	23.61%
Fatality	1	1.82%	8	6.20%	0	0%	9	4.17%
Unknown	0	0%	0	0%	2	6.25%	2	0.93%
TOTALS	55	100.00%	129	100.00%	32	100.00%	216	100.00%

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	2	1	1	0
5 - 9	0	0	0	8	5	3	0
10 - 14	0	0	0	26	21	5	0
15 - 19	3	1	2	155	142	13	0
20 - 24	9	9	0	288	262	26	0
25 - 34	19	19	0	441	392	49	0
35 - 44	14	9	5	383	331	52	0
45 - 54	9	7	2	213	183	30	0
55 - 64	6	5	1	63	59	4	0
65 - 74	0	0	0	25	24	1	0
75 & Older	0	0	0	24	21	2	1
Not Reported	0	0	0	8	3	5	0
TOTALS	60	50	10	1,636	1,444	191	1

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	29	1.57%	1	1.64%	25	1.66%
Speed too fast for conditions	407	22.07%	14	22.95%	332	21.99%
Failed to yield	65	3.52%	2	3.28%	45	2.98%
Passed stop sign	14	0.76%	0	0%	11	0.73%
Disregarded traffic signal	14	.076%	1	1.64%	12	0.79%
Drove left of center	11	0.60%	2	3.28%	9	0.58%
Followed too closely	32	1.74%	0	0%	21	1.39%
Made improper turn	15	0.81%	0	0%	12	0.79%
Driver inattention	1	0.05%	0	0%	1	0.07%
Had been drinking	149	8.08%	14	22.95%	124	8.21%
Other improper driving	85	4.61%	2	3.28%	71	4.70%
Inadequate brakes	6	0.33%	0	0%	5	0.33%
Defective tires	11	0.60%	1	1.64%	9	0.58%
Other	21	1.14%	1	1.64%	17	1.13%
No improper driving	752	40.78%	17	27.87%	626	41.46%
Not Reported	232	12.58%	6	9.84%	190	12.58%
TOTALS	1,844	100.00%	61	100.00%	1,510	100.00%

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Figure 8-5
Motorcycle Crashes by Time of Day

Weekdays

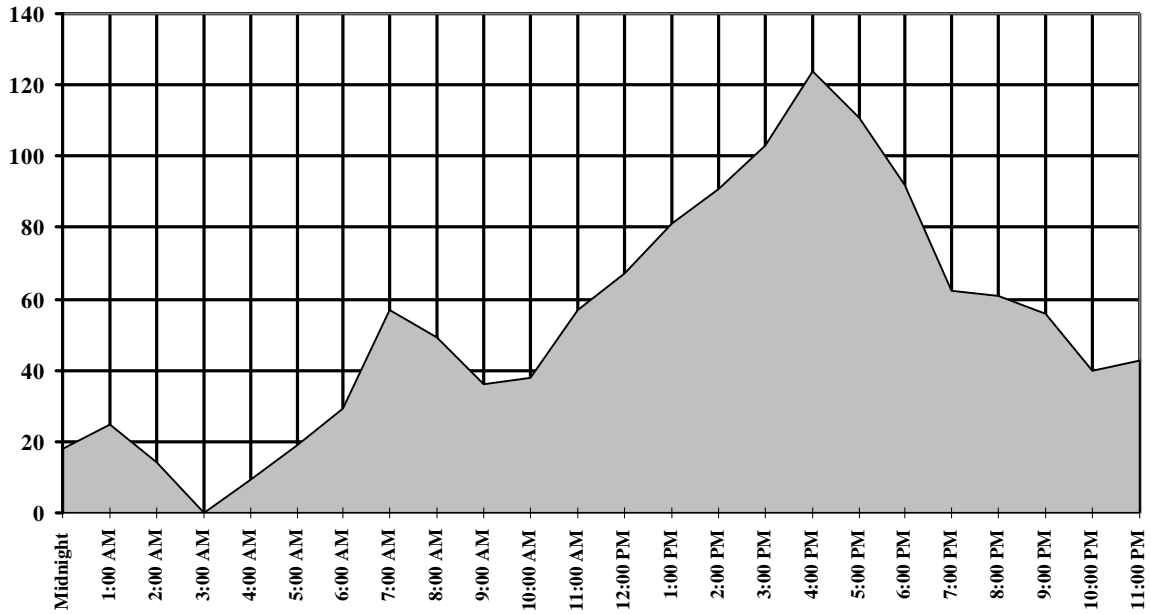


Figure 8-6
Weekends

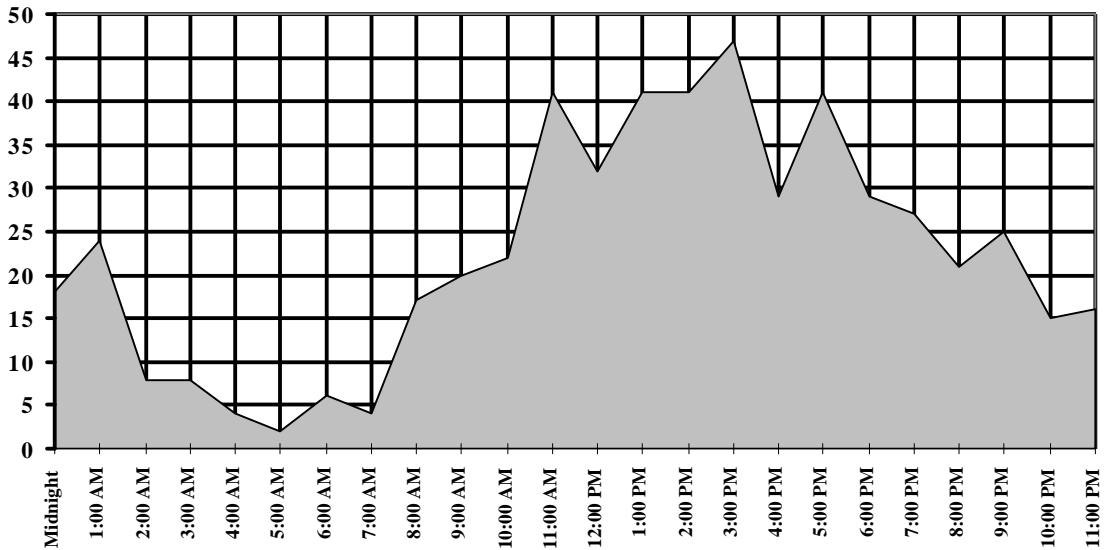


Figure 8-7
Fatal Motorcycle Crashes by Time of Day

Weekdays

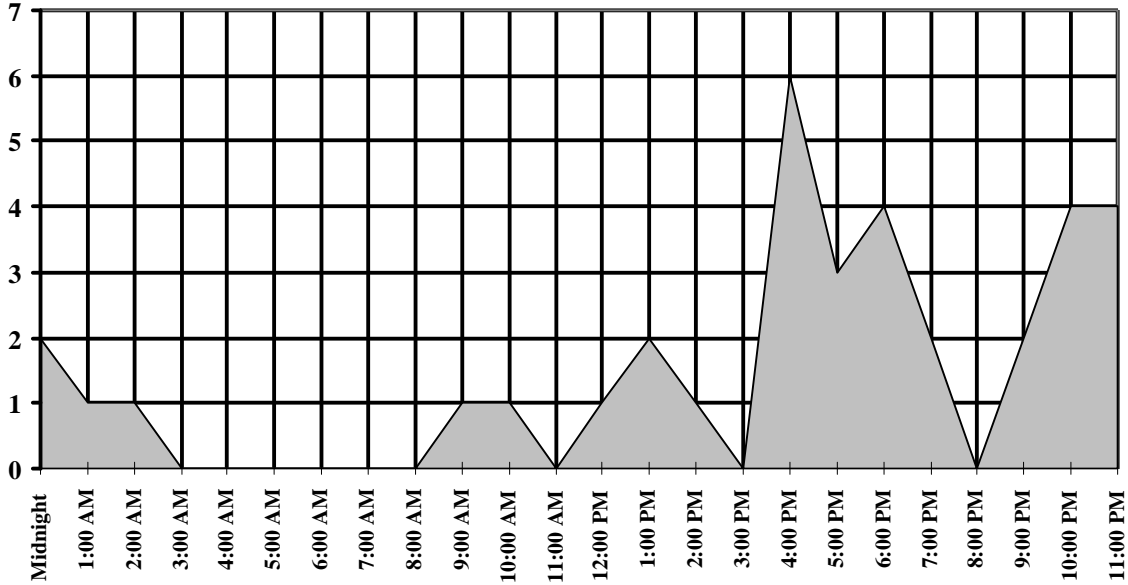
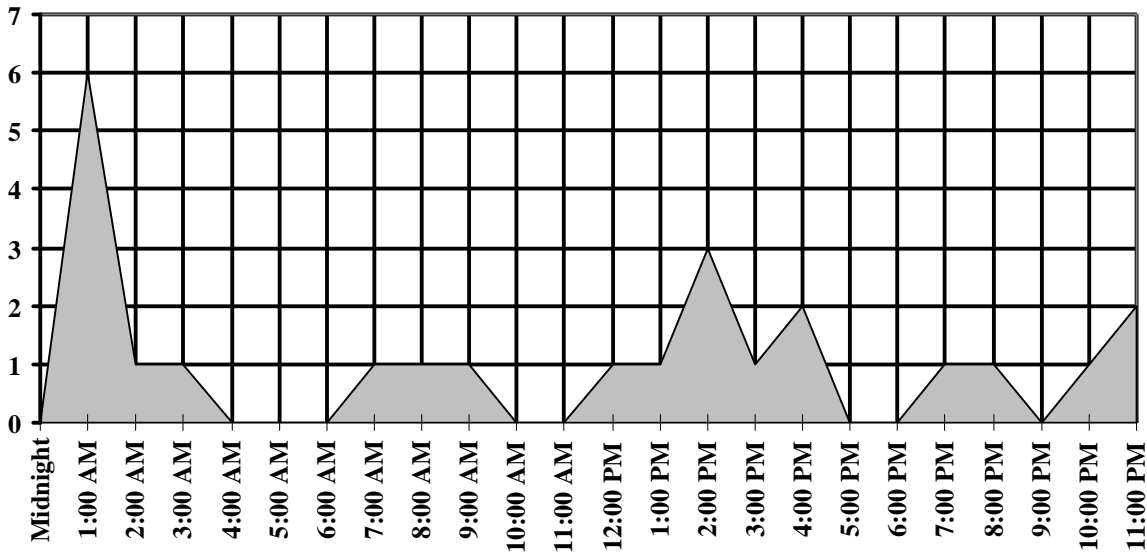
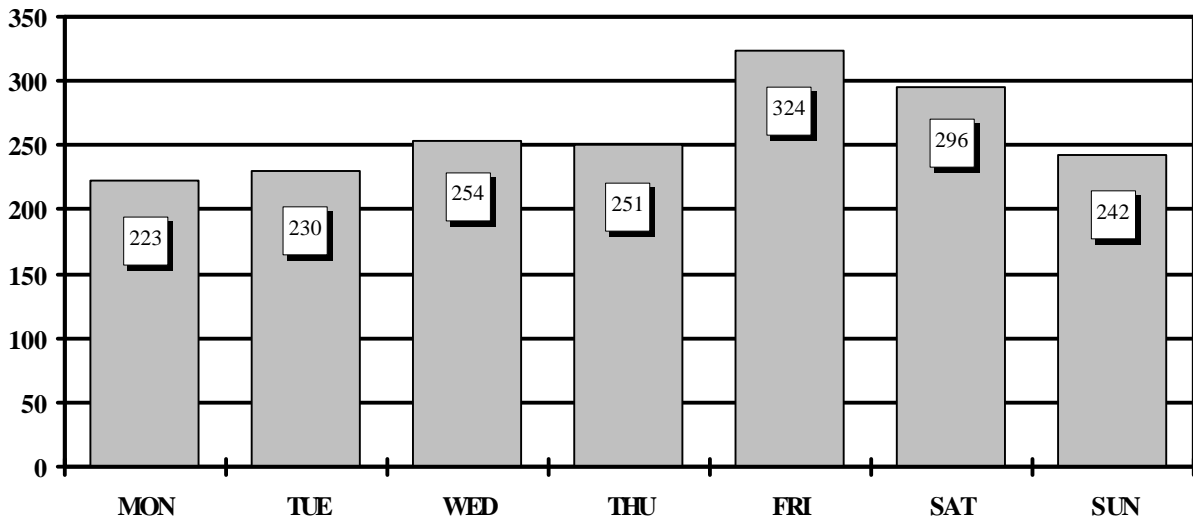


Figure 8-8
Weekends

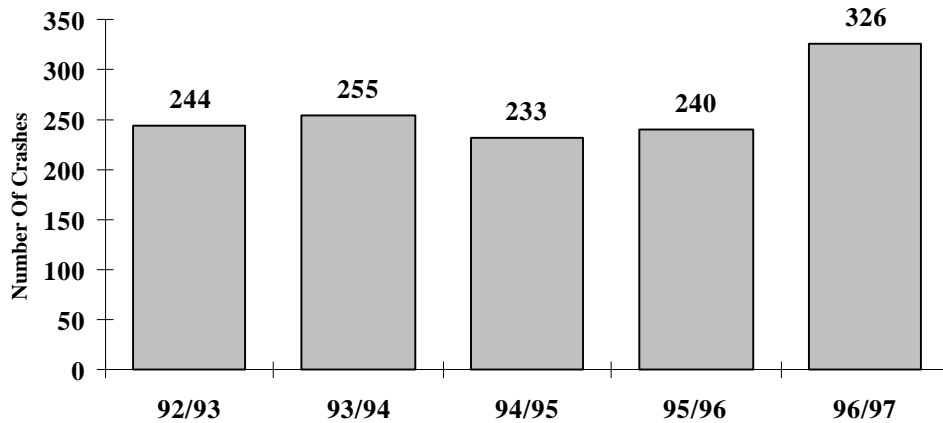


Section 8: MotorcycleCrashes

**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	181	55.52%
Speed not Reasonable & Proper	24	7.36%
Failed to Yield	22	6.75%
Following too Closely	6	1.84%
Improper Turn	26	7.98%
Drove in Opposing Lane	2	0.61%
Other	16	4.91%
Unknown	8	2.45%
Inattention	34	10.43%
No Passing Zone	4	1.23%
Unsafe Lane Change	3	0.92%
TOTAL DRIVERS	326	100.00%

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

	School Year				
	92/93	93/94	94/95	95/96	96/97
Injuries and Fatalities					
Pupils					
Killed	0	1	0	1	0
Injured	120	92	117	142	131
Bus Drivers					
Killed	0	0	0	0	0
Injured	15	18	15	19	25
Property Damage Only Crashes	204	202	216	173	213
Crash by Time of Day					
A.M.	108	124	111	108	139
P.M.	136	131	122	132	187
Weather Conditions:					
Not Reported	0	1	1	0	1
Clear and Dry	189	204	185	209	255
Rain	20	11	14	9	17
Snow or Ice	5	2	3	4	6
Dusty or Windy	0	0	0	0	4
Fog	1	0	0	0	0
Cloudy	29	37	30	18	43

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