2001 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 2001. 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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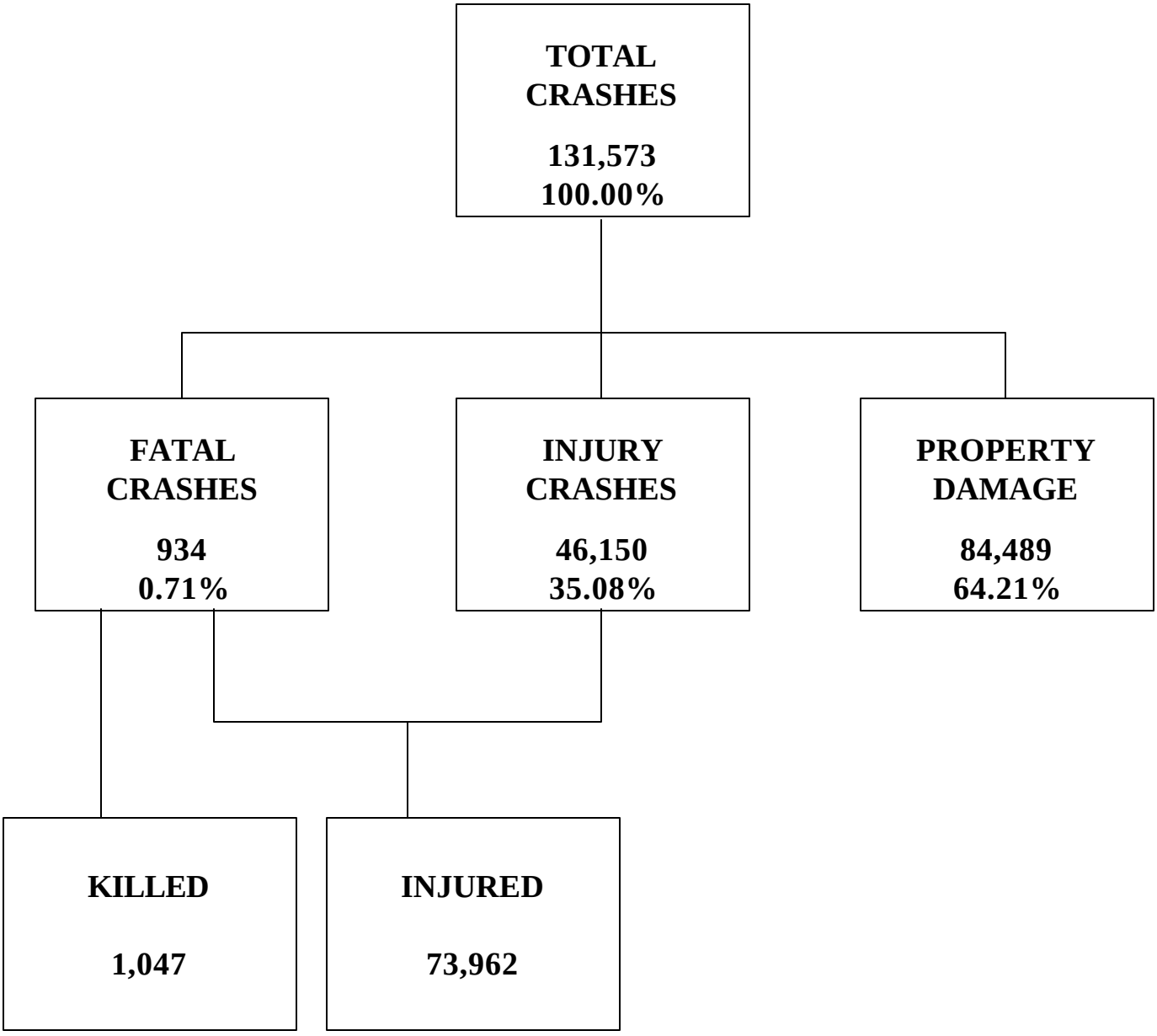


Table 1-1
Arizona Crash Facts

Category	2000	2001	Pct Change
Reported crashes	131,368	131,573	+0.16%
Total killed	1,036	1,047	+1.06%
Total injured	76,626	73,962	-3.48%
Pedestrians killed	137	166	+21.17%
Pedestrians injured	1,560	1,506	-3.46%
Motorcyclists killed	95	77	-18.94%
Motorcyclists injured	2,107	1,925	-8.64%
Pedalcyclists killed	25	29	+16.00%
Pedalcyclists injured	1,915	1,710	-10.70%
Millions of vehicle miles traveled (VMT	49,725	50,861	+2.28%
Deaths per 100 million VMT	2.08	2.06	-0.96%
Injuries per 100 million VMT	154.10	145.29	-5.72%

2001 At a Glance

⇨Approximately **2.9** persons were killed each day.

⇨One person was killed every **8.4** hours.

⇨There were **203** persons injured every day.

⇨One person was injured every **7.1** minutes.

⇨Drinking drivers were involved in **6.25%** of all crashes.

⇨Drinking drivers were involved in **25.27%** of all fatalities.

⇨Over **70.7%** of all drinking drivers involved in crashes were males.

⇨Rural crashes accounted for **18.7%** of all crashes, and over **50.4%** of all fatal crashes.

⇨**71.1%** of all crashes occurred during daylight.

⇨Motor vehicle crashes resulted in **$2.84** billion in economic losses to Arizona.

⇨Motor vehicle crashes killed **63** children and injured **6,833** children through age 14.

The Nation In 2001

An estimated **42,116** persons were killed in motor vehicle crashes in the United States.

An estimated **3,033,000** persons were injured.

There were an estimated **6,323,000** crashes.

The population of the United States was estimated at **284,796,887.**

Estimated vehicle miles traveled totaled **2,778 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
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	1,035	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
1998	120,293	858	43,348	76,087	980	70,828	3,598,325	3,683,891
1999	125,764	907	45,541	79,316	1,024	73,514	3,372,187	3,731,126
2000	131,368	891	47,485	82,992	1,036	76,626	3,529,732	3,983,860
2001	131,573	934	46,150	84,489	1,047	73,962	3,550,766	4,117,727

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*
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	1,035	39,566	2.32
1996	1.70	2.37	995	42,007	2.04
1997	1.70	2.18	949	43,543	1.99
1998	1.58	2.15	980	45,485	1.89
1999	1.55	2.18	1,024	47,014	1.90
2000	1.55	2.08	1,036	48,568	1.83
2001	1.50	2.06	1,047	50,861	1.84

*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 2001, an average of 115 persons died each day in motor vehicle crashes across the United States - one every 12.5 minutes.

Statewide Economic Loss Due to Motor Vehicle Crashes

*In 2001, the economic impact of motor vehicle crashes was **$533.37** for every man, woman, and child in the state of Arizona.*

Fatalities	$ 1,088,880,000.
Injuries	1,199,422,300.
Property Damage Only	549,178,500.
TOTAL.	**$2,837,480,800.**

Table 1-4
Estimated Economic Loss by County

Counties	Cost of Traffic Crashes			
	Fatalities	Injuries	PDOs	Total
Apache	$50,960,000.	$8,834,800.	$3,380,000.	$63,174,800.
Cochise	44,720,000.	19,603,200.	9,074,000.	73,397,200.
Coconino	70,720,000.	32,581,700.	21,833,500.	125,135,200.
Gila	16,640,000.	12,123,700.	4,589,000.	33,352,700.
Graham	9,360,000.	4,183,200.	1,261,000.	14,804,200.
Greenlee	0.	1,050,800.	351,000.	1,401,800.
La Paz	23,920,000.	6,849,300.	1,989,000.	32,758,300.
Maricopa	512,720,000.	759,676,200.	360,691,500.	1,633,087,700.
Mohave	45,760,000.	29,943,700.	11,973,000.	87,676,700.
Navajo	48,880,000.	13,386,500.	6,350,500.	68,617,000.
Pima	119,600,000.	205,494,300.	86,671,000.	411,765,300.
Pinal	64,480,000.	33,640,100.	12,616,500.	110,736,600.
Santa Cruz	4,160,000.	4,541,000.	2,723,500.	11,424,500.
Yavapai	54,080,000.	29,299,700.	16,133,000.	99,512,700.
Yuma	22,880,000.	38,214,100.	9,542,000.	70,636,100.
TOTALS	**$1,088,880,000.**	**$1,199,422,300.**	**$549,178,500.**	**$2,837,480,800.**

Cost estimates are based on the 2001 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 andinflation factors adopted. For this reason, the cost estimates for 1999 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	$1,040,000.
2.	Incapacitating Injury	49,500.
3.	Non-incapacitating Injury	16,500.
4.	Possible Injury	9,400.
5.	Property Damage Only	6,500.

Traffic Crashes in Arizona by Year

Figure 1-1: All Crashes

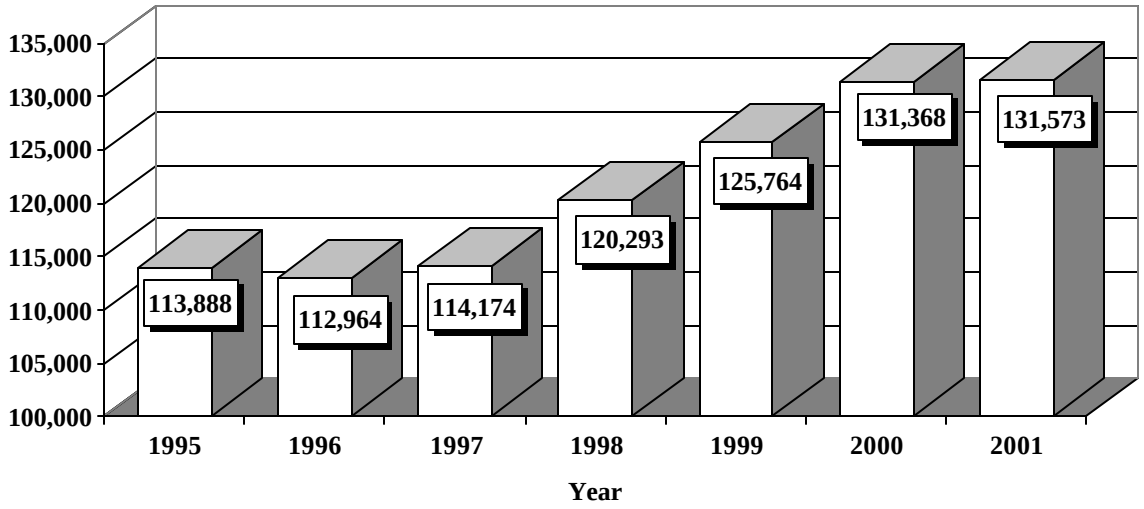


Figure 1-2: Fatal Crashes

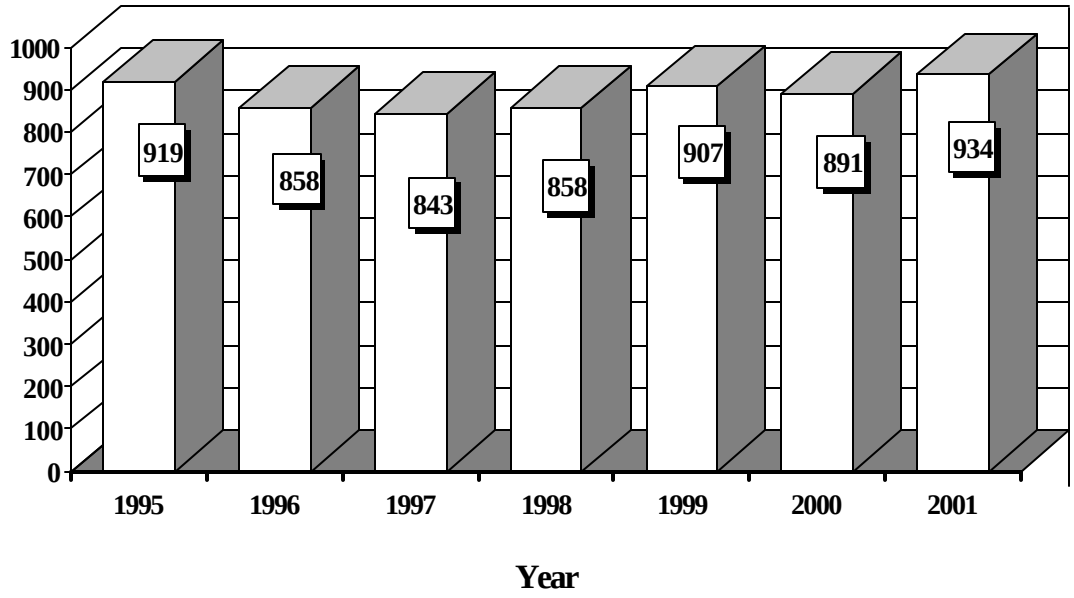


Figure 1-3: Injury Crashes

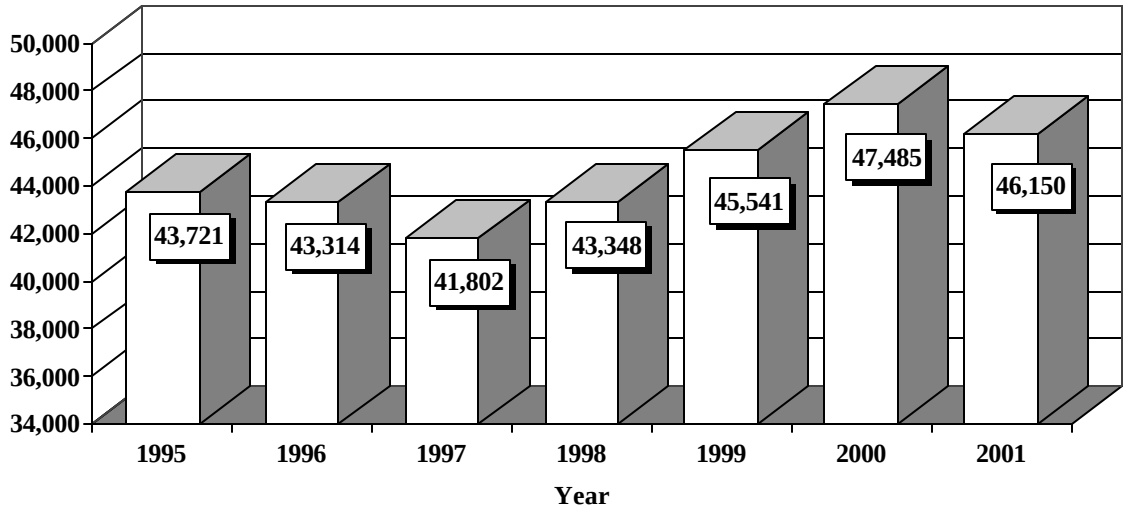


Figure 1-4: Property Damage Only Crashes

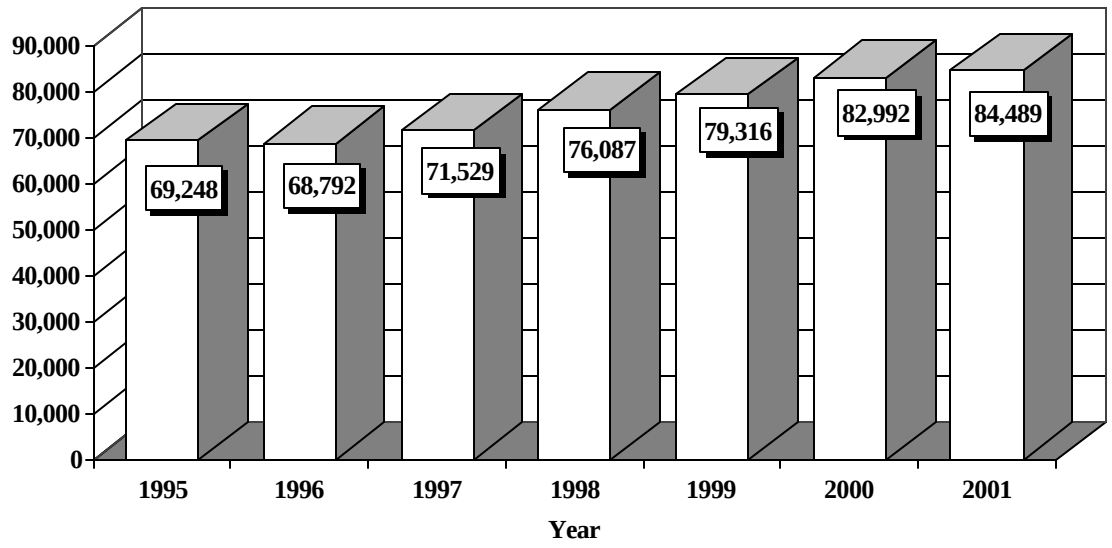


Table 1-5
Victims of Motor Vehicle Crashes*

Age of Victim	Total Killed	Male	Female	Total Injured	Male	Female	Sex Unk.
0 - 4	22	11	11	1,758	878	878	2
5 - 9	19	13	6	2,269	1,094	1,173	2
10 - 14	22	16	6	2,806	1,346	1,460	0
15 - 19	109	72	37	10,445	4,924	5,515	6
20 - 24	127	94	33	10,378	5,382	4,989	7
25 - 34	206	160	46	14,103	7,246	6,851	6
35 - 44	180	134	46	11,440	5,559	5,878	3
45 - 54	121	89	32	8,497	3,900	4,590	7
55 - 64	82	50	32	4,646	2,114	2,531	1
65 - 74	60	33	27	2,876	1,281	1,595	0
75 & Older	87	50	37	2,348	1,018	1,330	0
Age Unknown	12	10	2	2,396	1,250	1,105	41
Totals	**1,047**	**732**	**315**	**73,962**	**35,992**	**37,895**	**75**

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

Arizona's Estimated Population

	Population Percentage	Traffic Crash Fatality Percentage	Population Estimate
White	71.61%	52.34%	3,674,046
Hispanic	18.77%	25.11%	963,020
African American	2.86%	3.01%	146,736
Native American	5.18%	17.85%	265,767
Asian	1.41%	1.45%	72,342
Other	0.17%	0.24%	8,721
2001 population			**5,319,895**

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 2000 U.S. Census Data.

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

Age of Victim	Total Killed	Male	Female	White	Hispanic	African American	Asian	Native American
Less than 1	6	4	2	0	3	0	0	3
1-14	59	37	22	16	22	4	1	15
15-19	100	66	34	41	38	0	1	20
20-44	444	345	99	194	139	23	3	83
45-64	161	106	55	108	24	3	1	24
65+	137	79	58	112	12	2	2	9
Unknown	1	1	0	1	0	0	0	0
Total	**908**	**638**	**270**	**472**	**238**	**32**	**8**	**154**

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

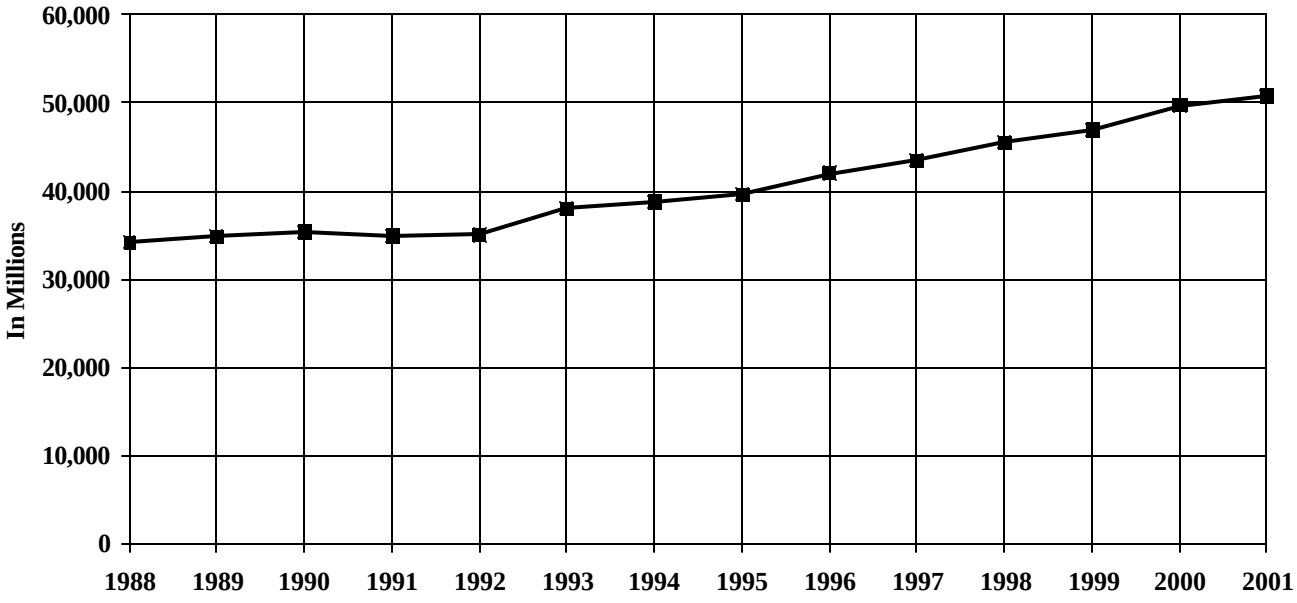


Figure 1-6
Arizona versus U.S. Fatality Rate

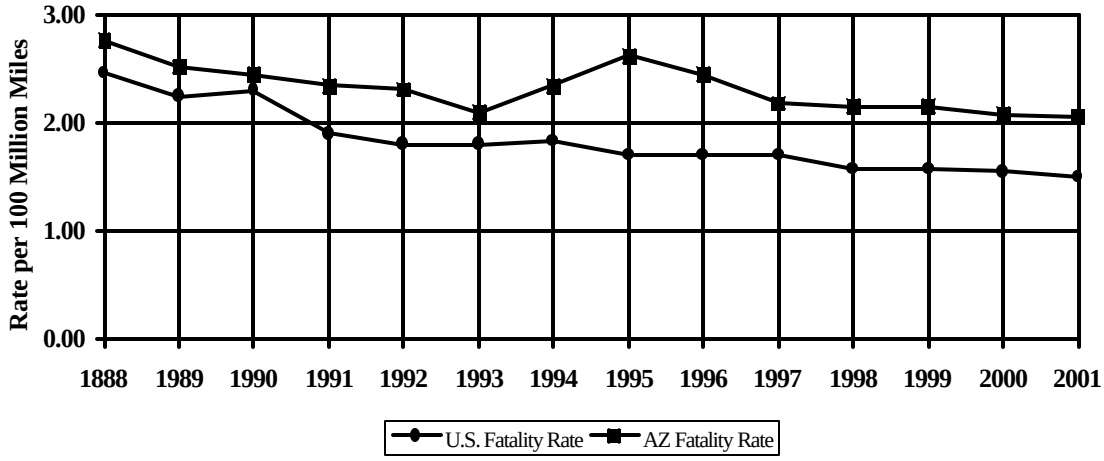
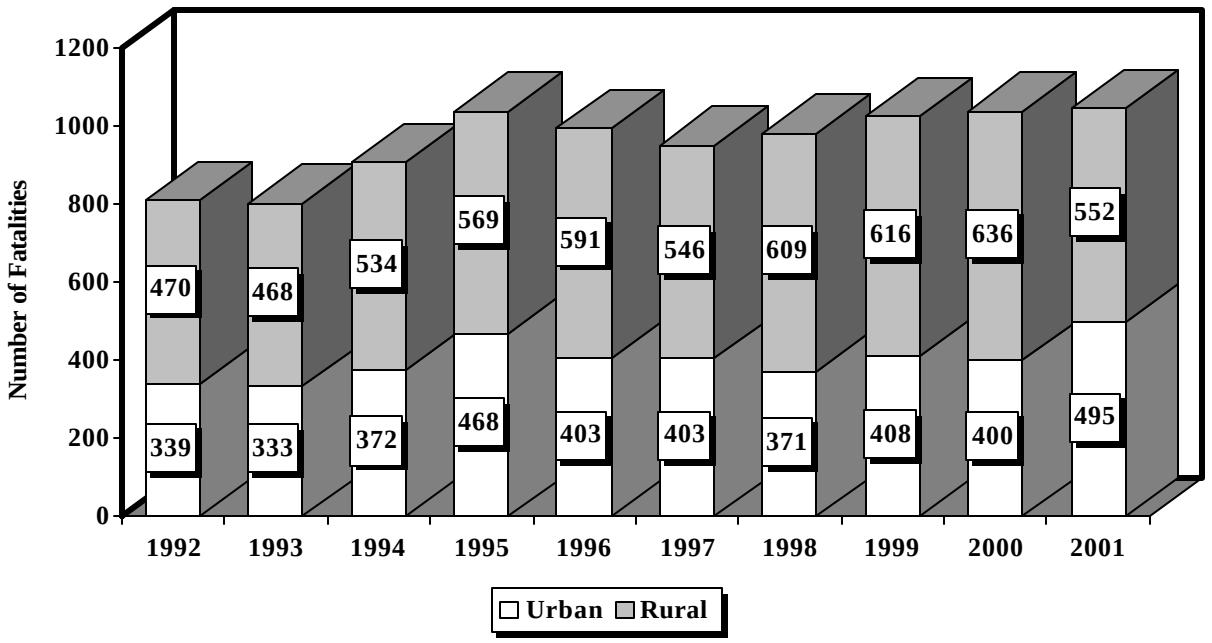


Figure 1-7



Traffic Fatalities by Land Use

Figure 1-8
Traffic Injuries by Land Use

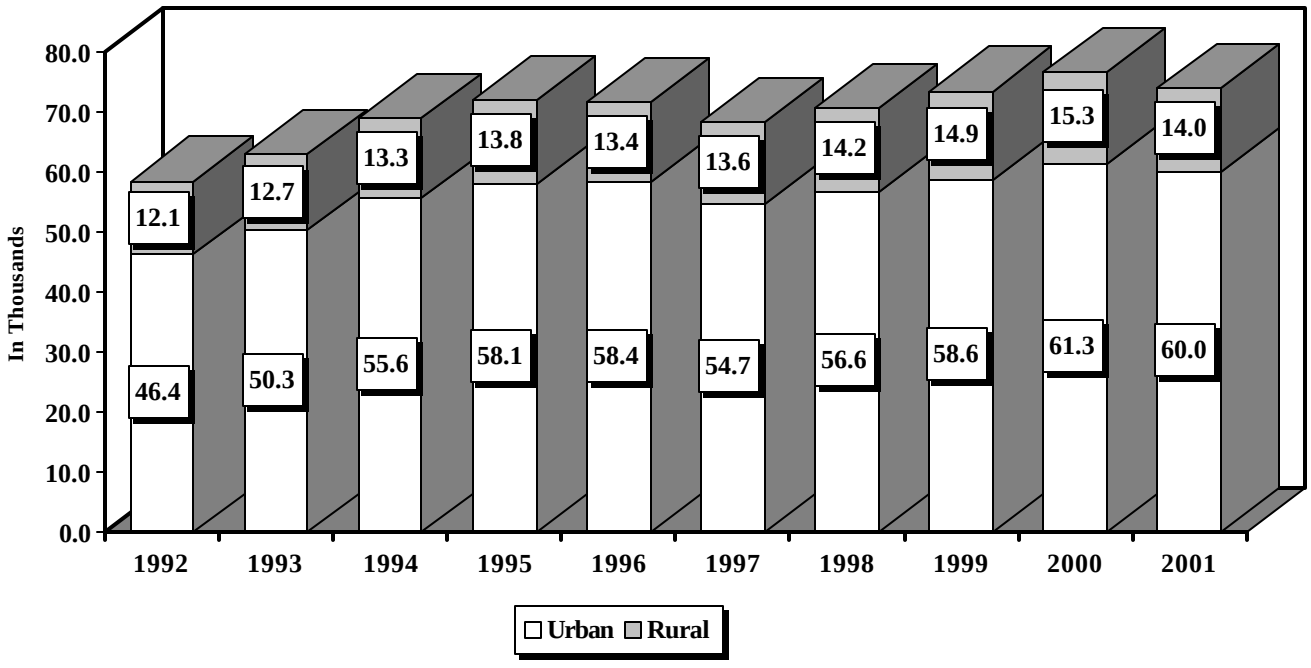


Table 1-7
Holiday Crash Statistics

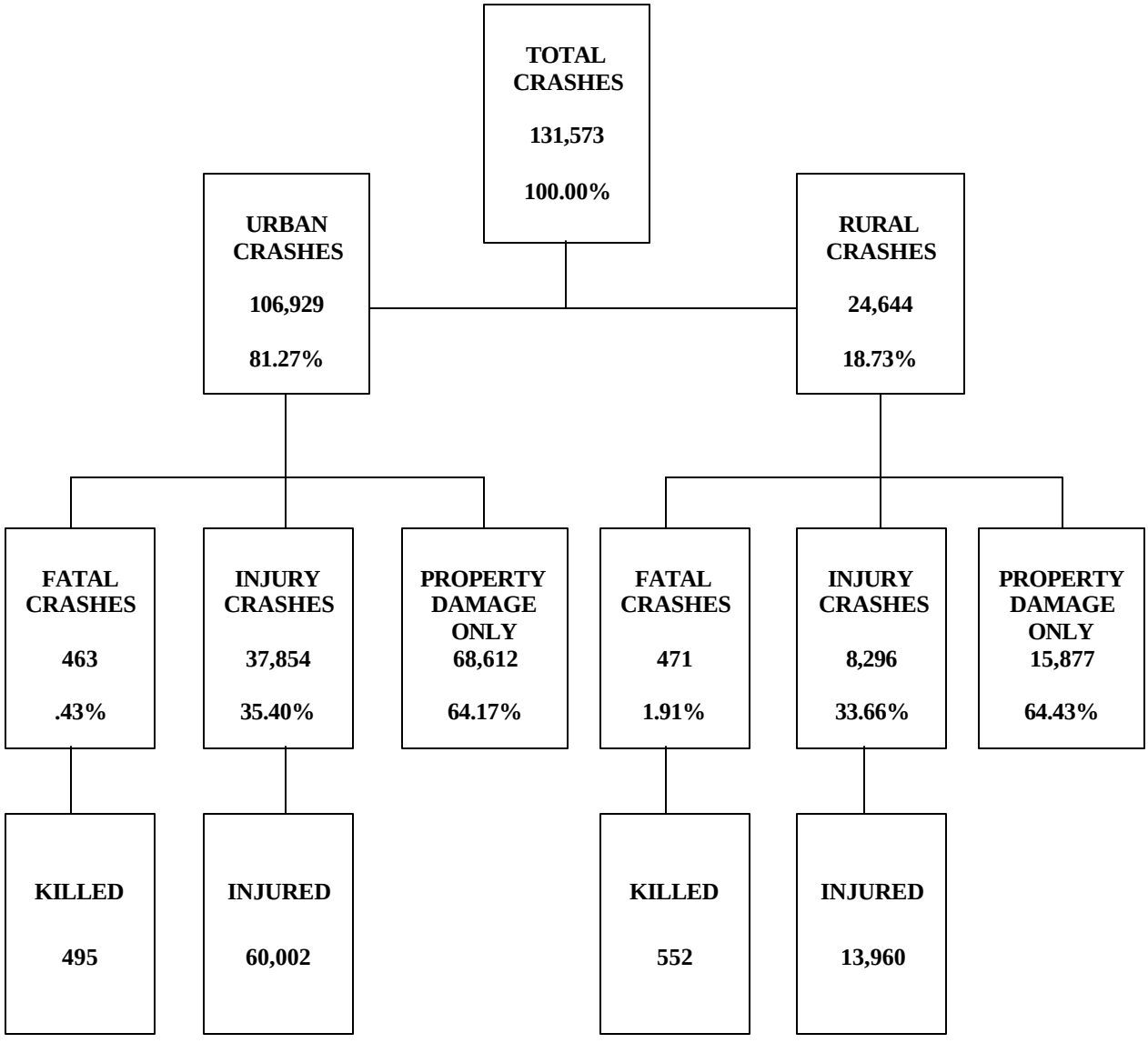
Holidays such as Memorial Day, Labor Day, and Thanksgiving are regarded as a 3 or 4 day weekend holiday for statistical purposes. Holidays such as Christmas, New Years, and the Fourth of July are celebrated on specific dates; which also make the holiday period range from two to five days in length.

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

2000 Holidays	Beginning at 6 p.m.	Ending at 6:00 a.m.	Number of Days	Fatal Crashes	Persons Killed	Alcohol-Related Crashes	Alcohol-Related Fatalities
New Years	Friday 12/29/00	Tuesday 1/2/01	4	10	13	5	6
Memorial Day	Friday 5/25/01	Tuesday 5/29/01	4	16	18	11	13
July 4th	Tuesday 7/03/01	Thursday 7/5/01	2	4	4	3	3
Labor Day	Friday 8/31/01	Tuesday 9/4/01	4	15	15	5	5
Thanksgiving Day	Wednesday 11/21/01	Monday 11/26/01	5	11	14	2	2
Christmas	Monday 12/21/01	Wednesday 12/26/01	4	15	15	6	6

Fatal Crashes by Year	New Years	Memorial Day	July 4th	Labor Day	Thanks-giving	Christmas	Total
1997	3	9	9	4	22	11	65
1998	10	10	6	3	13	10	52
1999	6	13	5	13	13	5	49
2000	10	11	17	16	19	10	80
2001	10	16	4	15	11	15	71
Persons Killed	**New Years**	**Memorial Day**	**July 4th**	**Labor Day**	**Thanks-Giving**	**Christmas**	**Total**
1997	3	12	10	4	23	17	82
1998	10	13	7	3	14	13	60
1999	7	16	7	13	14	9	58
2000	11	16	21	19	24	12	99
2001	13	18	4	15	14	15	79
Number of Days	**New Years**	**Memorial Day**	**July 4th**	**Labor Day**	**Thanks-giving**	**Christmas**	**Total**
1997	1	3	3	3	4	4	18
1998	4	3	3	3	4	3	20
1999	3	3	3	3	4	2	18
2000	3	3	4	3	4	3	20
2001	4	4	2	4	5	4	23

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	2,986	228	1,644	1,114	246	2,903
Other Non-Collision	4,373	18	456	3,899	18	556
Pedestrian	1,602	157	1,367	78	159	1,510
Motor Veh. In Transit	100,930	357	35,528	65,045	437	59,898
Motor Veh. Other Roadway	21	9	7	5	11	29
Pedalcyclist	1,994	29	1,704	261	29	1,758
Animal	1,638	1	242	1,395	1	344
Fixed Object	12,947	105	3879	8,963	115	5,215
Other Object	75	0	11	64	0	13
Misc.	5,007	30	1,312	3,665	31	1,736
TOTALS	**131,573**	**934**	**46,150**	**84,489**	**1047**	**73,962**

Severity by First Harmful Event in Urban Areas

Urban	Number of Crashes				Number of Persons	
	Total	Fatal	Injury	PDO	Killed	Injured
Overturning	611	44	336	231	44	553
Other Non-Collision	3,839	4	384	3,451	4	458
Pedestrian	1,430	114	1,251	65	115	1,381
Motor Veh. In Transit	87,925	213	31,156	56,556	241	51959
Motor Veh. Other Roadway	10	5	2	3	5	11
Pedalcyclist	1,840	24	1,571	245	24	1,621
Animal	177	0	28	149	0	36
Fixed Object	8,722	50	2,484	6,188	53	3,205
Other Object	20	0	5	15	0	6
Misc.	2,355	9	637	1,709	9	772
TOTALS	**106,929**	**463**	**37,854**	**68,612**	**495**	**60,002**

Severity by First Harmful Event in Rural Areas

Rural	Number of Crashes				Number of Persons	
	Total	Fatal	Injury	PDO	Killed	Injured
Overturning	2,375	184	1,308	883	202	2,350
Other Non-Collision	534	14	72	448	14	98
Pedestrian	172	43	116	13	44	129
Motor Veh. In Transit	13,005	144	4,372	8,489	196	7,939
Motor Veh. Other Roadway	11	4	5	2	6	18
Pedalcyclist	154	5	133	16	5	137
Animal	1,461	1	214	1,246	1	308
Fixed Object	4,225	55	1,395	2,775	62	2,010
Other Object	55	0	6	49	0	7
Misc.	2,652	21	675	1,956	22	964
TOTALS	**24,644**	**471**	**8,296**	**15,877**	**552**	**13,960**

Section 2: Geographic Location

Table 2-4
Crashes by County

County	Number of Crashes				Number of Persons	
	Total	Fatal	Injury	PDOs	Fatalities	Injuries
Apache	841	44	277	520	49	542
Cochise	2,065	35	634	1,396	43	1,055
Coconino	4,599	56	1,184	3,359	68	2,029
Gila	1,124	15	403	706	16	659
Graham	336	8	134	194	9	220
Greenlee	93	0	39	54	0	47
La Paz	507	20	181	306	23	331
Maricopa	86,698	445	30,762	55,491	493	49,179
Mohave	2,830	38	950	1,842	44	1,511
Navajo	1,426	37	412	977	47	731
Pima	21,422	111	7,977	13,334	115	12,570
Pinal	2,979	56	982	1,941	62	1,669
Santa Cruz	600	4	177	419	4	265
Yavapai	3,598	44	1,072	2,482	52	1,615
Yuma	2,455	21	966	1,468	22	1,539
Total	**131,573**	**934**	**46,150**	**84,489**	**1,047**	**73,962**

While rural crashes in Arizona accounted for only 18.7% of all crashes, they were responsible for 50.41% of all fatal crashes occurring in 2001.

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	41	0	6	35	0	8	2	0	0
St. Johns	23	0	5	18	0	7	3	0	1
Springerville	2	0	1	1	0	1	1	0	0
State Rural Roads	589	31	193	365	36	402	55	10	77
Other Rural Roads	186	13	72	101	13	124	35	4	38
TOTAL	841	44	277	520	49	542	96	14	116

COUNTIES Cities	Total	Number of Crashes			No. of Persons		Alcohol-Related		
		Fatal	Injury	Property Damage	Killed	Injured	Crashes	Killed	Injured
COCHISE COUNTY									
Benson	114	2	34	78	4	60	5	0	7
Bisbee	41	0	19	22	0	24	3	0	4
Douglas	272	1	59	212	1	88	16	0	8
Huachuca City	15	0	6	9	0	11	0	0	0
Sierra Vista	691	7	225	459	8	344	36	3	27
Tombstone	17	0	4	13	0	5	4	0	3
Willcox	39	0	8	31	0	13	4	0	0
State Rural Roads	611	19	187	405	23	327	34	7	26
Other Rural Roads	265	6	92	167	7	183	28	1	17
TOTAL	**2065**	**35**	**634**	**1,396**	**43**	**1,055**	**130**	**11**	**92**
COCONINO COUNTY									
Flagstaff	2,200	8	473	1,719	9	701	99	1	79
Fredonia	4	0	4	0	0	7	1	0	2
Page	93	1	27	65	1	41	15	0	8
Sedona	273	2	66	205	2	104	19	0	13
Williams	148	2	34	112	2	49	6	0	2
State Rural Roads	1,528	32	470	1,026	36	936	94	7	104
Other Rural Roads	353	11	110	232	18	191	35	4	28
TOTAL	**4,599**	**56**	**1,184**	**3,359**	**68**	**2,029**	**269**	**12**	**236**
GILA COUNTY									
Globe	220	1	85	134	1	142	14	0	8
Hayden	1	0	1	0	0	1	0	0	0
Miami	21	0	10	11	0	15	0	0	0
Payson	189	1	69	119	1	107	4	1	1
Winkelman	0	0	0	0	0	0	0	0	0
State Rural Roads	536	13	188	335	14	312	36	2	49
Other Rural Roads	157	0	50	107	0	82	24	0	14
TOTAL	**1,124**	**15**	**403**	**706**	**16**	**659**	**78**	**3**	**72**
GRAHAM COUNTY									
Pima	3	0	1	2	0	1	0	0	0
Safford	70	0	25	45	0	37	7	0	4
Thatcher	50	0	19	31	0	27	4	0	3
State Rural Roads	131	3	56	72	3	100	12	0	7
Other Rural Roads	82	5	33	44	6	55	13	1	8
TOTAL	**336**	**8**	**134**	**194**	**9**	**220**	**36**	**1**	**22**

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	10	0	1	9	0	1	1	0	0
Duncan	1	0	0	1	0	0	0	0	0
State Rural Roads	81	0	38	43	0	46	2	0	3
Other Rural Roads	1	0	0	1	0	0	0	0	0
TOTAL	**93**	**0**	**39**	**54**	**0**	**47**	**3**	**0**	**3**
LA PAZ COUNTY									
Parker	25	0	3	22	0	5	4	0	1
Quartzite	55	0	17	38	0	21	3	0	0
State Rural Roads	371	18	140	213	21	277	28	7	24
Other Rural Roads	56	2	21	33	2	28	10	1	11
TOTAL	**507**	**20**	**181**	**306**	**23**	**331**	**45**	**8**	**36**
MARICOPA COUNTY									
Avondale	702	9	218	475	9	345	40	3	31
Buckeye	128	4	54	70	4	95	7	1	8
Carefree	51	0	16	35	0	22	3	0	1
Cave Creek	81	1	24	56	1	36	10	1	11
Chandler	3,705	9	1,094	2,602	9	1,618	220	4	125
El Mirage	140	0	48	92	0	70	5	0	4
Fountain Hills	154	0	66	88	0	96	9	0	8
Gila Bend	35	1	7	27	1	14	4	1	1
Gilbert	1,756	11	545	1,200	12	878	89	1	65
Glendale	4,589	14	1,613	2,962	14	2,526	247	4	200
Goodyear	426	7	153	266	9	262	36	3	24
Guadalupe	137	0	32	105	0	43	5	0	2
Litchfield Park	55	1	22	32	1	38	4	0	1
Mesa	11,319	36	3,720	7,563	37	5,729	586	6	452
Paradise Valley	250	0	97	153	0	155	13	0	7
Peoria	1,852	5	545	1,302	6	855	87	3	61
Phoenix	42,745	221	16,341	26,183	239	26,947	2,676	78	2,413
Queen Creek	63	0	21	42	0	32	10	0	6
Scottsdale	4,279	19	1,478	2,782	19	2,272	290	7	218
Surprise	409	3	173	233	3	270	24	0	21
Tempe	8,666	15	2,658	5,993	15	3,874	520	6	370
Tolleson	172	0	62	110	0	106	9	0	16
Wickenburg	71	1	20	50	1	28	4	0	3
Youngtown	19	0	7	12	0	9	2	0	3
State Rural Roads	2,174	40	709	1,425	53	1,142	128	6	116
Other Rural Roads	2,720	48	1,039	1,633	60	1,717	198	23	198
TOTAL	**86,698**	**445**	**30,762**	**55,491**	**493**	**49,179**	**5,226**	**147**	**4,365**

COUNTIES Cities	Total	Number of Crashes			No. of Persons		Alcohol-Related		
		Fatal	Injury	Property Damage	Killed	Injured	Crashes	Killed	Injured
MOHAVE COUNTY									
Bullhead City	748	5	213	530	5	317	48	1	32
Colorado City	13	0	4	9	0	4	1	0	0
Kingman	472	3	147	322	3	236	33	0	17
Lake Havasu City	523	3	207	313	3	296	72	1	60
State Rural Roads	804	22	286	496	27	497	74	5	62
Other Rural Roads	270	5	93	172	6	161	27	2	29
TOTAL	**2,830**	**38**	**950**	**1,842**	**44**	**1,511**	**255**	**9**	**200**
NAVAJO COUNTY									
Holbrook	51	1	13	37	1	20	6	0	4
Pinetop-Lakeside	115	0	29	86	0	43	5	0	7
Show Low	164	1	53	110	1	97	9	0	8
Snowflake	55	1	9	45	1	19	4	0	1
Taylor	36	1	9	26	1	11	2	1	0
Winslow	167	1	25	141	1	35	9	0	7
State Rural Roads	607	23	193	391	32	361	40	1	44
Other Rural Roads	231	9	81	141	10	145	23	3	18
TOTAL	**1,426**	**37**	**412**	**977**	**47**	**731**	**98**	**5**	**89**
PIMA COUNTY									
Marana	801	6	206	589	6	317	36	1	35
Oro Valley	307	1	93	213	1	135	15	0	7
Sahuarita	86	0	27	59	0	40	4	0	1
South Tucson	214	1	73	140	1	133	13	0	11
Tucson	15,136	54	5,871	9,211	57	9,193	792	15	664
State Rural Roads	1,096	21	389	686	22	686	71	5	110
Other Rural Roads	3,782	28	1,318	2,436	28	2,066	248	5	246
TOTAL	**21,422**	**111**	**7,977**	**13,334**	**115**	**12,570**	**1,179**	**26**	**1,074**
PINAL COUNTY									
Apache Junction	405	5	144	256	7	206	20	0	15
Casa Grande	730	1	199	530	1	327	56	0	51
Coolidge	47	0	8	39	0	14	5	0	3
Eloy	166	5	51	110	5	88	11	2	8
Florence	38	0	11	27	0	12	2	0	1
Kearny	2	0	1	1	0	1	0	0	0
Mammoth	5	0	1	4	0	1	0	0	0
Superior	14	0	7	7	0	11	1	0	0
State Rural Roads	1,034	29	379	626	32	695	65	3	67
Other Rural Roads	538	16	181	341	17	314	63	5	53
TOTAL	**2,979**	**56**	**982**	**1,941**	**62**	**1,669**	**223**	**10**	**198**

Section 2: Geographic Location

About 60% of Arizona's population resides in Maricopa county, but only 47.6% of all fatal crashes occurred there in 2001.

COUNTIES Cities	Total	Number of Crashes			No. of Persons		Alcohol-Related		
		Fatal	Injury	Property Damage	Killed	Injured	Crashes	Killed	Injured
SANTA CRUZ COUNTY									
Nogales	408	1	115	292	1	162	21	0	10
Rio Rico	0	0	0	0	0	0	0	0	0
State Rural Roads	184	1	58	125	1	93	24	1	16
Other Rural Roads	8	2	4	2	2	10	1	1	1
TOTAL	**600**	**4**	**177**	**419**	**4**	**265**	**46**	**2**	**27**
YAVAPAI COUNTY									
Camp Verde	142	3	44	95	4	60	10	0	10
Chino Valley	77	0	22	55	0	24	3	0	3
Clarkdale	23	0	9	14	0	13	2	0	1
Cottonwood	226	1	75	150	1	128	14	1	10
Jerome	10	0	2	8	0	2	4	0	1
Prescott	933	2	254	677	4	355	58	3	40
Prescott Valley	398	2	100	296	3	155	25	0	9
State Rural Roads	1,349	27	410	912	30	659	79	2	68
Other Rural Roads	440	9	156	275	10	219	54	1	46
TOTAL	**3,598**	**44**	**1,072**	**2,482**	**52**	**1,615**	**249**	**7**	**188**
YUMA COUNTY									
San Luis	28	0	6	22	0	10	2	0	1
Somerton	20	0	2	18	0	2	0	0	0
Wellton	1	0	0	1	0	0	0	0	0
Yuma	1,571	10	672	889	10	1,047	112	2	112
State Rural Roads	321	5	123	193	5	215	13	0	12
Other Rural Roads	514	6	163	345	7	265	35	1	43
TOTAL	**2,455**	**21**	**966**	**1,468**	**22**	**1,539**	**162**	**3**	**168**
STATEWIDE TOTAL	**131,573**	**934**	**46,150**	**84,489**	**1,047**	**73,962**	**8,095**	**258**	**6,886**

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

Figure 2-1
Crash Rate per 100,000 People

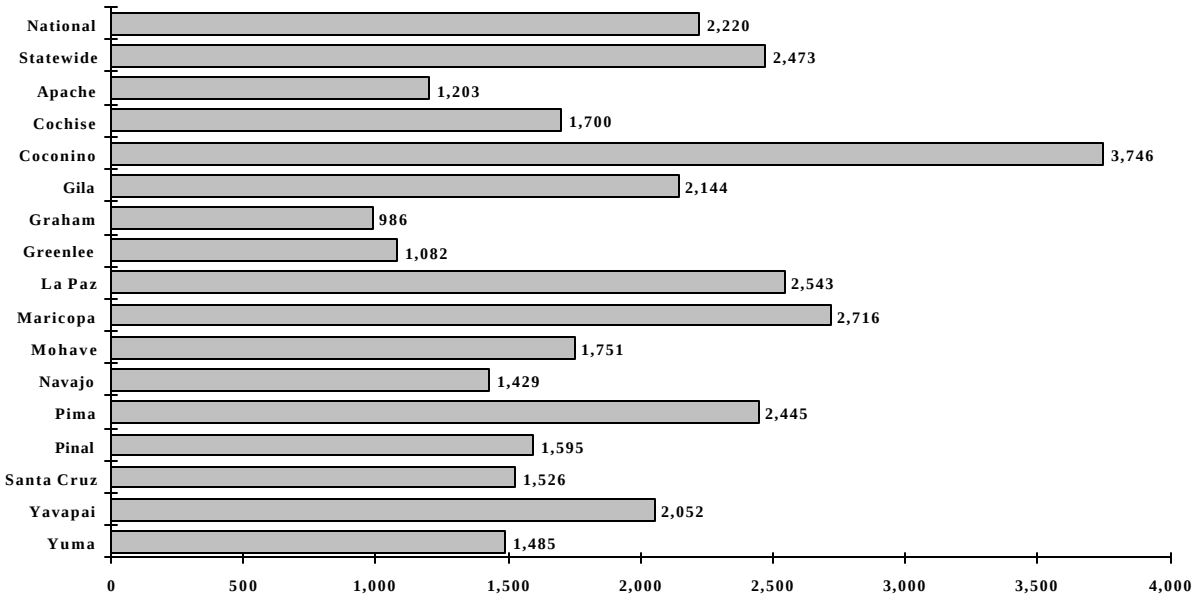


Figure 2-2
Fatality Rate per 100,000 People

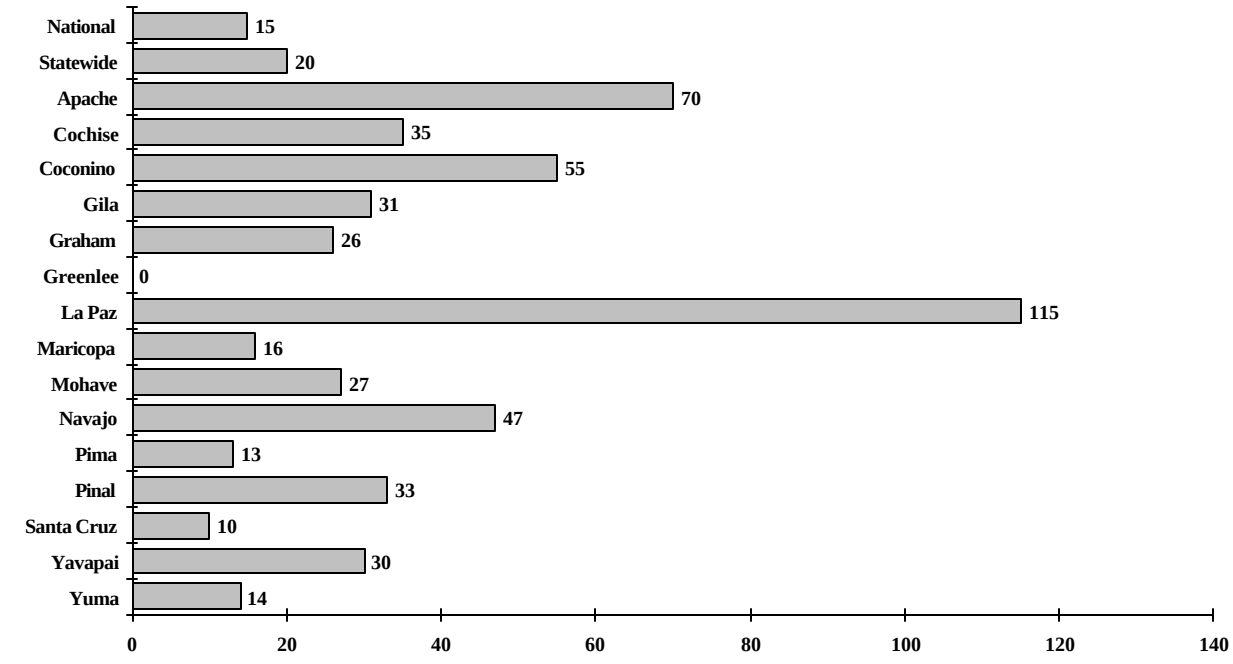


Table 2-6
The State Highway System*

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	364	16	117	231	16	208	53	106	49
SB 8	184	3	87	94	3	144	64	23	57
I 10	6,711	86	1,986	4,639	100	3,285	1,701	1,185	399
SB 10	35	0	11	24	0	20	11	9	0
I 15	89	1	36	52	2	63	29	28	6
I 17	4,645	35	1,452	3,158	36	2,321	1,325	769	227
I 19	531	4	159	368	4	253	102	123	28
SB 19	70	1	29	40	1	49	18	26	5
I 40	1,317	44	408	865	53	705	202	331	172
SB 40	590	5	147	438	6	248	180	58	10
S 51	945	5	252	688	5	361	259	80	22
U 60	3,252	17	1,115	2,120	19	1,755	892	649	214
S 61	24	0	5	19	0	7	0	5	2
S 64	120	1	20	99	2	89	68	17	4
U 64	2	0	1	1	0	1	1	0	0
S 66	42	3	14	25	3	21	3	10	8
S 67	26	0	5	21	0	9	2	6	1
S 68	110	1	37	72	2	57	30	16	11
S 69	389	2	115	272	2	172	103	55	14
U 70	119	4	52	63	5	102	40	41	21
S 71	8	0	4	4	0	5	2	3	0
S 72	13	0	2	11	0	2	0	2	0
S 73	18	2	4	12	2	5	3	1	1
S 74	52	3	20	29	4	43	15	17	11
S 75	10	0	4	6	0	5	1	4	0
S 77	515	4	180	331	5	287	114	126	47
S 78	10	0	3	7	0	3	0	1	2
S 79	85	3	42	40	4	74	24	23	27
SB 79	9	0	4	5	0	4	3	1	0
S 80	167	4	48	115	4	82	21	51	10
S 81	0	0	0	0	0	0	0	0	0
S 82	46	2	16	28	2	24	8	15	1
S 83	46	2	24	20	2	32	6	19	7
S 84	45	2	19	24	2	31	9	18	4
S 85	118	8	42	68	13	90	31	46	13
S 86	197	5	84	108	6	162	77	66	19
S 87	814	12	301	501	18	465	195	186	84
S 88	97	0	42	55	0	48	11	29	8
S 89	318	6	94	218	7	128	49	49	30
SA 89	525	2	162	361	2	257	120	107	30
SL 89	11	0	2	9	0	4	1	3	0
U 89	284	9	80	195	10	189	69	90	30
UA 89	33	1	9	23	1	15	4	9	2
S 90	166	3	60	103	3	105	53	33	19
S 92	202	2	72	128	4	129	62	48	19
U 93	270	8	99	163	8	171	52	75	44

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.

Route	Number of Crashes				Number of Persons				
	Total	Fatals	Injury	Property Damage	Killed	Total Injured	Possible Injury	Non-Incap Injury	Incap Injury
S 95	732	9	268	455	10	434	205	151	78
U 95	202	2	86	114	2	154	50	74	30
S 96	13	0	6	7	0	10	3	3	4
S 97	7	0	5	2	0	6	1	5	0
S 98	21	3	6	12	3	12	2	10	0
S 99	4	0	2	2	0	6	1	0	5
S 101	2,146	12	593	1,541	14	866	465	337	64
S 143	139	0	40	99	0	55	36	17	2
S 153	16	0	6	10	0	9	4	4	1
U 160	149	6	78	65	9	173	114	43	16
U 163	33	1	11	21	1	20	12	8	0
S 169	21	1	3	17	2	5	1	1	3
S 170	14	0	4	10	0	11	11	0	0
S 177	33	0	15	18	0	22	1	11	10
S 179	121	0	21	100	0	29	18	8	3
U 180	174	1	50	123	1	91	54	28	9
S 181	3	0	0	3	0	0	0	0	0
S 186	9	2	2	5	2	3	2	0	1
S 187	1	0	0	1	0	0	0	0	0
S 188	51	2	7	42	2	11	3	4	4
S 189	35	0	20	15	0	31	17	8	6
U 191	263	10	113	140	10	180	94	60	26
UB 191	1	0	0	1	0	0	0	0	0
UX 191	7	0	2	5	0	4	3	1	0
S 202	1,744	2	510	1,232	2	717	442	238	37
S 238	9	0	6	3	0	10	0	6	4
S 260	671	9	192	470	11	312	137	151	24
S 261	1	0	1	0	0	1	0	0	0
S 264	131	11	38	82	11	124	104	14	6
S 266	4	0	2	2	0	2	0	2	0
S 273	6	1	1	4	1	4	1	2	1
S 277	31	0	5	26	0	8	6	2	0
S 280	14	0	4	10	0	10	6	0	4
S 286	15	1	5	9	1	11	2	6	3
S 287	57	0	20	37	0	34	15	6	13
S 288	17	0	8	9	0	12	3	6	3
S 289	8	0	1	7	0	1	0	1	0
S 303	42	1	23	18	1	47	16	21	10
S 347	51	3	22	26	3	39	11	21	7
S 366	9	0	1	8	0	1	0	1	0
S 373	2	0	0	2	0	0	0	0	0
S 377	24	1	9	14	1	18	10	7	1
S 386	1	0	1	0	0	1	0	1	0
S 387	28	0	14	14	0	19	4	9	6
S 389	19	0	9	10	0	16	4	7	5
S 473	0	0	0	0	0	0	0	0	0
S 587	9	1	3	5	1	4	2	2	0
TOTAL	**30,710**	**385**	**9,677**	**20,648**	**444**	**15,752**	**7,872**	**5,835**	**2,045**

* 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

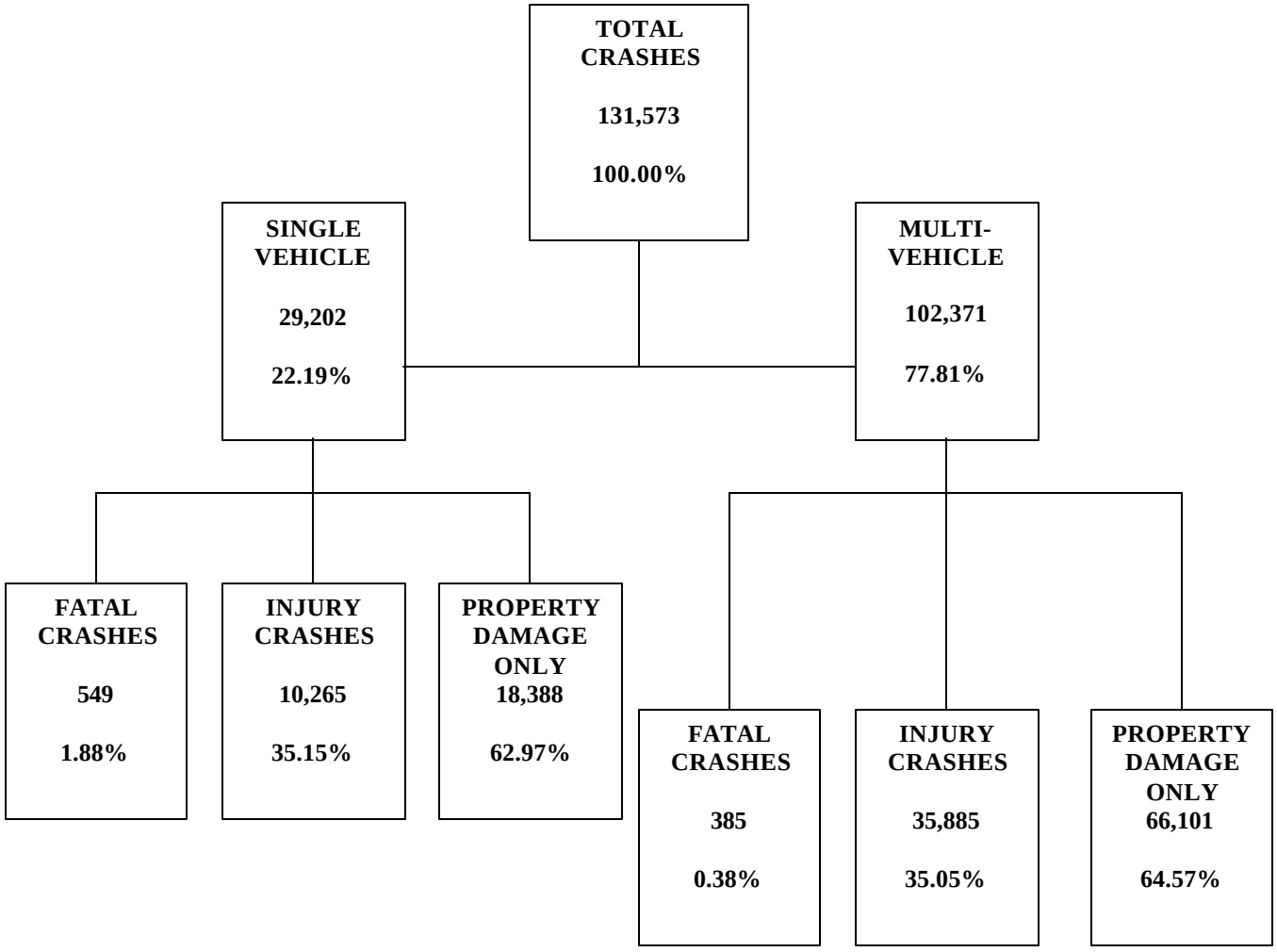


Table 3-1
Manner of Collision in Multi-Vehicle Crashes

Manner of Collision	Total	Percent of All Crashes	Fatal	Percent of Fatal Crashes	Injury	Percent of Injury Crashes
Head On	838	0.82%	82	21.30%	444	1.24%
Rear End	46,760	45.68%	51	13.25%	16,682	46.49%
Side Swipe Opposite Direction	1,037	1.01%%	18	4.68%	313	0.87%
Side Swipe Same Direction	13,134	12.83%	17	4.42%	2,134	5.95%
Left Turn	11,826	11.55%	62	16.10%	5,795	16.15%
Other Angle	21,947	21.44%	116	30.13%	9,095	25.34%
Backed Into	2,198	2.15%	0	0%	167	0.47%
U-Turn	1,486	1.45%	1	0.26%	463	1.29%
Other	3,145	3.07%	38	9.87%	792	2.21%
TOTAL	**102,371**	**100.00%**	**385**	**100.00%**	**35,885**	**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	**125,547**	**895**	**44,179**	**80,473**	**1,005**	**70,808**
Under Construction Thru Traffic Allowed	**3,857**	**16**	**1,229**	**2,612**	**17**	**1,966**
Under Construction Traffic Detoured	**91**	**0**	**37**	**54**	**0**	**55**
Under Repairs	**138**	**1**	**44**	**93**	**1**	**70**
Holes,Ruts,Bumps	**359**	**5**	**139**	**215**	**5**	**209**
Obstruction Protected	**43**	**2**	**15**	**26**	**2**	**23**
Obstruction Unprotected	**120**	**1**	**26**	**93**	**1**	**47**
Obstruction Unlighted at Night	**113**	**2**	**39**	**72**	**2**	**63**
Defective Shoulders	**29**	**0**	**12**	**17**	**0**	**21**
Changing Road Width	**359**	**5**	**120**	**234**	**5**	**201**
Flooded	**452**	**4**	**160**	**288**	**5**	**246**
Temporary Lane Closure	**465**	**3**	**150**	**312**	**4**	**253**
TOTALS	**131,573**	**934**	**46,150**	**84,489**	**1,047**	**73,962**

Section 3: Crash Descriptions

Table 3-3
Weather Conditions

Weather	Number of Crashes				Number of Persons	
	Total	Fatal	Injury	PDO	Killed	Injured
Clear	110,230	740	38,887	70,603	827	62,402
Raining	4,963	24	1,733	3,206	27	2,723
Cloudy	13,514	95	4,741	8,678	111	7,559
Snow,Sleet	2,096	17	587	1,492	17	921
Strong Wind	97	1	19	77	2	28
Blowing Sand	103	0	40	63	0	79
Fog,Smoke,Smog	68	0	19	49	0	26
Not Reported	502	57	124	321	63	224
TOTALS	131,573	934	46,150	84,489	1,047	73,962

Table 3-4
Lighting Conditions

Lighting	Number of Crashes				Number of Persons	
	Total	Fatal	Injury	PDO	Killed	Injured
Daylight	93,543	429	32,558	60,556	476	51,480
Dawn or Dusk	6,887	51	2,418	4,418	57	3,904
Darkness	30,803	447	11,106	19,250	507	18,478
Not Reported	340	7	68	265	7	100
TOTALS	131,573	934	46,150	84,489	1,047	73,962

Table 3-5
Road Surface

Surface	Number of Crashes				Number of Persons	
	Total	Fatal	Injury	PDO	Killed	Injured
Asphalt	116,851	807	41,624	74,420	903	67,154
Concrete	12,251	42	3,755	8,454	50	5,555
Gravel	444	5	136	303	5	201
Dirt	1,458	28	463	967	32	781
Other	127	1	44	82	1	83
Not Reported	442	51	128	263	56	188
TOTALS	131,573	934	46,150	84,489	1,047	73,962

Table 3-6
Road Surface Conditions

Surface	Number of Crashes				Number of Persons	
	Total	Fatal	Injury	PDO	Killed	Injured
Wet	7,492	32	2,517	4,943	35	3,906
Loose Dirt, Sand, Etc.	924	8	302	614	8	507
Snowy or Icy	2,073	14	518	1,541	14	818
Other	120	2	48	70	2	60
Unknown	666	5	165	496	6	250
No Unusual Conditions	120,298	873	42,600	76,825	982	68,421
TOTALS	131,573	934	46,150	84,489	1,047	73,962

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	117,681	700	41,485	75,496	786	66,634
Downgrade	7,238	102	2,488	4,648	118	3,899
Upgrade	5,118	70	1,658	3,390	75	2,603
Hill Crest	440	3	169	268	3	297
Dip	190	3	77	110	3	107
Not Reported	906	56	273	577	62	422
TOTALS	131,573	934	46,150	84,489	1,047	73,962

Figure 3-1
Crashes by Time of Day
Weekdays

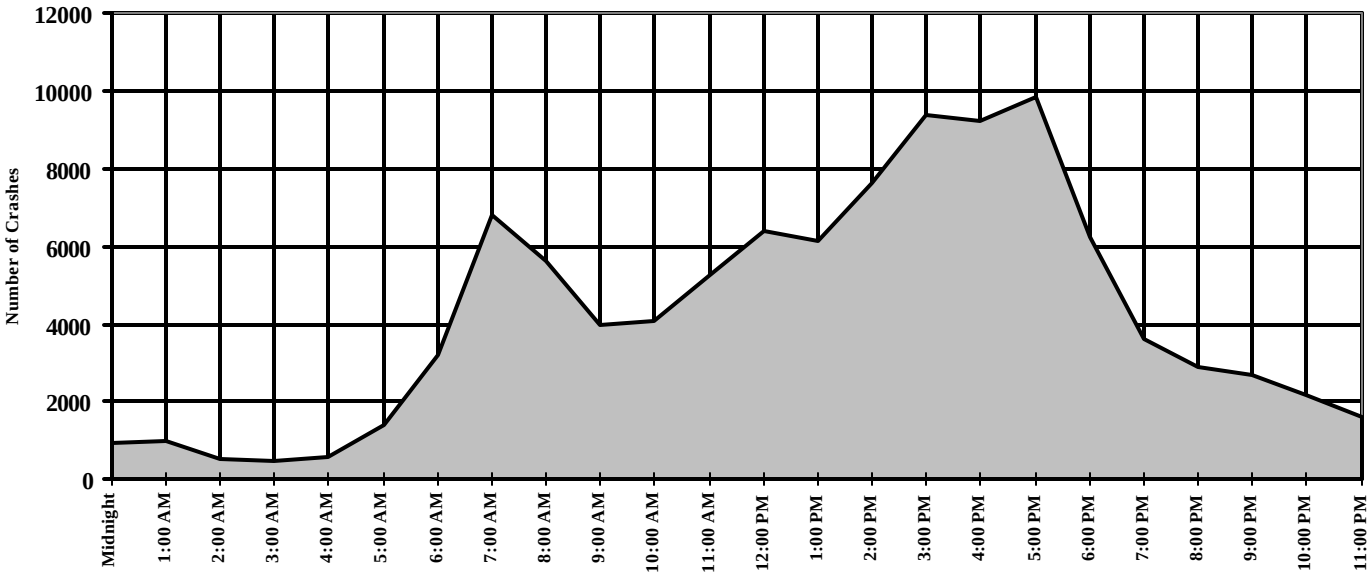


Figure 3-2
Crashes by Time of Day
Weekends

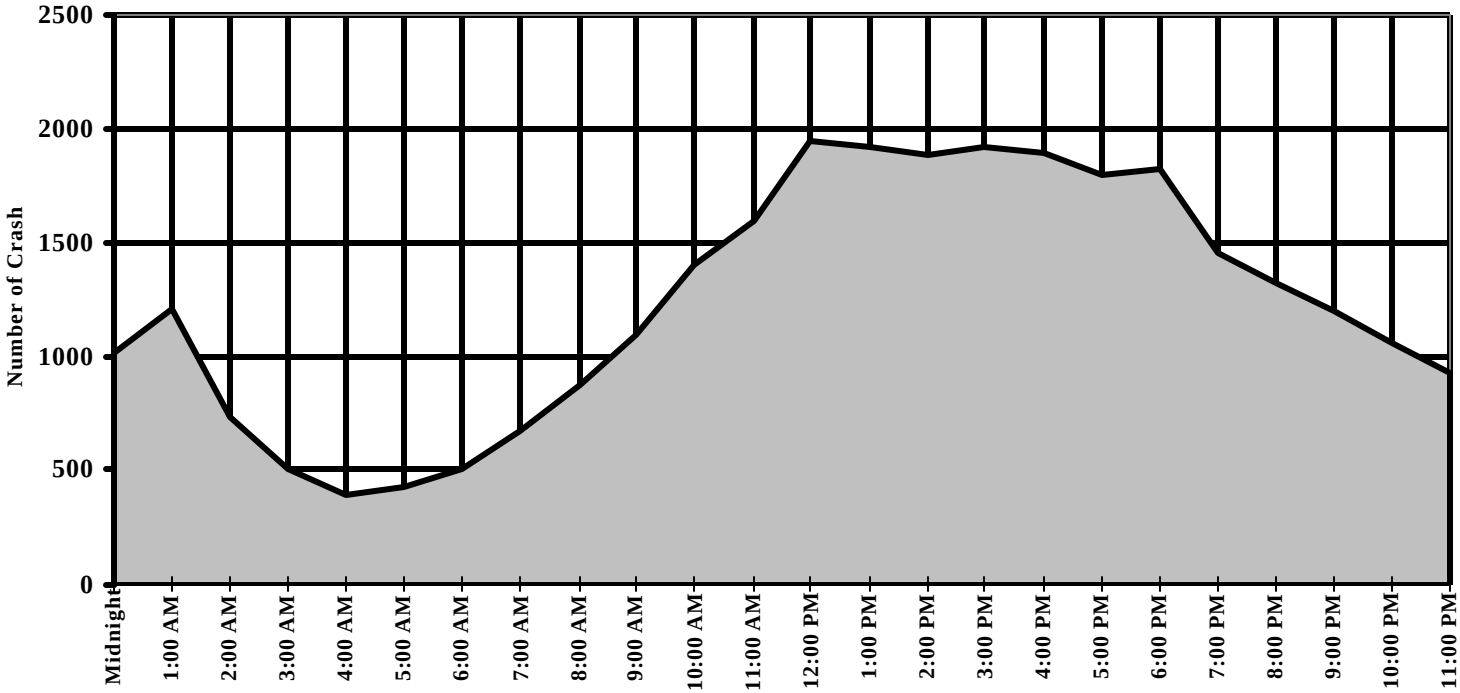


Figure 3-3
Fatal Crashes by Time of Day
Weekdays

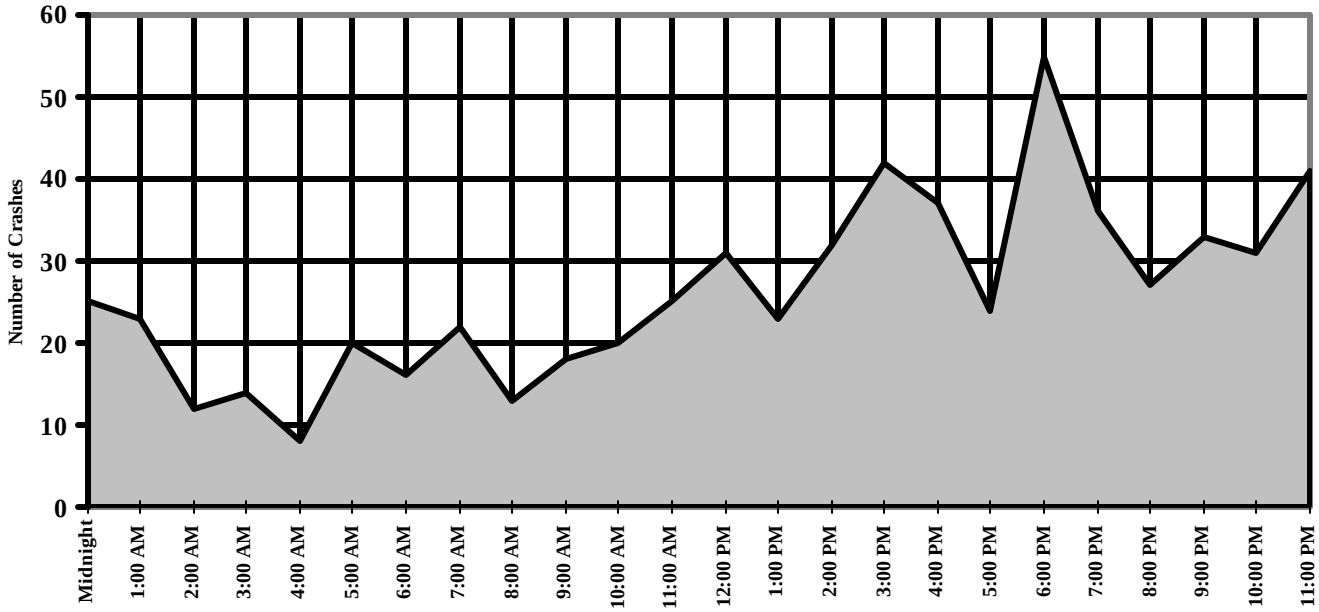


Figure 3-4
Fatal Crashes by Time of Day
Weekends

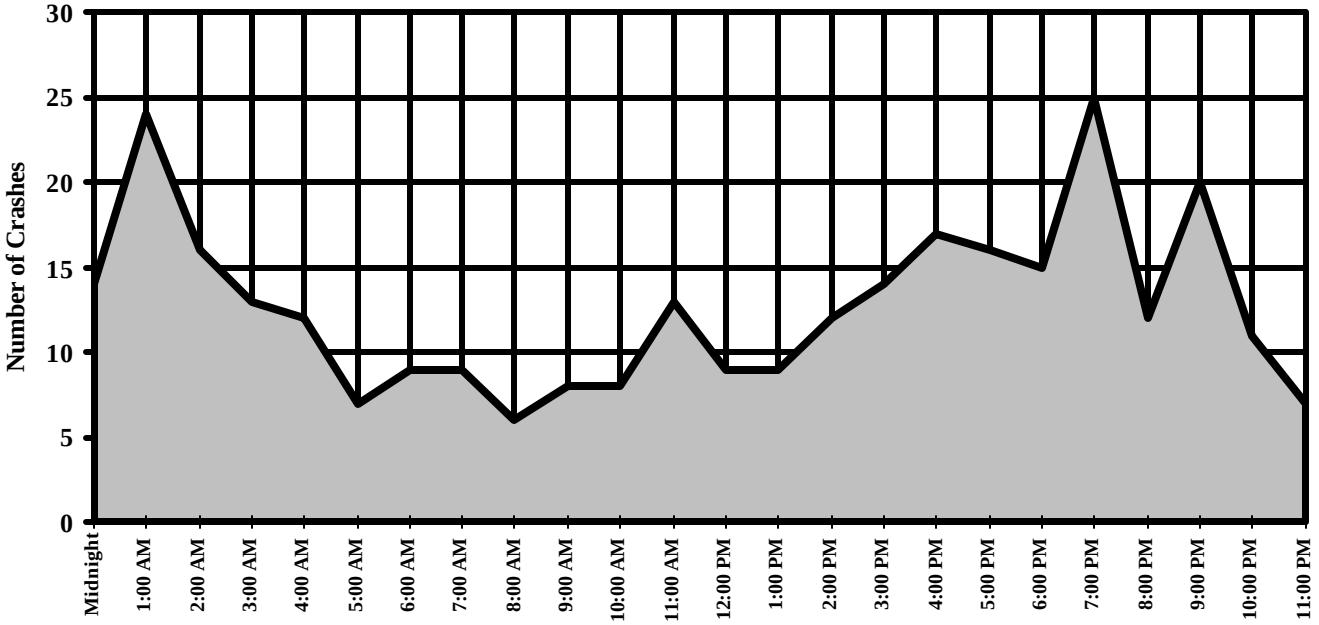


Figure 3-5
Crashes by Day of Week

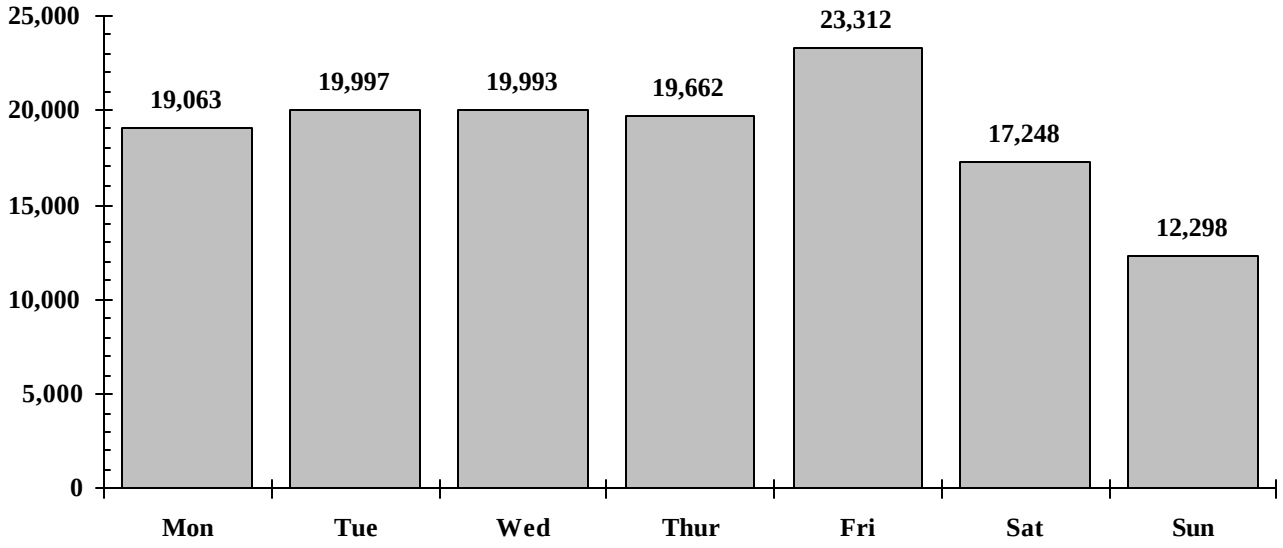


Figure 3-6
Fatal Crashes by Day of Week

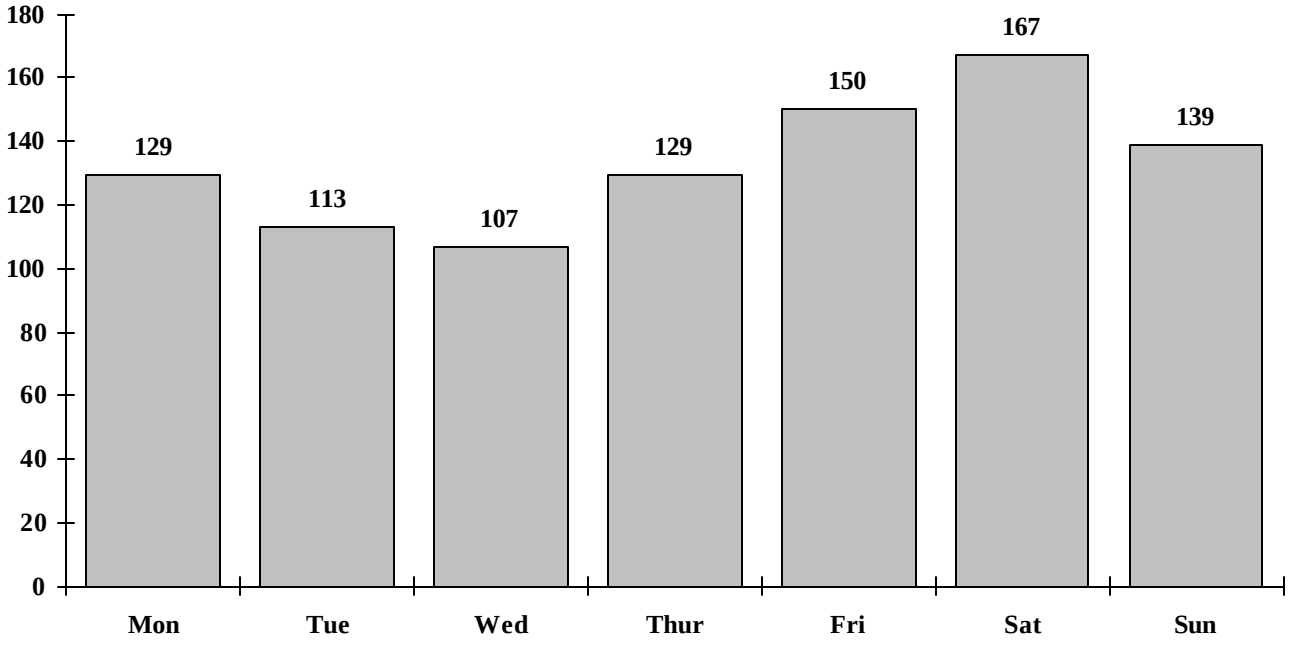


Figure 3-7
Crashes by Month

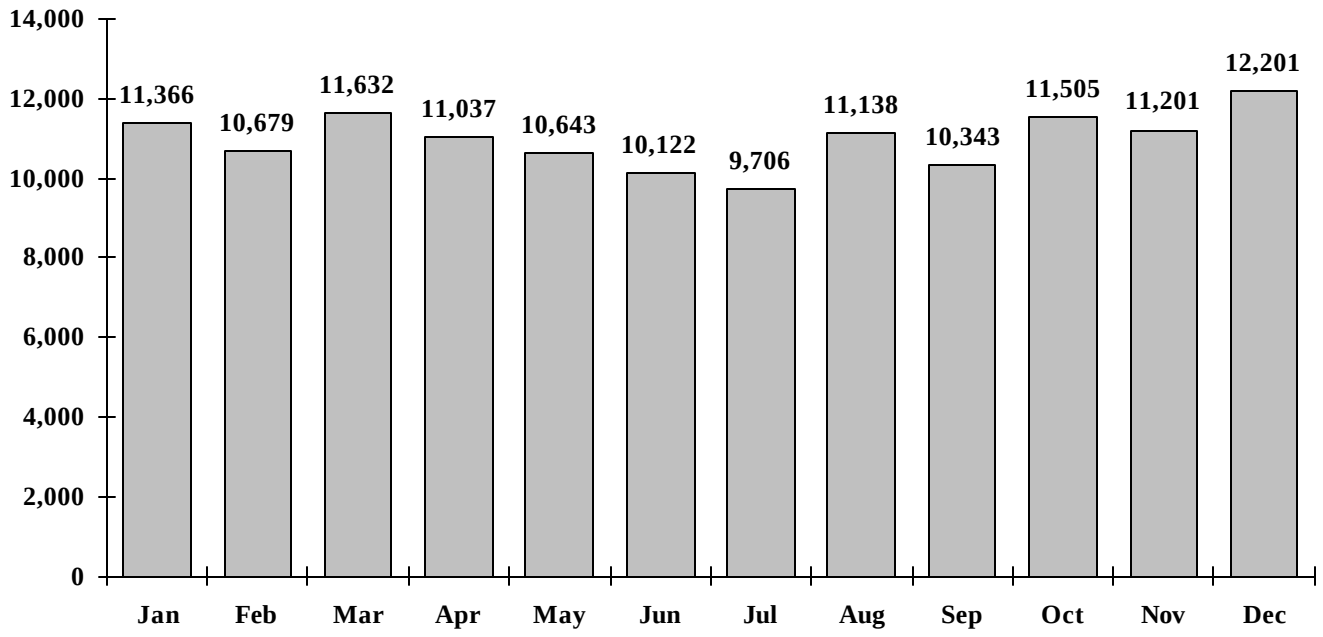


Figure 3-8
Fatal Crashes by Month

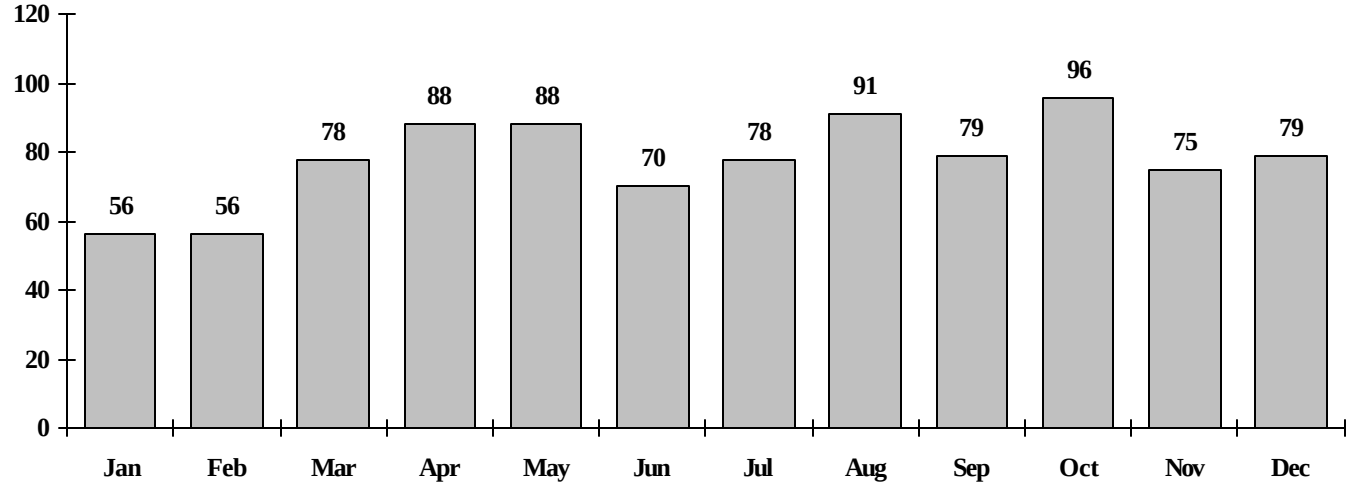
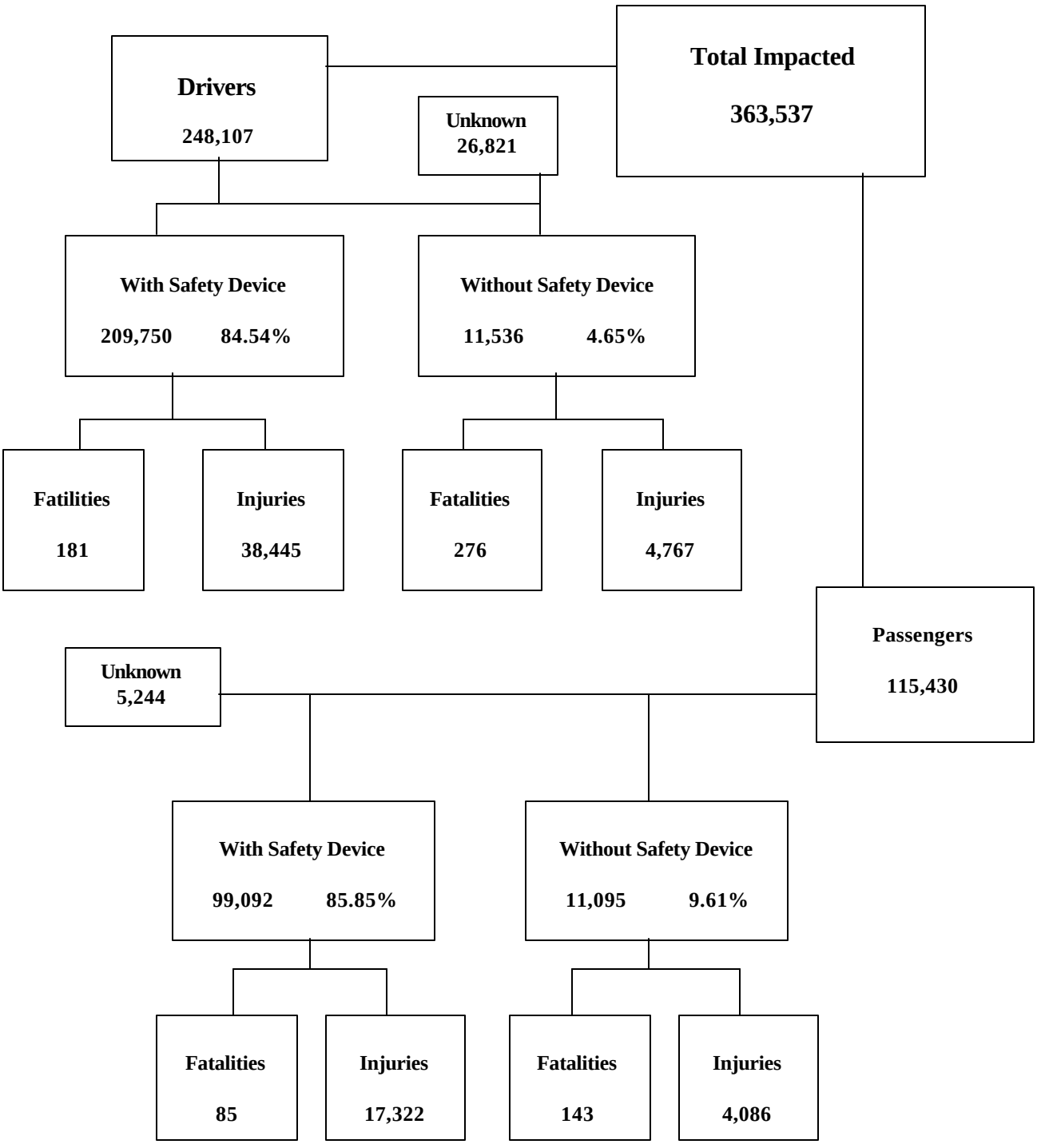


Table 3-9
Crashes by Hour and Day of Week

Hour Beginning	Total Crashes All	Total Crashes Fatal	Monday All	Monday Fatal	Tuesday All	Tuesday Fatal	Wednesday All	Wednesday Fatal	Thursday All	Thursday Fatal	Friday All	Friday Fatal	Saturday All	Saturday Fatal	Sunday All	Sunday Fatal
Midnight	**2,003**	**39**	237	5	135	2	196	3	196	8	226	7	512	9	501	5
1:00	**2,246**	**47**	221	3	141	3	166	4	251	6	261	7	630	17	576	7
2:00	**1,374**	**28**	161	5	99	1	118	1	119	3	138	2	360	8	379	8
3:00	**1,018**	**27**	132	4	85	3	96	3	87	2	111	2	242	7	265	6
4:00	**1,013**	**20**	134	1	110	0	119	1	118	4	141	2	211	7	180	5
5:00	**1,773**	**27**	295	3	226	6	290	2	267	2	274	7	211	3	210	4
6:00	**3,873**	**25**	651	5	726	2	704	1	662	3	626	5	294	3	210	6
7:00	**7,309**	**31**	1,245	2	1,445	8	1,414	6	1,301	2	1,230	4	392	5	282	4
8:00	**6,534**	**19**	1,044	4	1,226	3	1,225	5	1,127	0	1,034	1	573	3	305	3
9:00	**5,014**	**26**	714	3	841	5	848	6	736	1	786	3	712	3	377	5
10:00	**5,623**	**28**	834	3	859	8	791	2	794	6	943	1	882	2	520	6
11:00	**6,987**	**38**	1,059	4	1,050	7	1,018	3	1,017	6	1,252	5	1,017	7	574	6
Noon	**8,296**	**40**	1,180	10	1,281	3	1,252	1	1,185	6	1,455	11	1,202	4	741	5
1:00	**8,086**	**32**	1,201	6	1,214	3	1,175	2	1,141	7	1,439	5	1,147	5	769	4
2:00	**9,437**	**44**	1,460	6	1,480	9	1,458	3	1,420	7	1,732	7	1,138	6	749	6
3:00	**11,267**	**56**	1,714	10	1,862	10	1,786	7	1,840	7	2,149	8	1,146	8	770	6
4:00	**11,450**	**54**	1,717	10	1,878	4	1,901	5	1,808	8	2,253	10	1,051	8	842	9
5:00	**11,219**	**40**	1,754	5	1,901	4	1,834	8	1,909	4	2,021	3	1,005	10	795	6
6:00	**8,209**	**70**	1,138	15	1,173	9	1,245	9	1,267	9	1,564	13	1,016	11	806	4
7:00	**5,019**	**61**	608	6	654	8	685	10	705	5	918	7	811	12	638	13
8:00	**4,343**	**39**	515	5	582	4	588	5	567	8	770	5	724	6	597	6
9:00	**3,807**	**53**	483	3	442	4	495	7	482	7	706	12	679	11	520	9
10:00	**3,211**	**42**	331	6	350	2	362	7	381	6	731	10	659	7	397	4
11:00	**2,462**	**48**	235	5	237	5	227	6	282	12	552	13	634	5	295	2
Not Reported																
TOTALS	**131,573**	**934**	**19,063**	**129**	**19,997**	**113**	**19,993**	**107**	**19,662**	**129**	**23,312**	**150**	**17,248**	**167**	**12,298**	**139**

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	11,826	89.12%	643	69.97%	352	72.57%
Possible injury	895	6.74%	114	12.40%	38	7.84%
Injury	429	3.23%	146	15.89%	41	8.45%
Fatality	4	0.03%	11	1.20%	3	0.62%
Unknown	116	0.87%	5	0.54%	51	10.52%
Totals	**13,270**	**100.00%**	**919**	**100.00%**	**485**	**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 in Use	Percent of Restraint Used	No Restraint Used	Percent of No Restraint	Not Reported	Percent of Unknown
No injury	169,395	80.76%	6,327	54.85%	9,355	34.88%
Possible injury	23,448	11.18%	1,522	13.19%	1,274	4.75%
Injury	14,997	7.15%	3,245	28.13%	1,892	7.05%
Fatality	181	0.09%	276	2.39%	73	0.27%
Unknown	1,729	0.82%	166	1.44%	14,227	53.04%
Total	**209,750**	**100.00%**	**11,536**	**100.00%**	**26,821**	**100.00%**

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

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	Not Reported	Percent of Unknown
No injury	46,387	79.25%	3,034	55.10%	1,894	65.83%
Possible injury	7,214	12.32%	881	16.00%	292	10.15%
Injury	4,561	7.79%	1,466	26.63%	451	15.68%
Fatality	68	0.12%	84	1.53%	22	0.76%
Unknown	300	0.52%	41	0.74%	218	7.58%
Total	**58,530**	**100.00%**	**5,506**	**100.00%**	**2,877**	**100.00%**

According to NHTSA,"Safety belts, when used, reduce the risk of fatal injury to front seat passenger car occupants by 45%, and the risk of moderate –to- critical injury by 50 %."

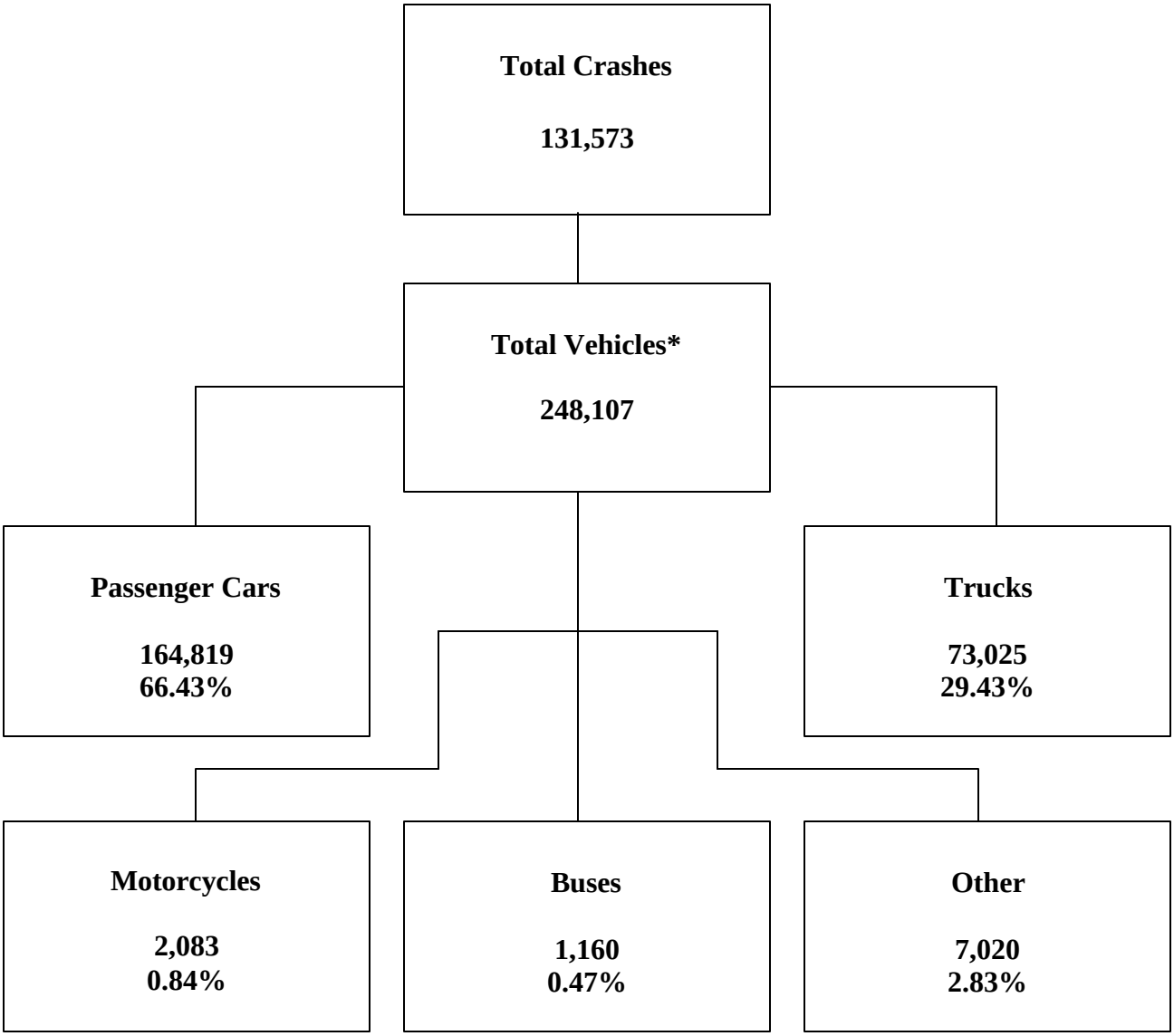
NHTSA surveys show that in 2001, nationwide seatbelt usage increased to 75%.

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	22,911	83.95%	3,121	66.85%	1,346	72.37%
Possible injury	2,792	10.22%	656	14.05%	202	10.86%
Injury	1,431	5.24%	823	17.62%	229	12.31%
Fatality	13	0.05%	48	1.03%	9	0.48%
Unknown	145	0.53%	21	0.45%	74	3.98%
Total	**27,292**	**100.00%**	**4,669**	**100.00%**	**1,860**	**100.00%**

The most significant increases in usage were in Vans and SUVs.

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	3,500,543
Commercial Vehicles	423,200
Buses and Taxis	3,507
Motorcycles*	190,087
Mopeds	390
Total	**4,117,727**

*Includes 3 & 4 wheel ATVs and golf carts.

Data provided by, and inquiries should be directed to, Motor Vehicles Division.

Table 5-2
Motor Vehicle Crash Involvement by Vehicle Type

Motor Vehicle Type	Total	Percent	Fatal	Injury	PDOs
Passenger Car (Includes cars with trailer)	164,819	66.43%	784	61,730	102,305
Pickup Truck (Incl. Panel & Mini Bus)	66,190	26.68%	399	22,868	42,923
Pickup Truck With Camper	40	0.02%	2	16	22
Other Vehicle With Camper	11	0.00%	0	3	8
Truck or Truck Tractor (Excl. P/U)	108	0.04%	0	29	79
Truck Tractor and Semi-Trailer	3,857	1.55%	67	943	2,847
Other Truck Combination	2,819	1.18%	18	804	1,997
Farm Tractor and/or Farm Equipment	32	0.01%	0	11	21
Taxicab	38	0.02%	0	12	26
Bus	731	0.29%	3	211	517
School Bus	429	0.17%	2	100	327
Motorcycle	2,083	0.84%	78	1,666	339
Motor Scooter or Motor Bicycle	6	0.00%	0	5	1
Moped	8	0.00%	0	7	1
Recreational Vehicle	332	0.13%	3	133	196
Motor Home or House Car	381	0.15%	3	88	290
Vehicle With Special Controls (Dual, Etc.)	0	0.00%	0	0	0
Emergency Veh. (Inc. Privately Owned)	149	0.06%	2	48	99
Military Vehicles	3	0.00%	0	0	3
Other Types Of Vehicles	202	0.08%	1	81	120
Vehicle Type Unknown	5,869	2.37%	70	1,253	4,546
TOTALS	**248,107**	**100.00%**	**1,432**	**90,008**	**156,667**

Table 5-3
Hit and Run Drivers

	Number of Crashes				Number of Persons	
Hit And Run?	**Total**	**Fatal**	**Injury**	**PDOs**	**Killed**	**Injured**
Yes	15,220	58	3,719	11,443	60	5,273
No	116,353	876	42,431	73,046	987	68,689
TOTALS	**131,573**	**934**	**46,150**	**84,489**	**1,047**	**73,962**

Table 5-4
Gender of Drivers Involved in Crashes

Gender of Driver	Total	Percent	Fatal	Percent	Injury	Percent
Male	144,925	58.41%	1,012	70.67%	51,727	57.47%
Female	92,833	37.42%	353	24.65%	36,337	40.37%
Not Reported	10,349	4.17%	67	4.68%	1,944	2.16%
TOTALS	**248,107**	**100.00%**	**1,432**	**100.00%**	**90,008**	**100.00%**

Table 5-5
Residence of Drivers Involved in Crashes

Residence of Driver	Total	Percent	Fatal	Percent	Injury	Percent	PDOs	Percent
Arizona	200,809	80.94%	1,031	72.00%	74,535	82.81%	125,243	79.94%
Non-Resident	38,712	15.60%	320	22.35%	12,371	13.74%	26,021	16.61%
Not Reported	8,586	3.46%	81	5.65%	3,102	3.45%	5,403	3.45%
TOTALS	**248,107**	**100.00%**	**1,432**	**100.00%**	**90,008**	**100.00%**	**156,667**	**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)	304	33,779	212	17,658
Pickup Truck (Incl. Panel & Mini Bus)	123	10,139	86	5,757
Pickup Truck With Camper	0	9	0	11
Other Vehicle With Camper	0	2	0	0
Truck or Truck Tractor (Excl. P/U)	0	10	0	2
Truck Tractor and Semi-Trailer	5	219	2	57
Other Truck Combination	4	212	2	88
Farm Tractor and/or Farm Equipment	0	6	0	0
Taxicab	0	4	0	4
Bus	0	38	0	240
School Bus	0	22	0	128
Motorcycle	70	1,606	5	196
Motor Scooter or Motor Bicycle	0	5	0	1
Moped	0	7	0	1
Recreational Vehicle	1	78	0	44
Motor Home or House Car	0	30	0	26
Vehicle With Special Controls (Dual, Etc.)	0	0	0	0
Emergency Veh. (Inc. Privately Owned)	0	23	0	19
Military Vehicles	0	0	0	0
Other Types Of Vehicles	0	45	0	10
Vehicle Type Not Reported	23	144	15	104
TOTALS	**530**	**46,378**	**322**	**24,346**

Table 5-7
Licensed Drivers in Arizona by Age

Driver Age Group	Male Number	Percent	Female Number	Percent	Total Number	Percent	Cumulative Percent
16	10,211	0.57%	9,371	0.54%	19,582	0.55%	0.55%
17	17,399	0.97%	15,591	0.89%	32,990	0.93%	1.48%
18	23,311	1.29%	20,721	1.18%	44,032	1.24%	2.72%
19	25,939	1.44%	23,271	1.33%	49,210	1.39%	4.11%
20	27,531	1.53%	25,335	1.45%	52,866	1.49%	5.60%
21	29,191	1.62%	26,307	1.50%	55,498	1.56%	7.16%
22	29,789	1.65%	27,223	1.56%	57,012	1.61%	8.77%
23	31,446	1.75%	28,303	1.62%	59,749	1.68%	10.45%
24	32,193	1.79%	29,408	1.68%	61,601	1.72%	12.17%
25-34	357,743	19.87%	325,735	18.61%	683,478	19.25%	31.42%
35-44	389,969	21.66%	379,851	21.70%	769,820	21.68%	53.10%
45-54	341,626	18.98%	345,195	19.72%	686,821	19.34%	72.44%
55-64	222,617	12.37%	226,812	12.96%	449,429	12.66%	85.10%
65-74	151,446	8.41%	151,617	8.66%	303,063	8.54%	93.64%
75 & Older	109,785	6.10%	115,830	6.62%	225,615	6.35%	100.00%
TOTALS	**1,800,196**	**100.00%**	**1,750,570**	**100.00%**	**3,550,766**	**100.00%**	**100.00%**

Includes 32,524 graduated licenses for ages 16 to 18. Source, Motor Vehicle Division.

Young drivers are involved in fatal traffic crashes at over twice the rate as the rest of the population.

Table 5-8
Driver Involvement by Age

Driver Age Group	Total	Percent	Fatal	Percent	Injury	Percent	PDOs	Percent
15 & Younger	846	0.34%	15	1.05%	343	0.38%	488	0.31%
16	4,961	2.00%	13	0.91%	1,818	2.02%	3,130	2.00%
17	6,524	2.63%	24	1.68%	2,445	2.72%	4,055	2.59%
18	8,584	3.46%	45	3.14%	3,201	3.56%	5,338	3.41%
19	8,488	3.42%	46	3.21%	3,155	3.51%	5,287	3.37%
20	7,770	3.13%	51	3.56%	2,919	3.24%	4,800	3.06%
21	7,578	3.05%	36	2.51%	2,802	3.11%	4,740	3.03%
22	6,864	2.77%	48	3.35%	2,609	2.90%	4,207	2.69%
23	6,319	2.55%	44	3.07%	2,352	2.61%	3,923	2.50%
24	6,089	2.45%	31	2.16%	2,246	2.50%	3,812	2.43%
25-34	52,199	21.04%	326	22.77%	19,362	21.51%	32,511	20.75%
35-44	44,275	17.85%	269	18.78%	16,475	18.30%	27,531	17.57%
45-54	31,592	12.73%	171	11.94%	11,699	13.00%	19,722	12.59%
55-64	17,251	6.95%	103	7.19%	6,338	7.04%	10,810	6.90%
65-74	9,903	3.99%	67	4.68%	3,663	4.07%	6,173	3.94%
75 & Older	7,426	2.99%	58	4.05%	2,783	3.09%	4,585	2.93%
Not Reported	21,438	8.64%	85	5.94%	5,798	6.44%	15,555	9.93%
TOTALS	**248,107**	**100.00%**	**1,432**	**100.00%**	**90,008**	**100.00%**	**156,667**	**100.00%**

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	1,319	0.53%	77	5.38%	621	0.69%	621	0.40%
Speeding *	47,472	19.13%	308	21.51%	17,799	19.77%	29,365	18.74%
Failed to Yield	26,142	10.54%	88	6.15%	10,823	12.02%	15,231	9.72%
Ran Stop Sign	1,472	0.59%	26	1.82%	748	0.83%	698	0.45%
Disregarded Signal	5,233	2.11%	40	2.79%	2,878	3.20%	2,315	1.48%
Opposing Lane	1,344	0.54%	64	4.47%	545	0.61%	735	0.47%
Followed too Closely	4,551	1.83%	1	0.07%	1,386	1.54%	3,164	2.02%
Improper Turn	4,092	1.65%	8	0.56%	1,036	1.15%	3,048	1.95%
Driver Inattention	12,705	5.12%	45	3.14%	3,661	4.07%	8,999	5.74%
Other Improper Driving	6,820	2.75%	47	3.28%	1,912	2.12%	4,861	3.10%
Faulty Equipment	297	0.12%	2	0.14%	93	0.10%	202	0.13%
Unsafe Lane Change	6,348	2.56%	9	0.63%	1,059	1.18%	5,280	3.37%
Unsafe Passing	1,105	0.45%	11	0.77%	223	0.25%	871	0.56%
No Improper Driving	114,956	46.33%	542	37.85%	43,266	48.07%	71,148	45.41%
Not stated	14,251	5.74%	164	11.45%	3,958	4.40%	10,129	6.47%
TOTALS	**248,107**	**100.00 %**	**1,432**	**100.00%**	**90,008**	**100.00%**	**156,667**	**100.00%**

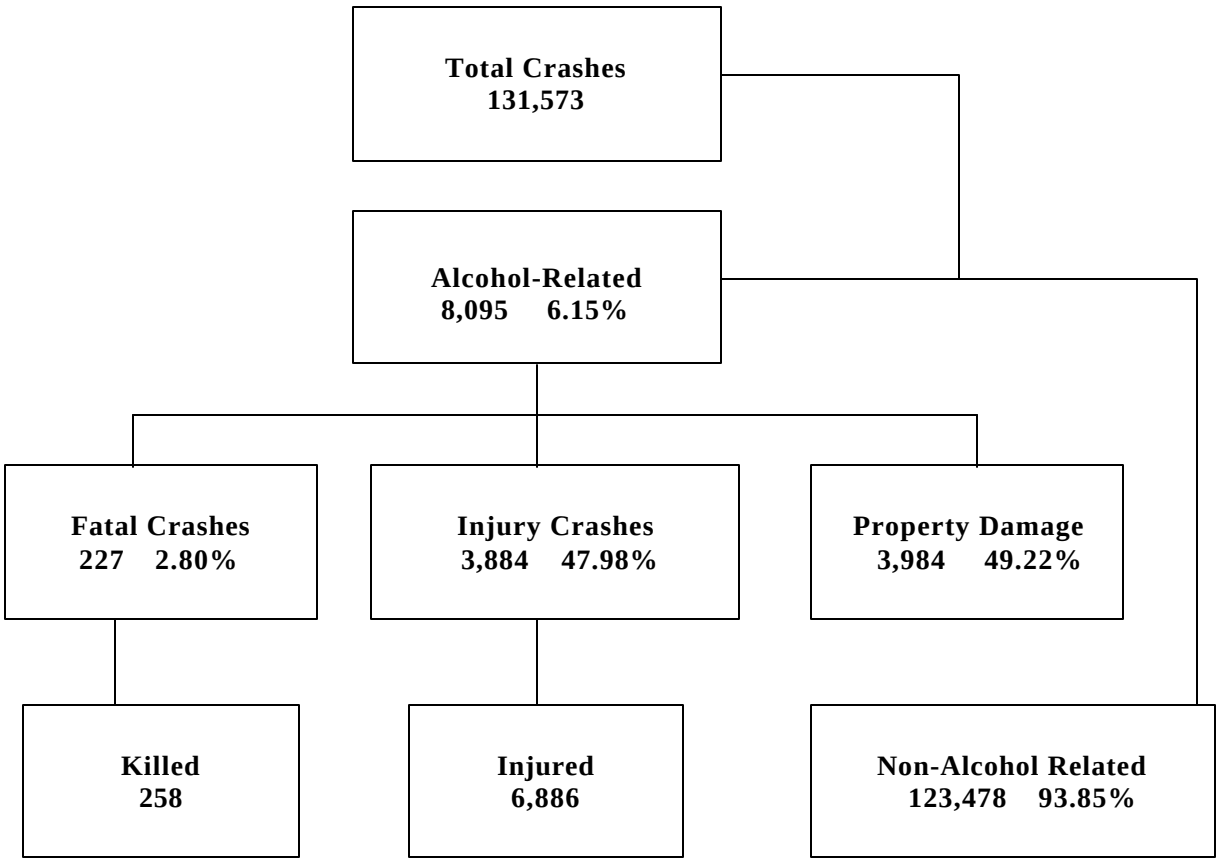
*** Speeding too fast for conditions**

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	213,468	86.04%	785	54.82%	77,937	86.59%	134,746	86.01%
Impaired Had Been Drinking	8,228	3.32%	236	16.48%	3,959	4.40%	4,033	2.57%
Other Physical Impairment	398	0.16%	10	0.70%	177	0.20%	211	0.13%
Ill, Ability Influenced	392	0.16%	3	0.21%	221	0.25%	168	0.11%
Sleepy, Fatigued	1,598	0.64%	30	2.09%	753	0.84%	815	0.52%
Under Influence Of Drugs*	1,121	0.45%	39	2.72%	445	0.49%	637	0.41%
Not Reported/Unknown	22,902	9.23%	329	22.98%	6,516	7.24%	16,057	10.25%
TOTALS	**248,107**	**100.00%**	**1,432**	**100.0%**	**90,008**	**100.0%**	**156,667**	**100.00%**

*Narcotic or Prescription

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 2001

Fatalities	**$268,320,000.**
Injuries	**$136,902,600.**
Property Damage	**$ 25,896,000.**
Total	**$431,118,600**

Table 6-1
1995 to 2000 - Alcohol-Related Crashes

Year	Alcohol-Related Crashes	Percent of all Crashes	Victims Killed	Percent of all Fatalities
1996	7,748	6.86%	272	27.34%
1997	7,348	6.44%	249	26.24%
1998	7,610	6.33%	268	27.35%
1999	7,756	6.16%	267	26.07%
2000	8,048	6.13%	266	25.67%
2001	8,095	6.15%	258	24.64%

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	3,566	43.34%	1,622	39.57%	122	51.69%
Head On	182	2.21%	139	3.39%	28	11.86%
Rear End	2,041	24.81%	1,039	25.34%	16	6.78%
Sideswipe Opposite Direction	164	1.99%	74	1.81%	6	2.54%
Sideswipe Same Direction	423	5.14%	131	3.20%	7	2.97%
Left Turn	553	6.72%	364	8.88%	15	6.35%
Other Angle	980	11.91%	596	14.54%	37	15.68%
Backing Into	56	0.68%	2	0.05%	0	0.0%
U Turn	53	0.64%	33	0.81%	0	0.0%
Other	210	2.55%	99	2.42%	5	2.12%
TOTALS	**8,228**	100.00%	**4,099**	100.00%	**236**	100.00%

Table 6-3
Alcohol-Related Crashes by First Harmful Event/

First Harmful Event	Number of Crashes				Number of Persons	
	Total	Fatal	Injury	PDO	Killed	Injured
Overturning	458	62	295	101	67	504
Pedestrian	53	10	42	1	10	60
Motor Veh. In Transit	4,426	102	2,257	2,067	125	4,653
Motor Veh. Other Roadway	2	1	1	0	1	2
Pedalcylist	27	5	21	1	5	24
Animal	12	0	4	8	0	4
Fixed Object	2,347	34	982	1,331	37	1,292
Other Object	477	5	132	340	5	154
Miscellaneouus	293	8	150	135	8	193
TOTALS	**8,095**	**227**	**3,884**	**3,984**	**258**	**6,886**

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	5,585	67.88%	140	2,669	2,776
Motor Home or House Car	9	0.11%	0	4	5
Pickup Truck (Incl. Panel & Mini Bus)	2,364	28.73%	68	1,107	1,189
Truck Tractor and Semi-Trailer	8	0.10%	0	4	4
Other Truck Combination	16	0.19%	1	9	4
RV (all wheel drive, dune buggy)	18	0.22%	0	9	9
Farm Tractor and/or Farm Equipment	0	0%	0	0	0
Taxicab	0	0%	0	0	0
Bus	2	0.02%	0	0	2
School Bus	1	0.01%	0	0	1
Motorcycle	160	1.94%	20	132	8
Motor Scooter or Motor Bicycle	0	0%	0	0	0
Other Special Vehicles	12	0.15%	0	8	6
Vehicle Type Not Reported	53	0.64%	7	17	29
TOTALS	**8,228**	100.00%	**236**	**3,959**	**4,033**

Table 6-5
Light Conditions - Alcohol-Related Crashes

Light Condition	Number of Crashes			
	Total	Fatal	Injury	PDO
Daylight	2,234	40	1,078	1,116
Dawn or Dusk	366	13	182	171
Darkness	5,480	171	2,621	2,688
Not Reported	15	3	3	9
TOTALS	**8,095**	**227**	**3,884**	**3,984**

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

	Number of Crashes			
	Total	Fatal	Injury	PDO
Dry	7,446	214	3,591	3,641
Wet	438	6	206	226
Snowy or Icy	66	1	27	38
Other	101	4	44	53
Not Reported	44	2	16	26
TOTALS	**8,095**	**227**	**3,884**	**3,984**

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	23	0.28%	2	0.85%	14	0.35%
16	47	0.57%	2	0.85%	22	0.56%
17	111	1.35%	3	1.27%	42	1.06%
18	246	2.99%	8	3.39%	122	3.08%
19	287	3.49%	10	4.24%	129	3.26%
20	317	3.85%	7	2.97%	164	4.14%
21	440	5.35%	16	6.78%	199	5.03%
22	401	4.87%	14	5.93%	194	4.90%
23	349	4.24%	12	5.08%	172	4.34%
24	328	4.00%	9	3.81%	142	3.59%
25-34	2,258	27.44%	70	29.66%	1,088	27.48%
35-44	1,673	20.33%	44	18.64%	815	20.59%
45-54	881	10.70%	22	9.32%	456	11.52%
55-64	304	3.69%	7	2.97%	127	3.21%
65-74	135	1.64%	0	0%	70	1.77%
75 & Older	73	0.89%	3	1.27%	39	0.99%
Not Reported	355	4.31%	7	2.97%	164	4.14%
TOTALS	**8,228**	100.00%	**236**	100.00%	**3,959**	100.00%

In total crashes across the state, 58.5% of the drivers were males. When alcohol was involved, males accounted for 81% 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	6,663	80.98%	196	83.05%	3,229	81.56%
Female	1,484	18.04%	36	15.25%	704	17.78%
Not Reported	81	0.98%	4	1.70%	26	0.66%
TOTALS	**8,228**	100.00%	**236**	100.00%	**3,959**	100.00%

Table 6-9
Safety Restraints - Drinking Drivers

Drivers	Number of Drinking Drivers				
	No Injury	Possible Injury	Non-Incapacitating Injury	Incapacitating Injury	Fatal
Restraint Used	3,743	412	556	176	19
No restraint Used	681	204	393	278	89
Restraint Use Unknown	1,314	198	304	146	17
TOTALS	5,738	814	1,253	600	125

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	3	2	1	147	65	82	0
5 - 9	1	1	0	145	74	71	0
10 - 14	1	1	0	210	86	124	0
15 - 19	41	29	12	907	530	374	3
20 - 24	46	39	7	1,372	966	404	2
25 - 34	76	64	12	1,607	1,125	482	0
35 - 44	50	35	15	1,128	717	411	0
45 - 54	19	13	6	659	419	239	1
55 - 64	11	6	5	240	148	92	0
65 - 74	3	0	3	145	76	69	0
75 & Older	3	3	0	46	35	11	0
Not Reported	4	4	0	280	176	103	1
TOTALS	**258**	**197**	**61**	**6,886**	**4,417**	**2,462**	**7**

Table 6-11
When Alcohol-Related Crashes Occurred in 2001

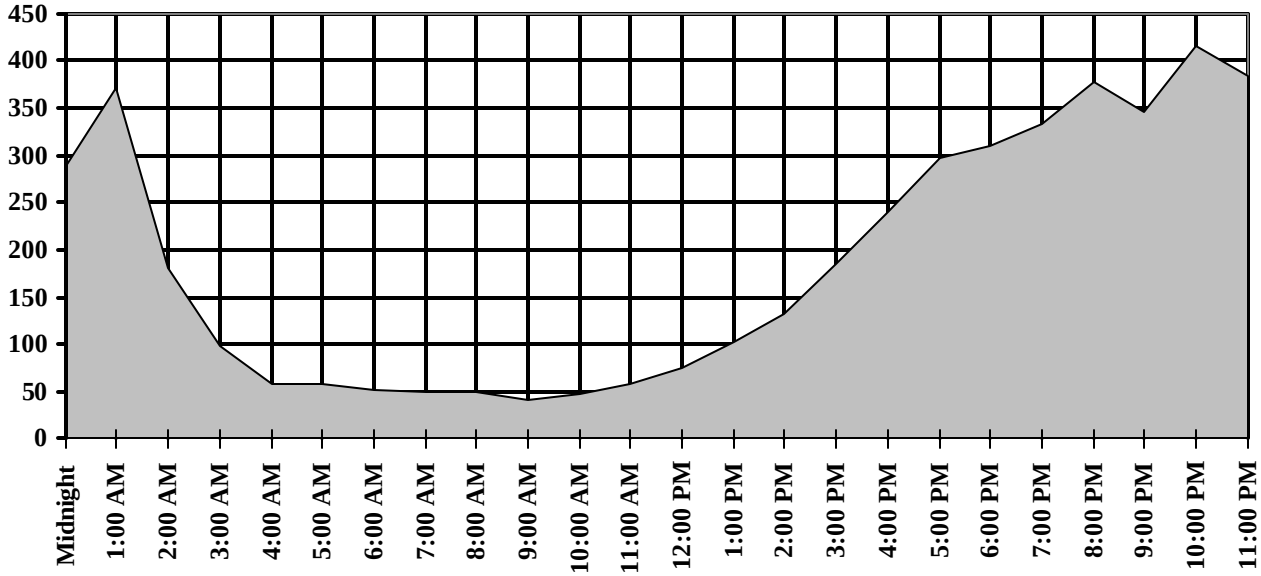
	Total	Weekday**	Weekend
Daytime* **	**2,102**	**1,325**	**777**
Nighttime	**5,993**	**2,247**	**3,746**
Total	**8,095**	**3,572**	**4,523**

**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.

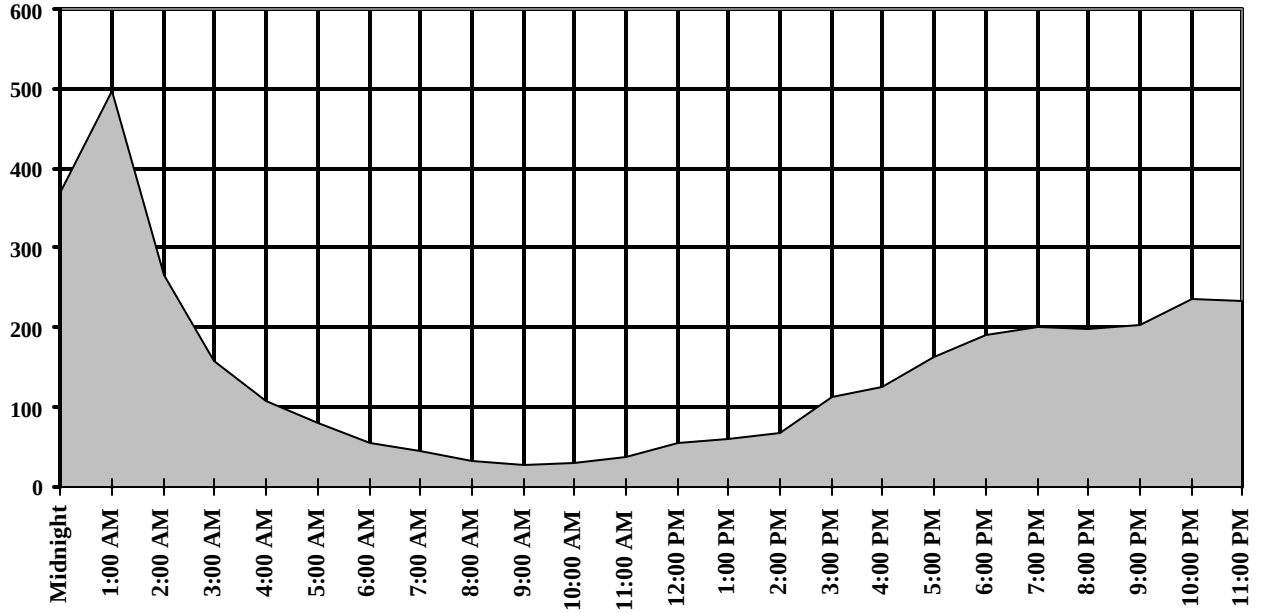
***Daytime refers to the hours between 6:00 a.m. and 6:00 p.m.

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

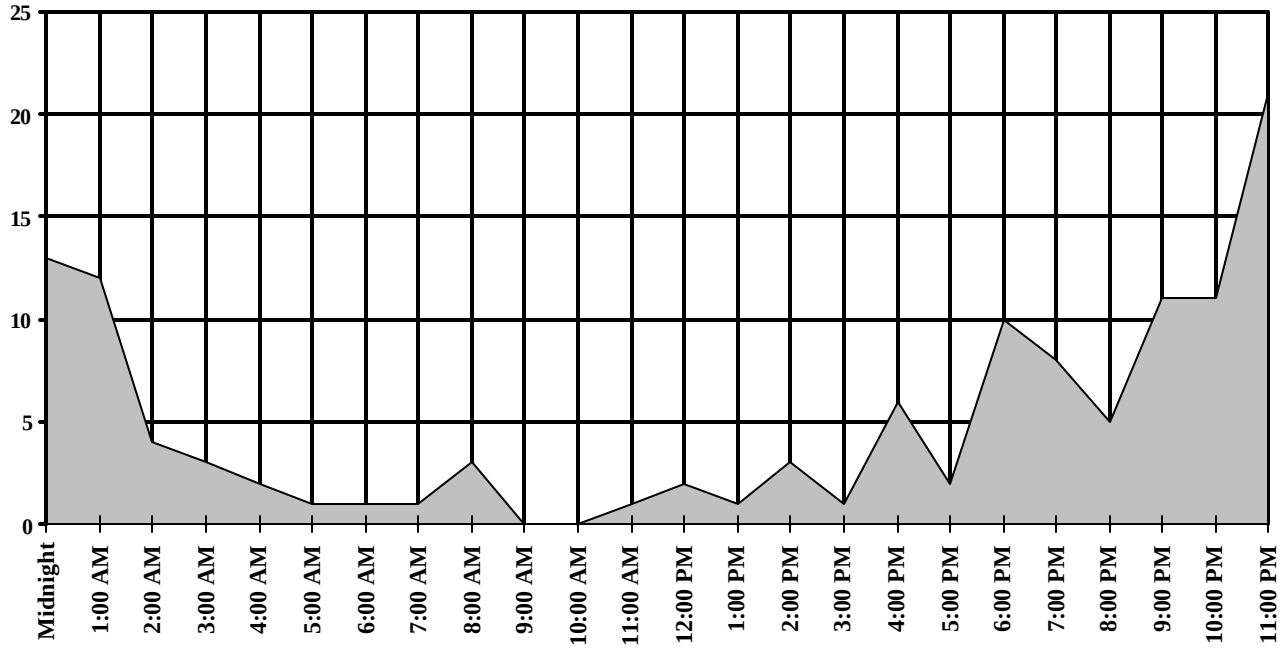
Figures 6-1 and 6-2
Alcohol-Related Crashes
Weekdays



Weekends



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



Weekends

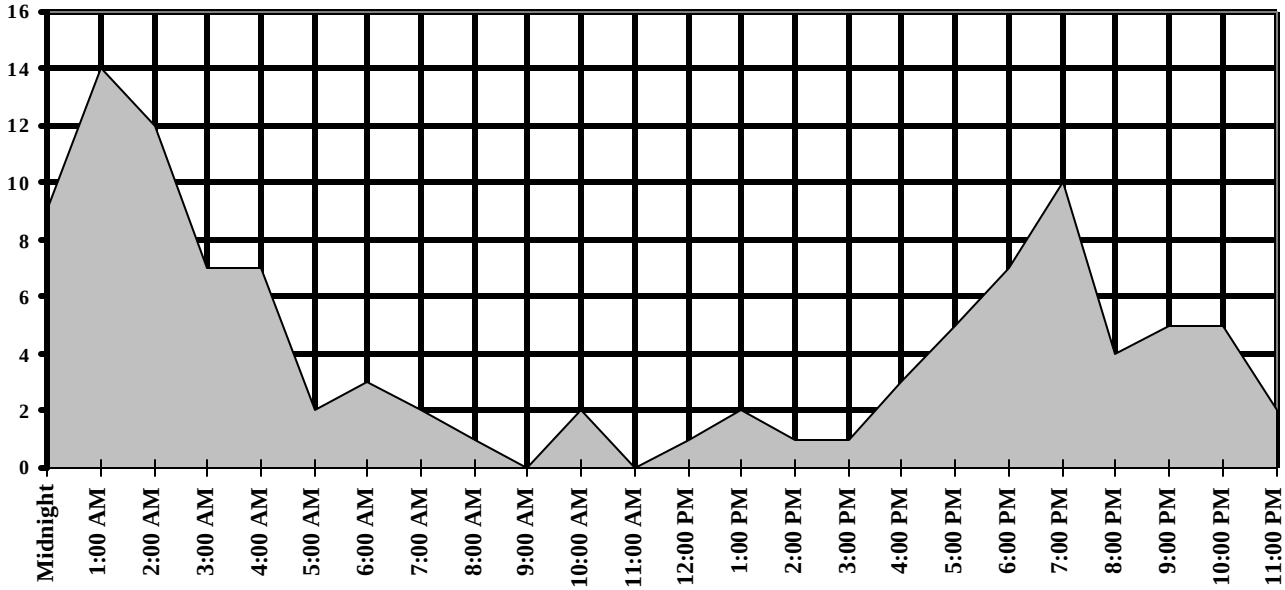


Table 6-13
Alcohol-Related Crashes
Injury Severity by Hour and Day of Week

Hour Beginning	Total Crashes All	Total Crashes Fatal	Monday All	Monday Fatal	Tuesday All	Tuesday Fatal	Wednesday All	Wednesday Fatal	Thursday All	Thursday Fatal	Friday All	Friday Fatal	Saturday All	Saturday Fatal	Sunday All	Sunday Fatal
Midnight	**658**	**22**	53	2	36	0	68	2	61	5	71	4	194	5	175	4
1:00	**868**	**26**	73	2	44	2	63	3	82	1	109	4	273	12	224	2
2:00	**447**	**16**	47	1	27	0	28	1	38	1	41	1	127	7	139	5
3:00	**258**	**10**	25	1	20	1	16	1	22	0	16	0	67	3	92	4
4:00	**167**	**9**	12	0	10	0	11	0	11	2	15	0	69	4	39	3
5:00	**138**	**3**	16	1	8	0	8	0	9	0	17	0	32	0	48	2
6:00	**107**	**4**	13	0	5	0	10	0	11	0	12	1	29	0	27	3
7:00	**93**	**3**	4	0	11	1	9	0	13	0	12	0	17	1	27	1
8:00	**82**	**4**	8	0	8	1	13	2	11	0	9	0	20	1	13	0
9:00	**69**	**0**	6	0	6	0	6	0	13	0	10	0	17	0	11	0
10:00	**76**	**2**	7	0	3	0	9	0	11	0	17	0	13	1	16	1
11:00	**94**	**1**	12	0	8	0	16	1	10	0	12	0	21	0	15	0
Noon	**128**	**3**	16	1	16	0	12	0	12	0	18	1	31	0	23	1
1:00	**162**	**3**	32	1	19	0	16	0	17	0	18	0	33	1	27	1
2:00	**200**	**4**	31	2	25	0	21	0	21	1	35	0	40	1	27	0
3:00	**297**	**2**	44	0	34	0	27	0	36	1	44	0	69	1	43	0
4:00	**364**	**9**	49	2	37	0	39	1	43	1	71	2	64	1	61	2
5:00	**460**	**7**	45	1	48	0	41	1	75	0	88	0	84	4	79	1
6:00	**501**	**17**	59	3	50	0	43	0	59	3	99	4	107	5	84	2
7:00	**534**	**18**	44	1	54	1	63	0	76	3	96	3	105	6	96	4
8:00	**577**	**9**	61	0	65	1	68	1	66	2	118	1	112	2	87	2
9:00	**549**	**16**	59	1	51	2	60	3	60	1	116	4	115	1	88	4
10:00	**650**	**16**	44	3	58	2	66	1	86	2	161	3	156	3	79	2
11:00	**616**	**23**	43	2	49	3	62	4	70	7	159	5	168	1	65	1
Not Reported																
TOTALS	**8,095**	**227**	**803**	**24**	**692**	**14**	**775**	**21**	**913**	**30**	**1,364**	**33**	**1,963**	**60**	**1,585**	**45**

Section 7:

Pedestrian and Pedalcyclist Crashes

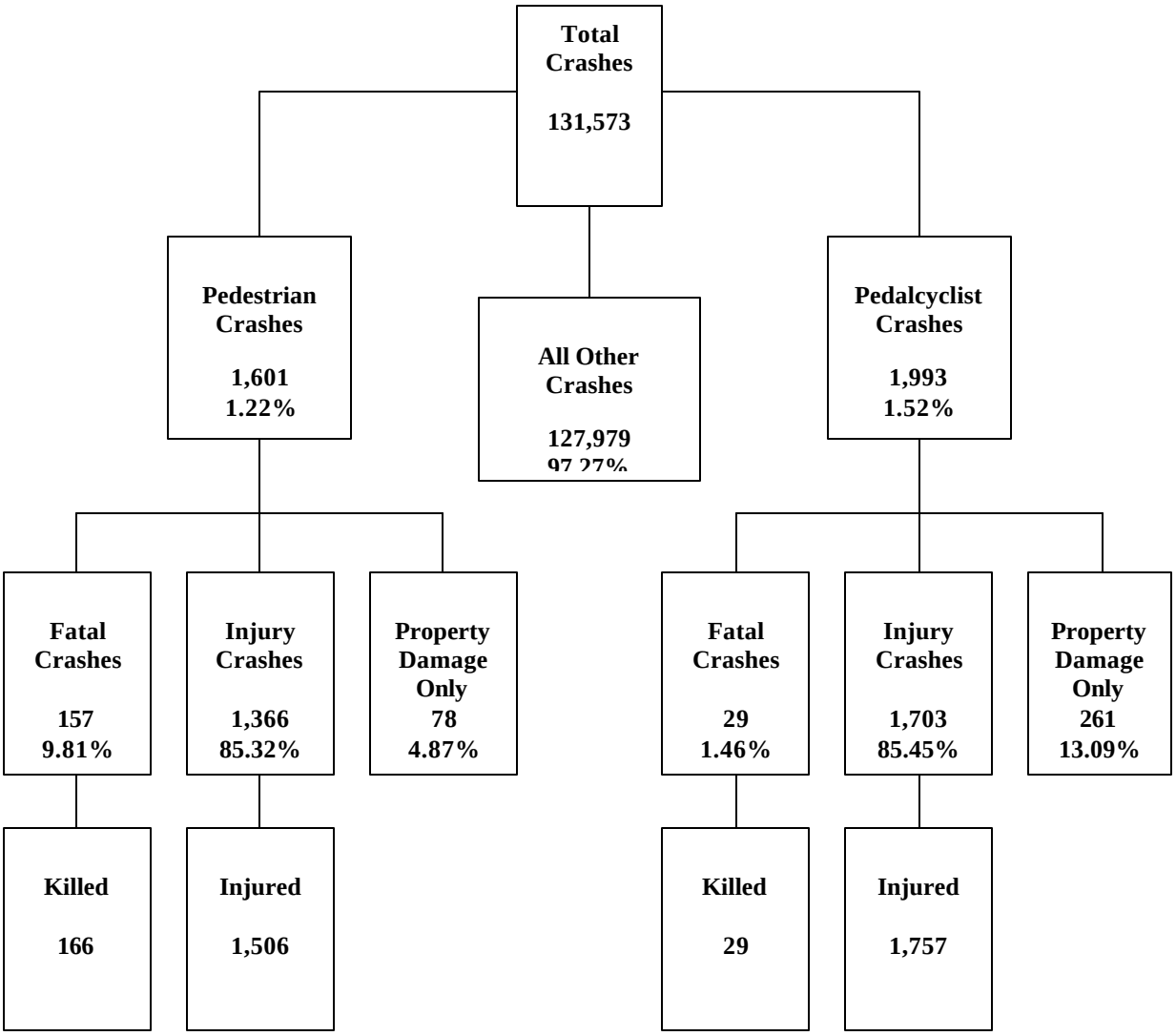


Table 7-1
Pedestrians By Age and Gender

Age Group	Persons Killed			Persons Injured			
	Total	Male	Female	Total	Male	Female	Not Reported
0-4	3	2	1	82	55	27	0
5-9	0	0	0	122	73	49	0
10-14	4	2	2	166	106	60	0
15-19	10	9	1	145	90	55	0
20-24	13	9	4	135	77	58	0
25-34	18	14	4	208	151	57	0
35-44	38	25	7	206	125	80	1
45-54	27	19	8	149	90	58	1
55-64	18	14	4	90	56	34	0
65-74	11	6	5	46	27	19	0
75 & Older	17	12	5	76	45	31	0
Not Reported	7	7	0	81	62	17	2
Total	**166**	**126**	**40**	**1,506**	**957**	**545**	**4**

Nationally, on average, a pedestrian is killed in a motor vehicle crash every 112 minutes, and one is injured every 6.4 minutes.

Table 7-2
Pedestrian Crashes

Statewide	Total	Urban	Rural
Number of Crashes	1,602	1,430	171
Persons Killed	166	115	51
Persons Injured	1,509	1,384	125
Property Damage Only	78	65	13

Table 7-3
Pedestrian Crash History

Year	Number of Pedestrians	
	Fatal	Injury
1992	141	1,420
1993	140	1,445
1994	151	1,593
1995	179	1,634
1996	165	1,621
1997	153	1,624
1998	161	1,594
1999	148	1,571
2000	137	1,637
2001	166	1,509

Across the U.S., approximately 77,000 pedestrians were injured and 4,698 were killed in traffic crashes, representing 2.5 percent of all the people injured and 11.2 percent of all traffic fatalities.

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	**94**	2	0	3	4	6	32	25	22	0
Walking In Roadway With Traffic	**8**	0	0	0	0	0	3	2	3	0
Walking In Roadway Against Traffic	**3**	0	0	0	0	2	0	0	1	0
Standing In Roadway	**11**	0	0	0	2	0	2	6	1	0
Pushing or Working On Veh. In Roadway	**4**	0	0	0	0	1	2	1	0	0
Other Working In Roadway	**0**	0	0	0	0	0	0	0	0	0
Lying In Roadway	**11**	0	0	0	3	0	5	2	1	0
Getting On or Off Veh. In Roadway	**0**	0	0	0	0	0	0	0	0	0
Other In Actions In Roadway	**17**	1	0	1	0	2	5	3	4	1
Unknown	**18**	0	0	0	1	2	7	6	2	0
Not Reported	**0**	0	0	0	0	0	0	0	0	0
TOTALS	**166**	**3**	**0**	**4**	**10**	**13**	**56**	**45**	**34**	**1**

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	**930**	56	85	109	91	77	253	147	112	0
Walking In Roadway With Traffic	**58**	0	2	4	4	5	20	12	11	0
Walking In Roadway Against Traffic	**74**	5	3	11	5	5	17	19	8	1
Standing In Roadway	**81**	2	2	1	7	11	36	10	12	0
Pushing or Working On Veh. In Roadway	**14**	0	0	0	0	6	4	1	3	0
Other Working In Roadway	**4**	0	0	0	0	0	3	1	0	0
Lying In Roadway	**11**	1	1	1	2	2	2	1	1	0
Getting On or Off Veh. In Roadway	**15**	2	2	2	0	1	3	1	4	0
Other In Actions In Roadway	**224**	14	21	29	26	21	47	36	30	0
Unkmown	**95**	2	6	9	10	7	29	11	21	0
Not Reported	**0**	0	0	0	0	0	0	0	0	0
TOTALS	**1,506**	**82**	**122**	**166**	**145**	**135**	**414**	**239**	**202**	**1**

Table 7-6
Pedestrian Physical Condition

Pedestrian Condition	Total	% of Total Peds	Fatal	% of Fatal Peds	Injury	% of Injury Peds	PDO	% of PDO Peds
No Apparent Impairment	**1,050**	**59.82%**	36	21.69%	963	63.94%	48	71.64%
Impaired Had Been Drinking	**244**	**13.90%**	48	28.92%	191	12.68%	4	5.97%
Other Bodily Impairment	**31**	**1.77%**	2	1.20%	25	1.66%	4	5.97%
Ill, Ability Influenced	**2**	**0.11%**	0	0.0%	2	0.13%	0	0.0%
Sleepy, Fatigued	**2**	**0.11%**	1	0.60%	1	0.06%	0	0.0%
Under Influence Of Drugs*	**20**	**1.14%**	6	3.61%	13	0.86%	0	0.0%
Not Reported/Unknown	**406**	**23.13%**	73	43.98%	311	20.65%	11	16.42%
TOTALS	**1,755**	**100.0%**	**166**	**100. 0%**	**1,506**	**100.0%**	**67**	**100.0%**

*Narcotic or Prescription

Table 7-7
Lighting Conditions - Pedestrian Crashes

Lighting Conditions	Number of Pedestrian Crashes			
	Total	Fatal	Injury	PDOs
Daylight	**904**	39	826	38
Darkness	**579**	107	435	37
Dawn or Dusk	**114**	9	102	3
Not Reported	**5**	2	3	0
TOTALS	**1,601**	157	1,366	78

Table 7-8
Weather Conditions - Pedestrian Crashes

Weather Conditions	Number of Pedestrian Crashes			
	Total	Fatal	Injury	PDOs
Clear	**1,342**	124	1,149	69
Raining	**57**	6	50	1
Cloudy	**157**	12	137	8
Snowing	**28**	4	24	0
Strong wind	**0**	0	0	0
Dust	**0**	0	0	0
Fog	**0**	0	0	0
Other	**0**	0	0	0
Not Reported	**17**	11	6	0
TOTALS	**1,601**	157	1,366	78

Table 7-9
Pedalcyclists by Age and Gender

Age Group	Persons Killed			Persons Injured			
	Total	Male	Female	Total	Male	Female	Not Reported
0-4	1	1	0	11	11	0	0
5-9	2	2	0	96	79	17	0
10-14	3	3	0	283	216	67	0
15-19	2	2	0	242	191	51	0
20-24	2	2	0	175	129	46	0
25-34	5	4	0	235	186	49	0
35-44	5	5	0	289	235	54	0
45-54	4	3	1	163	132	30	0
55-64	1	0	1	52	48	4	0
65-74	2	2	0	32	30	2	0
75 & Older	2	2	0	17	14	2	1
Not Reported	0	0	0	115	93	22	0
TOTALS	**29**	**26**	**2**	**1,710**	**1,364**	**344**	**1**

Table 7-10
Pedalcycle Crashes

Statewide	Total	Urban	Rural
Number Of Crashes	1,993	1,839	154
Persons Killed	29	24	5
Persons Injured	1,758	1,621	137
Property Damage Only	261	245	16

NUMBER OF PEDALCYCLISTS		
Year	Total Killed	Total Injured
1992	18	2,091
1993	24	2,162
1994	21	2,271
1995	31	2,308
1996	30	2,089
1997	31	2,067
1998	23	1,954
1999	26	1,986
2000	25	1,915
2001	29	1,757

Table 7-11
Pedalcycle Crash History

In 2001, approximately 46,000 pedalcyclists were injured and 701 were killed in traffic crashes across the country. This represented 1.7 percent of all injuries and 1.7 percent of all fatalities from traffic crashes.

Table 7-12
Lighting Conditions - Pedalcyclist Crashes

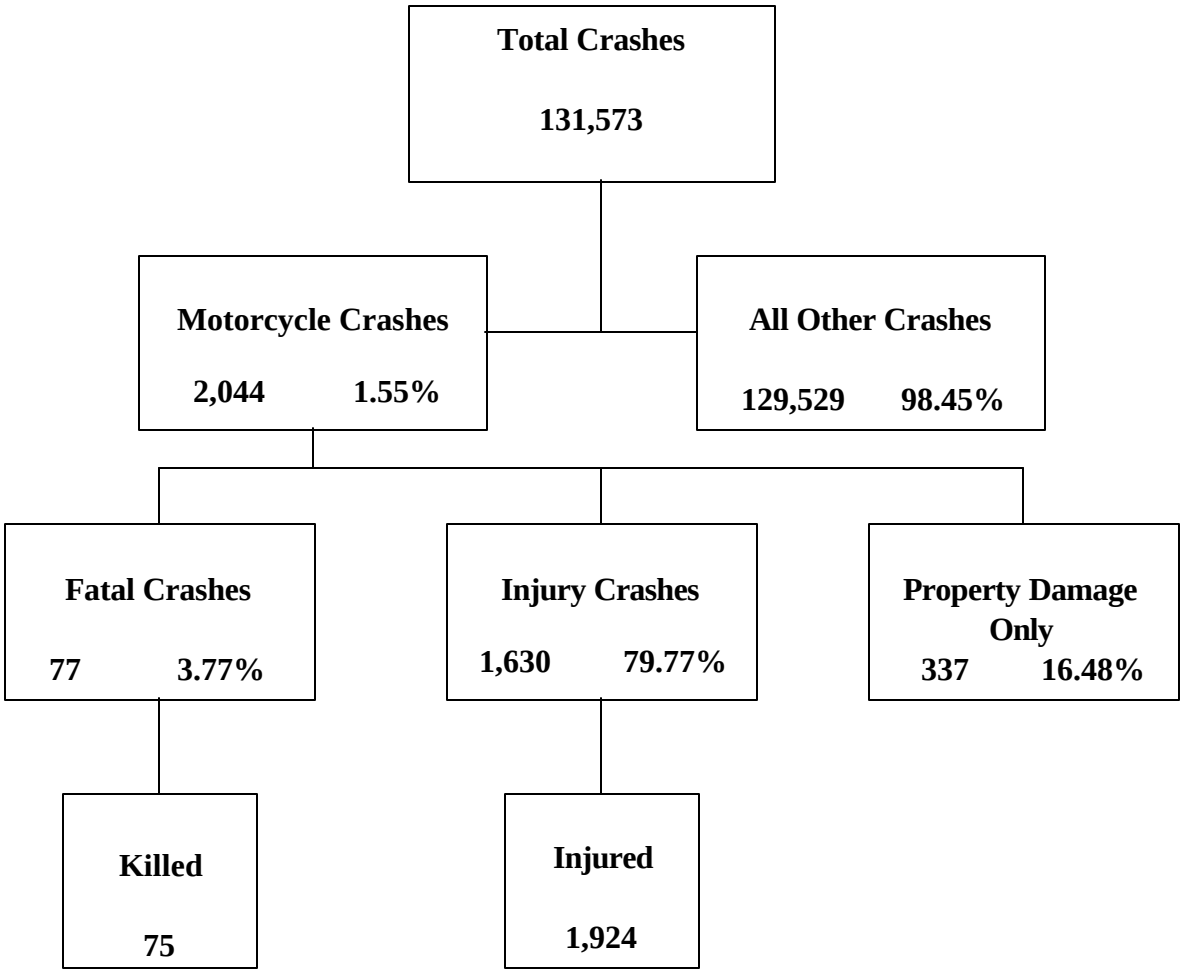
Lighting Conditions	Number of Pedalcyclist Crashes			
	Total	Fatal	Injury	PDOs
Daylight	**1,542**	19	1,320	203
Darkness	**338**	8	289	41
Dawn or Dusk	**107**	2	91	14
Not Reported	**6**	0	3	3
TOTALS	**1,993**	**29**	**1,703**	**261**

Table 7-13
Weather Conditions - Pedalcyclist Crashes

Weather Conditions	Number of Pedalcyclist Crashes			
	Total	Fatal	Injury	PDOs
Clear	**1,722**	26	1,470	226
Raining	**35**	0	34	1
Cloudy	**216**	3	185	28
Snowing	**14**	0	10	4
Strong wind	**1**	0	1	0
Dust	**0**	0	0	0
Fog	**0**	0	0	0
Other	**0**	0	0	0
Not Reported	**5**	0	3	2
TOTALS	**1,993**	**29**	**1,703**	**261**

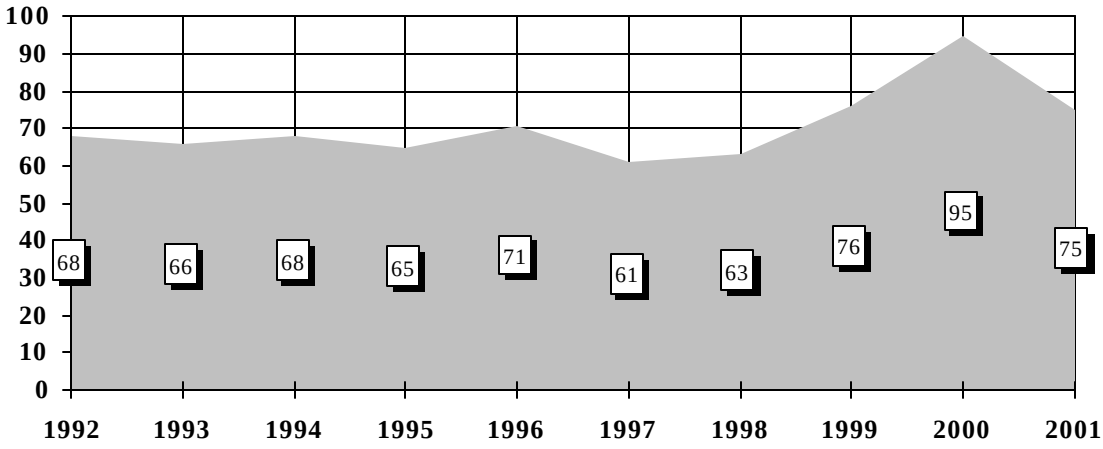
Section 8:

Motorcycle Crashes



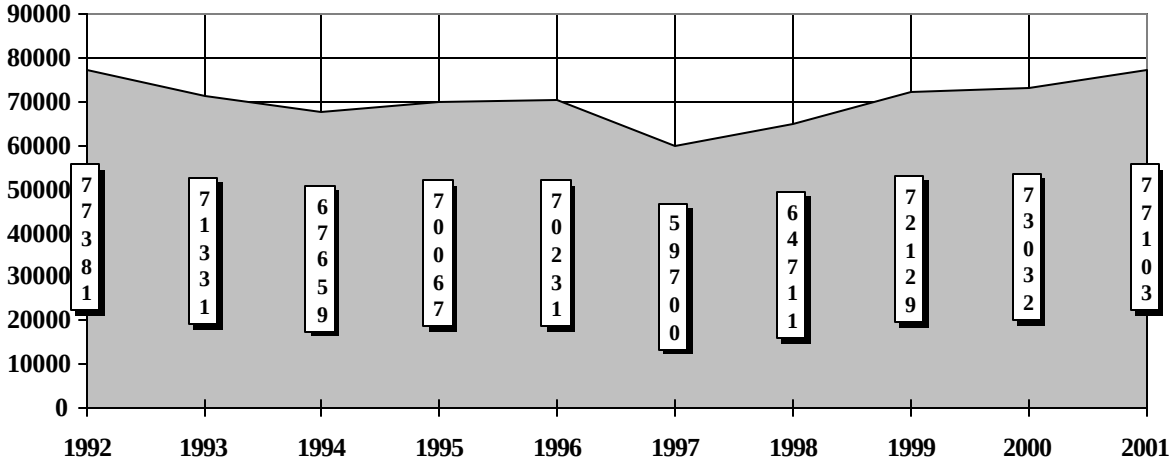
Includes motorcycle drivers and/or passengers only.

Figure 8-1
Motorcycle Fatalities by Year



In 2001, over 3,067 motorcyclists were killed in traffic crashes in the United States, an increase of 205 over the previous year. Arizona's 75 fatalities were a decrease of 20 from the previous year.

Figure 8-2
Motorcycle Registrations in Arizona



1997-2001 Totals include 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 Motorcycle

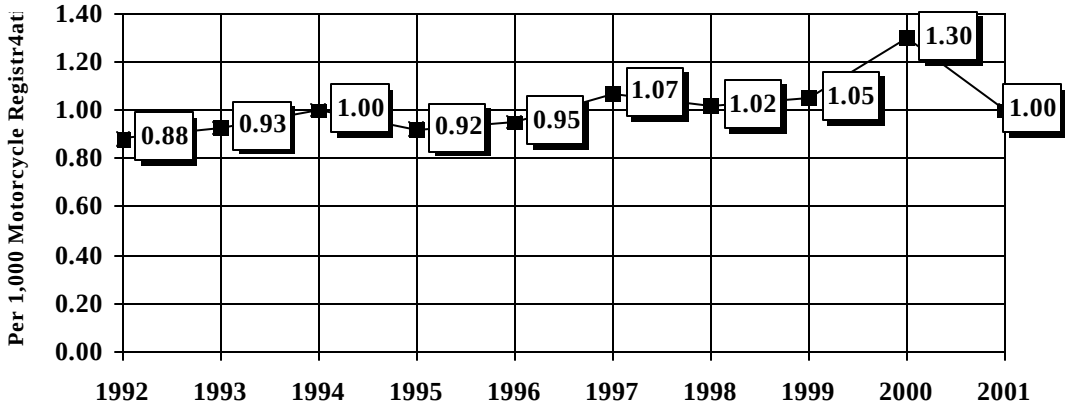
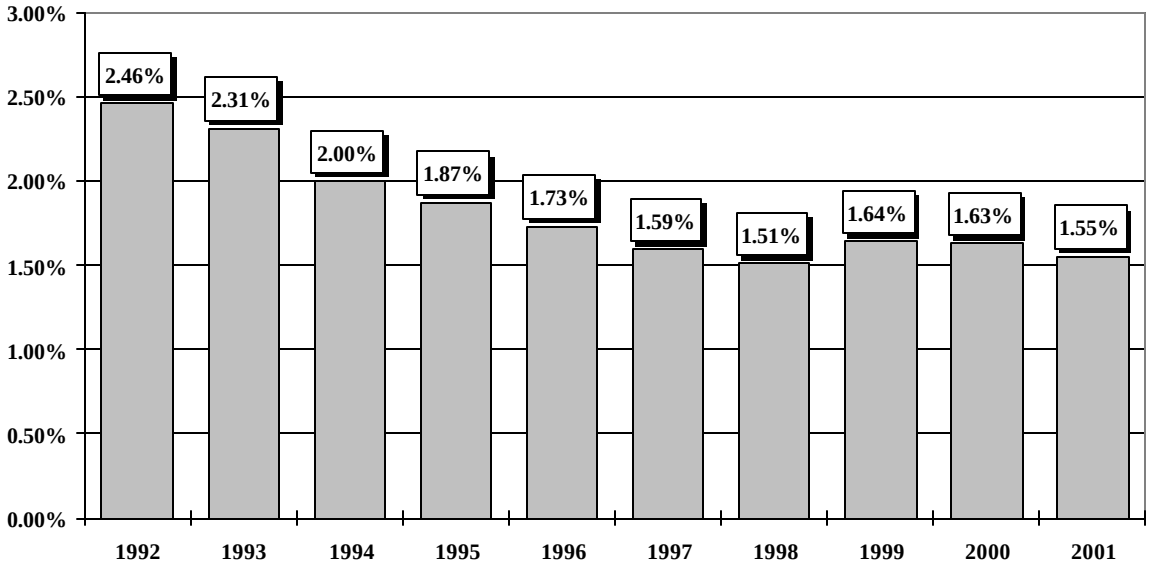


Figure 8-4
Percent of Motorcycle Crashes to All Crashes



Section 8: Motorcycle Crashs

Table 8-1
Motorcycle Crashes by Type

Accident Type	Number of Crashes			
	Total	Fatal	Non-Fatal Injury	Property Damage Only
Overturning	23	1	20	2
Pedestrian	13	1	12	0
Motor Vehicle In Transport	1,165	46	885	234
Motor Vehicle On Other Roadway	0	0	0	0
Pedalcyclist	7	0	6	1
Animal	26	0	21	5
Fixed Object	220	20	176	24
Other Object	28	2	19	7
Misc.	562	7	491	64
TOTALS	**2,044**	**77**	**1,630**	**337**

Table 8-2
Motorcycle Crashes - Lighting Conditions

Lighting Condition	Number of Crashes		
	Total	Fatal	Injury
Daylight	1,363	35	1,079
Dawn or Dusk	129	6	104
Darkness	549	36	445
Not Reported	3	0	2
Totals	**2,044**	**77**	**1,630**

Table 8-3
Motorcycle Crashes - Road Conditions

Road Surface	Number of Crashes		
	Total	Fatal	Injury
Dry	1,756	65	1,405
Wet	50	1	40
Snowy/icy	12	1	8
Other	60	1	49
Not Reported	166	9	128
Totals	**2,044**	**77**	**1,630**

Table 8-4
Motorcycle Crashes - Land Use

	Number of Crashes and % of Total				
	Total	Rural	% of Total	Urban	% of Total
Crashes	2,044	497	24.32%	1,547	75.68%
Fatalities	75	25	33.33%	50	66.66%
Injuries	1,630	394	24.17%	1,236	75.83%

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	25	1.20%	2	20
16	10	0.48%	1	8
17	20	0.96%	2	14
18-19	126	6.05%	0	110
20-24	340	16.32%	8	288
25-34	457	21.94%	25	357
35-44	450	21.60%	16	361
45-54	394	18.92%	18	312
55-64	134	6.43%	3	113
65-74	31	1.49%	1	29
75 & Older	12	0.58%	1	9
Not Reported	84	4.03%	0	45
TOTALS	**2,083**	**100.00%**	**77**	**1,666**

Table 8-6
Alcohol-Related Motorcycle Crashes

Total number of impaired operators	160
Total number of fatal crashes	20
Total number of injury crashes	132

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

License Status	1999		2000		2001	
	Total Fatal Crashes	Percent of Fatal Crashes	Total Fatal Crashes	Percent of Fatal Crashes	Total Fatal Crashes	Percent of Fatal Crashes
No license	3	3.95%	5	5.89%	5	6.02%
Invalid	23	30.26%	36	36.27%	26	31.33%
Valid	49	64.47%	58	56.86%	51	61.45%
Unknown	1	1.32%	1	0.98%	1	1.20%
TOTALS	**76**	**100.00%**	**100**	**100.00%**	**83**	**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	114	17.19%	157	15.79%	88	20.66%	359	17.24%
Possible injury	91	13.73%	131	13.18%	77	18.08%	299	14.35%
Non-incapacitating	283	42.68%	390	39.24%	144	33.80%	817	39.22%
Incapacitating	149	22.47%	264	26.56%	77	18.08%	490	23.52%
Fatality	21	3.17%	46	4.63%	3	0.70%	70	3.36%
Unknown	5	0.75%	6	0.60%	37	8.69%	48	2.30%
TOTALS	**663**	**100.00%**	**994**	**100.00%**	**426**	**100.00%**	**2,083**	**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	5	7.69%	24	17.52%	8	21.05%	37	15.42%
Possible injury	11	16.92%	17	12.41%	8	21.05%	36	15.00%
Non-incapacitating	25	38.46%	56	40.88%	11	28.95%	92	38.33%
Incapacitating	24	36.92%	36	26.28%	8	21.05%	68	28.33%
Fatality	0	0%	4	2.92%	1	2.63%	5	2.08%
Unknown	0	0%	0	0%	2	5.26%	2	0.83%
TOTALS	**65**	**100.00%**	**137**	**100.00%**	**38**	**100.00%**	**240**	**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	0	2	0
5 - 9	0	0	0	2	1	1	0
10 - 14	2	2	0	20	12	8	0
15 - 19	3	3	0	167	145	22	0
20 - 24	8	8	0	314	283	31	0
25 - 34	26	24	2	384	332	52	0
35 - 44	14	11	3	388	322	66	0
45 - 54	17	16	1	328	272	56	0
55 - 64	3	3	0	115	104	11	0
65 - 74	1	1	0	29	29	0	0
75 & Older	1	1	0	9	9	0	0
Not Reported	0	0	0	44	33	10	1
TOTALS	**75**	**69**	**6**	**1,802**	**1,542**	**259**	**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	41	1.97%	4	5.19%	34	2.04%
Speed too fast for conditions	577	27.70%	30	38.96%	475	28.51%
Failed to yield	62	2.98%	1	1.30%	47	2.82%
Passed stop sign	11	0.53%	1	1.30%	10	0.60%
Disregarded traffic signal	22	1.06%	4	5.19%	18	1.08%
Drove left of center	11	0.53%	0	0%	8	0.48%
Followed too closely	29	1.39%	0	0%	18	1.08%
Driver inattention	98	4.70%	4	5.19%	85	5.10%
Had been drinking	160	7.68%	20	25.97%	132	7.92%
Other improper driving	78	3.74%	3	3.90%	59	3.54%
Faulty or Missing Equip.	24	1.15%	0	0%	20	1.20%
Other	66	3.17%	0	0%	37	2.22%
No improper driving	904	43.40%	10	12.99%	723	43.40%
Not Reported	0	0%	0	0%	0	0%
TOTALS	**2,083**	**100.00%**	**77**	**100.00%**	**1,666**	**100.00%**

Figure 8-5
Motorcycle Crashes by Time of Day
Weekdays

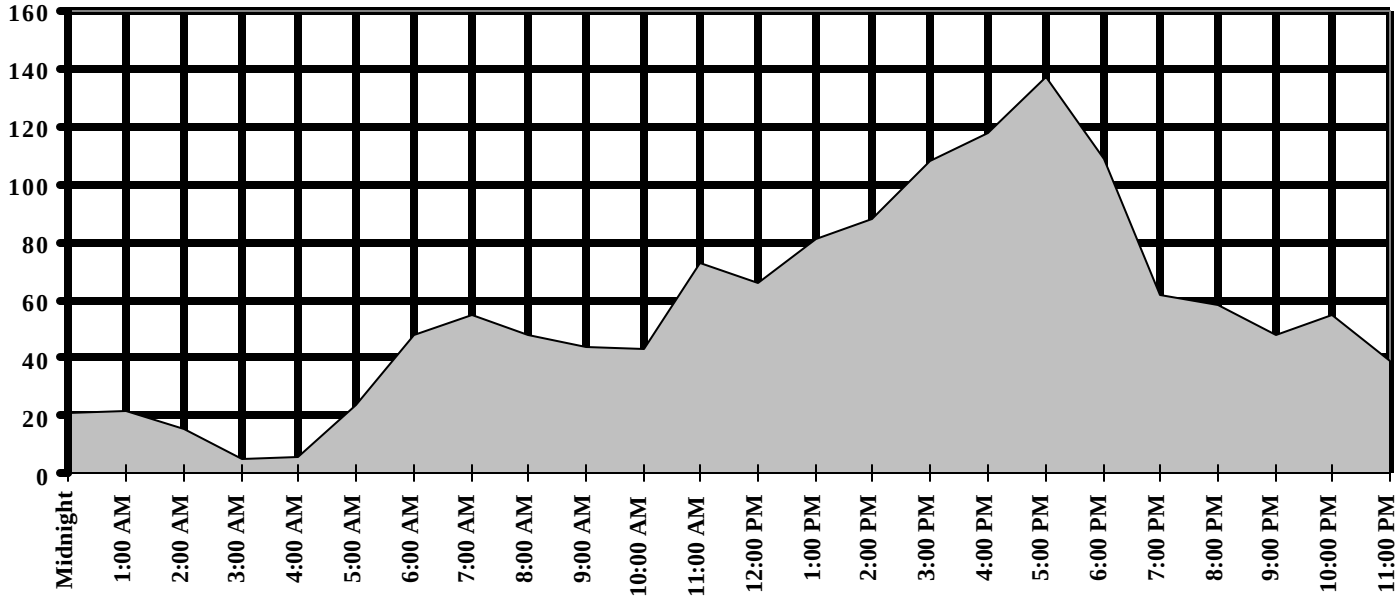


Figure 8-6
Weekends

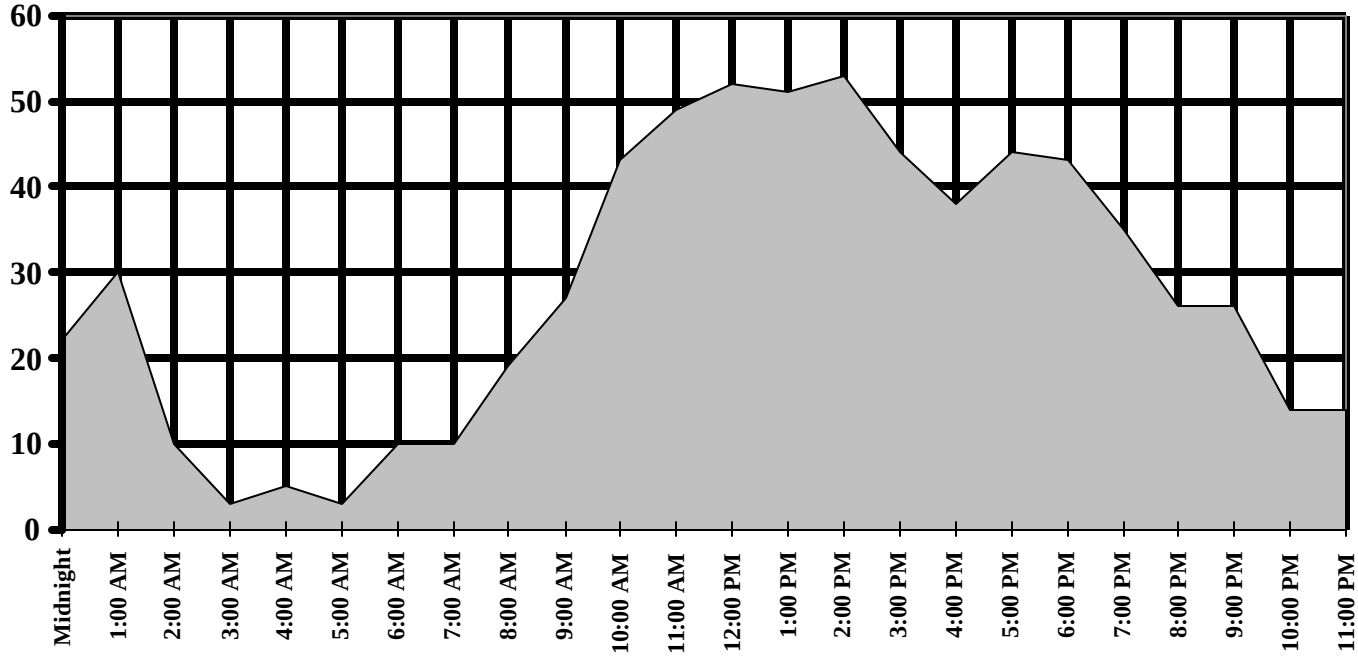


Figure 8-7
Fatal Motorcycle Crashes by Time of Day
Weekdays

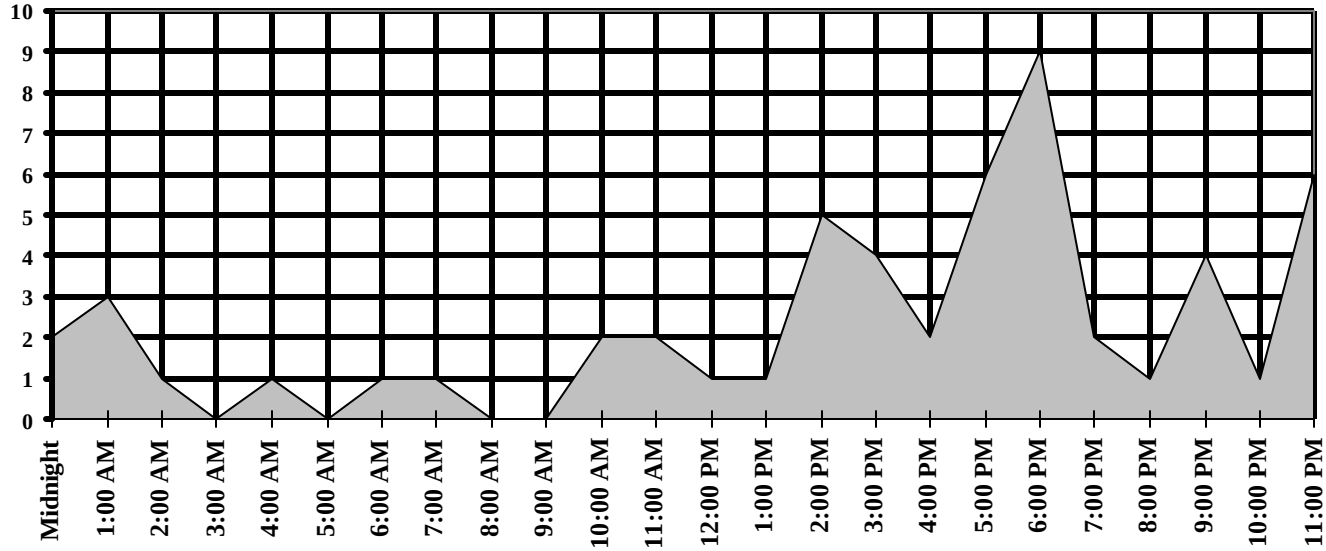


Figure 8-8
Fatal Motorcycle Crashes by Time of Day
Weekends

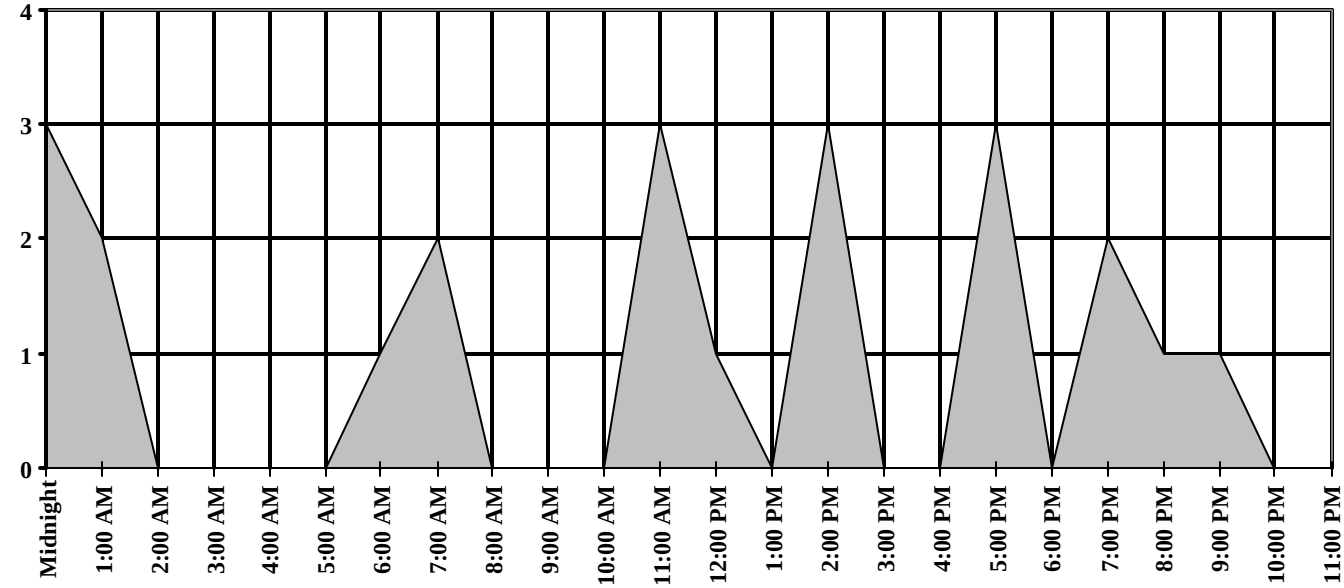
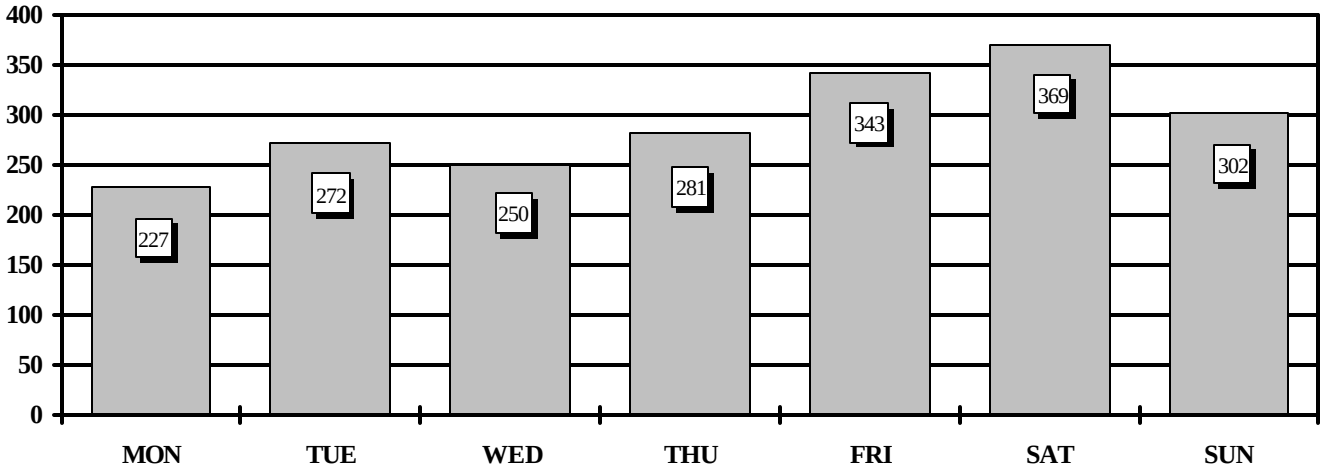


Figure 8-9
Motorcycle Crashes by Day of Week



Section 9:
School Bus Crashes

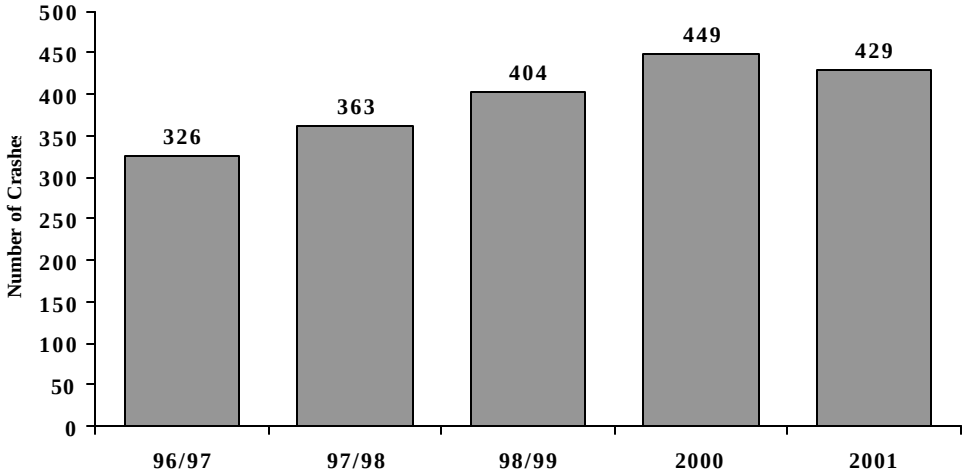


Table 9-1
School Bus Driver Errors

	Number of Drivers and % of Total	
	Total	**%**
No Improper Driving	219	51.05%
Speed not Reasonable & Proper	33	7.69%
Failed to Yield	26	6.06%
Following too Closely	3	0.70%
Improper Turn	29	6.76%
Drove in Opposing Lane	2	0.47%
Other	27	6.29%
Unknown	38	8.86%
Inattention	43	10.02%
No Passing Zone	4	0.93%
Unsafe Lane Change	5	1.17%
TOTAL DRIVERS	**429**	**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.***

Table 9-2
School Bus Crash History

	96/97	97/98	98/99	2000	2001
Injuries and Fatalities					
Pupils					
Killed	0	0	0	1	0
Injured	131	98	95	139	128
Bus Drivers					
Killed	0	0	0	0	0
Injured	25	26	17	20	22
Property Damage Only Crashes	213	239	424	433	289
Crash by Time of Day					
A.M.	139	163	179	208	199
P.M.	187	200	225	241	230
Weather Conditions:					
Not Reported	1	0	3	1	0
Clear and Dry	255	293	346	380	355
Rain	17	16	17	12	17
Snow or Ice	6	10	2	4	16
Dusty or Windy	4	1	2	1	1
Fog	0	0	1	2	0
Cloudy	43	43	27	49	40

Acknowledgements

The Crash Analysis Unit of the Arizona Department of Transportation would not be able to produce this report without the fine work of the following individuals who were responsible for the coding and keying-in of all our crash data for this publication. We wish to express our heartfelt thanks to each of you and keep up the good work!

Coders and Keyers

Yvonne Aparicio
Debora Bauer
Alicia Brooks
Francine Cospy
Jessica Fernandez
Steven Gale
Pat Geans
Willie Gilder
Clyde Greenwood
Pat McGurgan
Kathleen Mullins
Pamela Pelech
Randy Reifsnyder
Anna Valdez
Mary Kay Weachter
Cindy Wise

Additional Key Staff

Dave Gibson
Margaret Muniz

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

The National Center for Statistics and Analysis, Research and Development
National Highway Transportation Safety Administration
The Arizona State Data Center, Arizona Department of Economic Security
The Office of Planning, Evaluation, and Public Health Statistics, Arizona Department of Health Services
The Information Technology Group, Arizona Department of Transportation
The National Safety Council
Motor Vehicle Department, Arizona Department of Transportation
Partners for Safety Program, administered by the Ohio State Highway Patrol

In addition, we wish to acknowledge the men and women working in law enforcement and public safety agencies that are responsible for the production of all crash data in the field. We rely on their accurate completion of crash reports and without their attention to detail we would be unable to maintain a meaningful database. Thanks!!