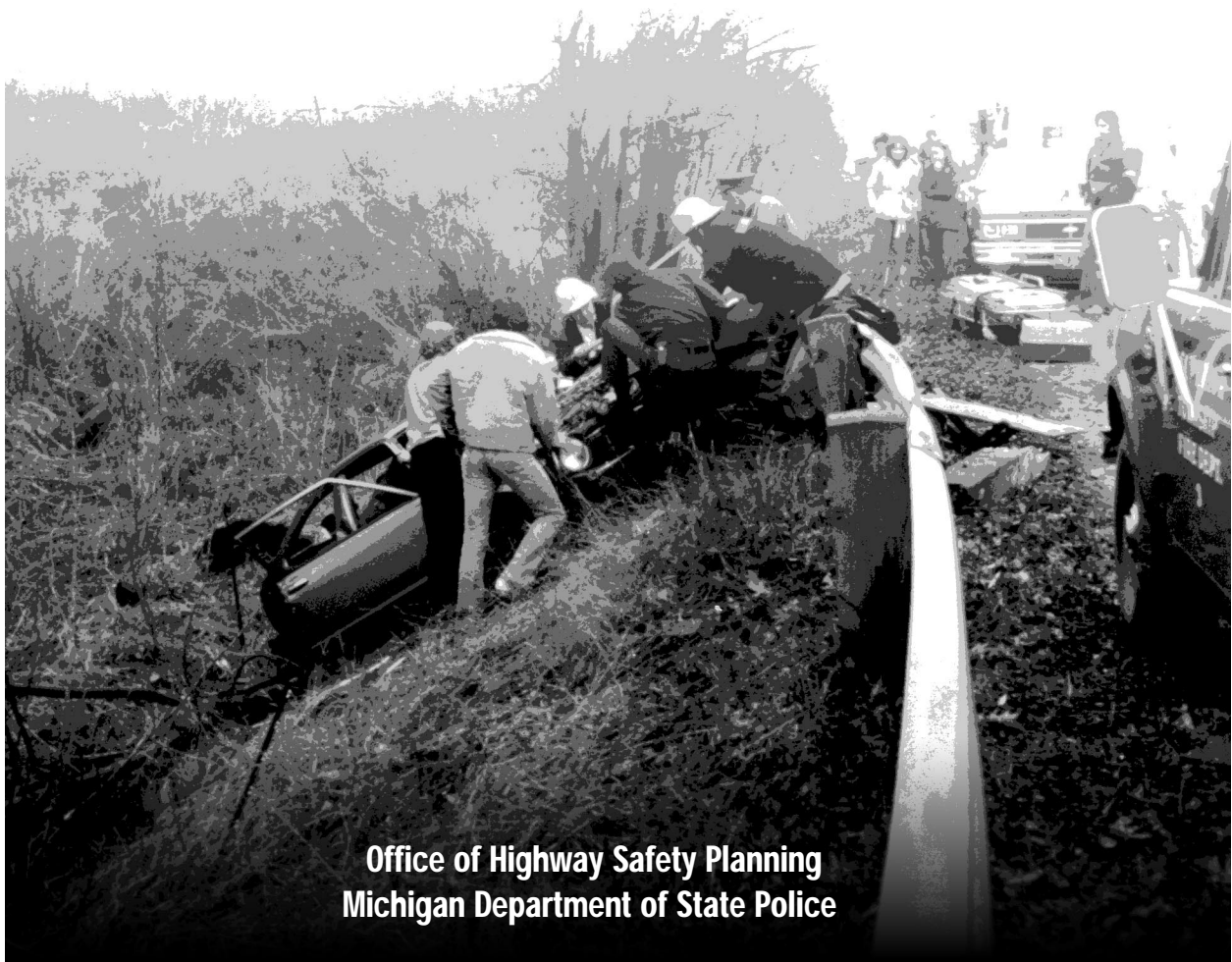


1992

Michigan Traffic Crash Facts



Office of Highway Safety Planning
Michigan Department of State Police

PREFACE

The 1992 traffic fatality count was 1,300, down 8.8 percent from the 1991 figure of 1,425. Compared with 1991, injuries were down 12.6 percent and total crashes were down 5.5 percent. These figures translated into a death rate of 1.5 per 100 million miles of travel, down 11.8 percent from the death rate of 1.7 reported in 1991.


Exposure factors in 1992 showed across the board increases. They included motor vehicle registrations up 1.1 percent to 7.41 million; vehicle travel mileage up 2.5 percent to 84.0 billion; and the number of licensed drivers up 2.3 percent to 7.78 million.

Substantial reductions in total reported crashes and increased travel were credited with the lowered death toll and rate in 1992. Restraint usage continues to be elusive and reads like fact and fiction: While direct observation studies report an approximate 57.0 percent usage rate, the usage rate gathered from accident reports came in at 76.6 percent. Alcohol involvement, especially in fatal crashes, still takes its toll.

Data on crashes in this booklet were obtained from 1992 Michigan Traffic Crash Report Forms (UD-10) submitted by local police departments, sheriff jurisdictions, and the Department of State Police. Other related information was obtained from the Departments of Transportation, State, and Public Health.

This publication was produced for the Office of Highway Safety Planning by the University of Michigan Transportation Research Institute with data on file at the Michigan Department of State Police as of July 19, 1994.

We acknowledge, with appreciation, all involved agencies for their assistance.


Co. Michael D. Robinson, Director
Michigan Department of State Police



INTRODUCTION

The data contained in this report was submitted by Michigan's 660+ law enforcement agencies on the revised Uniform Traffic Crash Report (UD-10). For several reasons, **the reader is cautioned to treat the 1992 data as "transitional." Direct comparisons and trends using data from this report should be made cautiously.**

The need to develop a more efficient way to process the 410,000+ crash forms received each year by the Michigan State Police, Criminal Justice Data Center, became apparent in the early 1990s. The UD-10 was drastically redesigned in 1992, the first time in some 20 years, allowing an optical scanning device to "read" data "bubbles" and store the information on computer. This greatly reduced the amount of time necessary to process each form.

Unfortunately, computer applications have their share of technical challenges. In some instances, the computer read the data and accepted the information verbatim, regardless of logic. Every effort was made to process all "readable" reports in the system. An estimated 6-10% of the UD-10 forms submitted for 1992 could not be processed due to physical damage to the form or technical problems with the data recorded on the form. However, a considerable amount of research was conducted on 1992 fatal crashes to assure that **fatal counts in this report accurately match those reported to the US Department of Transportation's Fatal Accident Reporting System (FARS).**

Inadvertent errors by the officer completing the form also contributed to the problem. The most frequent errors attributed to the investigating officer were, and continue to be, **incorrectly filled or unfilled bubbles; stray marks, marks outside a box or marks in the margin; incorrect or missing Override numbers and failure to correctly date the second page or corrected copy.**

Numerous computer software changes were made after 1992 as changes to the UD-10 form itself. We anticipate that 1993 data will be improved in quality over 1992 data. We are also reviewing the training material and *Instruction Manual*. Our commitment to the people of Michigan and to the many transportation-related agencies that rely on this data for improving traffic safety is to continue refining both the UD-10 form and computer software to obtain the highest quality crash data the process will allow.



BETTY J. MERCER
Executive Director
Office of Highway Safety Planning

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QUICK FACTS

& FIGURES

1992 QUICK FACTS

- Some exposure factor comparisons between 1992 and 1991 show motor vehicle registrations rose **1.1** percent, vehicle mileage rose **2.6** percent, and licensed drivers increased **2.4** percent.
- With the increase in exposure factors in 1992, the death rate fell to **1.5** per 100 million miles of travel, the lowest in our reporting history.
- There were **344,942** reported crashes of which **81,090** were personal injury type and **262,673** were property damage type crashes.
- A traffic crash was reported every **1** minute, **31** seconds.
- Of all fatal crashes, **40.8** percent occurred at intersections.
- Of those fatal crashes where the drinking condition was determined, **33.6** percent indicated that alcohol was a factor.
- In the last five years, **7,622** persons have been killed in Michigan traffic crashes. This is an average of **1,524** per year. During the previous five-year period, **7,954** persons were killed for an average of **1,591** per year.
- Of the **9,433,665** persons living in Michigan [1] one out of every **7,257** was killed in a traffic crash; one out of every **79** persons was injured.
- There were **1,300** persons killed and **118,727** persons injured in **344,942** reported motor vehicle traffic crashes in Michigan during 1992. Compared with 1991 experience, deaths decreased **8.8** percent, injuries decreased **12.6** percent, and total reported crashes showed a **5.5** percent decrease.
- This year's death toll of **1,300** was the lowest recorded since the 1983 figure of 1,331.
- The **1,300** persons killed were the result of **1,179** fatal crashes for an average of **1.10** deaths per fatal crash.
- One person was killed every **6** hours, **44** minutes as a result of a traffic crash.
- For each person killed there were **91.3** persons injured.
- There were **118,727** persons injured, crippled, or maimed in crashes.
- One person was injured every **4** minutes, **26** seconds in a traffic crash in Michigan in 1992.
- Excessive speed was indicated as the hazardous action by **15.8** percent of the drivers involved in fatal crashes.
- Of the **1,844** drivers involved in fatal crashes, **11.9** percent were under 20 years of age and **25.6** percent of all drivers involved in fatal crashes were under 25 years of age.

- The pedestrian death toll for Michigan stands at **170** persons. This represents an decrease of **10** deaths over the 1991 figure.
- For each pedestrian killed, there were **12.4** pedestrians injured.
- Of the pedestrians killed, **27.1** percent were killed while crossing streets other than at intersections.
- Of all pedestrians killed, **23.5** percent were under the age of 20 years and **27.1** percent were 55 and older.
- During the past five years, a total of **1,020** pedestrians have been killed, an average of **204** per year.
- Of the **605,542** vehicle occupants involved in crashes, **464,093** or **76.6** percent were *reported* to have been using occupant restraints. Restraint usage among fatal victims was reported to be **33.4** percent in 1992.
- Children under the age of **15** accounted for **61.3** percent of the bicycle deaths.
- The economic loss in Michigan traffic crashes amounted to **\$8,578,547,000**.



HISTORICAL

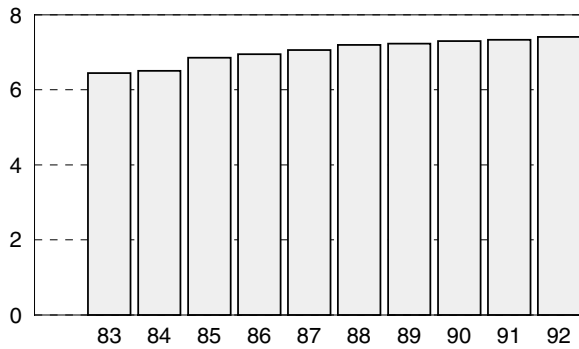
10, 5, & 1 YEAR DATA

INFO

10 YEAR

VEHICLE REGISTRATIONS

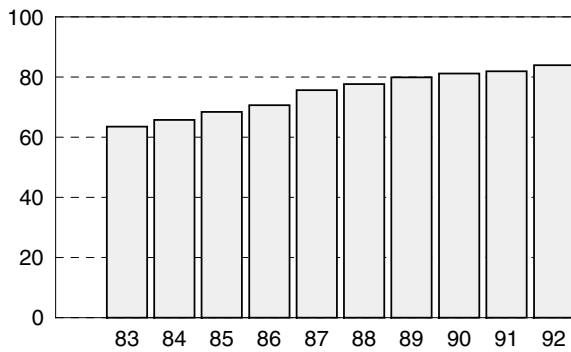
MILLIONS OF MOTOR VEHICLES



Vehicle Registrations have been increasing steadily since 1983, reaching 7,411,192 in 1992.

VEHICLES MILES TRAVELED

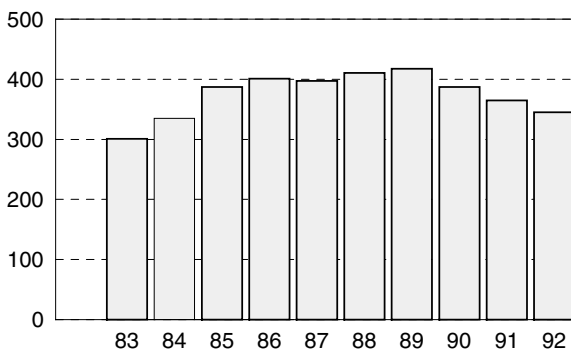
BILLIONS OF MILES



Vehicle miles of travel have increased about 32% since 1983, reaching 84.0 billion miles in 1992.

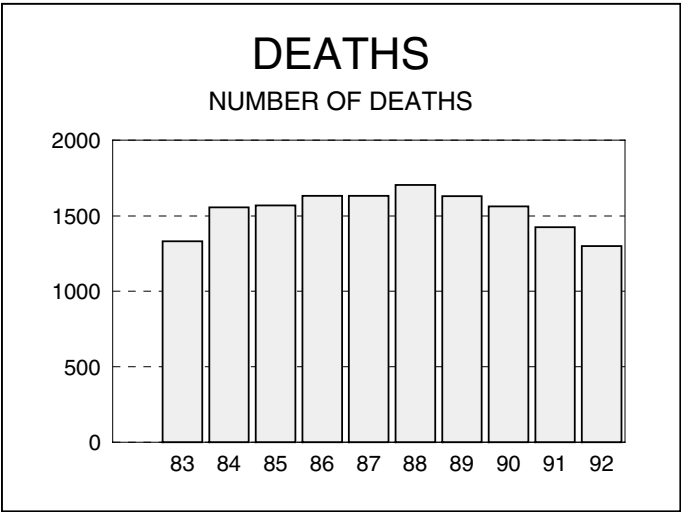
CRASHES

THOUSANDS OF CRASHES

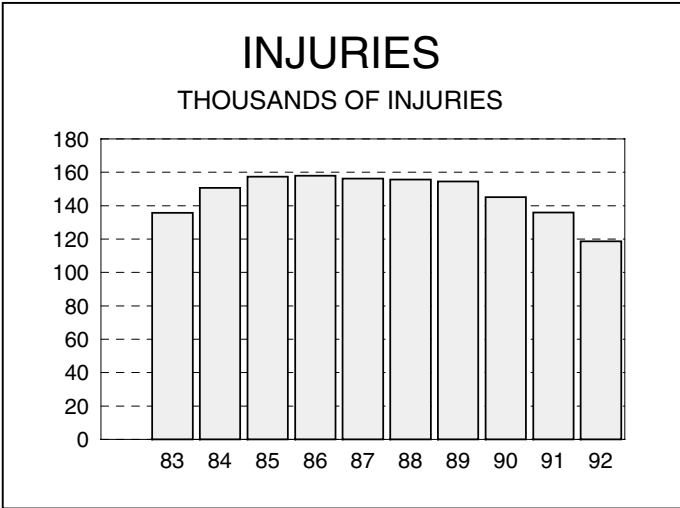


Total crashes increased from 1983, peaking in 1989. Since 1989, total number of crashes has decreased. Between 1991 and 1992, total crashes decreased 5.5% statewide.

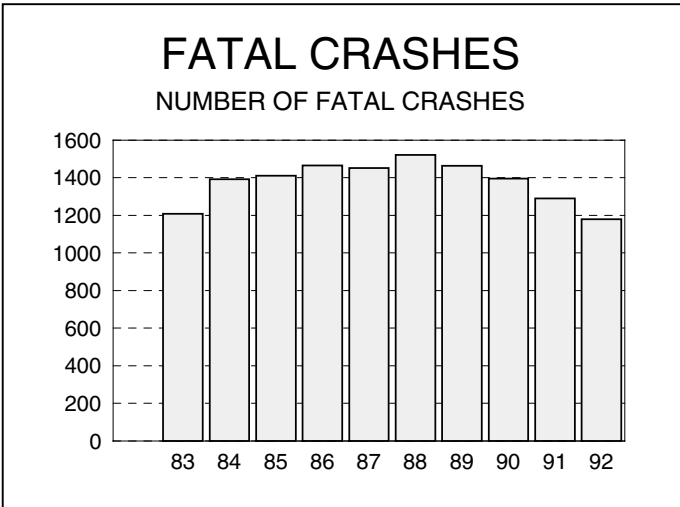
10 YEAR TRENDS (continued)



After reaching a peak in 1988, deaths in motor vehicle crashes declined 23.7%. In 1992, 1,300 people died in motor vehicle crashes.

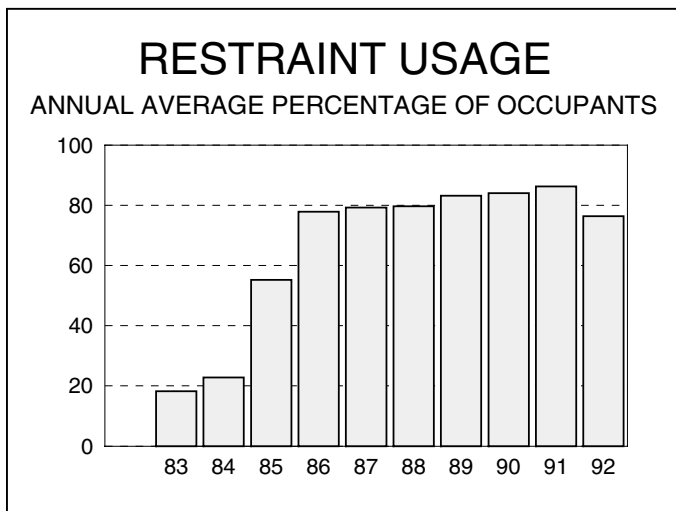


Mirroring the trend in deaths, nonfatal injuries have declined 23.8% since 1988. In 1992, 118,727 people received nonfatal injuries in Michigan motor vehicle crashes.

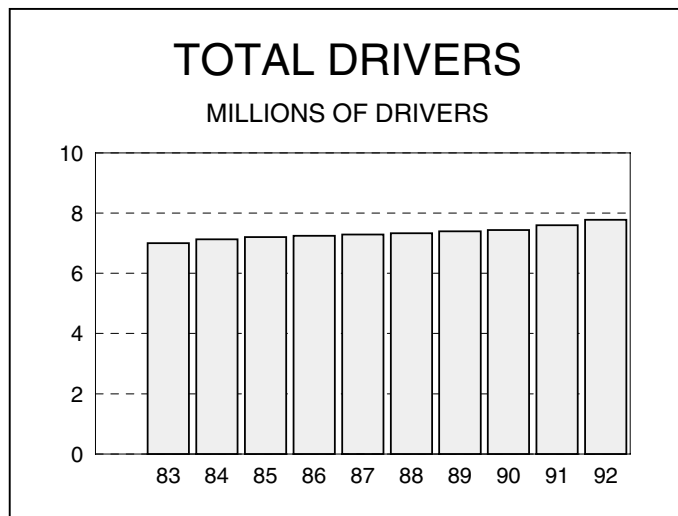


After reaching a peak in 1988, fatal crashes declined 29.1%. In 1992, there were 1,179 fatal crashes.

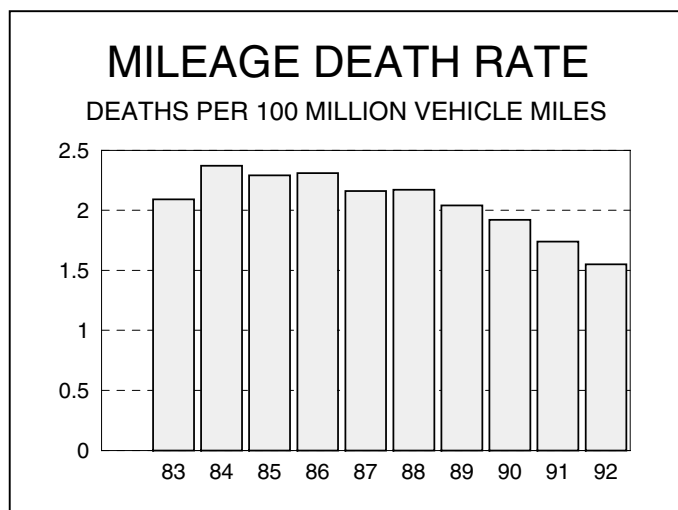
10 YEAR



The percentage of motor vehicle occupants using restraints as reported by police in traffic crashes increased dramatically following implementation of Michigan's safety belt law. It continued to increase slowly until declining for the first time in 1992.

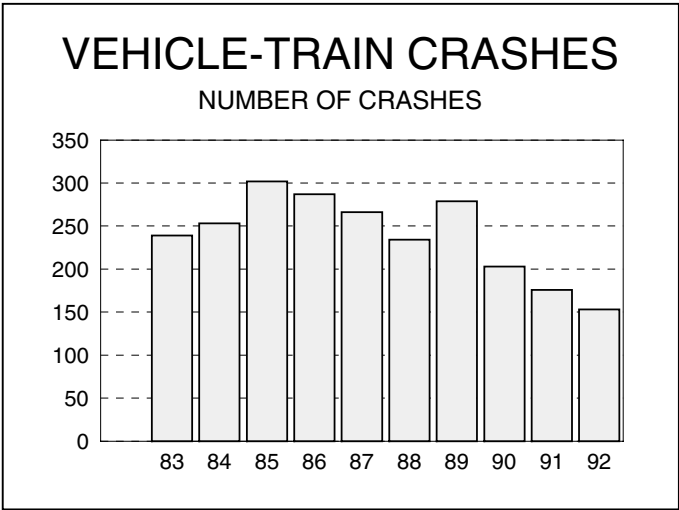


The number of drivers in Michigan has increased steadily since 1983, reaching 7.78 million drivers in 1992.

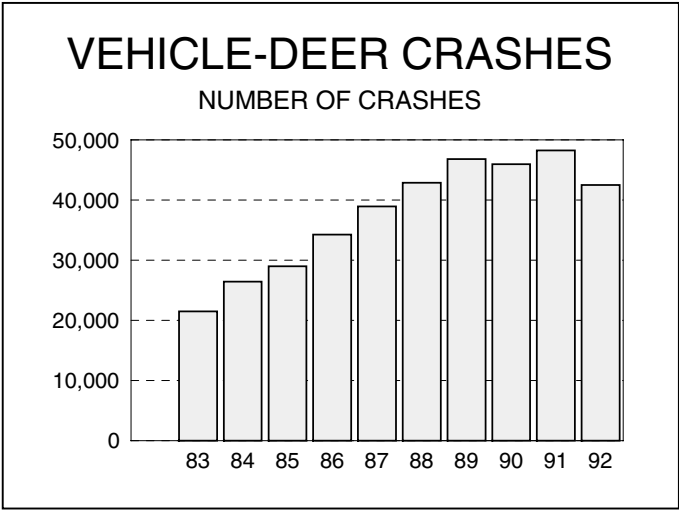


After a 10 year high of 2.37 deaths per 100 million vehicle miles in 1984, the death rate per mile driven has declined dramatically, reaching a low of 1.5 in 1992, a 34.6% decrease from the 1984 peak.

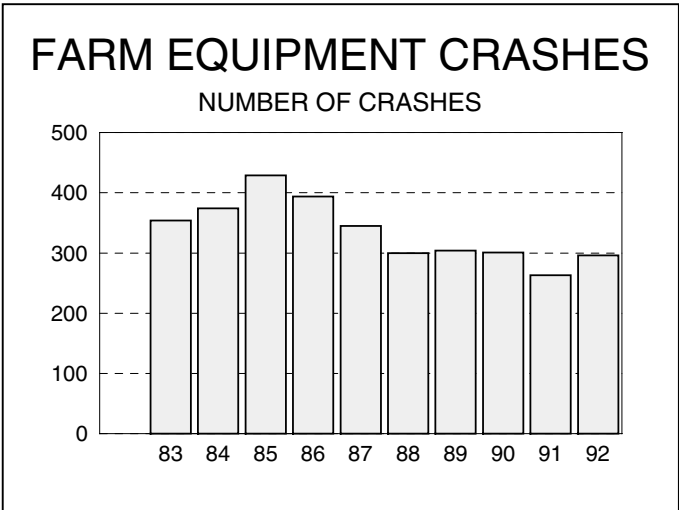
10 YEAR TRENDS (continued)



153 vehicle-train crashes occurred in 1992, continuing a pattern of decline since 1989.

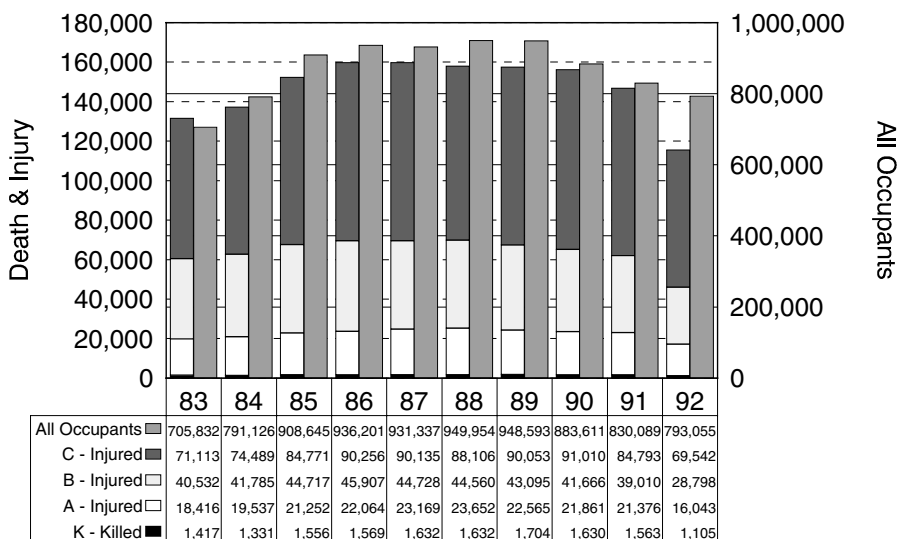


There has been a 97.6% rise from 21,509 vehicle-deer crashes in 1983 to 42,494 in 1992.



After reaching a peak in 1985, farm equipment crashes declined 31.0%. In 1992, there were 296 farm equipment crashes.

DEATH & INJURY PER CRASH INVOLVED OCCUPANTS



The number of deaths and injuries on Michigan roads continued to decline for the third consecutive year. However, 1,105 occupants of motor vehicles were fatally injured, 16,043 suffered an A (incapacitating) injury, 28,798 sustained a B (nonincapacitating) injury, and 69,542 sustained a C (apparently minor) injury.

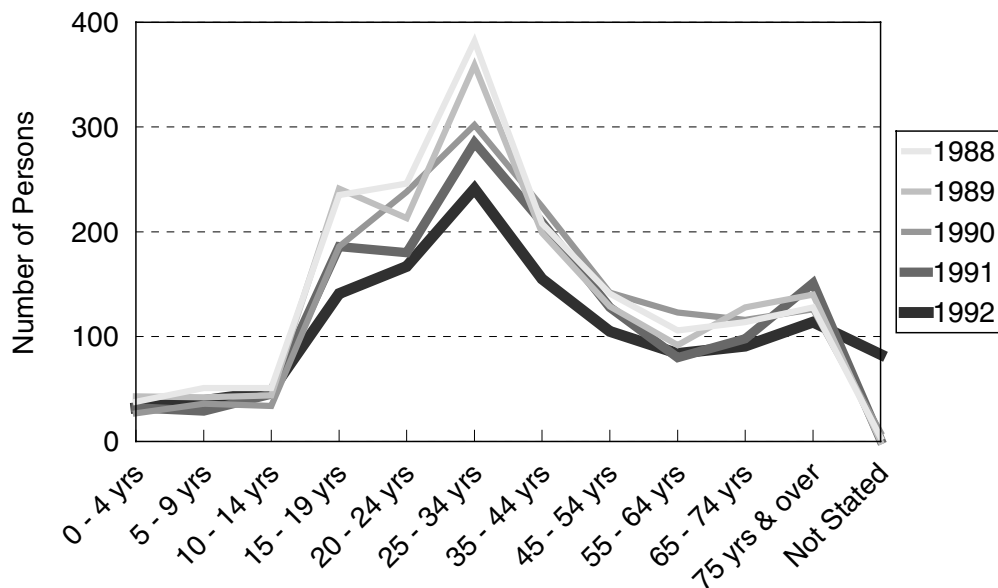
5

YEAR

TREND DATA FOR FATALITIES

TREND DATA	1988	1989	1990	1991	1992
AGE OF PERSONS KILLED, TOTAL					
0 - 4 years	38	43	27	32	32
5 - 9 years	51	42	36	29	39
10 - 14 years	51	44	34	45	48
15 - 19 years	235	241	186	186	141
20 - 24 years	246	213	238	180	167
25 - 34 years	382	359	302	285	241
35 - 44 years	208	199	224	209	155
45 - 54 years	141	129	142	128	105
55 - 64 years	106	92	123	80	84
65 - 74 years	114	128	116	98	91
75 years and over	128	140	126	151	114
Not Stated	4	0	9	2	83
TOTALS	1,704	1,630	1,563	1,425	1,300

Age of Persons Killed, Total



The chart above shows a large decrease in deaths in motor vehicle crashes in Michigan among persons age 15 - 44, with the most dramatic decrease being observed in the 25 - 34 age group.

5 YEAR

TREND DATA FOR FATALITIES	1988	1989	1990	1991	1992
AGE OF PERSONS KILLED, PEDESTRIANS					
0 - 4 years	8	10	12	9	9
5 - 9 years	23	16	14	5	14
10 - 14 years	18	9	15	12	7
15 - 19 years	16	15	9	13	10
20 - 24 years	16	17	18	13	11
25 - 34 years	58	29	37	30	22
35 - 44 years	38	27	37	30	18
45 - 54 years	26	16	16	14	14
55 - 64 years	10	15	19	17	13
65 - 74 years	15	8	19	12	13
75 years and over	25	28	28	24	20
Not Stated	1	0	2	1	19
TOTALS	254	190	226	180	170
AGE OF DRIVERS INVOLVED					
15 years and under	16	16	14	10	13
16 years	56	52	46	54	46
17 years	75	69	52	38	49
18 - 19 years	183	180	128	127	111
20 - 24 years	408	347	358	300	253
25 - 34 years	612	607	566	496	430
35 - 44 years	366	381	351	362	289
45 - 54 years	217	205	245	203	166
55 - 64 years	164	138	165	119	124
65 years and over	224	254	210	233	185
Not Stated	62	54	51	41	178
TOTALS	2,383	2,303	2,186	1,983	1,844
PEDESTRIAN ACTION					
Crossing at intersection	51	38	54	55	10
Cross not at intersection	99	86	77	56	46
In road with traffic	27	19	13	15	10
In road against traffic	5	2	8	1	4
Standing or lying in road	21	17	28	12	13
Pushing/working on vehicle	4	1	0	2	4
Other working in road	1	2	0	1	2
Playing in road	0	0	0	0	2
In road for other reason	11	12	13	16	5
Not in road	21	7	24	17	5
Other or not stated	14	6	9	5	64
Getting on/off vehicle					5
TOTALS	254	190	226	180	170

5

YEAR

FATAL CRASHES AND PERSONS KILLED FOR SELECTED HOLIDAY PERIODS IN MICHIGAN

HOLIDAY PERIOD	Fatal Crashes	Persons Killed	Summary for 1992
MEMORIAL DAY			
1992 (3)	16	18	
1991 (3)	16	20	
1990 (3)	15	16	
1989 (3)	12	15	
1988 (3)	19	22	
FOURTH OF JULY			
1992 (3)	17	20	This table shows traffic death tolls in Michigan for the past five years for the major holiday periods.
1991 (4)	18	20	
1990 (1)	9	10	
1989 (4)	22	23	
1988 (3)	16	20	
LABOR DAY			
1992 (3)	15	20	Based on the total 1992 experience, deaths averaged 3.6 per day.
1991 (3)	20	23	
1990 (3)	15	16	Based on the 1992 Holiday Period experience, deaths averaged 5.7 per day.
1989 (3)	23	29	
1988 (3)	16	17	
THANKSGIVING			
1992 (4)	18	19	
1991 (4)	13	16	
1990 (4)	18	19	
1989 (4)	14	14	
1988 (4)	20	24	
CHRISTMAS			
1992 (4)	14	20	
1991 (2)	6	6	
1990 (4)	15	18	
1989 (3)	22	27	
1988 (3)	8	14	
NEW YEARS			
1992 (4)	21	22	
1991 (2)	7	7	
1990 (4)	15	15	
1989 (3)	3	3	
1988 (3)	12	14	

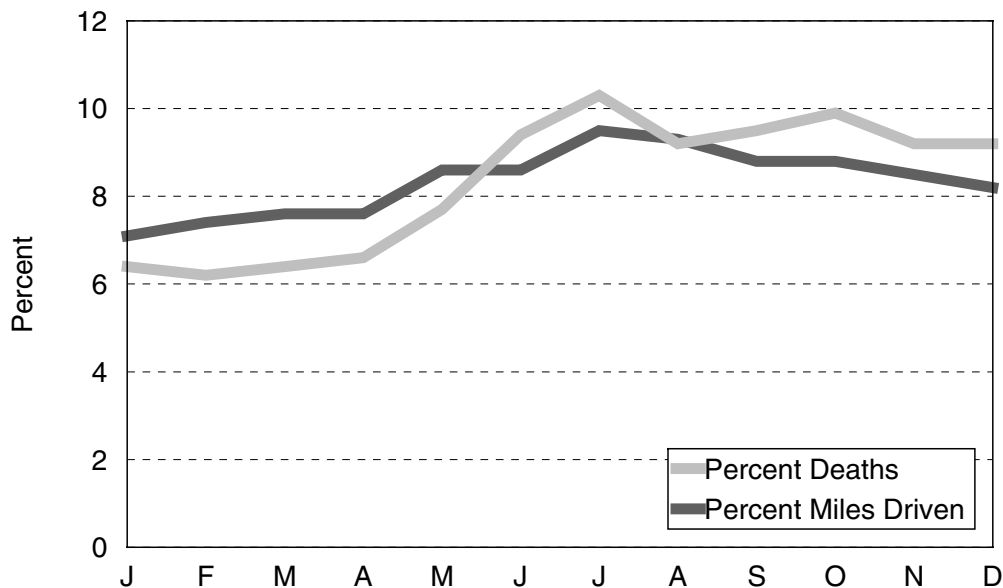
Figures in parentheses show number of full days in each holiday period. Deaths are for these days plus the six hours of the preceding day.

5 YEAR

MOTOR VEHICLE DEATHS AND MILEAGE BY MONTH

MONTH	TRAFFIC DEATHS					1992 PERCENTAGES	
	1988	1989	1990	1991	1992	Percent Deaths	Percent Miles Driven
January	129	138	99	103	83	6.4	7.1
February	107	102	84	79	81	6.2	7.4
March	103	94	122	115	83	6.4	7.6
April	104	96	94	106	86	6.6	7.6
May	145	123	135	129	100	7.7	8.6
June	152	156	151	145	122	9.4	8.6
July	175	156	165	130	134	10.3	9.5
August	158	177	170	141	119	9.2	9.3
September	178	155	141	125	123	9.5	8.8
October	159	146	147	129	129	9.9	8.8
November	127	123	130	104	120	9.2	8.5
December	167	164	125	119	120	9.2	8.2
TOTALS	1,704	1,630	1,563	1,425	1,300	100.0	100.0

Percent Deaths & Percent Miles Driven



The above chart shows that *fatal crashes per miles driven* has been lower for the months of January through March, than for the months of April through December in the last five years.

1

YEAR

1991 - 1992 SUMMARY TRENDS

- Deaths among vehicle occupants, drivers, and passengers decreased 9.9%.
- Alcohol was a factor in 33.6% of all fatal crashes where the drinking condition was reported, a decrease of 30.7%.
- Persons sustaining "A" level injuries (the most serious) decreased 15.6%.

	1991	1992	% CHANGE
NUMBER OF CRASHES			
Property Damage Crashes	272,078	262,673	-3.5
Fatal Crashes	1,290	1,179	-8.6
Personal Injury Crashes	91,479	81,090	-11.4
TOTAL	364,847	344,942	-5.5
ALCOHOL IN FATAL CRASHES			
Had Been Drinking (HBD)	571(44.3%)	396(33.6%)	-30.7
Had Not Been Drinking (HNBD)	706(54.7%)	783(66.4%)	10.9
Unknown If Drinking	13(1.0%)	0(0.0%)	-100.0
PERSONS IN CRASHES			
Killed and Injured	137,255	120,027	-12.6
Not Injured	766,758	444,695	-42.0
TOTAL	904,013	638,716	-29.3
PERSONS INJURED			
"A" Injury	20,232	17,076	-15.6
"B" Injury	36,049	30,554	-15.2
"C" Injury	79,549	71,097	-10.6
TOTAL	135,830	118,727	-12.6
PERSONS KILLED			
Male	932	874	-6.2
Female	493	426	-13.6
TOTAL	1,425	1,300	-8.8
Drivers	754	680	-9.8
Passengers	347	312	-10.1
Pedestrians	180	170	-5.6
Bicyclists	40	31	-22.5
Motorcyclist	86	48	-44.2
Farm Equipment	1	3	200.0
Train Engineer.....	N/A	0	N/A
Snowmobile	N/A	13	N/A
Other/Unknown	17	43	152.9
TOTAL	1,425	1,300	-8.8

1 YEAR

MORE MICHIGAN CRASH FACTS

CRASH FACTS	1991	1992	% Change
Deaths	1,425	1,300	-8.8
Injuries	135,830	118,727	-12.6
Crashes	364,847	344,942	-5.5
Drivers Involved	605,179	536,972	-11.3
Vehicles Involved	606,002	588,095	-3.0
Fatal Crashes	1,290	1,179	-8.6
Estimated MV Mileage Traveled (billions)	81.9	84.0	2.6
Death Rate Per 100-Million-Vehicle-Miles	1.7	1.5	-11.8
Fatal Crash Rate Per 100-Million-Veh-Miles	1.6	1.4	-12.5
Cost of Crashes		\$8,578,547,000	

Michigan experienced an 8.8% decline in traffic fatalities, as well as a 12.6% decline in injuries and a 5.5% decline in crashes. A 2.6% increase in vehicle mileage contributed to a 12.5% decrease in the fatality rate per mile.

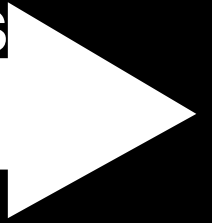
The National Safety Council [2] estimated a national decline in traffic fatalities of 7% between 1991 and 1992.

The cost estimate for Michigan crashes in 1992 (listed in the table above) is based on the National Safety Council's cost estimating procedures. Average comprehensive costs per person are based on the following figures:

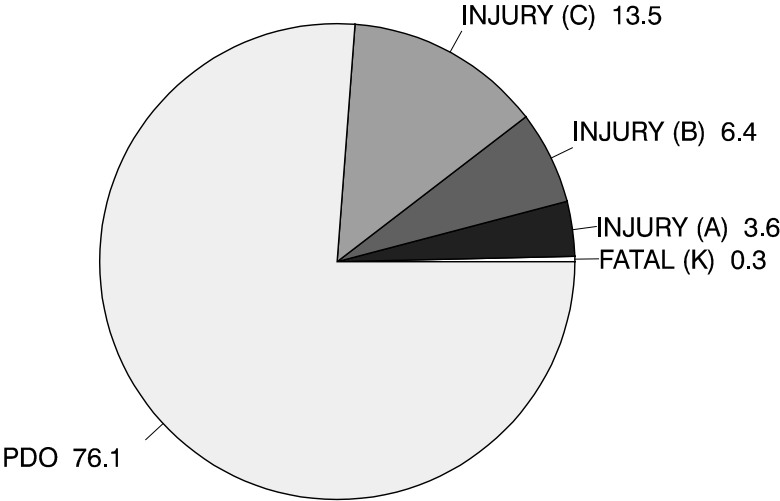
Comprehensive Costs, 1992	
Death	\$3,040,000
Incapacitating injury	\$117,400
Nonincapacitating evident injury	\$27,500
Possible injury	\$13,800
No injury	\$1,800

The procedures used by the National Safety Council were extensively revised in 1993, and comparisons to previous year's cost estimates are not practicable.

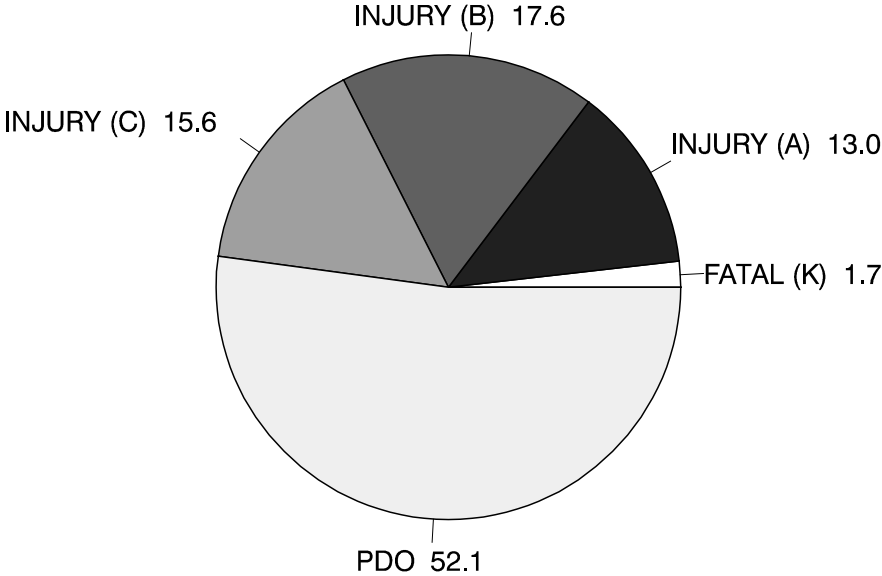
HIGHLIGHTS



ALL CRASHES BY INJURY SEVERITY



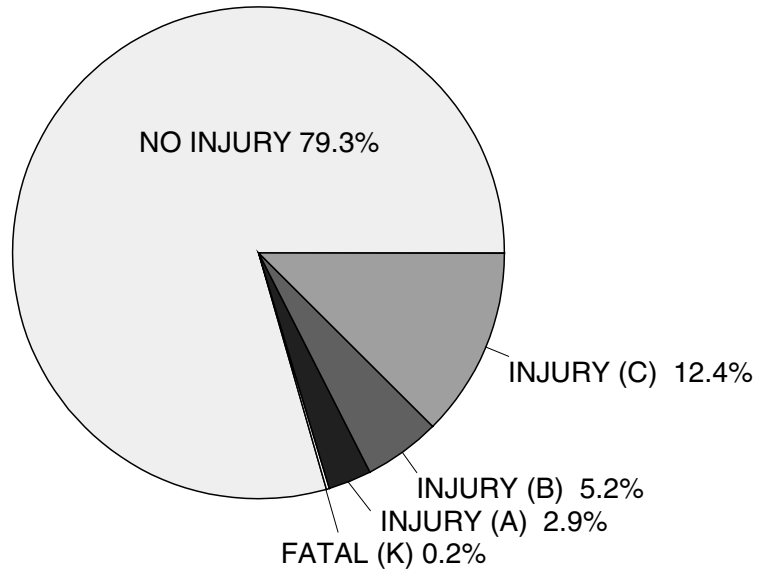
HBD CRASHES BY INJURY SEVERITY



The problem of the drinking driver, pedestrian, and/or cyclist is seen when one compares the two charts on this page. A fatality in the crash is six times more likely when one of the crash-involved operators is reported as had been drinking.

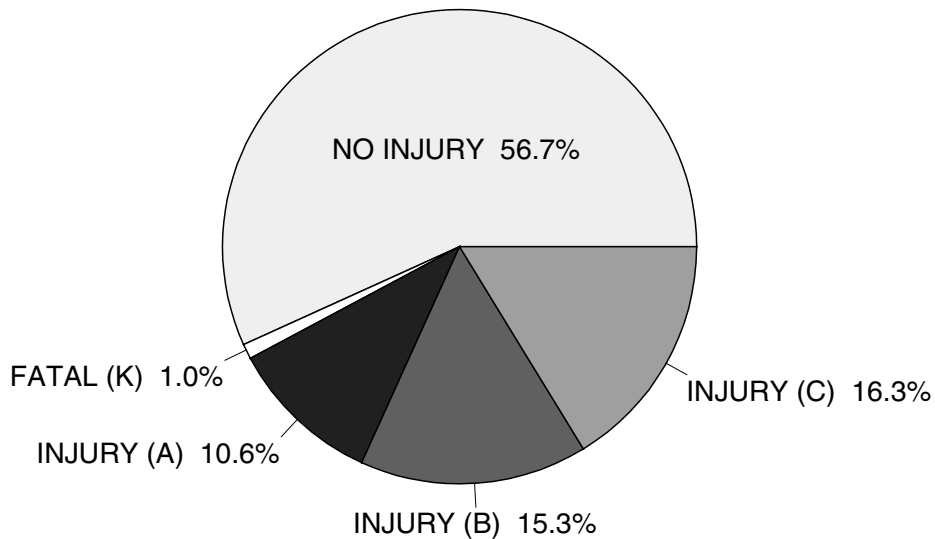
DEATH & INJURY PER CRASH INVOLVED OCCUPANT

Occupants in Crashes



The majority of people involved in crashes (79.3%) are not injured. More than half of those who are injured receive only minor (C) injuries. Increased use of occupant restraints and airbags can reduce the number of killed and injured even further.

Occupants in HBD Crashes

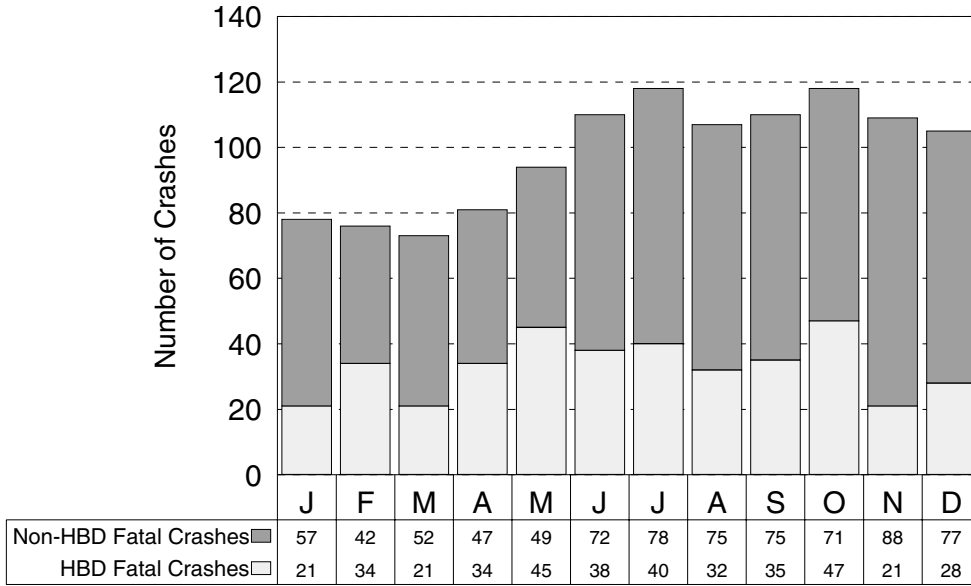


Crashes involving drinking tend to be more serious than nondrinking crashes. The percentage of fatalities is five times higher than in all crashes and the more serious injury levels are about three times higher.

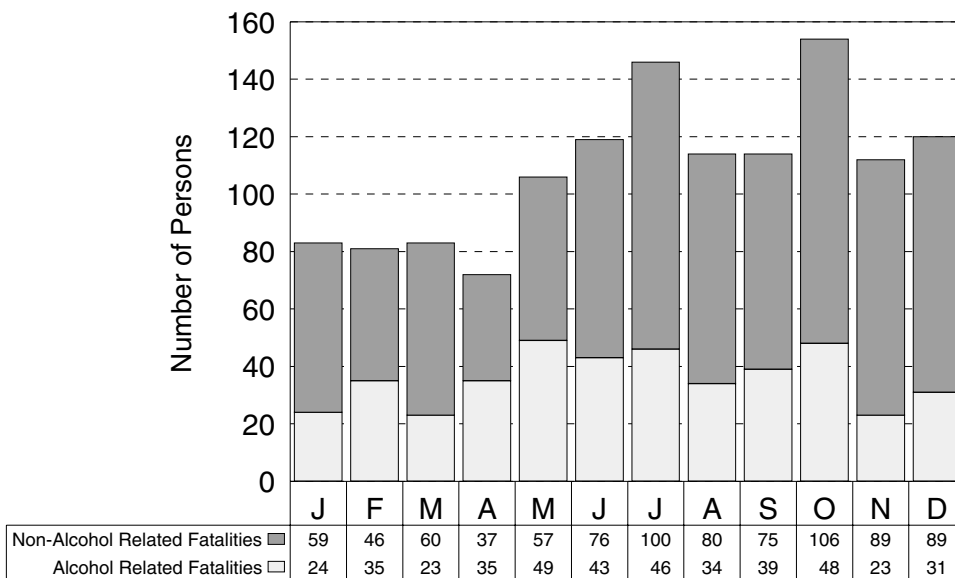
ALCOHOL INVOLVEMENT IN FATAL CRASHES

Fatal crashes are lowest in number during the winter months and increase steadily from March on, peaking in July. The number of fatal crashes then slowly decreases again in late fall. These numbers follow the increase in travel during the summer months. The number of HBD fatal crashes by month does not show a discernible trend. Total persons killed in fatal crashes closely follows the number of crashes, as would be expected.

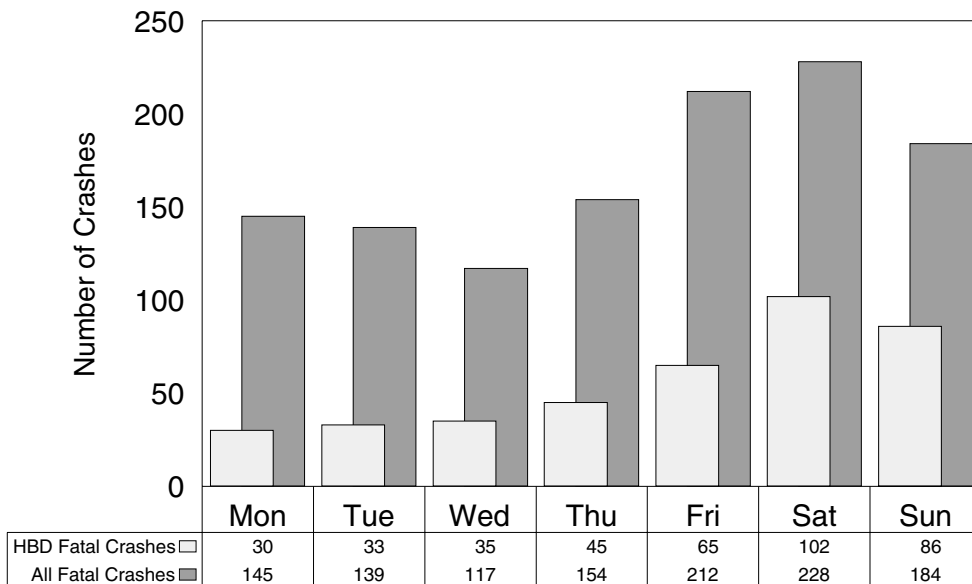
Fatal Crashes by Month



Total Persons Killed by Month

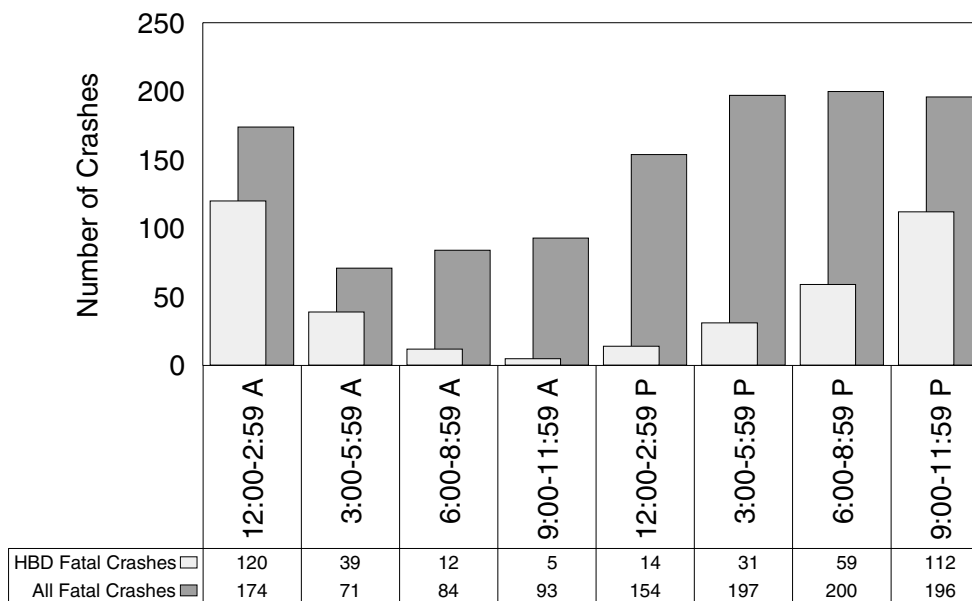


HBD Fatal Crashes by Day of Week



Saturday has the most fatal crashes, and also the highest proportion of drinking related fatal crashes. Almost half (44.7%) of Saturday fatal crashes involved drinking, while only 20.7% of fatal crashes on Monday involved drinking.

HBD Fatal Crashes by Time of Day

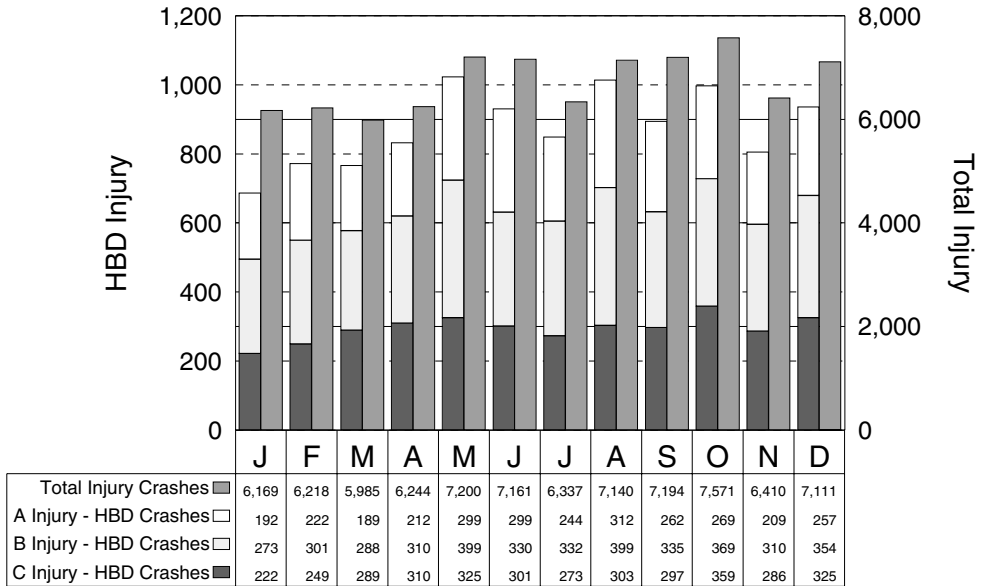


Not surprisingly, the midnight to 3:00 AM time period has the highest rate of drinking involvement (70%), while the late morning hours are the lowest (5.4%).

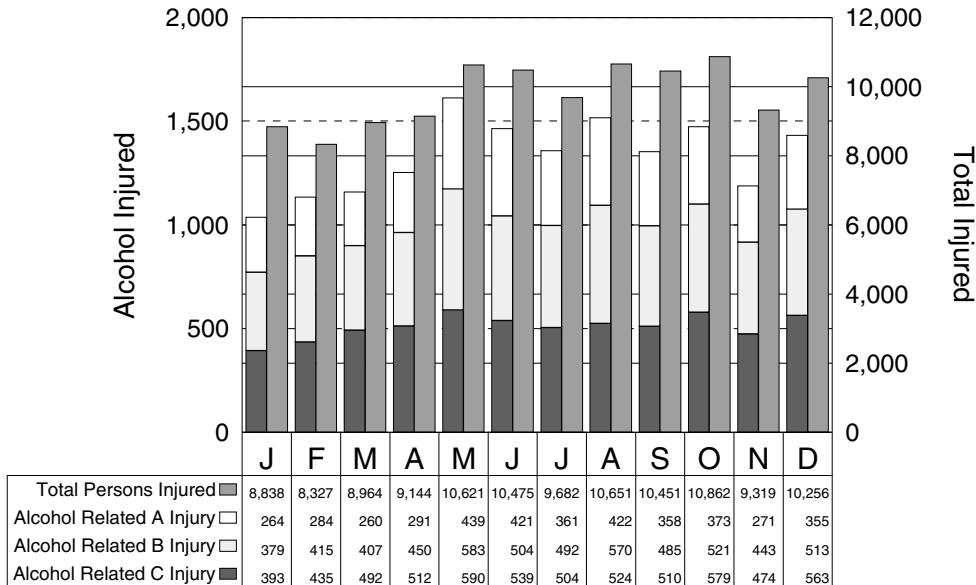
ALCOHOL INVOLVEMENT IN INJURY CRASHES

Alcohol involvement in injury crashes is an important indicator of the alcohol impaired driving problem. In 1992, HBD Injury crashes were highest in May, August, and October, with about 1,000 HBD Injury crashes in each of those months. The highest proportion of HBD Injury crashes occurred in May with 14.2% of the injury crashes involving alcohol.

HBD Injury Crashes by Month

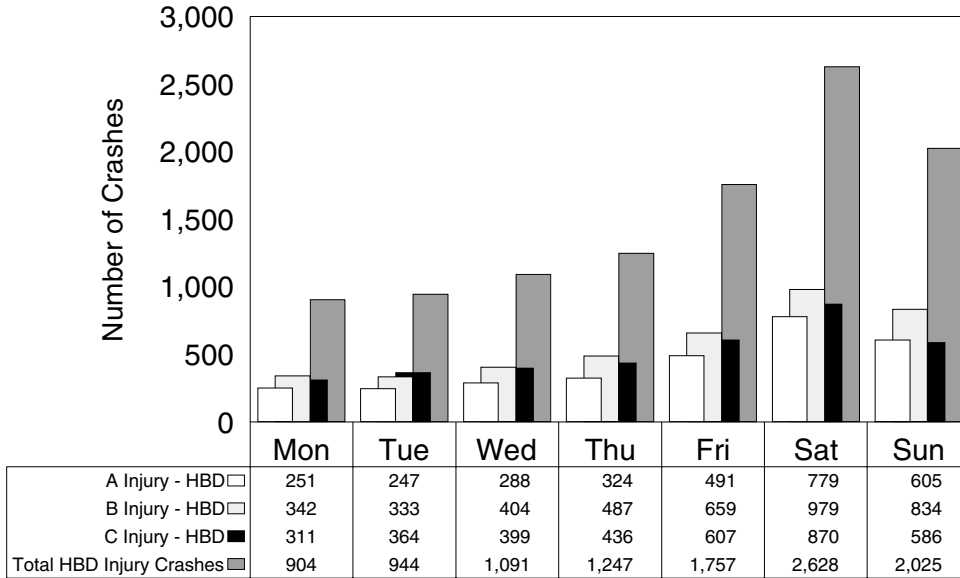


Total Persons Injured by Month

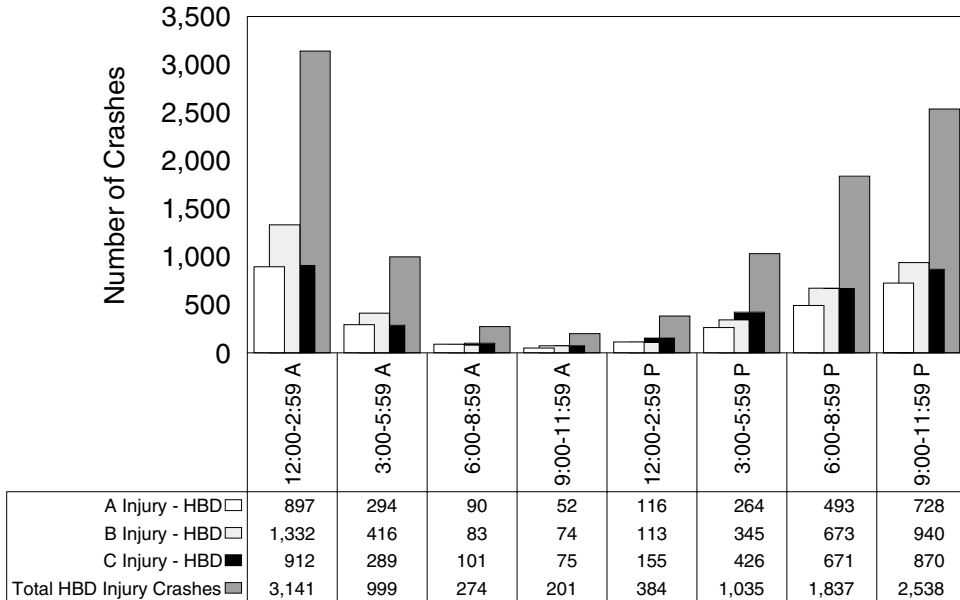


HBD Injury crashes follow the same basic trends as total crashes seen in the following charts. Crash frequency peaks on Friday, Saturday, and Sunday, and in the hours between 6:00 PM and 3:00 AM (12:00 AM - 3:00 AM is a particularly hazardous travel period).

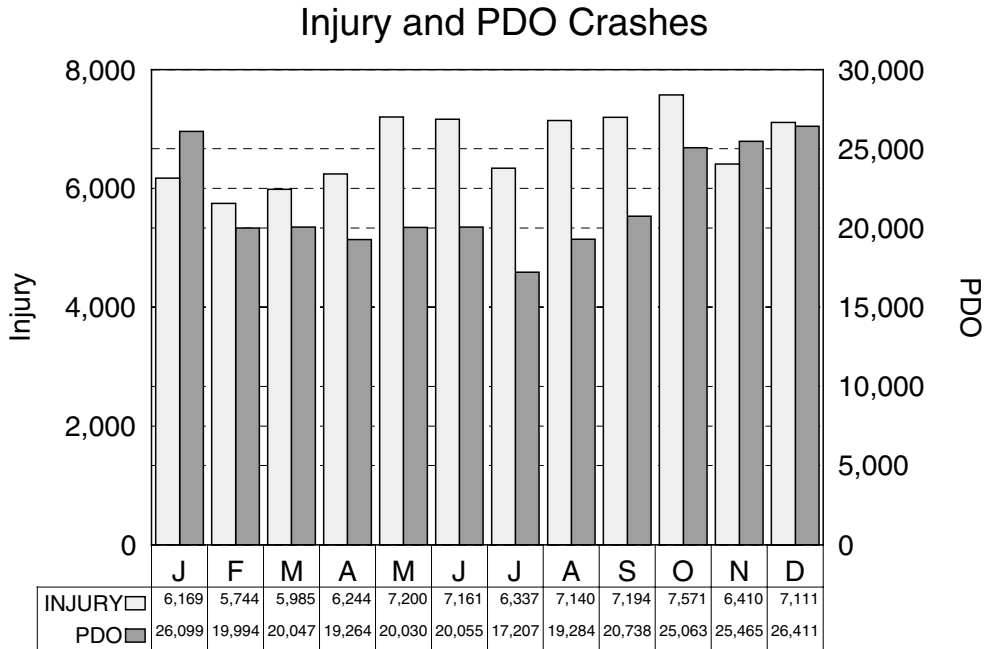
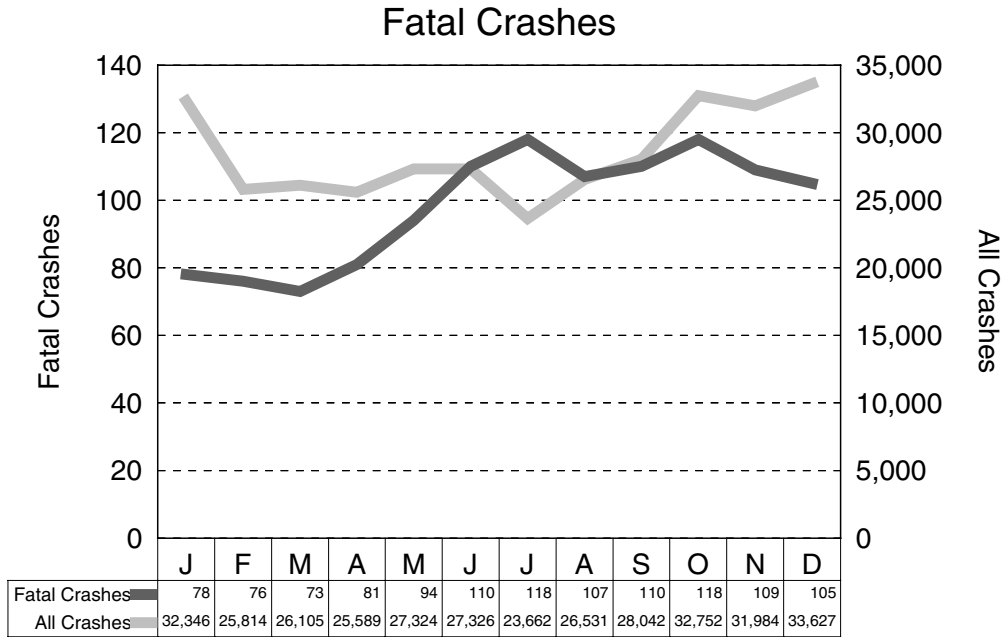
HBD Injury Crashes by Day of Week



HBD Injury Crashes by Time of Day



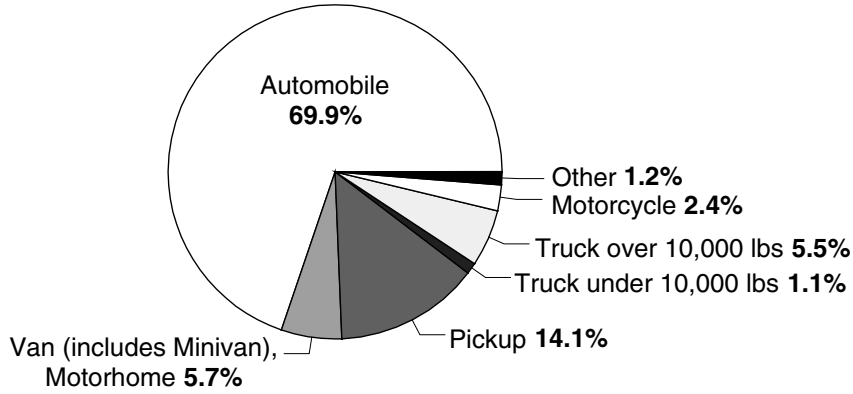
ALL CRASHES INJURY SEVERITY BY MONTH



The charts on this page show that the months of June, July, and August are peak months in terms of the ratio of the number of crashes involving death or injury to the number of non-injury crashes. That is, if a person was involved in a crash in June - August, there was a higher chance of that crash resulting in death or injury to one of the involved persons than if that crash happened during one of the other months.

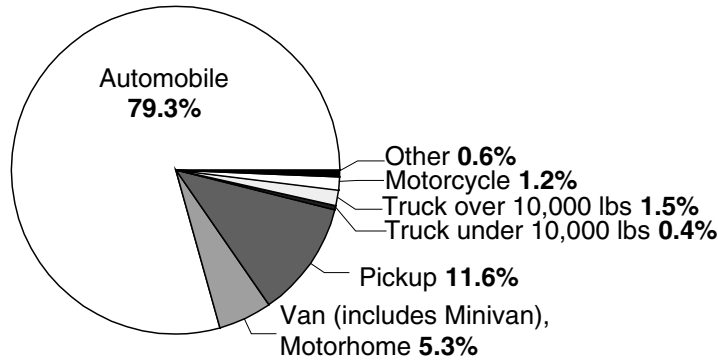
VEHICLE TYPES IN CRASHES BY CRASH SEVERITY

FATAL



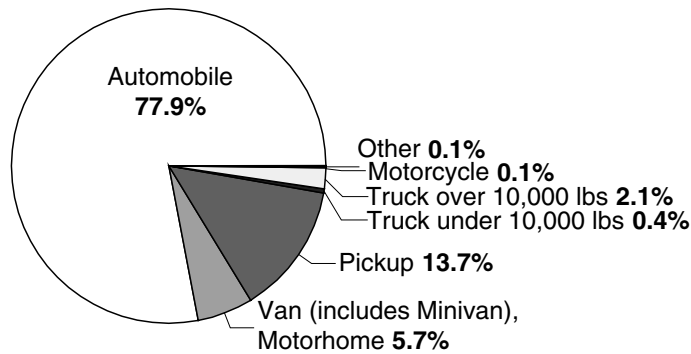
The top chart shows that 5 out of 6 vehicles involved in fatal crashes are automobiles or pickups. The next most frequent vehicle type is van (includes the popular minivan), motorhome (5.7%).

INJURY

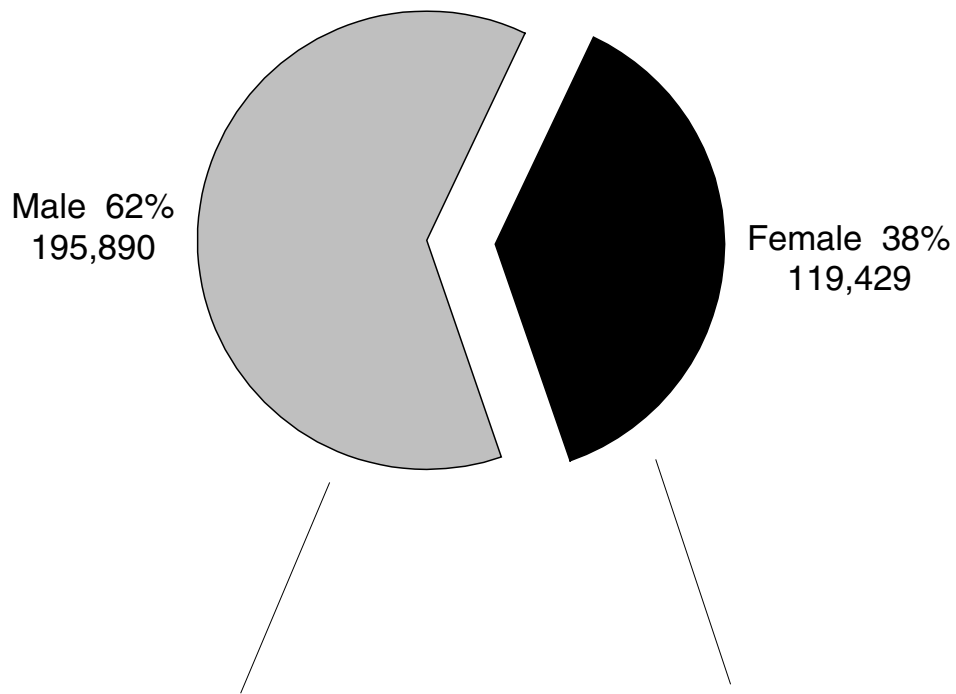


As with fatal crashes, Injury and PDO crashes are predominated by cars and pickups. One should also note the decline in proportional representation for motorcycles and heavy trucks compared to their levels in fatal crashes.

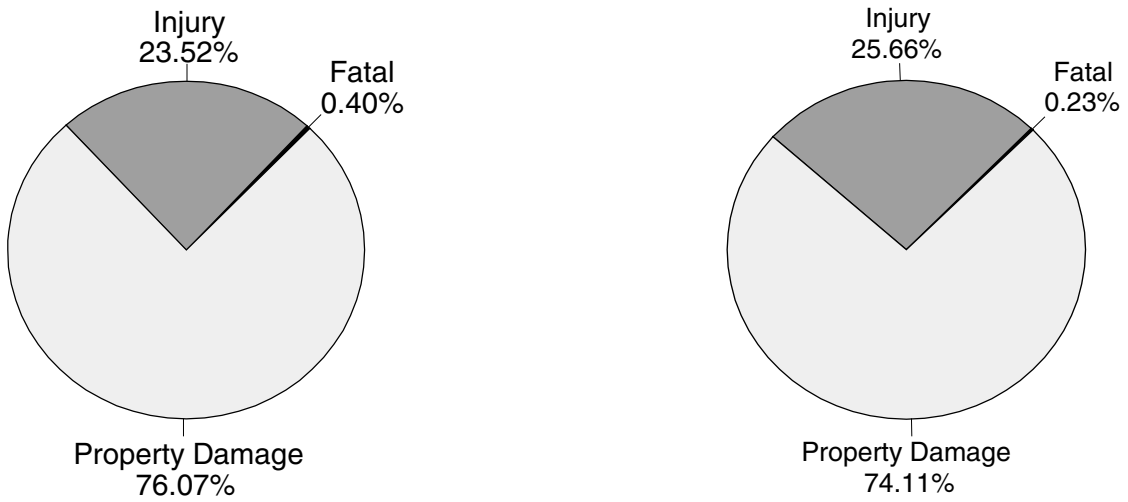
PROPERTY DAMAGE ONLY



DRIVER GENDER INFORMATION - ALL CRASHES

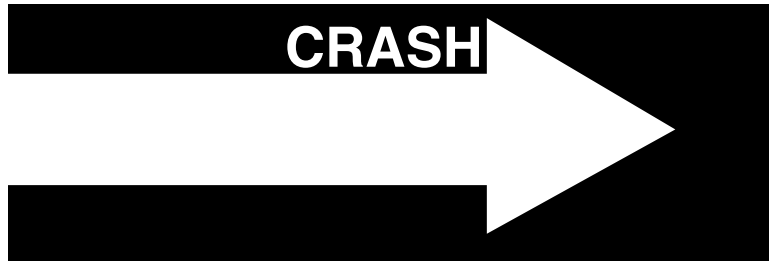


Crash Severity



A higher proportion of crashes involve male drivers than female drivers. When we examine the severity of crashes involving drivers of each gender, we see that fatal crashes are twice as prevalent among male drivers than female drivers (0.4% vs. 0.2%).

CRASH

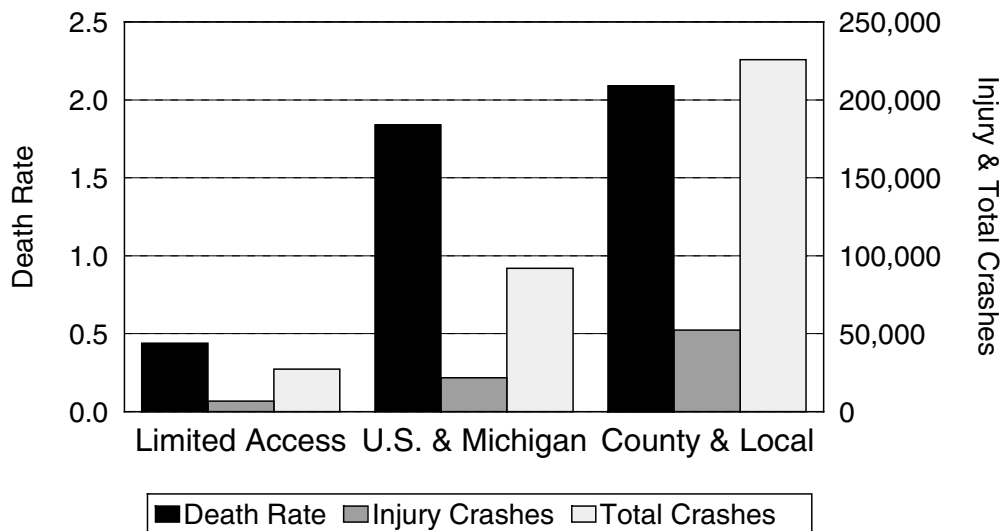


CRASH EXPERIENCE BY ROADWAY TYPE

The table below provides a detailed breakdown of estimated vehicle mileage, crashes, death rates (deaths per 100 million vehicle miles), and crash rates (crashes per 100 million vehicle miles) for the major roadway types in Michigan. All rates are highest on county and local roads and lowest on limited access highways. 1992 estimated mileage figures were provided by the Michigan Department of Transportation [3].

STATEWIDE	Estimated Mileage (Billions)	All Crashes	Injury Crashes	Deaths	Total Crash Rate	Injury Crash Rate	Death Rate
Limited Access Roadways	24.5	27,330	6,859	109	111.6	28.0	0.44
U.S. & Michigan Roads	20.1	91,879	21,841	369	457.1	108.7	1.84
County & Local Roads	39.4	225,733	52,390	822	572.9	133.0	2.09
TOTALS	84.0	344,942	81,090	1,300	410.6	96.5	1.55

Rates per 100 Million Vehicle Miles



CRASH TYPE

CRASH TYPE	All Crashes		Fatal Crashes		Injury			PDO
	Number	% of Total	Number	% of Fatal	A	B	C	
Head On	37,306	10.8	255	21.6	1,960	2,656	2,758	29,677
Head On - Left Turn	16,356	4.7	73	6.2	1,104	1,699	2,772	10,708
Angle	74,706	21.7	324	27.5	3,529	6,276	11,577	53,000
Rear End	77,918	22.6	59	5.0	1,539	3,656	17,007	55,657
Rear End - Left Turn	7,147	2.1	6	0.5	151	324	928	5,738
Rear End - Right Turn	6,422	1.9	1	0.1	114	226	722	5,359
Sideswipe - Same Direction	34,103	9.9	17	1.4	399	925	2,339	30,423
Sideswipe - Opposite Direct	15,162	4.4	22	1.9	281	568	1,132	13,159
Other	66,124	19.2	397	33.7	3,146	5,197	6,426	50,958
Unknown	9,698	2.8	25	2.1	320	475	884	7,994
Totals	344,942	100.0	1,179	100.0	12,543	22,002	46,545	262,673

Head On, Angle, and “Other” crash types produce the highest number of fatal crashes (89.0%). The “Other” category includes single vehicle crashes, such as rollovers, which are particularly deadly crash types. Rear End and Sideswipe crashes produce the lowest number of fatal crashes (8.9%).

RELATION TO ROADWAY

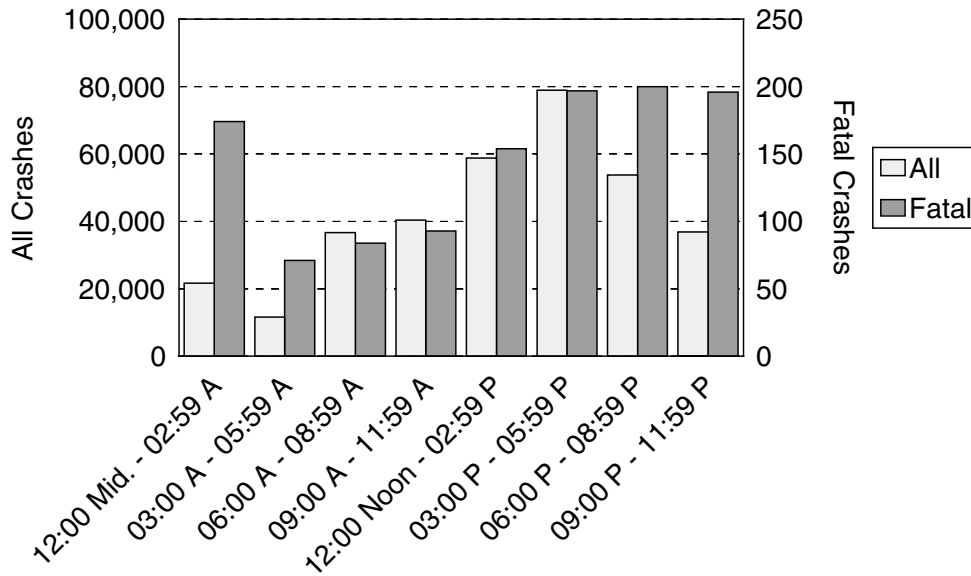
LOCATION OF FIRST IMPACT	All Crashes		Fatal Crashes		Injury			PDO
	Number	% of Total	Number	% of Fatal	A	B	C	
On Road	288,550	83.7	814	69.0	9,023	16,307	39,943	222,463
Median	2,194	0.6	17	1.4	162	237	304	1474
Shoulder	15,403	4.5	76	6.4	813	1,338	1,677	11,499
Outside of Shoulder/Curb	28,062	8.1	246	20.9	2,100	3,464	3,585	18,667
Gore	667	0.2	4	0.3	39	67	103	454
Other/Unknown	10,066	2.9	22	1.9	406	589	933	8,116
Totals	344,942	100.0	1,179	100.0	12,543	22,002	46,545	262,673

Crashes that happen outside of the normal driving lanes are overrepresented in causing fatalities. Only 8.1% of crashes occur outside the shoulder of the road, but these crashes account for 20.9% of the fatal crashes.

TIME AND SEVERITY

TIME OF DAY	All Crashes		Fatal Crashes		Injury			PDO
	Number	% of Total	Number	% of Fatal	A	B	C	
12:00 mid. - 02:59 a.m.	21,660	6.3	174	14.8	1,347	2,168	2,303	15,668
03:00 a.m. - 05:59 a.m.	11,660	3.4	71	6.0	555	879	1,033	9,122
06:00 a.m. - 08:59 a.m.	36,651	10.6	84	7.1	1,092	1,749	4,596	29,130
09:00 a.m. - 11:59 a.m.	40,429	11.7	93	7.9	1,317	2,228	5,739	31,052
12:00 noon - 02:59 p.m.	58,845	17.1	154	13.1	1,933	3,718	9,153	43,887
03:00 p.m. - 05:59 p.m.	78,911	22.9	197	16.7	2,574	5,022	12,178	58,940
06:00 p.m. - 08:59 p.m.	53,769	15.6	200	17.0	1,902	3,371	6,682	41,614
09:00 p.m. - 11:59 p.m.	36,882	10.7	196	16.6	1,619	2,532	4,121	28,414
Unknown	6,135	1.8	10	0.8	204	335	740	4,846
Total	344,942	100.0	1,179	100.0	12,543	22,002	46,545	262,673

Time and Severity

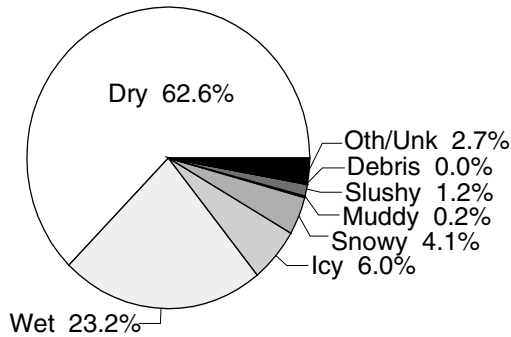


Crash frequencies peak in midafternoon and drop off by midnight, while fatal crash frequencies rise with the frequency of other crashes, but continue at a high rate well into the early morning hours. There are proportionally more fatal crashes during the midnight to 3:00 AM time period.

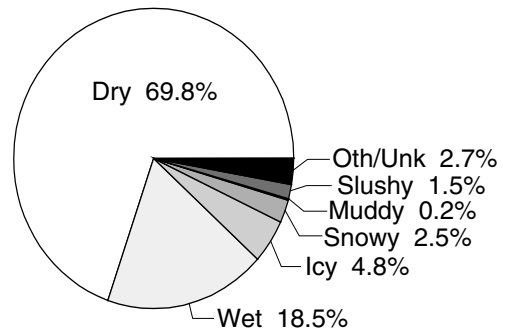
ROAD CONDITION

ROAD SURFACE CONDITION	All Crashes		Fatal Crashes		Injury			PDO
	Number	% of Total	Number	% of Fatal	A	B	C	
Dry	215,871	62.6	823	69.8	8,391	14,621	28,516	163,520
Wet	80,094	23.2	218	18.5	2,626	4,792	12,527	59,931
Icy	20,642	6.0	57	4.8	632	1,075	2,437	16,441
Snowy	14,129	4.1	29	2.5	352	634	1,363	11,751
Muddy	704	0.2	2	0.2	24	54	93	531
Slushy	4,173	1.2	18	1.5	158	264	523	3,210
Debris	128	0.0	0	0.0	7	11	18	92
Other/Unknown	9,201	2.7	32	2.7	353	551	1,068	7,197
Totals	344,942	100.0	1,179	100.0	12,543	22,002	46,545	262,673

ALL CRASHES



FATAL CRASHES

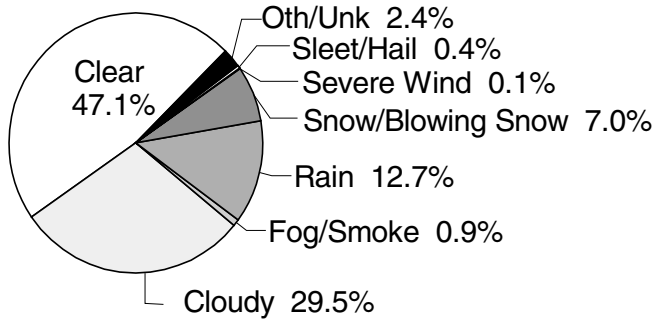


Most crashes (62.6%) and most fatal crashes (69.8%) occur on dry roads. This indicates that Michigan drivers do a good job of adjusting their driving behavior for bad road conditions.

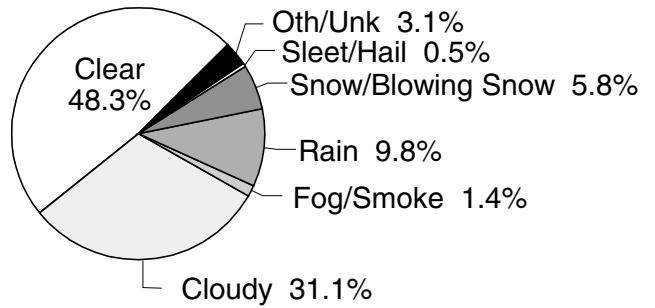
WEATHER CONDITION

WEATHER CONDITION	All Crashes		Fatal Crashes		Injury			PDO
	Number	% of Total	Number	% of Fatal	A	B	C	
Clear	162,316	47.1	569	48.3	6,364	10,912	21,174	123,297
Cloudy	101,916	29.5	367	31.1	3,573	6,396	13,992	77,588
Fog/Smoke	3,037	0.9	17	1.4	129	189	320	2,382
Rain	43,709	12.7	115	9.8	1,489	2,816	7,164	32,125
Snow/Blowing Snow	24,061	7.0	68	5.8	631	1,164	2,760	19,438
Severe Wind	192	0.1	0	0.0	11	6	17	158
Sleet/Hail	1,420	0.4	6	0.5	54	108	207	1,045
Other/Unknown	8,291	2.4	37	3.1	292	411	911	6,640
Totals	344,942	100.0	1,179	100.0	12,543	22,002	46,545	262,673

ALL CRASHES



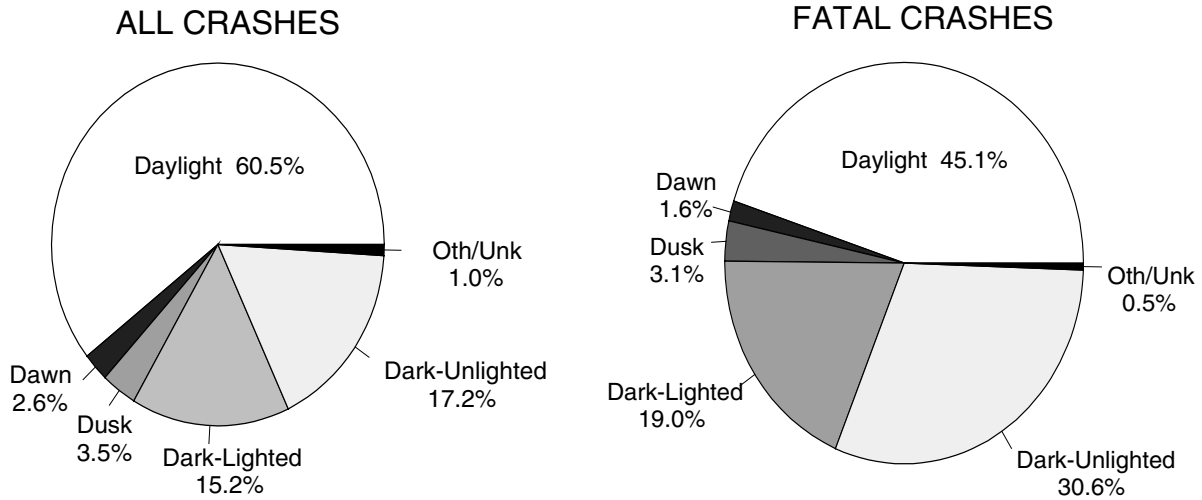
FATAL CRASHES



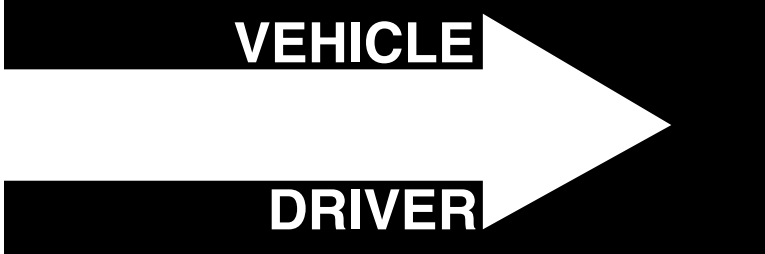
The majority of all crashes occur in good weather (47.1%) as do the majority of fatal crashes (48.3%). Of bad weather conditions, fog and smoke present the greatest hazard as they are overrepresented in fatal crashes.

LIGHT CONDITION

LIGHT CONDITION	All Crashes		Fatal Crashes		Injury			PDO
	Number	% of Total	Number	% of Fatal	A	B	C	
Daylight	208,796	60.5	532	45.1	7,232	13,258	31,907	155,867
Dawn	9,000	2.6	19	1.6	222	362	861	7,536
Dusk	12,079	3.5	37	3.1	338	714	1,508	9,482
Dark - Lighted	52,392	15.2	224	19.0	2,324	4,033	7,518	38,293
Dark - Unlighted	59,376	17.2	361	30.6	2,333	3,531	4,500	48,651
Other/Unknown	3,299	1.0	6	0.5	94	104	251	2,844
Totals	344,942	100.0	1,179	100.0	12,543	22,002	46,545	262,673



The majority of all crashes happen during the day, while the majority of fatal crashes happen at night. Areas without street lights have the highest fatality rate.



VEHICLE TYPE CRASH INVOLVEMENT

TYPES	MOST SEVERE OUTCOME IN CRASH						MOST SEVERE OUTCOME IN VEHICLE			
	Motor Vehicles		Fatal Crash		Injury	PDO	Fatality in Veh		Injury	PDO
	Number	% of Total	Number	% of Total			Number	% of Total		
Passenger Car and Station Wagon	446,069	73.8	1,260	57.7	114,202	330,607	732	61.0	73,707	327,413
Van and Motorhome	32,069	5.3	103	4.7	7,653	24,313	42	3.5	3,973	25,148
Pickup	69,501	11.5	235	10.8	15,495	53,771	110	9.2	8,648	55,145
Small Truck	5,557	0.9	19	0.9	1,260	4,278	6	0.5	597	4,445
Cycle	2,300	0.4	44	2.0	1,793	463	44	3.7	1,748	387
Moped	338	0.1	4	0.2	256	78	3	0.3	247	58
Go Cart	42	0.0	0	0.0	17	25	0	0.0	14	14
Snowmobile	558	0.1	14	0.6	381	163	12	1.0	333	168
Off Road Vehicle	175	0.0	4	0.2	133	38	3	0.3	128	39
Medium Truck	2,342	0.4	20	0.9	590	1,732	13	1.1	279	1,828
Commercial Vehicle: Group A	6,869	1.1	68	3.1	1,375	5,426	4	0.3	345	6,094
Commercial Vehicle: Group B	3,764	0.6	27	1.2	744	2,993	4	0.3	230	3,332
Commercial Vehicle: Group C	483	0.1	5	0.2	102	376	0	0.0	40	420
Unknown	34,463	5.7	379	17.4	9,031	25,053	227	18.9	5,905	8,651
Totals	604,530	100.0	2,182	100.0	153,032	449,316	1,200	100.0	96,194	433,142

Group "A" is any vehicle that is towing a vehicle or trailer that has a gross vehicle weight rating (GVWR) over 10,000 lbs.

Group "B" is any single vehicle (including buses) with a GVWR of 26,001 lbs. or more. This would include a combination of vehicles with a combined GVWR over 26,000 lbs. when towing a trailer that has a GVWR of 10,000 lbs. or less.

Group "C" is any single vehicle with a GVWR of less than 26,001 lbs. or a combination of vehicles having a combined GVWR under 26,001 lbs. when the vehicle is required to display placards for hazardous material or designed to carry 16 passengers (including driver). Group "C" is also any vehicle carrying 15 or less people (including driver) transporting children to or from school and home on a regular basis for compensation.

ACTION PRIOR TO CRASH

MOST SEVERE OUTCOME IN CRASH

DRIVER ACTION	All Drivers		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
Going straight ahead	289,840	55.8	1,211	12,328	20,952	44,946	210,403
Turning left	45,421	8.7	95	2,007	3,766	7,389	32,164
Turning right	15,380	3.0	8	284	697	1,618	12,773
Stopped on roadway	47,745	9.2	37	1,137	2,505	11,382	32,684
Changing lanes	11,070	2.1	30	296	476	1,241	9,027
Backing	13,705	2.6	8	82	180	514	12,921
Slowing/stopping on roadway	29,035	5.6	16	479	1,208	6,181	21,151
Starting up on roadway	6,709	1.3	7	239	471	1,277	4,715
Entering parking	1,144	0.2	1	15	25	101	1,002
Leaving parking	2,914	0.6	2	90	129	307	2,386
Entering roadway	8,311	1.6	21	277	571	1,265	6,177
Leaving roadway	3,842	0.7	47	402	558	503	2,332
Making U-turn	1,818	0.4	8	83	121	255	1,351
Overtaking or passing	6,632	1.3	34	286	454	823	5,035
Avoiding object	2,274	0.4	5	109	222	287	1,651
Avoiding pedestrian	272	0.1	10	37	36	38	151
Lost load from vehicle	217	0.0	0	3	11	17	186
Avoiding vehicle (front/back)	4,030	0.8	28	198	306	631	2,867
Avoiding vehicle (angle)	2,278	0.4	15	123	205	370	1,565
Driverless moving	232	0.0	0	4	21	23	184
Driverless parked	7,029	1.4	12	95	182	266	6,474
Other	4,925	0.9	60	338	447	649	3,431
Unknown	14,292	2.8	42	468	761	1,885	11,136
TOTAL	519,115	100.0	1,697	19,380	34,304	81,968	381,766

The majority (55.8%) of all drivers are *going straight ahead* at the time of the crash. Driver action *going straight ahead* occurs in a higher percentage (63.6%) of “A” injury crashes and (71.4%) of fatal crashes. *Slowing or stopping on the roadway*, and *being stopped* account for 14.8% of all crashes, but only 3.1% of fatal crashes. Drivers *turning left* are involved in only 8.7% of all crashes, and 5.6% of fatal crashes, but are involved in 10.4% of “A” injury crashes.

ACTION PRIOR TO CRASH (continued)

CYCLIST - INJURY SEVERITY

CYCLIST ACTION	All Cyclists		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
Going straight ahead	1,369	53.4	14	163	517	463	171
Turning left	108	4.2	2	18	46	31	8
Turning right	46	1.8	0	6	24	9	5
Stopped on roadway	13	0.5	0	1	4	5	3
Changing lanes	61	2.4	3	15	22	12	5
Backing	1	0.0	0	0	1	0	0
Slowing/stopping on roadway	11	0.4	0	2	5	3	1
Starting up on roadway	7	0.3	0	3	1	1	1
Entering parking	7	0.3	0	0	2	4	1
Leaving parking	9	0.4	0	2	3	1	2
Entering roadway	222	8.7	2	34	82	63	30
Leaving roadway	6	0.2	0	0	1	4	1
Making U-turn	13	0.5	0	1	9	3	0
Overtaking or passing	14	0.5	0	2	4	6	1
Avoiding object	2	0.1	0	0	1	1	0
Avoiding pedestrian	1	0.0	0	0	1	0	0
Lost load from vehicle	0	0.0	0	0	0	0	0
Avoiding vehicle (front/back)	8	0.3	0	1	2	3	1
Avoiding vehicle (angle)	9	0.4	0	1	6	2	0
Driverless moving	1	0.0	0	0	0	0	1
Driverless parked	1	0.0	0	0	0	0	1
Other	81	3.2	1	13	31	22	11
Unknown	576	22.4	9	79	209	189	59
TOTAL	2,566*	100.0	31	341	971	822	302

* Includes 99 cyclists with unknown injury severity

As with motor vehicles, *going straight ahead* represents the majority of cyclist actions (53.8%) before the crash. *Entering the roadway, turning, and changing lanes*, all actions on the part of the cyclist that may be difficult for motor vehicle drivers to anticipate, combine to represent 17% of actions prior to all crashes and nearly 23% of fatal crashes.

ACTION PRIOR TO CRASH (continued)

PEDESTRIAN - INJURY SEVERITY

PEDESTRIAN ACTION	All Pedestrians		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
Crossing at intersection	418	16.0	10	107	127	135	17
Crossing not at intersection	740	28.3	46	227	243	164	19
Getting on/off vehicle	38	1.5	5	6	13	8	2
In roadway with traffic	84	3.2	10	24	20	24	2
In roadway against traffic	32	1.2	4	8	6	9	1
Standing\lying in roadway	80	3.1	13	22	20	17	1
Pushing\working on vehicle	36	1.4	4	10	11	7	3
Other working in roadway	24	0.9	2	4	6	10	0
Playing in roadway	54	2.1	2	16	22	8	2
In roadway other reason	94	3.6	5	32	34	19	1
Not in roadway	98	3.7	5	38	28	21	1
Other	67	2.6	3	17	24	18	2
Unknown	852	32.6	61	193	204	209	76
TOTAL	2,617*	100.0	170	704	758	649	127

* Includes 209 pedestrians with unknown injury severity

MOST HARMFUL EVENT

MOST SEVERE OUTCOME IN CRASH

NONCOLLISION	Motor Vehicles		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
Overturn	8,618	1.5	114	1,005	1,526	1,712	4,261
Fire/explosion	692	0.1	11	31	36	64	550
Immersion	309	0.1	1	7	6	22	273
Jackknife	2,082	0.4	4	68	113	345	1,552
Ran off road	4,260	0.7	15	246	412	524	3,063
Downhill runaway	258	0.0	2	8	20	36	192
Cargo loss/shift	724	0.1	0	16	31	64	613
Separation of units	260	0.0	0	4	13	21	222
Other noncollision	3,011	0.5	8	176	282	404	2,141
NONCOLLISION Sub-Total	20,214	3.4	155	1,561	2,439	3,192	12,867

MOST SEVERE OUTCOME IN CRASH

HAD A COLLISION WITH NONFIXED OBJECT	Motor Vehicles		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
Pedestrian	2,613	0.4	146	616	600	510	741
Pedalcycle	2,107	0.4	26	276	728	589	488
Railway train	270	0.0	22	29	30	26	163
Animal	36,687	6.2	6	60	226	546	35,849
Motor vehicle in transport	364,696	62.0	934	12,260	22,495	63,937	265,070
Parked motor vehicle	23,835	4.1	23	430	925	1,444	21,013
Other nonfixed objects	11,968	2.0	56	454	733	1,625	9,100
COLLISION NONFIXED Sub-Total	442,176	75.2	1,213	14,125	25,737	68,677	332,424

MOST HARMFUL EVENT (continued)

MOST SEVERE OUTCOME IN CRASH

HAD A COLLISION WITH FIXED OBJECT	Motor Vehicles		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
Fire Hydrant	538	0.1	3	19	47	60	409
Impact attenuator	152	0.0	0	12	15	21	104
Bridge/pier/abutment	589	0.1	8	45	65	94	377
Bridge parapet end	55	0.0	1	4	7	7	36
Bridge rail	529	0.1	2	19	40	55	413
Guardrail face	1,890	0.3	1	61	142	210	1,476
Guardrail end	407	0.1	3	26	49	79	250
Median barrier	1,573	0.3	7	109	221	348	888
Highway traffic sign post	2,083	0.4	2	31	56	108	1,886
Luminaire/light support	484	0.1	2	30	65	56	331
Utility pole	3,534	0.6	24	275	558	555	2,122
Other pole	847	0.1	6	49	51	76	665
Culvert	589	0.1	8	68	100	85	328
Curb	1,473	0.3	2	57	78	135	1,201
Ditch	3,966	0.7	19	228	497	588	2,634
Embankment	1,378	0.2	9	129	212	227	801
Fence	1,204	0.2	1	35	57	79	1,032
Mailbox	1,619	0.3	0	18	49	62	1,490
Tree	8,279	1.4	150	960	1,327	1,240	4,602
Highway/rail crossing signal	206	0.0	0	8	13	18	167
Building	854	0.1	8	82	120	94	550
Traffic island	76	0.0	0	1	5	6	64
Other fixed object	2,596	0.4	9	106	203	224	2,054
COLLISION FIXED Sub-Total	34,921	5.9	265	2,372	3,977	4,427	23,880

MOST SEVERE OUTCOME IN CRASH

	Motor Vehicles		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
Unknown Event	90,784	15.4	319	3,271	5,504	12,452	69,238
TOTAL MOST HARMFUL EVENT	588,095	100.0	1,952	21,329	37,657	88,748	438,409

VEHICLE DEFECTS IN CRASH INVOLVEMENT

MOST SEVERE OUTCOME IN CRASH

VEHICLE DEFECTS	Motor Vehicles		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
Brakes	2,058	0.3	12	84	154	436	1,372
Lights/reflectors	528	0.1	3	23	44	83	375
Steering	308	0.1	1	16	35	47	209
Tires/wheels	915	0.2	8	49	81	122	655
Windows	64	0.0	1	2	6	8	47
Other	1,279	0.2	5	55	89	144	986
Unknown/None	582,943	99.1	1,922	21,100	37,248	87,908	434,765
TOTAL	588,095	100.0	1,952	21,329	37,657	88,748	438,409

HAZARDOUS ACTION

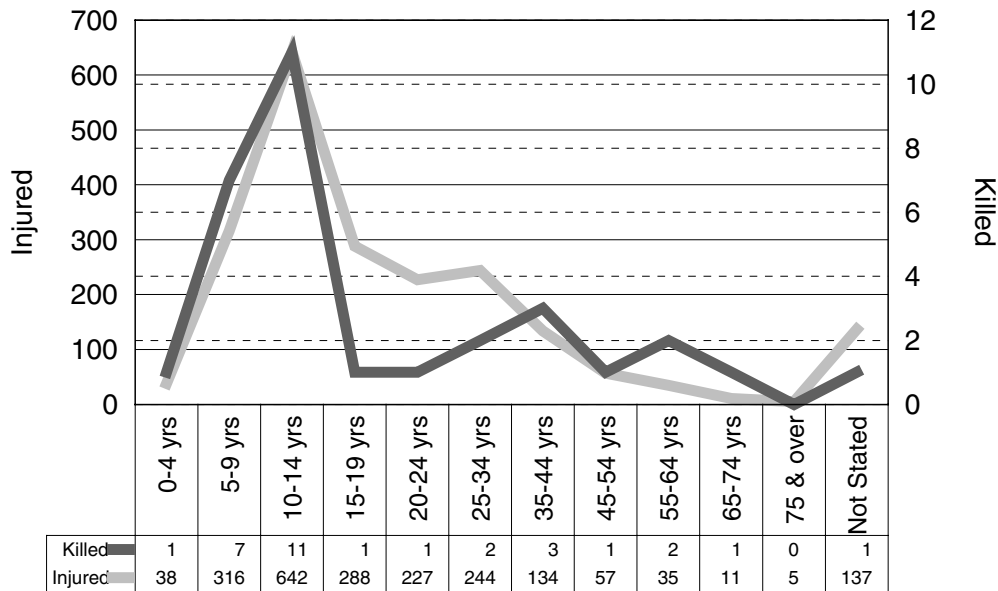
MOST SEVERE OUTCOME IN CRASH

HAZARDOUS ACTION	All Drivers		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
None	212,711	36.2	532	6,788	12,202	31,054	162,135
Speed too fast	32,726	5.6	309	2,390	3,650	4,863	21,514
Speed too slow	1,111	0.2	3	41	77	199	791
Failed to yield	54,289	9.2	135	2,562	4,630	8,969	37,993
Disregard traffic control	15,530	2.6	115	1,087	1,846	3,334	9,148
Drove wrong way	617	0.1	16	48	67	69	417
Drove left of center	5,079	0.9	110	579	556	672	3,162
Improper passing	4,973	0.8	11	136	244	458	4,124
Improper lane use	13,119	2.2	13	228	483	1,093	11,302
Improper turn	10,100	1.7	17	318	584	1,200	7,981
Improper/no signal	1,123	0.2	0	22	40	138	923
Improper backing	12,846	2.2	6	63	113	429	12,235
Unable to stop in clear distance	72,289	12.3	66	1,499	3,536	15,796	51,392
Other	30,701	5.2	150	1,851	3,012	4,101	21,587
Unknown	120,881	20.6	469	3,717	6,617	16,373	93,705
TOTAL	588,095	100.0	1,952	21,329	37,657	88,748	438,409



MICHIGAN BICYCLE CRASHES

1992 Bicycle Crash Information



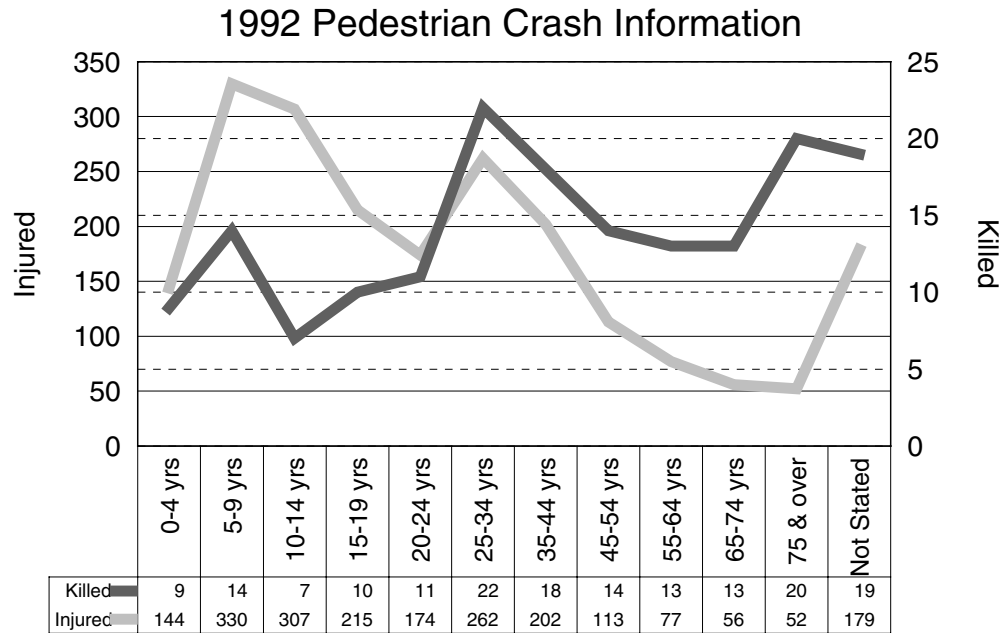
In 1992, there were 31 bicyclists killed and 2,134 injured in 2,566 total reported crashes involving bicyclists and motor vehicles. These numbers represent a 22.5% decrease in fatalities from 1991.

Of the 31 bicyclists killed in 1992, 5 were involved in a Had Been Drinking (HBD) crash and in 2 of these the bicyclist had been drinking. Of the 2,134 bicyclists injured, 106 were involved in a HBD crash and in 64 of these the bicyclist had been drinking. Of the 2,566 total reported crashes involving bicyclists and motor vehicles, 118 involved drinking and in 72 of these the bicyclist had been drinking.

Children under 15 years of age accounted for 19 (61.3%) of the bicycle deaths in 1992.



MICHIGAN PEDESTRIAN CRASHES



In 1992, there were 170 pedestrians killed and 2,111 injured in 2,617 total reported crashes involving pedestrians and motor vehicles. These numbers represent a 5.6% decrease in fatalities from 1991.

Of the 170 pedestrians killed in 1992, 43 were involved in a Had Been Drinking (HBD) crash and in 28 of these the pedestrian had been drinking. Of the 2,111 pedestrians injured, 266 were involved in a HBD crash and in 188 of these the pedestrian had been drinking. Of the 2,617 total reported crashes involving pedestrians and motor vehicles, 337 involved drinking and in 229 of these the pedestrian had been drinking.

Children under 15 years of age accounted for 30 (17.6%) of the pedestrian deaths in 1992.



MICHIGAN SNOWMOBILE CRASHES

MOST SEVERE OUTCOME IN CRASH

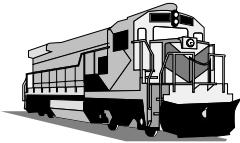
Most Harmful Event	Snowmobiles		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
NONCOLLISION							
Overturn	55	9.7	1	17	14	13	10
Fire/explosion	1	0.2	0	1	0	0	0
Immersion	5	0.9	0	0	2	2	1
Jackknife	4	0.7	0	0	2	0	2
Ran off road	6	1.1	0	0	2	2	2
Downhill runaway	0	0.0	0	0	0	0	0
Cargo loss/shift	3	0.5	0	0	1	0	2
Separation of units	2	0.4	0	0	1	0	1
Other noncollision	29	5.1	1	9	9	4	6
NONCOLLISION Subtotal	105	18.6	2	27	31	21	24
HAD A COLLISION WITH NONFIXED OBJECT							
Pedestrian	4	0.7	0	1	0	0	3
Railway train	3	0.5	0	1	1	0	1
Animal	7	1.2	0	1	1	0	5
Motor vehicle in transport	140	24.8	2	25	18	13	82
Parked motor vehicle	8	1.4	0	2	2	0	4
Other nonfixed objects	42	7.4	1	19	6	7	9
COLLISION NONFIXED Subtotal	204	36.1	3	49	28	20	104
HAD A COLLISION WITH FIXED OBJECT							
Bridge/pier/abutment	2	0.4	0	0	0	1	1
Guardrail face	1	0.2	0	0	0	0	1
Guardrail end	1	0.2	0	0	0	1	0
Utility pole	2	0.4	1	0	0	1	0
Other pole	3	0.5	0	1	0	0	2
Culvert	1	0.2	0	0	0	0	1
Ditch	4	0.7	0	1	2	1	0
Embankment	11	1.9	0	4	4	3	0
Fence	11	1.9	0	7	3	1	0
Mailbox	2	0.4	0	2	0	0	0
Tree	86	15.2	2	48	20	10	6
Highway/rail crossing signal	2	0.4	0	0	0	1	1
Building	1	0.2	0	0	0	0	1
Other fixed object	27	4.8	0	10	11	3	3
COLLISION FIXED Subtotal	154	27.3	3	73	40	22	16
Unknown Event	102	18.1	5	22	17	13	45
TOTAL MOST HARMFUL EVENT	565	100.0	13	171	116	76	189

A total of 506 crashes involving 565 snowmobiles were reported in Michigan during 1992. Of these crashes, 13 were fatal with 13 people killed.



MICHIGAN FARM EQUIPMENT CRASHES

A total of 296 crashes involving farm equipment were reported on Michigan roadways during 1992. Of these crashes, 5 were fatal crashes with 2 drivers and 1 passenger of the farm equipment killed.



MICHIGAN VEHICLE-TRAIN CRASHES

According to Michigan Department of Transportation [4] figures, a total of 153 crashes involving trains were reported in Michigan during 1992. The National Highway Traffic Safety Administration's 1992 Fatal Accident Reporting System [5] reported 24 fatal crashes in Michigan. 30 persons were killed as a result of those collisions.

MOTORCYCLE AND MOTOR SCOOTER DATA

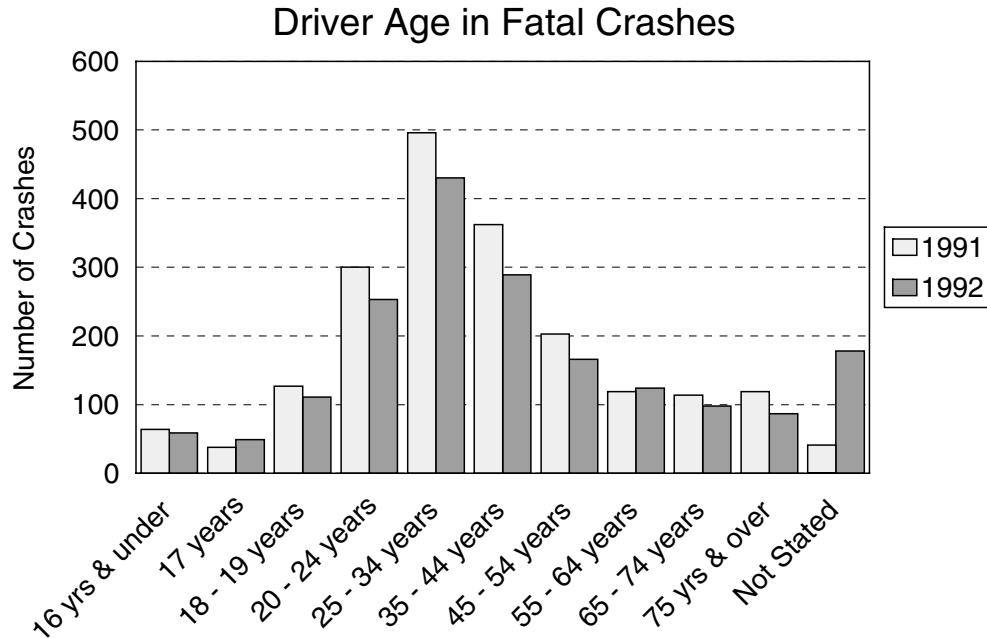
MOTORCYCLE & MOTOR SCOOTER DATA	1991	1992	% Change
Registrations	129,041.0	120,335.0	-6.7
Deaths	83.0	48.0	-42.2
Death Rate based on 10,000 cycle registrations	6.4	4.0	-37.5
Estimated Mileage based on 3,000 miles per cycle (millions)	387,123.0	361,005.0	-6.7
Death Rate based on deaths per 100 million vehicle miles traveled	21.4	13.3	-37.9

Motorcycle and motor scooter registrations declined by 6.7% in 1992. This reduction in exposure may have helped in the dramatic decline in the death rate.

DRIVER AGE

AGE OF DRIVERS IN FATAL CRASHES	1991	1992	% Change	% 1992 Fatal Crash Involvement	Percent Driving Population*
16 years and under	64	59	-7.8	3.2	3.1
17 year	38	49	28.9	2.7	1.6
18 - 19 years	127	111	-12.6	6.0	3.5
20 - 24	300	253	-15.7	13.7	10.7
Group Subtotal	529	472	-10.8	25.6	18.9
25 - 34 years	496	430	-13.3	23.3	24.1
35 - 44 years	362	289	-20.2	15.7	21.0
45 - 54 years	203	166	-18.2	9.0	13.4
55 - 64 years	119	124	4.2	6.7	10.0
65 - 74 years	114	98	-14.0	5.3	8.1
75 years and over	119	87	-26.9	4.7	4.6
Not Stated	41	178	334.1	9.7	---
Group Subtotal	1,454	1,372	-5.6	74.4	81.2
TOTALS	1,983	1,844	-7.0	100.0	100.0

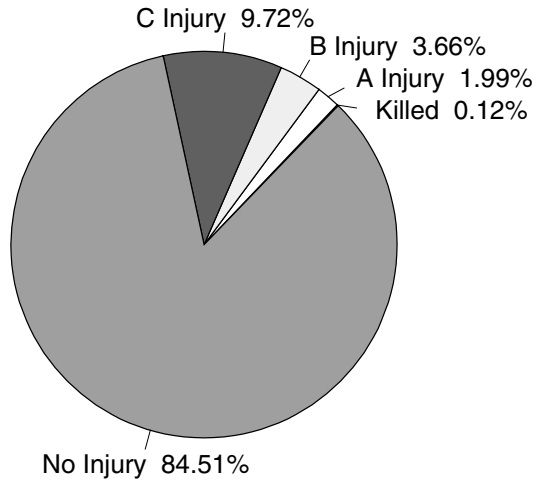
* Figures courtesy of the Michigan Department of State [6]



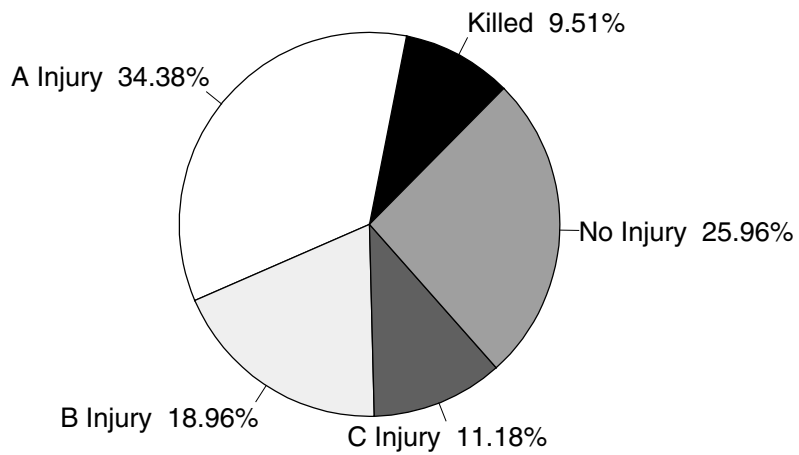
There was a dramatic drop in crash involvement for the elderly driver (75 and over) and also for younger driver age groups (except 17 years old).

DRIVER - NOT EJECTED vs. EJECTED

Driver Injury Severity - Not Ejected



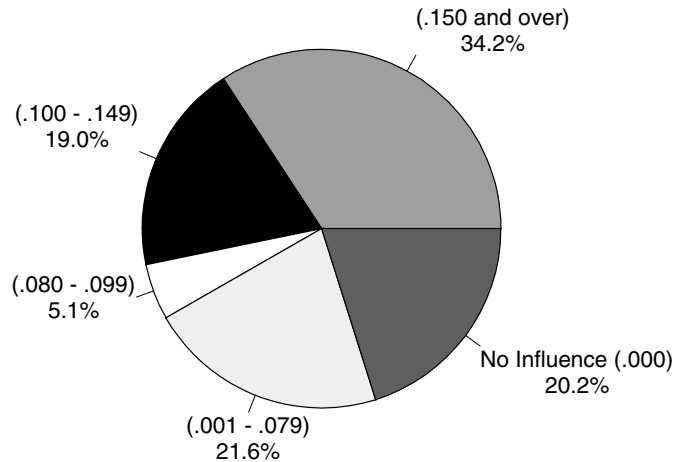
Driver Injury Severity - Ejected



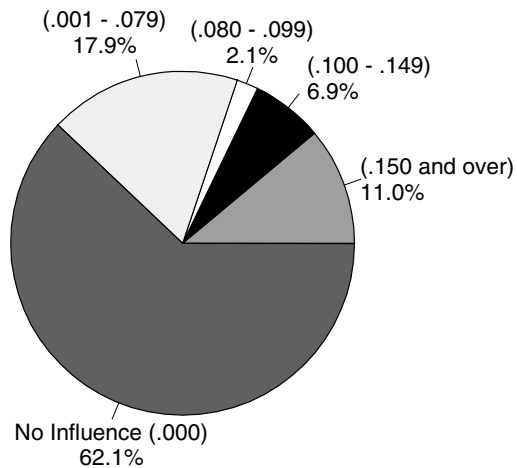
As can be seen in the two charts on this page, death and injury are much more likely when drivers are ejected from their vehicles.

DRIVER BLOOD ALCOHOL TEST RESULTS

Blood Alcohol Test Results
of Drivers Tested - All Crashes



Blood Alcohol Test Results
of Drivers Tested - Fatal Crashes



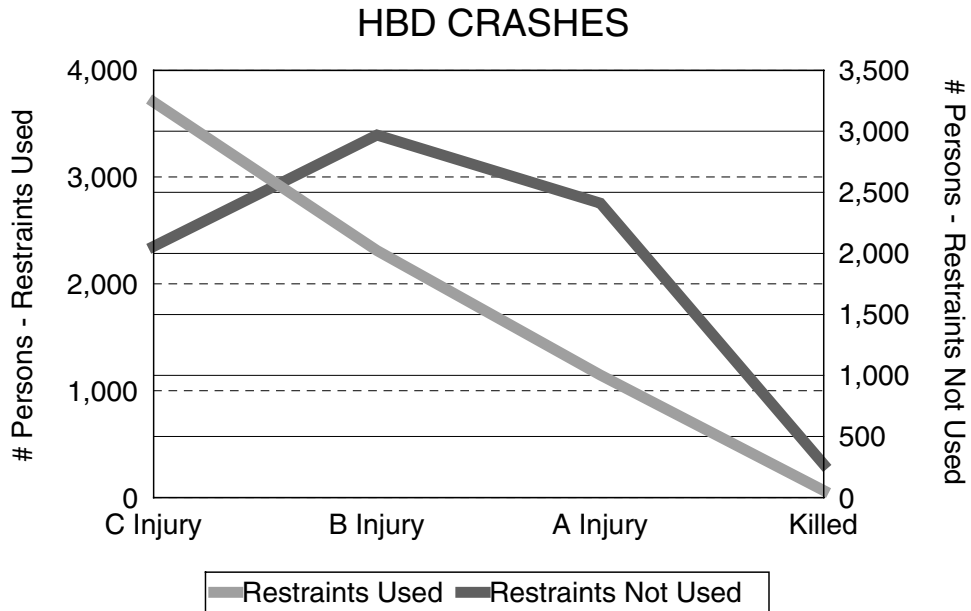
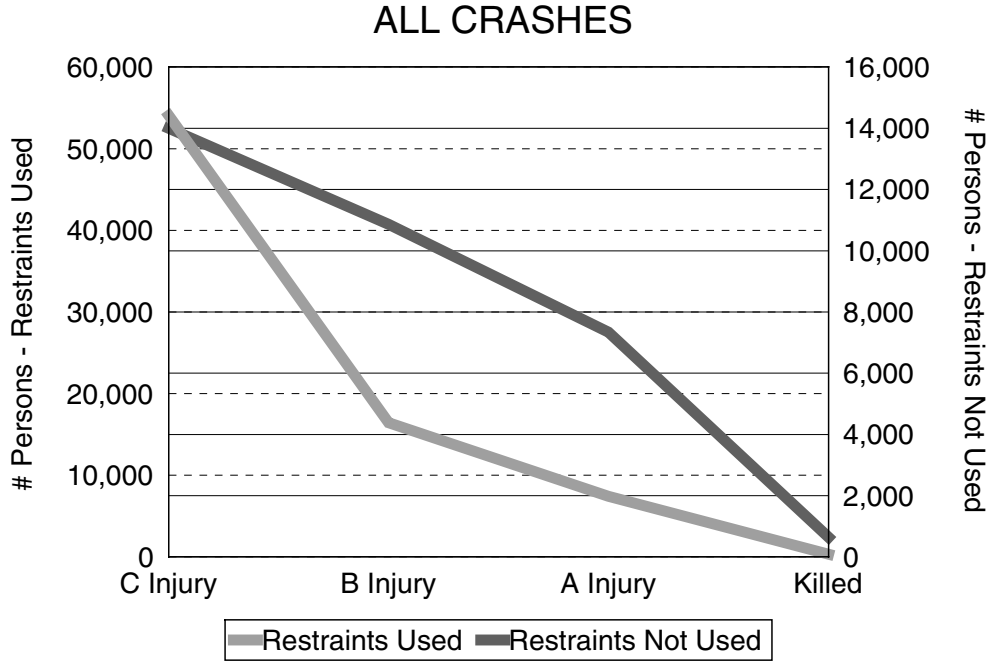
The risk of crash involvement increases rapidly as the concentration of alcohol in the blood increases. Compared to a not-drinking driver, the risk of fatal crash involvement doubles at a blood-alcohol level of .05, is seven times greater at .10 and 25 times greater at .15. Alcohol use also increases the severity of injuries in a given impact. [7]

A total of 1,841 drivers were involved in crashes with at least one fatality. Of these, 1,696 drivers were not tested for blood alcohol or there was no result given on the crash report. The results of those tested are shown in the fatal crash chart above.

OCCUPANT

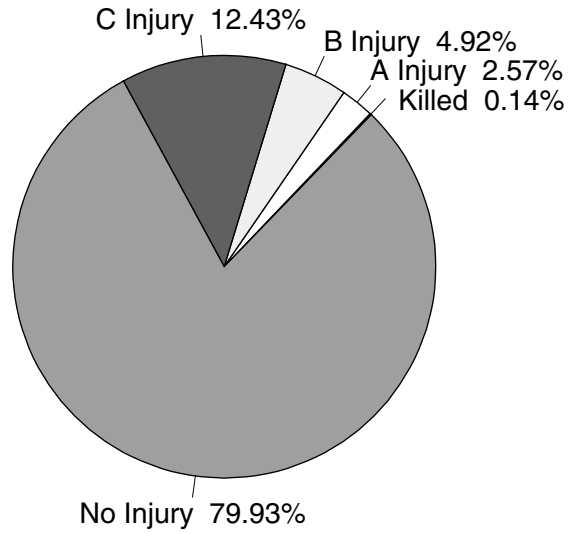
PERSON

INJURY SEVERITY & RESTRAINT USE FOR CRASH INVOLVED KABC OCCUPANTS

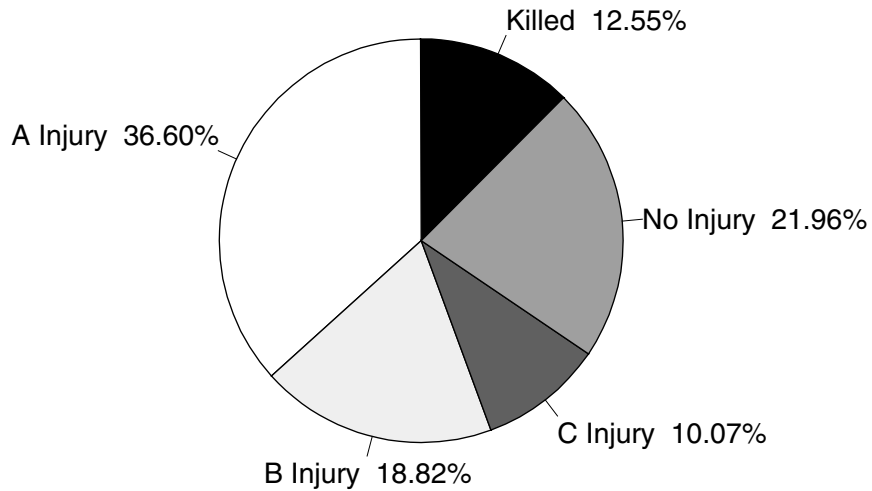


OCCUPANT - NOT EJECTED vs. EJECTED

Occupant Injury Severity - Not Ejected



Occupant Injury Severity - Ejected



As can be seen in the two charts on this page, death and injury are much more likely when occupants are ejected from their vehicles.

OCCUPANT INJURY OUTCOME BY VEHICLE TYPE

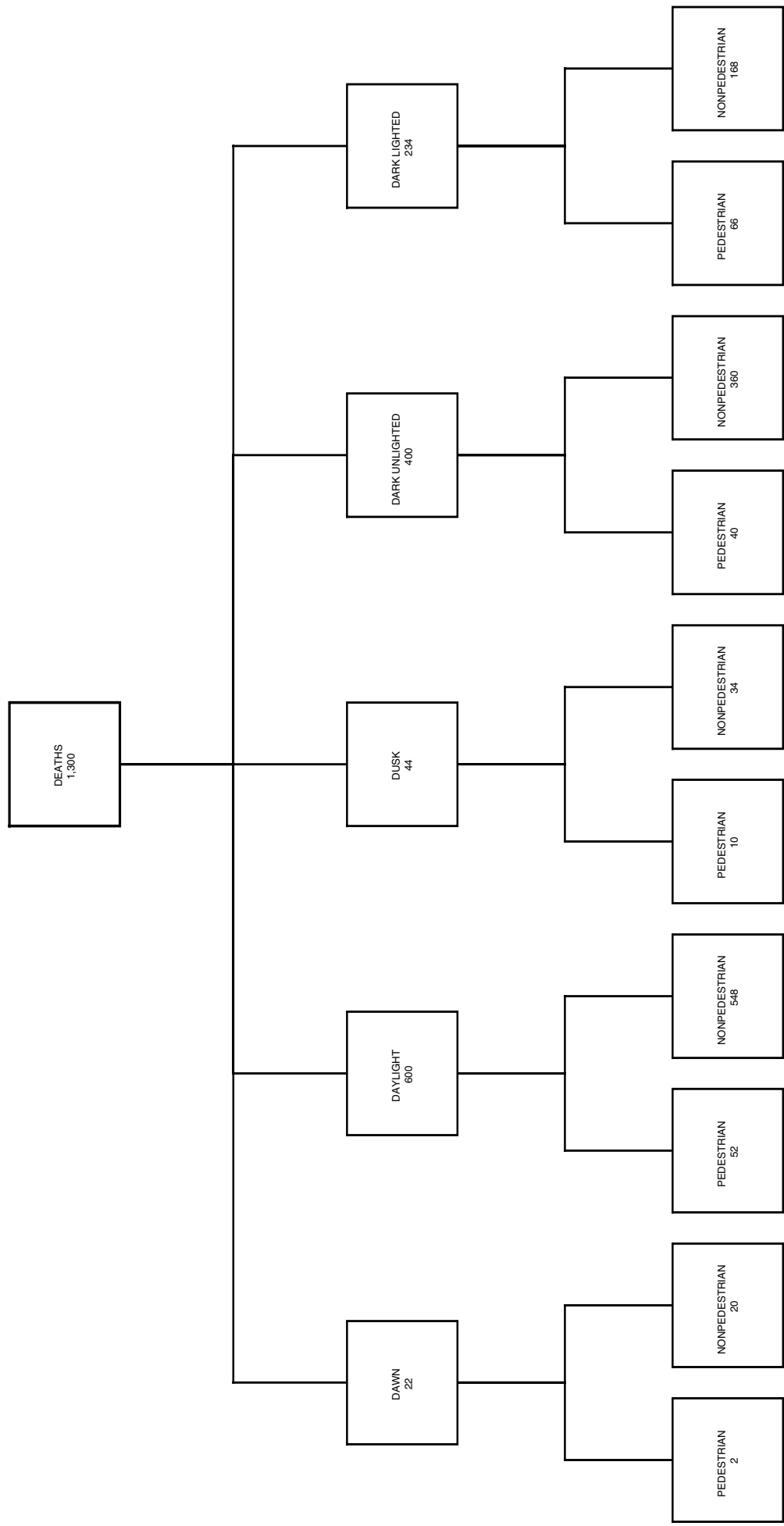
TYPES	Killed	A Injured	B Injured	C Injured	Total KABC	% of All Crash Involved KABC Occupants
Passenger Car and Station Wagon	811	12,051	22,273	57,591	92,726	81.7
Van and Motorhome	46	708	1,289	3,365	5,408	4.8
Pickup	116	1,658	3,057	5,742	10,573	9.3
Small Truck	7	99	196	443	745	0.7
Cycle	48	679	812	511	2,050	1.8
Moped	3	71	133	60	267	0.2
Go Cart	0	4	4	7	15	0.0
Snowmobile	13	171	116	76	376	0.3
Off Road Vehicle	3	52	70	27	152	0.1
Medium Truck	13	68	120	136	337	0.3
Commercial Vehicle: Group A	4	45	105	216	370	0.3
Commercial Vehicle: Group B	4	25	58	262	349	0.3
Commercial Vehicle: Group C	0	10	16	36	62	0.1
TOTAL	1,068	15,641	28,249	68,472	113,430	100.0

Group "A" is any vehicle that is towing a vehicle or trailer that has a gross vehicle weight rating (GVWR) over 10,000 lbs.

Group "B" is any single vehicle (including buses) with a GVWR of 26,001 lbs. or more. This would include a combination of vehicles with a combined GVWR over 26,000 lbs. when towing a trailer that has a GVWR of 10,000 lbs. or less.

Group "C" is any single vehicle with a GVWR of less than 26,001 lbs. or a combination of vehicles having a combined GVWR under 26,001 lbs. when the vehicle is required to display placards for hazardous material or designed to carry 16 passengers (including driver). Group "C" is also any vehicle carrying 15 or less people (including driver) transporting children to or from school and home on a regular basis for compensation.

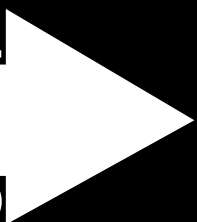
PRINCIPAL CLASSES OF MOTOR VEHICLE DEATHS



Of the 1,300 motor vehicle deaths in Michigan in 1992, more than half occurred in nondaylight crashes. Nonpedestrians (mostly occupants of motor vehicles) accounted for 87% of the deaths.

SUPPLEMENTAL

INFO



GLOSSARY

- **Crash Rate** - The number of crashes per 100 million vehicle miles traveled.
- **Crash Type** - A crash is typed by the first injury or damage producing event, which may or may not be the most serious or significant event.
- **Death Rate** - Deaths per 100 million vehicle miles.
- **Fatal Crash** - A fatality is counted when a person dies due to injuries from a traffic crash. Prior to 1979 deaths were counted if they occurred up to one year after the crash, in 1979 this time period was reduced to 90 days. In 1988 this became a 30 day count.
- **Had Been Drinking (HBD) Crash** - Drinking prior to the crash by a driver, pedestrian, or cyclist as reported by the police or the coroner.
- **Injury Severity**
 - K (Fatal)** - Any injury which results in death.
 - A (Incapacitating Injury)** - Any injury other than fatal which prevents normal activities and generally requires hospitalization.
 - B (Nonincapacitating Injury)** - Any injury not incapacitating but evident to others at the scene.
 - C (Possible Injury)** - No visible injury but complaint of pain or momentary unconsciousness.
 - O (No Injury)** - No indication of injury.
- **In Transport** - Denotes a motor vehicle in motion or on a roadway.
- **Motor Vehicle Crash** - A crash that involves a motor vehicle in transport on a public trafficway in Michigan and results in injury, death or at least \$400.00 in property damage.

NOTE: Snowmobile data includes crashes that occur in areas designated as Nontraffic (not on public roadways) with a value of \$200.00 as a threshold for reporting.
- **Noncollision** - A crash that does not involve a collision with another motor vehicle. Types of noncollision crashes include; explosion or fire in vehicle, rollover, immersion, etc.
- **Occupant** - Any person in or on a motor vehicle, this includes the driver.
- **Property Damage Only (PDO) Crash** - A crash that results in no fatalities or injuries, with a value of \$400.00 as a threshold for reporting.
- **Transition Area** - Increase or decrease in the number or travel lanes.

REPORTED STATEWIDE TRAFFIC CRASHES BY COUNTY IN MICHIGAN

COUNTY	All	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Persons Killed	Persons Injured
Alcona	793	5	79	709	0	103	191	499	5	138
Alger	434	0	94	340	0	43	215	176	0	141
Allegan	3,178	21	699	2,458	212	282	651	2,033	24	1,115
Alpena	1,277	2	242	1,033	0	319	212	746	2	363
Antrim	861	8	146	707	0	200	156	505	10	199
Arenac	872	5	162	705	71	277	84	440	6	237
Baraga	459	4	47	408	0	202	51	206	6	82
Barry	2,118	5	398	1,715	0	0	611	1,507	5	573
Bay	3,678	17	929	2,732	148	119	1,117	2,294	20	1,348
Benzie	573	2	113	458	0	110	109	354	2	141
Berrien	5,536	12	1,377	4,147	784	831	664	3,257	13	2,028
Branch	1,773	7	345	1,421	151	430	60	1,132	8	484
Calhoun	5,769	26	1,126	4,617	993	46	844	3,886	29	1,646
Cass	1,801	19	356	1,426	3	135	535	1,128	24	514
Charlevoix	1,062	6	151	905	0	287	183	592	6	211
Cheboygan	917	3	255	659	169	69	204	475	3	387
Chippewa	1,399	8	240	1,151	326	0	280	793	9	342
Clare	1,379	3	279	1,097	0	444	154	781	3	389
Clinton	2,023	12	360	1,651	264	370	130	1,259	12	554
Crawford	860	4	135	721	217	18	179	446	4	219
Delta	2,184	3	322	1,859	0	568	336	1,280	3	466
Dickinson	1,343	4	213	1,126	0	414	323	606	4	330
Eaton	3,502	13	757	2,732	445	230	1,033	1,794	15	1,083
Emmet	1,432	3	283	1,146	6	564	126	736	3	412
Genesee	13,716	47	3,572	10,097	1,230	333	2,270	9,883	54	5,387
Gladwin	920	1	176	743	0	0	403	517	3	252
Gogebic	581	1	85	495	0	257	36	288	1	146
Grand Traverse	2,993	16	644	2,333	0	796	308	1,889	16	960
Gratiot	1,347	8	282	1,057	0	332	224	791	10	430
Hillsdale	1,656	13	313	1,330	0	149	436	1,071	16	446
Houghton	1,353	8	227	1,118	0	412	368	573	9	321
Huron	1,490	14	247	1,229	0	0	680	810	18	374
Ingham	11,108	21	2,524	8,563	1,519	373	2,193	7,023	25	3,509
Ionia	2,176	9	433	1,734	200	0	655	1,321	9	631
Iosco	1,225	7	203	1,015	0	295	235	695	7	300
Iron	767	1	94	672	0	153	210	404	1	128
Isabella	2,150	12	388	1,750	0	467	242	1,441	14	553
Jackson	5,758	30	1,223	4,505	820	246	926	3,766	35	1,825
Kalamazoo	9,719	30	1,956	7,733	737	549	1,335	7,098	31	2,765
Kalkaska	680	3	121	556	0	131	159	390	4	194
Kent	19,791	51	4,690	15,050	1,154	1,409	3,591	13,637	61	6,639
Keweenaw	66	0	14	52	0	30	5	31	0	16
Lake	517	2	103	412	0	94	91	332	3	143
Lapeer	2,761	15	574	2,172	146	0	944	1,671	15	843
Leelanau	586	3	112	471	0	0	261	325	3	188
Lenawee	2,928	24	705	2,199	0	705	534	1,689	29	1,065
Livingston	4,361	16	1,099	3,246	831	296	503	2,731	16	1,634
Luce	252	0	59	193	0	0	138	114	0	74
Mackinac	764	2	124	638	147	171	179	267	3	181
Macomb	22,880	56	6,307	16,517	1,259	0	6,433	15,188	59	9,292

**REPORTED STATEWIDE TRAFFIC CRASHES
BY COUNTY IN MICHIGAN (Continued)**

COUNTY	All	Fatal	Injury	Property Damage	Inter- state	US Route	State Route	Local Street	Persons Killed	Persons Injured
Manistee	806	1	148	657	0	221	114	471	1	231
Marquette	2,778	7	500	2,271	0	828	316	1,634	7	726
Mason	1,152	8	221	923	0	393	24	735	9	326
Mecosta	2,023	5	320	1,698	0	543	372	1,108	5	467
Menominee	1,673	5	218	1,450	0	561	141	971	6	326
Midland	2,759	5	573	2,181	0	322	442	1,995	5	790
Missaukee	563	4	95	464	0	0	217	346	4	147
Monroe	3,872	17	1,051	2,804	322	666	569	2,315	20	1,580
Montcalm	2,558	10	487	2,061	0	74	932	1,552	12	744
Montmorency	434	1	79	354	0	0	159	275	1	108
Muskegon	5,549	16	1,305	4,228	71	921	683	3,874	17	1,925
Newaygo	1,625	10	369	1,246	0	0	558	1,067	13	578
Oakland	38,703	81	10,160	28,462	4,194	2,423	6,143	25,943	86	14,622
Oceana	856	3	217	636	0	204	49	603	3	326
Ogemaw	1,140	10	176	954	194	0	272	674	13	255
Ontonagon	527	3	61	463	0	124	253	150	3	94
Osceola	1,047	5	208	834	0	302	178	567	5	336
Oscoda	539	1	71	467	0	0	246	293	1	92
Otsego	929	6	202	721	208	0	210	511	6	281
Ottawa	5,931	27	1,444	4,460	333	900	556	4,142	27	2,114
Presque Isle	594	2	84	508	0	161	129	304	2	149
Roscommon	1,031	2	217	812	113	100	295	523	2	331
Saginaw	7,981	27	1,827	6,127	407	0	2,280	5,294	27	2,699
Sanilac	1,458	14	284	1,160	0	0	644	814	15	453
Schoolcraft	472	1	77	394	0	125	152	195	2	114
Shiawassee	1,798	14	458	1,326	135	0	612	1,051	15	680
St. Clair	4,862	17	1,158	3,687	717	0	1,115	3,030	21	1,782
St. Joseph	2,180	13	541	1,626	0	564	309	1,307	13	847
Tuscola	1,794	15	404	1,375	0	0	663	1,131	17	612
Van Buren	2,538	15	612	1,911	409	0	547	1,582	17	923
Washtenaw	10,163	32	2,280	7,851	1,115	1,300	934	6,814	32	3,201
Wayne	74,845	210	19,433	55,202	7,278	5,209	9,906	52,452	224	28,533
Wexford	1,416	10	326	1,080	0	463	385	568	11	490
UNKNOWN	578	0	101	477	2	3	1	572	0	147
TOTALS	344,942	1,179	81,090	262,673	27,330	29,666	62,213	225,733	1,300	118,727

FATAL CRASHES AND FATALITIES BY COUNTY WITH DRINKING INVOLVEMENT

COUNTY	C R A S H E S			P E R S O N S		
	All Fatal Crashes	HBD Fatal Crashes	Percent HBD	Total Fatalities	HBD Fatalities	Percent HBD
Alcona	5	2	40.0	5	2	40.0
Alger	0	0	0.0	0	0	0.0
Allegan	21	7	33.3	24	8	33.3
Alpena	2	1	50.0	2	1	50.0
Antrim	8	1	12.5	10	1	10.0
Arenac	5	1	20.0	6	2	33.3
Baraga	4	2	50.0	6	3	50.0
Barry	5	1	20.0	5	1	20.0
Bay	17	5	29.4	20	7	35.0
Benzie	2	1	50.0	2	1	50.0
Berrien	12	3	25.0	13	3	23.1
Branch	7	0	0.0	8	0	0.0
Calhoun	26	10	38.5	29	10	34.5
Cass	19	6	31.6	24	7	29.2
Charlevoix	6	4	66.7	6	4	66.7
Cheboygan	3	1	33.3	3	1	33.3
Chippewa	8	4	50.0	9	5	55.6
Clare	3	1	33.3	3	1	33.3
Clinton	12	2	16.7	12	2	16.7
Crawford	4	2	50.0	4	2	50.0
Delta	3	2	66.7	3	2	66.7
Dickinson	4	2	50.0	4	2	50.0
Eaton	13	4	30.8	15	4	26.7
Emmet	3	1	33.3	3	1	33.3
Genesee	47	20	42.6	54	20	37.0
Gladwin	1	0	0.0	3	0	0.0
Gogebic	1	0	0.0	1	0	0.0
Grand Traverse	16	3	18.8	16	3	18.8
Gratiot	8	4	50.0	10	4	40.0
Hillsdale	13	4	30.8	16	6	37.5
Houghton	8	1	12.5	9	1	11.1
Huron	14	6	42.9	18	6	33.3
Ingham	21	7	33.3	25	8	32.0
Ionia	9	2	22.2	9	2	22.2
Iosco	7	3	42.9	7	3	42.9
Iron	1	0	0.0	1	0	0.0
Isabella	12	7	58.3	14	8	57.1
Jackson	30	9	30.0	35	13	37.1
Kalamazoo	30	13	43.3	31	14	45.2
Kalkaska	3	0	0.0	4	0	0.0
Kent	51	18	35.3	61	20	32.8
Keweenaw	0	0	0.0	0	0	0.0
Lake	2	0	0.0	3	0	0.0
Lapeer	15	2	13.3	15	2	13.3
Leelanau	3	0	0.0	3	0	0.0
Lenawee	24	2	8.3	29	2	6.9
Livingston	16	4	25.0	16	4	25.0
Luce	0	0	0.0	0	0	0.0

**FATAL CRASHES AND FATALITIES BY COUNTY
WITH DRINKING INVOLVEMENT (continued)**

COUNTY	C R A S H E S			P E R S O N S		
	All Fatal Crashes	HBD Fatal Crashes	Percent HBD	Total Fatalites	HBD Fatalities	Percent HBD
Mackinac	2	2	100.0	3	3	100.0
Macomb	56	20	35.7	59	21	35.6
Manistee	1	0	0.0	1	0	0.0
Marquette	7	1	14.3	7	1	14.3
Mason	8	1	12.5	9	1	11.1
Mecosta	5	2	40.0	5	2	40.0
Menominee	5	2	40.0	6	2	33.3
Midland	5	4	80.0	5	4	80.0
Missaukee	4	1	25.0	4	1	25.0
Monroe	17	6	35.3	20	6	30.0
Montcalm	10	4	40.0	12	5	41.7
Montmorency	1	1	100.0	1	1	100.0
Muskegon	16	8	50.0	17	9	52.9
Newaygo	10	4	40.0	13	5	38.5
Oakland	81	27	33.3	86	28	32.6
Oceana	3	1	33.3	3	1	33.3
Ogemaw	10	5	50.0	13	5	38.5
Ontonagon	3	1	33.3	3	1	33.3
Osceola	5	4	80.0	5	4	80.0
Oscoda	1	1	100.0	1	1	100.0
Otsego	6	2	33.3	6	2	33.3
Ottawa	27	4	14.8	27	4	14.8
Presque Isle	2	2	100.0	2	2	100.0
Roscommon	2	0	0.0	2	0	0.0
Saginaw	27	12	44.4	27	12	44.4
Sanilac	14	6	42.9	15	6	40.0
Schoolcraft	1	0	0.0	2	0	0.0
Shiawassee	14	5	35.7	15	6	40.0
St. Clair	17	4	23.5	21	5	23.8
St. Joseph	13	7	53.8	13	7	53.8
Tuscola	15	8	53.3	17	9	52.9
Van Buren	15	6	40.0	17	7	41.2
Washtenaw	32	12	37.5	32	12	37.5
Wayne	210	62	29.5	224	68	30.4
Wexford	10	3	30.0	11	3	27.3
TOTALS	1,179	396	33.6	1,300	430	33.1

TRAFFIC CRASH SUMMARY FOR CITIES 1992

	Total Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes	Persons Killed	Persons Injured
Alcona County						
Alcona Twp.	69	2	6	61	2	12
Caledonia Twp.	47	0	1	46	0	1
Curtis Twp.	76	2	12	62	2	23
Greenbush Twp.	68	1	11	56	1	25
Gustin Twp.	68	0	10	58	0	15
Harrisville Twp.	78	0	8	70	0	12
Hawes Twp.	80	0	10	70	0	17
Haynes Twp.	47	0	2	45	0	4
Mikado Twp.	63	0	9	54	0	10
Millen Twp.	65	0	2	63	0	2
Mitchell Twp.	99	0	3	96	0	3
Harrisville	13	0	1	12	0	6
Lincoln	19	0	3	16	0	7
Unknown City/Twp.	1	0	1	0	0	1
Alger County						
Au Train Twp.	69	0	22	47	0	28
Burt Twp.	42	0	12	30	0	14
Grand Island Twp.	10	0	1	9	0	1
Limestone Twp.	36	0	5	31	0	5
Mathias Twp.	42	0	4	38	0	4
Munising Twp.	106	0	31	75	0	57
Onota Twp.	18	0	3	15	0	5
Rock River Twp.	34	0	9	25	0	12
Chatham	4	0	0	4	0	0
Munising	64	0	7	57	0	15
Unknown City/Twp.	9	0	0	9	0	0
Allegan County						
Allegan Twp.	133	1	21	111	1	36
Casco Twp.	112	2	28	82	3	47
Cheshire Twp.	63	0	12	51	0	18
Clyde Twp.	140	0	16	61	0	23
Dorr Twp.	160	1	32	127	1	54
Fillmore Twp.	132	3	42	87	3	69
Ganges Twp.	77	0	17	60	0	32
Gunplain Twp.	235	3	63	169	3	89
Heath Twp.	79	2	12	65	3	29
Hopkins Twp.	66	0	14	52	0	24
Laketown Twp.	106	1	27	78	1	34
Lee Twp.	60	0	13	47	0	26
Leighton Twp.	93	0	18	75	0	31
Manlius Twp.	76	2	11	63	3	25
Martin Twp.	106	0	24	82	0	29
Monterey Twp.	47	1	10	36	1	21
Otsego Twp.	212	0	51	161	0	80
Overisel Twp.	53	0	9	44	0	13
Salem Twp.	50	0	14	36	0	23
Saugatuck Twp.	120	0	28	92	0	46
Trowbridge Twp.	104	0	26	78	0	54
Valley Twp.	68	0	10	58	0	14
Watson Twp.	55	0	17	38	0	21
Wayland Twp.	150	3	26	121	3	32
Douglas	27	0	10	17	0	18
Fennville	15	0	5	10	0	6
Hopkins	3	0	1	2	0	1
Martin	6	0	1	5	0	1
Saugatuck	35	0	6	29	0	8
Wayland	55	0	16	39	0	23
Allegan	167	0	37	130	0	55
Otsego	85	0	10	75	0	12
Plainwell	152	0	22	130	0	31
Holland	196	2	49	145	2	89
Unknown City/Twp.	3	0	1	2	0	1
Alpena County						
Alpena Twp.	321	1	60	260	1	93
Green Twp.	70	0	9	61	0	11
Long Rapids Twp.	35	0	1	34	0	2
Maple Ridge Twp.	63	0	11	52	0	14
Ossineke Twp.	90	0	18	72	0	33
Sanborn Twp.	71	1	14	56	1	19
Wellington Twp.	11	0	3	8	0	4
Wilson Twp.	167	0	24	143	0	41
Alpena	444	0	101	343	0	145
Unknown City/Twp.	5	0	1	4	0	1
Antrim County						
Banks Twp.	91	0	7	84	0	10
Central Lake Twp.	56	1	9	46	1	12
Chestonia Twp.	34	0	8	26	0	12
Custer Twp.	66	2	10	54	2	11
Echo Twp.	30	0	7	23	0	9
Elk Rapids Twp.	36	2	11	23	2	15
Forest Home Twp.	67	0	9	58	0	11

TRAFFIC CRASH SUMMARY FOR CITIES 1992 (continued)

	Total Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes	Persons Killed	Persons Injured
Helena Twp.	61	2	7	52	3	9
Jordan Twp.	37	0	3	34	0	8
Kearney Twp.	56	0	12	44	0	19
Mancelona Twp.	64	0	15	49	0	26
Milton Twp.	51	0	7	44	0	7
Star Twp.	27	1	4	22	2	5
Torch Lake Twp.	35	0	2	33	0	2
Warner Twp.	36	0	14	22	0	18
Bellaire	10	0	0	10	0	0
Central Lake	11	0	2	9	0	2
Ellsworth	11	0	2	9	0	2
Elk Rapids	36	0	8	28	0	11
Mancelona	42	0	9	33	0	10
Unknown City/Twp.	4	0	0	4	0	0
Arenac County						
Adams Twp.	25	1	4	20	2	5
Arenac Twp.	67	0	17	50	0	24
Au Gres Twp.	100	0	18	82	0	22
Clayton Twp.	29	0	10	19	0	16
Deep River Twp.	101	0	18	83	0	25
Lincoln Twp.	104	1	21	82	1	32
Mason Twp.	39	1	7	31	1	10
Moffat Twp.	74	0	13	61	0	17
Sims Twp.	50	0	4	46	0	5
Standish Twp.	65	2	14	49	2	25
Turner Twp.	38	0	6	32	0	7
Whitney Twp.	40	0	7	33	0	11
Au Gres	34	0	1	33	0	2
Omer	13	0	5	8	0	5
Sterling	7	0	1	6	0	4
Turner	0	0	0	0	0	0
Twining	5	0	0	5	0	0
Standish	80	0	16	64	0	27
Unknown City/Twp.	1	0	0	1	0	0
Baraga County						
Arvon Twp.	34	0	2	32	0	3
Baraga Twp.	109	3	11	95	4	30
Covington Twp.	72	0	7	65	0	8
Lanse Twp.	124	0	15	109	0	22
Spurr Twp.	33	1	6	26	2	12
Baraga	16	0	3	13	0	4
Lanse	64	0	3	61	0	3
Unknown City/Twp.	7	0	0	7	0	0
Barry County						
Assyria Twp.	62	0	11	51	0	15
Baltimore Twp.	74	1	17	56	1	28
Barry Twp.	132	1	18	113	1	24
Carlton Twp.	128	0	18	110	0	24
Castleton Twp.	104	0	14	90	0	19
Hastings Twp.	157	0	31	126	0	40
Hope Twp.	112	0	19	93	0	31
Irving Twp.	94	0	22	72	0	35
Johnstown Twp.	119	0	35	84	0	45
Maple Grove Twp.	67	0	10	57	0	15
Orangeville Twp.	90	0	23	67	0	45
Prairieville Twp.	75	0	16	59	0	23
Rutland Twp.	204	1	34	169	1	58
Thornapple Twp.	148	0	23	125	0	30
Woodland Twp.	100	1	14	85	1	18
Yankee Springs Twp.	133	1	31	101	1	37
Freeport	14	0	1	13	0	2
Woodland	4	0	0	4	0	0
Middleville	20	0	3	17	0	4
Nashville	31	0	7	24	0	12
Hastings	245	0	51	194	0	68
Unknown City/Twp.	5	0	0	5	0	0
Bay County						
Bangor Twp.	492	1	122	369	1	187
Beaver Twp.	48	0	13	35	0	15
Frankenlust Twp.	166	0	54	112	0	89
Fraser Twp.	123	4	38	81	5	60
Garfield Twp.	60	0	16	44	0	18
Gibson Twp.	31	2	8	21	2	14
Hampton Twp.	209	0	55	154	0	80
Kawkawlin Twp.	177	3	39	135	4	64
Merritt Twp.	20	0	6	14	0	7
Monitor Twp.	422	2	112	308	2	156
Mt. Forest Twp.	53	1	17	35	1	21
Pinconning Twp.	113	2	36	75	2	47
Portsmouth Twp.	98	1	35	62	2	70
Williams Twp.	176	0	48	128	0	68
Auburn	42	0	8	34	0	11
Pinconning	48	0	9	39	0	15

TRAFFIC CRASH SUMMARY FOR CITIES 1992 (continued)

	Total Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes	Persons Killed	Persons Injured
Essexville	73	0	14	59	0	16
Sag Val State	0	0	0	0	0	0
Delta College	10	0	2	8	0	2
Bay City	1310	1	297	1012	1	408
Midland	6	0	0	6	0	0
Unknown City/Twp.	1	0	0	1	0	0
Benzie County						
Almira Twp.	38	0	10	28	0	11
Benzonia Twp.	101	0	19	82	0	29
Blaire Twp.	12	0	3	9	0	5
Colfax Twp.	22	0	3	19	0	3
Crystal Lake Twp.	42	0	9	33	0	10
Gilmore Twp.	16	0	4	12	0	4
Homestead Twp.	54	0	7	47	0	8
Inland Twp.	54	0	15	39	0	19
Joyfield Twp.	35	0	3	32	0	3
Lake Twp.	30	0	4	26	0	7
Platte Twp.	23	1	4	18	1	5
Weldon Twp.	33	1	5	27	1	7
Benzonia	22	0	8	14	0	8
Beulah	16	0	1	15	0	1
Elberta	2	0	0	2	0	0
Honor	12	0	3	9	0	3
Lake Ann	6	0	2	4	0	3
Thompsonville	3	0	0	3	0	0
Frankfort	48	0	10	38	0	12
Unknown City/Twp.	4	0	3	1	0	3
Berrien County						
Bainbridge Twp.	103	0	32	71	0	52
Baroda Twp.	70	0	22	48	0	40
Benton Twp.	881	1	256	624	1	393
Berrien Twp.	110	0	30	80	0	39
Bertrand Twp.	115	0	26	89	0	38
Buchanan Twp.	79	0	14	65	0	15
Chikaming Twp.	167	1	43	123	1	59
Coloma Twp.	142	0	32	110	0	53
Galien Twp.	39	0	11	28	0	15
Hagar Twp.	97	0	24	73	0	35
Lake Twp.	100	0	25	75	0	45
Lincoln Twp.	310	1	77	232	1	105
New Buffalo Twp.	136	1	30	105	1	43
Niles Twp.	358	0	102	256	0	156
Oronoko Twp.	198	1	52	145	1	68
Pipestone Twp.	73	0	18	55	0	27
Royalton Twp.	142	2	38	102	2	56
St. Joseph Twp.	276	1	64	211	1	92
Sodus Twp.	70	0	24	46	0	32
Three Oaks Twp.	45	0	14	31	0	24
Watervliet Twp.	123	1	31	91	1	47
Weesaw Twp.	38	0	10	28	0	16
Baroda	10	0	3	7	0	3
Eau Claire	22	0	5	17	0	8
Galien	8	0	2	6	0	2
Grand Beach	9	0	1	8	0	1
Michiana	1	0	0	1	0	0
Shoreham	17	0	7	10	0	8
Berrien Springs	133	1	28	104	1	38
Bridgman	53	0	10	43	0	16
Coloma	59	0	14	45	0	22
Stevensville	30	1	10	19	2	12
Three Oaks	28	0	2	26	0	3
Watervliet	44	0	10	34	0	14
Buchanan	85	0	16	69	0	24
New Buffalo	47	0	15	32	0	30
Benton Harbor	440	0	86	354	0	119
Niles	524	1	125	398	1	181
St. Joseph	351	0	67	284	0	96
Unknown City/Twp.	3	0	1	2	0	1
Branch County						
Algansee Twp.	65	0	15	50	0	19
Batavia Twp.	83	0	17	66	0	21
Bethel Twp.	68	1	16	51	1	22
Bronson Twp.	58	0	7	51	0	7
Butler Twp.	37	0	5	32	0	6
California Twp.	32	0	8	24	0	10
Coldwater Twp.	215	1	30	184	1	48
Gilead Twp.	13	0	2	11	0	3
Girard Twp.	119	0	13	106	0	15
Kinderhook Twp.	58	1	10	47	1	17
Mattison Twp.	58	0	7	51	0	7
Noble Twp.	13	0	3	10	0	4
Ovid Twp.	124	2	20	102	2	27
Quincy Twp.	134	0	29	105	0	45
Sherwood Twp.	62	1	12	49	1	21

TRAFFIC CRASH SUMMARY FOR CITIES 1992 (continued)

	Total Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes	Persons Killed	Persons Injured
Union Twp.	58	1	10	47	2	11
Sherwood	1	0	1	0	0	1
Bronson	44	0	5	39	0	5
Quincy	47	0	12	35	0	20
Union City	17	0	3	14	0	3
Coldwater	460	0	120	340	0	172
Unknown City/Twp.	7	0	0	7	0	0
Calhoun County						
Albion Twp.	78	0	10	68	0	15
Athens Twp.	53	1	8	44	1	11
Battle Creek Twp.	2	0	1	1	0	1
Bedford Twp.	212	3	48	161	4	61
Burlington Twp.	70	0	10	60	0	13
Clarence Twp.	76	2	11	63	2	15
Clarendon Twp.	59	0	10	49	0	13
Convis Twp.	125	3	14	108	3	20
Eckford Twp.	83	0	3	80	0	7
Emmet Twp.	534	1	122	411	1	179
Fredonia Twp.	166	0	23	143	0	31
Homer Twp.	63	0	8	55	0	10
Lee Twp.	80	2	15	63	2	23
Leroy Twp.	131	0	15	116	0	23
Marengo Twp.	163	0	20	143	0	25
Marshall Twp.	279	2	40	237	4	69
Newton Twp.	82	0	11	71	0	22
Pennfield Twp.	324	4	59	261	4	86
Sheridan Twp.	128	2	22	104	2	34
Tekonsha Twp.	91	1	19	71	1	26
Athens	16	0	1	15	0	1
Burlington	6	0	1	5	0	2
Tekonsha	10	0	3	7	0	3
Homer	30	0	11	19	0	16
Union City	0	0	0	0	0	0
Springfield	214	1	62	151	1	97
Marshall	205	0	43	162	0	66
Albion	227	0	39	188	0	49
Battle Creek	2257	4	496	1757	4	727
Unknown City/Twp.	5	0	1	4	0	1
Cass County						
Calvin Twp.	80	2	20	58	6	25
Howard Twp.	128	0	30	98	0	42
Jefferson Twp.	114	0	27	87	0	36
LaGrange Twp.	123	1	21	101	1	30
Marcellus Twp.	75	0	10	65	0	14
Mason Twp.	60	1	15	44	1	28
Milton Twp.	84	0	18	66	0	23
Newberg Twp.	63	1	10	52	1	16
Ontwa Twp.	134	0	24	110	0	42
Penn Twp.	82	0	13	69	0	18
Pokagon Twp.	107	1	18	88	1	24
Porter Twp.	131	5	19	107	5	30
Silver Creek Twp.	148	5	33	110	6	48
Volinia Twp.	46	0	10	36	0	12
Wayne Twp.	86	2	17	67	2	25
Vandalia	4	0	1	3	0	1
Cassopolis	45	0	10	35	0	16
Edwardsburg	35	0	4	31	0	4
Marcellus	22	0	2	20	0	2
Dowagiac	229	1	52	176	1	76
Niles	0	0	0	0	0	0
Unknown City/Twp.	5	0	2	3	0	2
Charlevoix County						
Bay Twp.	27	0	7	20	0	11
Boyne Valley Twp.	75	0	7	68	0	9
Chandler Twp.	7	0	2	5	0	3
Charlevoix Twp.	49	0	9	40	0	12
Evangeline Twp.	26	0	3	23	0	4
Eveline Twp.	51	0	7	44	0	8
Hayes Twp.	112	2	13	97	2	22
Hudson Twp.	22	0	3	19	0	3
Marion Twp.	77	1	9	67	1	14
Melrose Twp.	75	2	11	62	2	24
Norwood Twp.	51	0	4	47	0	8
Peaine Twp.	7	0	1	6	0	1
St. James Twp.	10	0	5	5	0	5
South Arm Twp.	61	1	9	51	1	13
Wilson Twp.	76	0	13	63	0	18
Boyne Falls	10	0	3	7	0	3
East Jordan	80	0	14	66	0	14
Boyne City	81	0	12	69	0	17
Charlevoix	164	0	18	146	0	18
Unknown City/Twp.	1	0	1	0	0	4

TRAFFIC CRASH SUMMARY FOR CITIES 1992 (continued)

	Total Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes	Persons Killed	Persons Injured
Cheboygan County						
Aloha Twp.	26	2	3	21	2	7
Beaugrand Twp.	38	0	5	33	0	12
Benton Twp.	61	0	22	39	0	37
Burt Twp.	45	0	12	33	0	19
Ellis Twp.	36	0	11	25	0	18
Forest Twp.	40	0	10	30	0	12
Grant Twp.	22	0	9	13	0	11
Hebron Twp.	37	0	11	26	0	18
Inverness Twp.	96	0	33	63	0	47
Koehler Twp.	36	0	7	29	0	19
Mackinaw Twp.	44	1	11	32	1	22
Mentor Twp.	29	0	7	22	0	7
Mullet Twp.	32	0	9	23	0	12
Munro Twp.	43	0	12	31	0	19
Nunda Twp.	49	0	10	39	0	17
Tuscarora Twp.	125	0	27	98	0	31
Walker Twp.	13	0	3	10	0	6
Waverly Twp.	22	0	3	19	0	3
Wilmot Twp.	19	0	7	12	0	9
Mackinaw City	29	0	5	24	0	6
Wolverine	10	0	0	10	0	0
Cheboygan	64	0	37	27	0	54
Unknown City/Twp.	1	0	1	0	0	1
Chippewa County						
Bay Mills Twp.	14	0	4	10	0	5
Bruce Twp.	73	2	15	56	2	25
Chippewa Twp.	26	1	4	21	1	8
Dafter Twp.	81	1	16	64	1	27
Detour Twp.	25	0	2	23	0	2
Drummond Twp.	52	0	7	45	0	11
Hulbert Twp.	19	0	2	17	0	2
Kinross Twp.	92	0	17	75	0	24
Pickford Twp.	79	2	9	68	3	18
Raber Twp.	19	0	3	16	0	4
Rudyard Twp.	59	1	9	49	1	12
Soo Twp.	93	0	25	68	0	46
Sugar Island Twp.	20	0	4	16	0	7
Superior Twp.	40	0	11	29	0	13
Trout Twp.	17	0	1	16	0	1
Whitefish Twp.	36	0	14	22	0	17
Detour	12	0	2	10	0	2
Sault Ste Marie	638	1	93	544	1	116
Unknown City/Twp.	4	0	2	2	0	2
Clare County						
Arthur Twp.	39	1	5	33	1	8
Franklin Twp.	25	0	5	20	0	7
Freeman Twp.	33	1	9	23	1	13
Frost Twp.	58	1	15	42	1	17
Garfield Twp.	59	0	11	48	0	15
Grant Twp.	231	0	39	192	0	55
Greenwood Twp.	39	0	3	36	0	5
Hamilton Twp.	66	0	7	59	0	9
Hatton Twp.	116	0	14	102	0	20
Hayes Twp.	179	0	42	137	0	72
Lincoln Twp.	51	0	13	38	0	14
Redding Twp.	13	0	2	11	0	2
Sheridan Twp.	42	0	7	35	0	10
Summerfield Twp.	24	0	9	15	0	12
Surrey Twp.	137	0	29	108	0	43
Winterfield Twp.	13	0	2	11	0	2
Farwell	19	0	6	13	0	8
Harrison	67	0	17	50	0	23
Clare	155	0	40	115	0	48
Unknown City/Twp.	13	0	4	9	0	6
Clinton County						
Bath Twp.	188	0	30	158	0	45
Bengal Twp.	32	0	2	30	0	3
Bingham Twp.	115	1	23	91	1	36
Dallas Twp.	53	1	10	42	1	14
Dewitt Twp.	341	4	72	265	4	107
Duplain Twp.	75	0	17	58	0	24
Eagle Twp.	111	0	22	89	0	35
Essex Twp.	44	0	9	35	0	11
Greenbush Twp.	99	0	18	81	0	26
Lebanon Twp.	25	0	3	22	0	6
Olive Twp.	123	2	22	99	2	37
Ovid Twp.	66	0	11	55	0	14
Riley Twp.	46	0	8	38	0	14
Victor Twp.	110	0	18	92	0	23
Watertown Twp.	197	4	35	158	4	67
Westphalia Twp.	46	0	5	41	0	7
Eagle	1	0	1	0	0	1

TRAFFIC CRASH SUMMARY FOR CITIES 1992 (continued)

	Total Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes	Persons Killed	Persons Injured
Elsie	14	0	0	14	0	0
Hubbardston	0	0	0	0	0	0
Maple Rapids	8	0	0	8	0	0
Westphalia	4	0	0	4	0	0
Capitol City Airport	0	0	0	0	0	0
Dewitt	43	0	4	39	0	4
Fowler	18	0	1	17	0	2
Ovid	20	0	0	20	0	0
St. Johns	243	0	49	194	0	78
Lansing	0	0	0	0	0	0
Unknown City/Twp.	1	0	0	1	0	0
Crawford County						
Beaver Creek Twp.	115	0	21	94	0	38
Frederic Twp.	68	1	10	57	1	15
Grayling Twp.	331	1	47	283	1	84
Lovells Twp.	47	0	4	43	0	7
Maple Forest Twp.	86	1	23	62	1	37
South Branch Twp.	57	1	7	49	1	7
Camp Grayling	2	0	0	2	0	0
Grayling	152	0	23	129	0	31
Unknown City/Twp.	2	0	0	2	0	0
Delta County						
Baldwin Twp.	54	0	2	52	0	3
Bark River Twp.	126	0	9	117	0	16
Bay De Noc Twp.	40	0	4	36	0	4
Brampton Twp.	48	0	7	41	0	12
Cornell Twp.	84	0	7	77	0	7
Ensign Twp.	54	0	7	47	0	13
Escanaba Twp.	145	0	20	125	0	26
Fairbanks Twp.	10	0	0	10	0	0
Ford River Twp.	148	1	21	126	1	36
Garden Twp.	46	0	8	38	0	14
Maple Ridge Twp.	79	0	8	71	0	12
Masonville Twp.	192	0	18	174	0	23
Nahma Twp.	72	0	6	66	0	8
Wells Twp.	218	0	39	179	0	53
Garden	1	0	0	1	0	0
Gladstone	146	1	23	122	1	35
Escanaba	718	1	143	574	1	204
Unknown City/Twp.	3	0	0	3	0	0
Dickinson County						
Breen Twp.	40	0	5	35	0	8
Breitung Twp.	344	1	44	299	1	69
Felch Twp.	81	1	8	72	1	9
Norway Twp.	57	0	7	50	0	11
Sagola Twp.	160	0	12	148	0	19
Waucedah Twp.	85	1	7	77	1	11
West Branch Twp.	15	0	1	14	0	1
Norway	108	0	12	96	0	16
Iron Mountain	321	1	86	234	1	130
Kingsford	129	0	31	98	0	56
Unknown City/Twp.	3	0	0	3	0	0
Eaton County						
Bellevue Twp.	103	0	19	84	0	30
Benton Twp.	129	1	27	101	2	39
Brookfield Twp.	51	0	7	44	0	10
Carmel Twp.	67	0	17	50	0	22
Chester Twp.	68	0	14	54	0	18
Delta Twp.	1158	3	262	893	4	382
Eaton Twp.	181	0	47	134	0	76
Eaton Rapids Twp.	130	2	35	93	2	58
Hamlin Twp.	90	0	18	72	0	22
Kalamo Twp.	53	1	13	39	1	22
Oneida Twp.	121	1	27	93	1	35
Roxand Twp.	46	1	13	32	1	18
Sunfield Twp.	69	1	11	57	1	15
Vermontville Twp.	80	1	13	66	1	16
Walton Twp.	127	0	18	109	0	23
Windsor Twp.	339	0	82	257	0	114
Dimondale	12	0	1	11	0	1
Mulliken	9	1	2	6	1	2
Sunfield	10	0	0	10	0	0
Vermontville	12	0	4	8	0	5
Bellevue	7	0	2	5	0	2
Olivet	27	0	5	22	0	9
Pottersville	29	1	5	23	1	11
Eaton Rapids	108	0	19	89	0	23
Charlotte	287	0	56	231	0	73
Grand Ledge	163	0	33	130	0	49
Lansing	26	0	7	19	0	8
Unknown City/Twp.	0	0	0	0	0	0

TRAFFIC CRASH SUMMARY FOR CITIES 1992 (continued)

	Total Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes	Persons Killed	Persons Injured
Emmet County						
Bear Creek Twp.	312	0	73	239	0	123
Bliss Twp.	16	0	2	14	0	2
Carp Lake Twp.	47	1	13	33	1	18
Center Twp.	26	0	4	22	0	6
Cross Village Twp.	11	0	5	6	0	5
Friendship Twp.	28	0	2	26	0	2
Littlefield Twp.	85	0	16	69	0	24
Little Traverse Twp.	124	0	30	94	0	49
McKinley Twp.	43	0	9	34	0	10
Pleasant View Twp.	45	1	8	36	1	13
Maple River Twp.	31	0	3	28	0	3
Readmond Twp.	28	0	4	24	0	4
Resort Twp.	112	0	19	93	0	23
Springvale Twp.	64	1	11	52	1	17
Wawatam Twp.	6	0	2	4	0	3
West Traverse Twp.	24	0	3	21	0	3
Alanson	26	0	4	22	0	5
Mackinaw City	23	0	7	16	0	15
Pellston	5	0	2	3	0	3
Harbor Springs	48	0	11	37	0	17
Petoskey	327	0	54	273	0	66
Unknown City/Twp.	1	0	1	0	0	1
Genesee County						
Argentine Twp.	82	2	17	63	2	29
Atlas Twp.	97	1	22	74	3	39
Clayton Twp.	160	1	33	126	1	48
Davison Twp.	334	1	102	231	1	147
Fenton Twp.	240	5	42	193	8	69
Flint Twp.	1407	4	373	1030	4	534
Flushing Twp.	161	1	26	134	1	33
Forest Twp.	111	1	36	74	1	48
Gaines Twp.	103	1	18	84	1	28
Genesee Twp.	505	0	129	376	0	202
Grand Blanc Twp.	603	2	142	459	2	210
Montrose Twp.	110	0	30	80	0	37
Mt. Morris Twp.	726	4	230	492	4	388
Mundy Twp.	569	3	132	434	4	217
Richfield Twp.	200	2	62	136	2	99
Theftord Twp.	136	1	39	96	1	62
Vienna Twp.	422	4	122	296	4	192
Gaines	4	0	2	2	0	2
Goodrich	27	0	11	16	0	13
Otter Lake	0	0	0	0	0	0
Otisville	16	0	4	12	0	4
Lennon	1	0	0	1	0	0
Clio	93	0	20	73	0	28
Linden	48	0	8	40	0	10
Montrose	27	0	5	22	0	5
Mt. Morris	84	0	18	66	0	23
Swartz Creek	160	0	40	120	0	60
Davison	156	0	34	122	0	49
Fenton	352	2	109	241	2	146
Flushing	91	0	18	73	0	27
Grand Blanc	169	0	40	129	0	58
Burton	1009	1	271	737	1	450
U of M Flint	1	0	0	1	0	0
Flint	5501	11	1437	4053	12	2130
Unknown City/Twp.	11	0	0	11	0	0
Gladwin County						
Beaverton Twp.	83	0	12	71	0	15
Bentley Twp.	21	0	5	16	0	7
Billings Twp.	67	0	15	52	0	22
Bourret Twp.	19	0	5	14	0	11
Buckeye Twp.	51	0	7	44	0	16
Butman Twp.	53	0	7	46	0	16
Clement Twp.	20	0	5	15	0	8
Gladwin Twp.	56	0	9	47	0	9
Grim Twp.	16	0	4	12	0	6
Grout Twp.	114	0	13	101	0	17
Hay Twp.	55	1	10	44	3	11
Sage Twp.	66	0	13	53	0	19
Secord Twp.	37	0	6	31	0	6
Sherman Twp.	71	0	15	56	0	19
Tobacco Twp.	80	0	15	65	0	20
Beaverton	23	0	11	12	0	14
Gladwin	86	0	23	63	0	35
Unknown City/Twp.	2	0	1	1	0	1
Gogebic County						
Bessemer Twp.	45	0	8	37	0	15
Erwin Twp.	8	0	0	8	0	0
Ironwood Twp.	50	0	8	42	0	19
Marenisco Twp.	51	0	6	45	0	8

TRAFFIC CRASH SUMMARY FOR CITIES 1992 (continued)

	Total Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes	Persons Killed	Persons Injured
Wakefield Twp.	34	1	5	28	1	6
Watersmeet Twp.	52	0	9	43	0	16
Bessemer	43	0	7	36	0	9
Wakefield	38	0	7	31	0	11
Ironwood	257	0	33	224	0	60
Unknown City/Twp.	3	0	2	1	0	2
Grand Traverse County						
Acme Twp.	131	1	35	95	1	50
Blair Twp.	213	1	59	153	1	103
East Bay Twp.	322	2	62	258	2	97
Fife Lake Twp.	51	0	8	43	0	10
Garfield Twp.	574	3	129	442	3	199
Grant Twp.	30	0	7	23	0	10
Green Lake Twp.	111	0	27	84	0	28
Long Lake Twp.	109	0	26	83	0	33
Mayfield Twp.	51	1	13	37	1	25
Peninsula Twp.	59	2	20	37	2	34
Paradise Twp.	101	2	21	78	2	32
Union Twp.	22	0	3	19	0	6
White Water Twp.	89	2	18	69	2	31
Fife Lake	5	0	1	4	0	3
Kingsley	16	0	7	9	0	9
Traverse City	1103	2	207	894	2	289
Unknown City/Twp.	6	0	1	5	0	1
Gratiot County						
Arcadia Twp.	93	1	18	74	1	33
Bethany Twp.	49	1	13	35	1	22
Elba Twp.	58	1	15	42	1	20
Emerson Twp.	61	1	16	44	1	25
Fulton Twp.	51	0	15	36	0	20
Hamilton Twp.	28	0	4	24	0	5
Lafayette Twp.	17	1	6	10	3	7
Newark Twp.	35	0	8	27	0	14
New Haven Twp.	32	0	7	25	0	8
North Shade Twp.	20	1	3	16	1	6
North Star Twp.	43	0	12	31	0	17
Pine River Twp.	215	0	52	163	0	81
Seville Twp.	77	0	9	68	0	11
Sumner Twp.	65	0	14	51	0	20
Washington Twp.	62	1	12	49	1	26
Wheeler Twp.	42	1	14	27	1	21
Ashley	5	0	0	5	0	0
Perrinton	8	0	1	7	0	1
Breckenridge	20	0	1	19	0	1
Ithaca	46	0	6	40	0	8
St. Louis	89	0	15	74	0	22
Alma	228	0	41	187	0	62
Unknown City/Twp.	3	0	0	3	0	0
Hillsdale County						
Adams Twp.	93	0	18	75	0	28
Allen Twp.	71	0	12	59	0	18
Amboy Twp.	37	0	8	29	0	9
Cambria Twp.	114	1	25	88	3	36
Camden Twp.	52	3	12	37	3	24
Fayette Twp.	95	0	13	82	0	21
Hillsdale Twp.	109	0	17	92	0	22
Jefferson Twp.	87	2	18	67	3	28
Litchfield Twp.	43	0	8	35	0	11
Moscow Twp.	62	2	11	49	2	20
Pittsford Twp.	72	1	18	53	1	22
Ransom Twp.	40	0	0	40	0	0
Reading Twp.	76	1	14	61	1	15
Scipio Twp.	58	0	13	45	0	18
Somerset Twp.	74	1	18	55	1	24
Wheatland Twp.	42	0	8	34	0	9
Woodbridge Twp.	25	1	7	17	1	12
Wright Twp.	27	0	8	19	0	15
Allen	2	0	0	2	0	0
Camden	1	0	0	1	0	0
Montgomery	1	0	0	1	0	0
North Adams	4	0	0	4	0	0
Waldron	2	0	0	2	0	0
Jonesville	65	0	11	54	0	12
Litchfield	29	0	7	22	0	8
Reading	7	0	1	6	0	2
Hillsdale	358	1	65	292	1	91
Unknown City/Twp.	10	0	1	9	0	1
Houghton County						
Adams Twp.	82	1	16	65	1	27
Calumet Twp.	95	0	18	77	0	23
Chassell Twp.	71	1	16	54	1	20
Duncan Twp.	37	0	3	34	0	4

TRAFFIC CRASH SUMMARY FOR CITIES 1992 (continued)

	Total Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes	Persons Killed	Persons Injured
Elm River Twp.	28	0	4	24	0	4
Franklin Twp.	52	1	19	32	2	35
Hancock Twp.	15	0	5	10	0	6
Laird Twp.	35	0	2	33	0	2
Osceola Twp.	63	1	14	48	1	20
Portage Twp.	125	1	36	88	1	50
Quincy Twp.	6	0	3	3	0	3
Stanton Twp.	19	0	8	11	0	12
Schoolcraft Twp.	16	1	6	9	1	6
Torch Lake Twp.	18	0	4	14	0	8
Copper City	3	0	1	2	0	1
South Range	13	1	2	10	1	2
Calumet	43	0	2	41	0	2
Lake Linden	21	0	1	20	0	2
Hancock	232	0	24	208	0	26
Laurium	41	0	2	39	0	3
Houghton	312	1	40	271	1	64
Mich Technological Univ	22	0	0	22	0	0
Unknown City/Twp.	4	0	1	3	0	1
Huron County						
Bingham Twp.	79	0	11	68	0	16
Bloomfield Twp.	24	2	6	16	5	16
Brookfield Twp.	13	0	3	10	0	3
Caseville Twp.	39	0	8	31	0	11
Chandler Twp.	16	0	3	13	0	6
Colfax Twp.	110	1	16	93	1	24
Dwight Twp.	19	0	7	12	0	9
Fair Haven Twp.	45	1	9	35	1	14
Gore Twp.	13	0	1	12	0	1
Grant Twp.	56	0	8	48	0	13
Hume Twp.	39	1	3	35	1	7
Huron Twp.	32	0	1	31	0	2
Lake Twp.	25	0	7	18	0	8
Lincoln Twp.	32	0	7	25	0	8
McKinley Twp.	31	1	5	25	2	8
Meade Twp.	37	1	5	31	1	12
Oliver Twp.	29	0	9	20	0	14
Paris Twp.	31	0	2	29	0	3
Pte Aux Barques Twp.	0	0	0	0	0	0
Port Austin Twp.	39	0	8	31	0	13
Rubicon Twp.	41	0	7	34	0	9
Sand Beach Twp.	79	2	18	59	2	34
Sebewaing Twp.	45	1	14	30	1	18
Sheridan Twp.	56	0	5	51	0	8
Sherman Twp.	41	2	8	31	2	12
Sigel Twp.	33	0	4	29	0	4
Verona Twp.	130	1	13	116	1	19
Windsor Twp.	26	1	7	18	1	9
Caseville	29	0	6	23	0	9
Elkton	25	0	2	23	0	2
Kinde	10	0	2	8	0	5
Owendale	3	0	1	2	0	1
Port Austin	8	0	0	8	0	0
Port Hope	9	0	2	7	0	2
Ubyly	5	0	1	4	0	1
Harbor Beach	32	0	2	30	0	2
Pigeon	21	0	2	19	0	3
Sebewaing	28	0	4	24	0	7
Bad Axe	155	0	30	125	0	41
Unknown City/Twp.	5	0	0	5	0	0
Ingham County						
Alaiedon Twp.	248	0	49	199	0	63
Aurelius Twp.	98	1	25	72	1	42
Bunker Hill Twp.	48	0	14	34	0	20
Delhi Twp.	515	0	101	414	0	145
Ingham Twp.	57	0	15	42	0	18
Lansing Twp.	745	3	148	594	3	204
Leroy Twp.	127	1	17	109	1	35
Leslie Twp.	72	0	19	53	0	26
Locke Twp.	53	0	7	46	0	9
Meridian Twp.	1062	2	285	775	2	406
Onondago Twp.	90	0	25	65	0	29
Stockbridge Twp.	71	0	12	59	0	17
Vevay Twp.	160	0	29	131	0	42
Wheatfield Twp.	113	1	18	94	4	23
White Oak Twp.	25	0	4	21	0	6
Williamston Twp.	119	1	12	106	1	15
Dansville	8	0	4	4	0	6
Leslie	21	0	4	17	0	6
Stockbridge	28	0	5	23	0	9
Webberville	22	0	2	20	0	2
Williamston	45	0	11	34	0	17
Mason	165	0	25	140	0	34
East Lansing	1255	0	354	901	0	482

TRAFFIC CRASH SUMMARY FOR CITIES 1992 (continued)

	Total Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes	Persons Killed	Persons Injured
Michigan State Univ	391	0	88	303	0	100
Lansing	5565	12	1250	4303	13	1752
Unknown City/Twp.	5	0	1	4	0	1
Ionia County						
Berlin Twp.	160	0	35	125	0	53
Boston Twp.	167	0	44	123	0	71
Campbell Twp.	80	0	17	63	0	23
Danby Twp.	87	0	19	68	0	22
Easton Twp.	137	2	25	110	2	41
Ionia Twp.	188	0	51	137	0	73
Keene Twp.	42	0	7	35	0	7
Lyons Twp.	68	0	13	55	0	20
North Plains Twp.	42	0	7	35	0	7
Odessa Twp.	61	1	12	48	1	17
Orange Twp.	109	1	14	94	1	21
Orleans Twp.	155	1	29	125	1	38
Otisco Twp.	100	1	26	73	1	40
Portland Twp.	97	3	17	77	3	36
Ronald Twp.	75	0	13	62	0	18
Sebewa Twp.	42	0	4	38	0	5
Clarksville	4	0	2	2	0	2
Hubbardston	13	0	4	9	0	5
Lyons	11	0	4	7	0	4
Muir	21	0	7	14	0	9
Pewamo	5	0	0	5	0	0
Lake Odessa	38	0	6	32	0	8
Saranac	15	0	6	9	0	7
Portland	76	0	9	67	0	12
Belding	100	0	29	71	0	50
Ionia	280	0	33	247	0	42
Unknown City/Twp	3	0	0	3	0	0
Iosco County						
Alabaster Twp.	60	0	5	55	0	7
Au Sable Twp.	85	0	16	69	0	33
Baldwin Twp.	86	1	15	70	1	24
Burleigh Twp.	48	0	8	40	0	14
Grant Twp.	65	1	8	56	1	15
Oscoda Twp.	280	0	53	227	0	66
Plainfield Twp.	149	3	34	112	3	43
Reno Twp.	62	1	6	55	1	12
Sherman Twp.	46	0	4	42	0	4
Tawas Twp.	136	0	18	118	0	27
Wilber Twp.	39	1	3	35	1	3
Whittemore	12	0	2	10	0	3
East Tawas	84	0	19	65	0	28
Tawas City	71	0	12	59	0	21
Unknown City/Twp	2	0	0	2	0	0
Iron County						
Bates Twp.	83	0	16	67	0	24
Crystal Falls Twp.	140	0	13	127	0	21
Hematite Twp.	34	0	5	29	0	6
Iron River Twp.	88	0	10	78	0	12
Mansfield Twp.	52	0	0	52	0	0
Mastodon Twp.	60	1	4	55	1	12
Stambaugh Twp.	102	0	10	92	0	11
Alpha	0	0	0	0	0	0
Gaastra	4	0	0	4	0	0
Mineral Hills	1	0	0	1	0	0
Caspian	11	0	4	7	0	5
Crystal Falls	55	0	6	49	0	9
Stambaugh	26	0	6	20	0	6
Iron River	108	0	19	89	0	21
Unknown City/Twp.	3	0	1	2	0	1
Isabella County						
Broomfield Twp.	58	0	11	47	0	11
Chippewa Twp.	155	3	32	120	4	54
Coe Twp.	51	0	4	47	0	5
Coldwater Twp.	39	2	5	32	2	9
Deerfield Twp.	133	0	16	117	0	33
Denver Twp.	33	0	6	27	0	6
Fremont Twp.	58	0	11	47	0	17
Gilmore Twp.	69	0	7	62	0	8
Isabella Twp.	74	0	7	67	0	13
Lincoln Twp.	52	0	9	43	0	10
Nottawa Twp.	47	0	11	36	0	21
Rolland Twp.	70	2	18	50	2	24
Sherman Twp.	85	0	18	67	0	20
Union Twp.	294	0	72	222	0	90
Vernon Twp.	117	2	17	98	2	27
Wise Twp.	75	1	12	62	1	17
Rosebush	1	0	1	0	0	1
Shepherd	10	0	2	8	0	3
Clare	0	0	0	0	0	0

TRAFFIC CRASH SUMMARY FOR CITIES 1992 (continued)

	Total Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes	Persons Killed	Persons Injured
Central Mich Univ	7	0	1	6	0	3
Mt. Pleasant	719	2	127	590	3	180
Unknown City/Twp.	3	0	1	2	0	1
Jackson County						
Blackman Twp.	762	2	169	591	2	253
Columbia Twp.	141	0	26	115	0	39
Concord Twp.	87	0	15	72	0	25
Grass Lake Twp.	157	5	32	120	5	45
Hanover Twp.	126	0	32	94	0	43
Henrietta Twp.	93	1	28	64	1	36
Leoni Twp.	584	7	162	415	11	264
Liberty Twp.	127	0	29	98	0	45
Napoleon Twp.	175	2	44	129	2	72
Norvell Twp.	77	0	10	67	0	16
Parma Twp.	160	0	31	129	0	44
Pulaski Twp.	43	1	9	33	1	20
Rives Twp.	152	4	29	119	4	48
Sandstone Twp.	170	1	30	139	1	44
Spring Arbor Twp.	242	2	41	199	2	64
Springport Twp.	63	0	13	50	0	25
Summit Twp.	518	2	110	406	3	172
Tomkins Twp.	59	0	13	46	0	16
Waterloo Twp.	101	0	17	84	0	29
Cement City	1	0	1	0	0	1
Concord	2	0	0	2	0	0
Hanover	3	0	0	3	0	0
Parma	9	0	1	8	0	1
Springport	9	0	2	7	0	3
Brooklyn	18	0	2	16	0	4
Grass Lake	1	0	0	1	0	0
Jackson	1875	3	376	1496	3	515
Unknown City/Twp.	3	0	1	2	0	1
Kalamazoo County						
Alamo Twp.	158	0	29	129	0	37
Brady Twp.	138	0	20	118	0	23
Charleston Twp.	146	0	27	119	0	36
Climax Twp.	53	0	9	44	0	12
Comstock Twp.	627	4	156	467	4	246
Cooper Twp.	209	1	38	170	1	58
Kalamazoo Twp.	575	2	128	445	2	198
Oshemo Twp.	610	5	124	481	5	169
Pavilion Twp.	96	0	13	83	0	16
Prairie Ronde Twp.	69	0	8	61	0	10
Richland Twp.	176	3	37	136	3	53
Ross Twp.	159	2	31	126	2	40
Schoolcraft Twp.	180	0	33	147	0	45
Texas Twp.	250	2	48	200	2	74
Wakeshma Twp.	37	0	3	34	0	5
Climax	3	0	0	3	0	0
Richland	37	0	3	34	0	3
Augusta	12	0	2	10	0	2
Galesburg	30	0	9	21	0	11
Parchment	37	0	4	33	0	5
Schoolcraft	55	0	16	39	0	22
Vicksburg	43	0	10	33	0	11
Western Mi Univ	106	0	4	102	0	4
Portage	1763	6	380	1377	7	572
Kalamazoo	4142	5	823	3314	5	1112
Unknown City/Twp.	8	0	1	7	0	1
Kalkaska County						
Blue Lake Twp.	16	0	5	11	0	9
Boardman Twp.	50	0	9	41	0	12
Clearwater Twp.	82	0	11	71	0	12
Cold Springs Twp.	43	0	13	30	0	19
Excelsior Twp.	69	0	10	59	0	12
Garfield Twp.	29	0	6	23	0	10
Kalkaska Twp.	127	3	12	112	4	22
Oliver Twp.	9	0	1	8	0	2
Orange Twp.	35	0	3	32	0	4
Rapid River Twp.	47	0	13	34	0	31
Springfield Twp.	34	0	6	28	0	10
Bear Lake Twp.	43	0	6	37	0	7
Kalkaska	93	0	25	68	0	43
Unknown City/Twp.	3	0	1	2	0	1
Kent County						
Ada Twp.	327	1	62	264	1	92
Algoma Twp.	257	2	51	204	4	73
Alpine Twp.	253	2	57	194	3	92
Bowne Twp.	102	1	11	90	1	12
Byron Twp.	454	4	104	346	5	155
Cannon Twp.	210	0	44	166	0	73
Caledonia Twp.	281	0	62	219	0	84
Cascade Twp.	589	3	143	443	5	208

SUMMARY FOR CITIES 1992 (continued)

	Total Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes	Persons Killed	Persons Injured
Courtland Twp.	158	1	32	125	1	43
Gaines Twp.	307	4	83	220	4	116
Grand Rapids Twp.	429	1	104	324	1	162
Grattan Twp.	105	1	19	85	1	29
Lowell Twp.	202	3	45	154	3	70
Nelson Twp.	111	1	29	81	1	44
Oakfield Twp.	142	0	32	110	0	46
Plainfield Twp.	859	2	211	646	2	324
Solon Twp.	185	0	45	140	0	79
Sparta Twp.	182	0	46	136	0	69
Spencer Twp.	88	3	16	69	4	30
Tyrone Twp.	101	0	22	79	0	42
Vergennes Twp.	95	1	18	76	2	28
Caledonia	14	0	3	11	0	5
Casnovia	5	0	2	3	0	4
Kent City	18	1	4	13	2	17
Sand Lake	20	0	10	10	0	11
Cedar Springs	33	0	4	29	0	5
Rockford	148	0	30	118	0	48
Lowell	168	1	38	129	1	54
Sparta	77	0	26	51	0	37
E Grand Rapids	181	0	23	158	0	32
Grandville	716	1	180	535	1	292
Kentwood	1582	1	389	1192	1	579
Walker	948	1	205	742	1	283
Wyoming	2485	2	654	1829	3	879
Grand Rapids	7953	13	1885	6055	13	2519
Unknown City/Twp.	6	1	1	4	1	3
Keweenaw County						
Allouez Twp.	32	0	8	24	0	8
Eagle Harbor Twp.	7	0	3	4	0	4
Grant Twp.	17	0	2	15	0	3
Houghton Twp.	7	0	1	6	0	1
Sherman Twp.	2	0	0	2	0	0
Ahmeek	1	0	0	1	0	0
Unknown City/Twp.	0	0	0	0	0	0
Lake County						
Chase Twp.	44	0	8	36	0	12
Cherry Valley Twp.	19	0	3	16	0	4
Dover Twp.	24	0	4	20	0	5
Eden Twp.	26	0	7	19	0	15
Elk Twp.	29	0	6	23	0	8
Ellsworth Twp.	28	0	4	24	0	5
Lake Twp.	35	0	7	28	0	7
Newkirk Twp.	28	0	9	19	0	9
Peacock Twp.	31	0	8	23	0	10
Pinora Twp.	16	0	4	12	0	4
Pleasant Plains Twp.	69	0	10	59	0	12
Sauble Twp.	12	0	3	9	0	3
Sweetwater Twp.	24	0	3	21	0	4
Webber Twp.	48	2	12	34	3	25
Yates Twp.	39	0	8	31	0	9
Baldwin	35	0	6	29	0	10
Luther	3	0	0	3	0	0
Unknown City/Twp.	7	0	1	6	0	1
Lapeer County						
Almont Twp.	116	0	28	88	0	45
Arcadia Twp.	72	1	9	62	1	14
Attica Twp.	145	0	25	120	0	35
Burlington Twp.	34	0	5	29	0	14
Burnside Twp.	80	0	16	64	0	22
Deerfield Twp.	137	1	28	108	1	39
Dryden Twp.	109	0	21	88	0	28
Elba Twp.	162	1	31	130	1	49
Goodland Twp.	66	2	13	51	2	18
Hadley Twp.	86	0	17	69	0	18
Imlay Twp.	110	1	23	86	1	28
Lapeer Twp.	249	2	52	195	2	80
Marathon Twp.	80	1	15	64	1	25
Mayfield Twp.	236	0	53	183	0	78
Metamora Twp.	186	1	34	151	1	52
North Branch Twp.	66	1	19	46	1	36
Oregon Twp.	121	2	26	93	2	36
Rich Twp.	40	0	6	34	0	6
Clifford	5	0	2	3	0	2
Columbiaville	11	0	3	8	0	3
Dryden	4	0	1	3	0	1
Metamora	9	0	1	8	0	1
North Branch	16	0	1	15	0	2
Otter Lake	12	0	4	8	0	5
Almont	48	0	12	36	0	19
Imlay City	135	0	37	98	0	56
Lapeer	421	2	92	327	2	131
Unknown City/Twp.	5	0	0	5	0	0

SUMMARY FOR CITIES 1992 (continued)

	Total Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes	Persons Killed	Persons Injured
Leelanau County						
Bingham Twp.	56	0	8	48	0	14
Centerville Twp.	38	0	12	26	0	15
Cleveland Twp.	31	0	11	20	0	13
Elmwood Twp.	99	1	17	81	1	29
Empire Twp.	39	1	6	32	1	13
Glen Arbor Twp.	29	0	8	21	0	15
Kasson Twp.	47	0	13	34	0	25
Leelanau Twp.	48	0	10	38	0	20
Leland Twp.	59	0	8	51	0	10
Solon Twp.	62	1	6	55	1	9
Suttons Bay Twp.	49	0	9	40	0	17
Empire	4	0	0	4	0	0
Northport	8	0	1	7	0	1
Suttons Bay	14	0	3	11	0	7
Leland Village	0	0	0	0	0	0
Traverse City	1	0	0	1	0	0
Unknown City/Twp.	2	0	0	2	0	0
Lenawee County						
Adrian Twp.	172	2	37	133	2	58
Blissfield Twp.	25	0	4	21	0	4
Cambridge Twp.	163	0	32	131	0	47
Clinton Twp.	62	2	18	42	2	25
Deerfield Twp.	11	1	5	5	1	8
Dover Twp.	57	1	18	38	1	26
Fairfield Twp.	50	1	16	33	1	29
Franklin Twp.	128	3	27	98	5	52
Hudson Twp.	66	0	12	54	0	16
Macon Twp.	51	0	16	35	0	23
Madison Twp.	202	3	47	152	3	77
Medina Twp.	36	0	9	27	0	13
Ogden Twp.	13	0	6	7	0	8
Palmyra Twp.	120	0	35	85	0	48
Raisin Twp.	165	3	43	119	4	78
Ridgeway Twp.	32	1	7	24	1	9
Riga Twp.	43	1	21	21	3	36
Rollin Twp.	80	0	15	65	0	22
Rome Twp.	83	0	20	63	0	25
Seneca Twp.	43	1	10	32	1	16
Tecumseh Twp.	38	1	7	30	1	14
Woodstock Twp.	148	2	44	102	2	73
Addison	14	0	3	11	0	8
Britton	6	0	1	5	0	2
Cement City	3	0	0	3	0	0
Clayton	1	0	0	1	0	0
Deerfield	6	1	3	2	1	8
Onsted	6	0	1	5	0	2
Clinton	32	0	6	26	0	9
Morenci	18	1	7	10	1	9
Blissfield	56	0	12	44	0	14
Hudson	3	0	1	2	0	1
Tecumseh	185	0	37	148	0	51
Adrian	809	0	184	625	0	253
Unknown City/Twp.	1	0	1	0	0	1
Livingston County						
Brighton Twp.	669	2	188	479	2	272
Cohoctah Twp.	88	0	22	66	0	29
Conway Twp.	37	0	6	31	0	9
Deerfield Twp.	74	1	16	57	1	24
Genoa Twp.	493	3	149	341	3	228
Green Oak Twp.	353	1	78	274	1	105
Hamburg Twp.	272	2	63	207	2	94
Handy Twp.	177	1	34	142	1	58
Hartland Twp.	335	2	71	262	2	108
Howell Twp.	296	2	82	212	2	125
Iosco Twp.	61	0	11	50	0	14
Marion Twp.	196	0	40	156	0	56
Osceola Twp.	164	0	46	118	0	82
Putnam Twp.	146	0	37	109	0	56
Tyrone Twp.	149	1	44	104	1	65
Unadilla Twp.	86	0	22	64	0	33
Pinckney	29	0	7	22	0	9
Brighton	327	1	78	248	1	116
Fowlerville	45	0	9	36	0	11
Howell	360	0	94	266	0	138
Unknown City/Twp.	4	0	2	2	0	2
Luce County						
Columbus Twp.	30	0	8	22	0	8
Lakefield Twp.	47	0	9	38	0	16
McMillan Twp.	51	0	23	28	0	23
Pentland Twp.	99	0	15	84	0	20
Newberry	20	0	4	16	0	7
Unknown City/Twp.	5	0	0	5	0	0

SUMMARY FOR CITIES 1992 (continued)

	Total Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes	Persons Killed	Persons Injured
Mackinac County						
Bois Blanc Twp.	0	0	0	0	0	0
Brevort Twp.	24	1	4	19	1	5
Clark Twp.	154	0	19	135	0	23
Garfield Twp.	93	1	8	84	2	23
Hendricks Twp.	28	0	4	24	0	8
Hudson Twp.	27	0	3	24	0	3
Marquette Twp.	53	0	8	45	0	11
Moran Twp.	92	0	28	64	0	43
Newton Twp.	39	0	5	34	0	5
Portage Twp.	29	0	7	22	0	8
St. Ignace Twp.	147	0	21	126	0	29
Mackinac Island	9	0	2	7	0	2
St. Ignace	67	0	15	52	0	21
Unknown City/Twp.	2	0	0	2	0	0
Macomb County						
Armada Twp.	146	1	39	106	1	54
Bruce Twp.	146	3	45	98	4	81
Chesterfield Twp.	951	10	269	672	11	392
Clinton Twp.	2942	7	833	2102	7	1219
Harrison Twp.	530	3	155	372	3	205
Lenox Twp.	152	2	36	114	3	50
Macomb Twp.	763	0	223	540	0	325
Ray Twp.	107	0	27	80	0	43
Richmond Twp.	69	0	18	51	0	27
Shelby Twp.	1271	1	337	933	1	517
Washington Twp.	308	3	76	229	3	124
Lake Township	0	0	0	0	0	0
Macomb Co Comm	4	0	1	3	0	1
Stoney Creek	5	0	1	4	0	1
Armada	25	0	4	21	0	6
Memphis	17	0	3	14	0	4
New Haven	44	0	13	31	0	20
Grosse Pointe Shores	1	0	1	0	0	1
New Baltimore	237	1	76	160	1	105
Richmond	100	0	15	85	0	17
Romeo	129	0	33	96	0	57
Utica	497	1	134	362	1	202
Center Line	422	2	113	307	2	153
Fraser	658	1	177	480	1	265
Mt. Clemens	671	1	150	520	1	208
East Detroit	850	3	218	629	3	311
Roseville	2173	4	573	1596	4	842
St. Clair Shores	1742	4	520	1218	4	756
Sterling Heights	3305	3	926	2376	3	1386
Warren	4602	6	1288	3308	6	1917
Unknown City/Twp.	13	0	3	10	0	3
Manistee County						
Arcadia Twp.	7	0	0	7	0	0
Bear Lake Twp.	29	0	8	21	0	16
Brown Twp.	22	0	8	14	0	10
Cleon Twp.	27	1	4	22	1	8
Dickson Twp.	24	0	7	17	0	9
Filer Twp.	79	0	19	60	0	33
Manistee Twp.	105	0	14	91	0	22
Maple Grove Twp.	26	0	6	20	0	6
Marilla Twp.	7	0	1	6	0	1
Norman Twp.	75	0	21	54	0	28
Onokama Twp.	18	0	5	13	0	9
Pleasanton Twp.	29	0	8	21	0	12
Springdale Twp.	25	0	4	21	0	7
Stronach Twp.	35	0	3	32	0	4
Bear Lake	11	0	3	8	0	3
Copemish	5	0	0	5	0	0
East Lake	1	0	0	1	0	0
Kaleva	5	0	2	3	0	2
Onokama	6	0	2	4	0	2
Manistee	269	0	33	236	0	59
Unknown City/Twp.	1	0	0	1	0	0
Marquette County						
Champion Twp.	21	0	8	13	0	16
Chocolay Twp.	187	1	40	146	1	71
Ely Twp.	88	0	18	70	0	22
Ewing Twp.	8	0	0	8	0	0
Forsyth Twp.	204	0	42	162	0	62
Humboldt Twp.	48	1	7	40	1	9
Ishpeming Twp.	92	0	18	74	0	29
Marquette Twp.	184	0	34	150	0	54
Michigamme Twp.	34	0	8	26	0	13
Negaunee Twp.	150	0	29	121	0	39
Powell Twp.	43	0	11	32	0	11
Republic Twp.	61	0	8	53	0	14
Richmond Twp.	30	1	7	22	1	8
Sands Twp.	85	0	14	71	0	20

SUMMARY FOR CITIES 1992 (continued)

	Total Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes	Persons Killed	Persons Injured
Skandia Twp.	59	0	10	49	0	13
Tilden Twp.	50	0	10	40	0	12
Turin Twp.	15	0	3	12	0	3
Wells Twp.	42	0	6	36	0	12
West Branch Twp.	39	0	5	34	0	7
Marquette Airport	0	0	0	0	0	0
Ishpeming	282	1	42	239	1	68
Negaunee	174	1	27	146	1	37
Northern Michigan Univ	10	0	1	9	0	1
Marquette	863	2	149	712	2	202
Unknown City/Twp.	9	0	3	6	0	3
Mason County						
Amber Twp.	112	0	25	87	0	36
Branch Twp.	44	1	11	32	1	19
Custer Twp.	73	1	13	59	1	20
Eden Twp.	33	0	4	29	0	5
Freesoil Twp.	37	1	10	26	1	12
Grant Twp.	56	0	9	47	0	14
Logan Twp.	18	0	0	18	0	0
Hamlin Twp.	74	1	13	60	2	18
Meade Twp.	7	0	2	5	0	3
Pere Marquette Twp.	148	1	31	116	1	49
Riverton Twp.	39	1	7	31	1	12
Sheridan Twp.	33	0	5	28	0	5
Sherman Twp.	67	1	18	48	1	30
Summit Twp.	31	1	8	22	1	10
Victory Twp.	71	0	14	57	0	21
Custer	10	0	1	9	0	2
Fountain	2	0	0	2	0	0
Freesoil	3	0	1	2	0	1
Scottville	40	0	8	32	0	12
Ludington	251	0	39	212	0	55
Unknown City/Twp.	3	0	2	1	0	2
Mecosta County						
Aetna Twp.	66	1	15	50	1	20
Austin Twp.	50	0	4	46	0	10
Big Rapids Twp.	187	2	31	154	2	55
Chippewa Twp.	67	0	10	57	0	12
Colfax Twp.	131	0	5	126	0	5
Deerfield Twp.	50	0	5	45	0	5
Fork Twp.	76	0	8	68	0	9
Grant Twp.	23	0	6	17	0	9
Green Twp.	152	1	24	127	1	45
Hinton Twp.	96	0	9	87	0	14
Martiny Twp.	82	0	13	69	0	17
Mecosta Twp.	150	0	36	114	0	55
Millbrook Twp.	71	0	8	63	0	10
Morton Twp.	79	0	19	60	0	28
Sheridan Twp.	73	0	10	63	0	12
Wheatland Twp.	110	0	13	97	0	17
Barryton	4	0	0	4	0	0
Mecosta	11	0	1	10	0	1
Morley	7	0	0	7	0	0
Stanwood	3	0	1	2	0	1
Ferris College	9	0	2	7	0	3
Big Rapids	524	1	100	423	1	139
Unknown City/Twp.	2	0	0	2	0	0
Menominee County						
Cedarville Twp.	64	0	8	56	0	14
Daggett Twp.	77	0	4	73	0	6
Faithorn Twp.	18	0	1	17	0	1
Gourley Twp.	24	0	2	22	0	5
Harris Twp.	105	0	11	94	0	17
Holmes Twp.	41	1	5	35	1	6
Ingallston Twp.	85	1	9	75	1	12
Lake Twp.	59	0	5	54	0	8
Mellon Twp.	112	0	13	99	0	20
Menominee Twp.	253	1	29	223	1	46
Meyer Twp.	67	1	10	56	2	15
Nadeau Twp.	133	1	13	119	1	20
Spalding Twp.	132	0	10	122	0	14
Stephenson Twp.	99	0	5	94	0	9
Daggett	14	0	3	11	0	3
Powers	10	0	3	7	0	5
Stephenson	25	0	4	21	0	5
Menominee	343	0	83	260	0	120
Unknown City/Twp.	12	0	0	12	0	0
Midland County						
Edenville Twp.	87	1	21	65	1	31
Geneva Twp.	43	0	5	38	0	6
Greendale Twp.	47	0	10	37	0	15
Homer Twp.	125	0	30	95	0	44
Hope Twp.	31	0	4	27	0	8
Ingersoll Twp.	68	1	14	53	1	21

SUMMARY FOR CITIES 1992 (continued)

	Total Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes	Persons Killed	Persons Injured
Jasper Twp.	40	0	8	32	0	8
Jerome Twp.	130	3	33	94	3	41
Larkin Twp.	165	0	26	139	0	40
Lee Twp.	129	0	35	94	0	60
Lincoln Twp.	92	0	19	73	0	21
Midland Twp.	82	0	16	66	0	25
Mills Twp.	51	0	19	32	0	27
Mt. Haley Twp.	56	0	8	48	0	12
Porter Twp.	35	0	9	26	0	11
Warren Twp.	104	0	15	89	0	22
Sanford	14	0	7	7	0	11
Coleman	15	0	4	11	0	6
Saginaw Valley State	0	0	0	0	0	0
Midland	1441	0	289	1152	0	380
Unknown City/Twp.	4	0	1	3	0	1
Missaukee County						
Aetna Twp.	31	0	4	27	0	4
Bloomfield Twp.	15	0	1	14	0	2
Butterfield Twp.	29	1	2	26	1	4
Caldwell Twp.	52	0	9	43	0	13
Clam Union Twp.	22	0	6	16	0	8
Enterprise Twp.	15	0	1	14	0	3
Forest Twp.	30	1	3	26	1	4
Holland Twp.	15	0	3	12	0	4
Lake Twp.	97	0	21	76	0	37
Norwich Twp.	20	0	2	18	0	3
Pioneer Twp.	12	1	3	8	1	8
Reeder Twp.	47	1	9	37	1	13
Richland Twp.	37	0	6	31	0	10
Riverside Twp.	60	0	10	50	0	14
West Branch Twp.	29	0	3	26	0	5
Lake City	38	0	10	28	0	12
McBain	10	0	0	10	0	0
Unknown City/Twp.	4	0	2	2	0	3
Monroe County						
Ash Twp.	166	0	59	107	0	86
Bedford Twp.	519	2	154	363	2	224
Berlin Twp.	152	1	44	107	1	51
Dundee Twp.	100	0	25	75	0	39
Erie Twp.	183	2	44	137	4	72
Exeter Twp.	72	0	21	51	0	28
Frenchtown Twp.	705	1	213	491	1	341
Ida Twp.	78	2	25	51	2	40
Lasalle Twp.	106	0	23	83	0	32
London Twp.	58	0	15	43	0	25
Milan Twp.	70	1	20	49	1	32
Monroe Twp.	356	1	91	264	1	149
Raisinville Twp.	118	0	34	84	0	52
Summerfield Twp.	72	1	20	51	1	31
Whiteford Twp.	222	2	66	154	3	101
Estral Beach	3	0	0	3	0	0
Maybee	10	0	2	8	0	2
Carleton	23	1	5	17	1	7
Dundee	51	1	8	42	1	11
Luna Pier	8	0	1	7	0	1
Petersburg	17	0	1	16	0	2
South Rockwood	22	0	7	15	0	9
Milan	20	0	4	16	0	6
Monroe	739	2	168	569	2	238
Unknown City/Twp.	2	0	1	1	0	1
Montcalm County						
Belvidere Twp.	117	1	18	98	1	24
Bloomer Twp.	82	0	18	64	0	21
Bushnell Twp.	88	1	10	77	1	18
Cato Twp.	134	0	15	119	0	22
Crystal Twp.	95	0	19	76	0	25
Day Twp.	72	0	10	62	0	15
Douglass Twp.	84	0	11	73	0	12
Eureka Twp.	175	0	44	131	0	71
Evergreen Twp.	96	1	17	78	1	28
Fairplain Twp.	118	0	21	97	0	32
Ferris Twp.	79	0	7	72	0	10
Home Twp.	84	0	14	70	0	22
Maple Valley Twp.	47	0	16	31	0	28
Montcalm Twp.	164	1	34	129	1	46
Pierson Twp.	101	0	25	76	0	43
Pine Twp.	72	1	12	59	1	26
Reynolds Twp.	121	2	25	94	3	40
Richland Twp.	96	0	18	78	0	26
Sidney Twp.	166	2	27	137	3	39
Winfield Twp.	51	0	8	43	0	10
McBride	1	0	0	1	0	0
Pierson	1	0	1	0	0	2
Sheridan	20	1	6	13	1	8
Carson City	24	0	3	21	0	5

SUMMARY FOR CITIES 1992 (continued)

	Total Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes	Persons Killed	Persons Injured
Edmore	37	0	8	29	0	16
Howard City	25	0	7	18	0	14
Lakeview	15	0	2	13	0	3
Stanton	33	0	7	26	0	11
Greenville	354	0	83	271	0	125
Unknown City/Twp.	6	0	1	5	0	2
Montmorency County						
Albert Twp.	92	0	30	62	0	42
Avery Twp.	36	0	7	29	0	8
Briley Twp.	71	0	10	61	0	13
Hillman Twp.	63	0	11	52	0	17
Loud Twp.	52	0	4	48	0	4
Montmorency Twp.	34	0	4	30	0	6
Rust Twp.	24	0	1	23	0	1
Vienna Twp.	41	1	9	31	1	14
Hillman	17	0	3	14	0	3
Unknown City/Twp.	4	0	0	4	0	0
Muskegon County						
Blue Lake Twp.	64	0	11	53	0	22
Casnovia Twp.	74	0	18	56	0	33
Cedar Creek Twp.	71	0	18	53	0	26
Dalton Twp.	302	2	75	225	3	106
Eggleston Twp.	167	1	39	127	1	55
Fruitland Twp.	154	2	23	129	2	38
Fruitport Twp.	341	2	77	262	2	116
Holton Twp.	99	2	27	70	2	45
Laketon Twp.	111	0	28	83	0	51
Montague Twp.	77	0	12	65	0	17
Moorland Twp.	76	0	11	65	0	18
Muskegon Twp.	632	3	176	453	3	270
Ravenna Twp.	68	0	11	57	0	17
Sullivan Twp.	73	1	12	60	1	20
Whitehall Twp.	90	0	26	64	0	30
White River Twp.	34	1	5	28	1	9
Casnovia	6	0	3	3	0	5
Lakewood Club	6	0	2	4	0	2
Fruitport	37	0	3	34	0	5
Montague	54	0	7	47	0	8
Ravenna	12	0	1	11	0	2
North Muskegon	90	0	23	67	0	32
Roosevelt Park	60	0	13	47	0	19
Whitehall	103	0	20	83	0	37
Muskegon Heights	577	0	146	431	0	215
Norton Shores	586	1	125	460	1	160
Muskegon	1581	1	393	1187	1	567
Unknown City/Twp.	4	0	0	4	0	0
Newaygo County						
Ashland Twp.	107	0	27	80	0	49
Barton Twp.	23	0	5	18	0	8
Beaver Twp.	24	0	5	19	0	9
Big Prairie Twp.	66	1	15	50	1	20
Bridgeton Twp.	61	0	21	40	0	29
Brooks Twp.	113	0	17	96	0	30
Croton Twp.	80	2	12	66	2	18
Dayton Twp.	62	0	24	38	0	42
Denver Twp.	57	0	17	40	0	33
Ensley Twp.	50	0	14	36	0	16
Everett Twp.	91	0	19	72	0	26
Garfield Twp.	77	2	12	63	4	18
Goodwell Twp.	36	0	2	34	0	3
Grant Twp.	91	1	27	63	1	35
Home Twp.	22	0	2	20	0	3
Lilley Twp.	30	0	8	22	0	13
Lincoln Twp.	41	0	12	29	0	15
Merrill Twp.	38	2	9	27	3	19
Monroe Twp.	13	0	0	13	0	0
Norwich Twp.	25	0	2	23	0	2
Sheridan Twp.	101	0	32	69	0	63
Sherman Twp.	88	1	18	69	1	21
Troy Twp.	14	0	4	10	0	5
Wilcox Twp.	46	0	10	36	0	15
Grant	23	0	5	18	0	7
Hesperia	11	1	0	10	1	0
Newaygo	23	0	6	17	0	9
White Cloud	27	0	8	19	0	14
Fremont	183	0	36	147	0	56
Unknown City/Twp.	2	0	0	2	0	0
Oakland County						
Addison Twp.	149	1	25	123	1	38
Bloomfield Twp.	1440	1	405	1034	1	575
Brandon Twp.	219	1	62	156	1	82
Commerce Twp.	616	1	157	458	1	244
Groveland Twp.	152	0	51	101	0	70
Highland Twp.	385	2	104	279	3	150

SUMMARY FOR CITIES 1992 (continued)

	Total Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes	Persons Killed	Persons Injured
Holly Twp.	132	2	36	94	2	54
Independence Twp.	773	1	180	592	1	240
Lyon Twp.	449	4	111	334	4	165
Milford Twp.	256	6	51	199	7	85
Novi Twp.	1	0	0	1	0	0
Oakland Twp.	185	1	35	149	1	52
Orion Twp.	542	1	129	412	1	188
Oxford Twp.	261	1	59	201	1	100
Pontiac Twp.	0	0	0	0	0	0
Rose Twp.	103	1	25	77	1	40
Royal Oak Twp	162	0	49	113	0	73
Springfield Twp.	302	4	74	224	4	124
Waterford Twp.	2922	4	852	2066	5	1276
West Bloomfield Twp.	1357	3	321	1033	3	477
White Lake Twp.	527	5	144	378	5	212
Southfield Twp.	0	0	0	0	0	0
Bingham Farms	126	0	21	105	0	30
Lake Angelus	9	0	4	5	0	8
Leonard	1	0	0	1	0	0
Ortonville	21	0	9	12	0	13
Camp Dearborn	0	0	0	0	0	0
Stoney Creek	0	0	0	0	0	0
Clarkston	34	0	2	32	0	3
Orchard Lake	161	0	41	120	0	61
Sylvan Lake	59	0	16	43	0	24
Wixom	314	0	68	246	0	98
Bloomfield Hills	171	0	46	125	0	61
Franklin	50	0	10	40	0	12
Holly	106	0	23	83	0	39
Keego Harbor	120	0	38	82	0	53
Lake Orion	129	0	31	98	0	48
Lathrup Village	305	1	74	230	1	99
Milford	166	0	37	129	0	55
Oxford	101	0	25	76	0	31
Pleasant Ridge	188	0	36	152	0	62
South Lyon	123	0	23	100	0	40
Walled Lake	189	0	53	136	0	71
Wolverine Lake	40	0	11	29	0	16
Huntington Woods	134	0	36	98	0	43
Northville	51	0	10	41	0	13
Novi	1295	3	357	935	3	505
Rochester	331	0	55	276	0	73
Berkley	444	0	108	336	0	149
Beverly Hills	239	0	64	175	0	94
Clawson	393	0	99	294	0	136
Farmington	435	0	105	330	0	143
Hazel Park	787	2	230	555	2	327
Kensington Park	0	0	0	0	0	0
Oakland Univ	26	0	4	22	0	5
Birmingham	876	0	155	721	0	209
Ferndale	329	2	139	188	2	197
Madison Heights	1502	1	415	1086	1	588
Oak Park	881	1	195	685	1	284
Troy	3304	4	891	2409	4	1247
Farmington Hills	2460	5	713	1742	5	1040
Pontiac	3163	8	873	2282	8	1234
Royal Oak	1894	3	561	1330	3	770
Southfield	3693	6	1007	2680	8	1455
Rochester Hills	1942	5	448	1489	5	632
Auburn Hills	1138	1	247	890	1	398
Unknown City/Twp.	40	0	10	30	0	11
Oceana County						
Benona Twp.	42	0	9	33	0	10
Clay Banks Twp.	14	0	3	11	0	4
Colfax Twp.	36	0	11	25	0	17
Crystal Twp.	32	0	11	21	0	17
Elbridge Twp.	48	0	8	40	0	13
Ferry Twp.	39	0	8	31	0	8
Golden Twp.	52	0	23	29	0	31
Grant Twp.	76	0	22	54	0	36
Greenwood Twp.	40	0	11	29	0	15
Hart Twp.	73	1	11	61	1	17
Leavitt Twp.	43	0	11	32	0	13
New Field Twp.	60	0	11	49	0	14
Otto Twp.	22	1	7	14	1	13
Pentwater Twp.	32	0	7	25	0	14
Shelby Twp.	75	1	22	52	1	37
Weare Twp.	70	0	14	56	0	19
Hesperia	8	0	2	6	0	2
New Era	4	0	2	2	0	6
Pentwater	18	0	6	12	0	13
Rothbury	9	0	4	5	0	7
Walkerville	2	0	0	2	0	0
Hart	47	0	11	36	0	17
Shelby	13	0	3	10	0	3
Unknown City/Twp.	1	0	0	1	0	0

SUMMARY FOR CITIES 1992 (continued)

	Total Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes	Persons Killed	Persons Injured
Ogemaw County						
Churchill Twp.	80	0	6	74	0	9
Cummings Twp.	85	0	13	72	0	25
Edwards Twp.	84	1	10	73	2	15
Foster Twp.	40	2	8	30	2	10
Goodar Twp.	19	0	7	12	0	8
Hill Twp.	54	2	5	47	2	6
Horton Twp.	100	2	15	83	2	28
Klacking Twp.	41	0	6	35	0	6
Logan Twp.	27	0	4	23	0	6
Mills Twp.	91	2	25	64	4	36
Ogemaw Twp.	85	0	14	71	0	23
Richland Twp.	35	0	5	30	0	5
Rose Twp.	97	1	9	87	1	10
West Branch Twp.	179	0	31	148	0	46
Prescott	3	0	0	3	0	0
Rose City	21	0	5	16	0	7
West Branch	96	0	11	85	0	13
Unknown City/Twp.	3	0	2	1	0	2
Ontonagon County						
Bergland Twp.	43	0	9	34	0	13
Bohemia Twp.	12	0	1	11	0	1
Carp Lake Twp.	47	0	4	43	0	6
Greenland Twp.	29	0	4	25	0	6
Haight Twp.	42	1	3	38	1	9
Interior Twp.	35	1	0	34	1	1
Matchwood Twp.	30	0	4	26	0	5
McMillan Twp.	38	0	4	34	0	5
Ontonagon Twp.	49	0	10	39	0	15
Rockland Twp.	26	0	1	25	0	1
Stannard Twp.	122	1	9	112	1	13
Ontonagon	45	0	10	35	0	16
Unknown City/Twp.	9	0	2	7	0	3
Osceola County						
Burdell Twp.	62	1	18	43	1	24
Cedar Twp.	14	0	3	11	0	7
Ewart Twp.	76	1	13	62	1	15
Harwick Twp.	35	0	4	31	0	8
Hersey Twp.	57	1	8	48	1	21
Highland Twp.	84	0	22	62	0	40
Leroy Twp.	47	0	14	33	0	22
Lincoln Twp.	59	0	12	47	0	17
Marion Twp.	40	0	9	31	0	13
Middle Branch Twp.	56	0	12	44	0	20
Orient Twp.	33	0	7	26	0	12
Osceola Twp.	77	0	13	64	0	20
Richmond Twp.	135	0	22	113	0	37
Rose Lake Twp.	31	0	8	23	0	11
Sherman Twp.	44	1	9	34	1	17
Sylvan Twp.	40	1	6	33	1	7
Hersey	3	0	0	3	0	0
Leroy	4	0	0	4	0	0
Marion	16	0	5	11	0	7
Tustin	2	0	0	2	0	0
Ewart	57	0	11	46	0	21
Reed City	72	0	12	60	0	17
Unknown City/Twp.	3	0	0	3	0	0
Oscoda County						
Big Creek Twp.	162	0	28	134	0	36
Clinton Twp.	38	0	3	35	0	3
Comins Twp.	111	0	11	100	0	14
Elmer Twp.	39	0	8	31	0	11
Greenwood Twp.	66	1	3	62	1	6
Mentor Twp.	123	0	18	105	0	22
Unknown City/Twp.	0	0	0	0	0	0
Otsego County						
Bagley Twp.	185	0	40	145	0	54
Charlton Twp.	58	0	14	44	0	21
Chester Twp.	47	0	7	40	0	8
Corwith Twp.	77	1	19	57	1	23
Dover Twp.	30	0	5	25	0	7
Elmira Twp.	54	0	16	38	0	19
Hayes Twp.	51	1	14	36	1	19
Livingston Twp.	115	3	24	88	3	37
Otsego Lake Twp.	70	1	16	53	1	23
Vanderbilt	8	0	0	8	0	0
Gaylord	230	0	47	183	0	70
Unknown City/Twp.	4	0	0	4	0	0
Ottawa County						
Allendale Twp.	201	0	51	150	0	75
Blandon Twp.	121	2	30	89	2	44
Chester Twp.	55	0	19	36	0	42
Crockery Twp.	145	2	25	118	2	32

SUMMARY FOR CITIES 1992 (continued)

	Total Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes	Persons Killed	Persons Injured
Georgetown Twp.	807	3	174	630	3	271
Grand Haven Twp.	223	3	58	162	3	87
Holland Twp.	985	3	234	748	3	352
Jamestown Twp.	86	0	25	61	0	41
Olive Twp.	99	0	32	67	0	42
Park Twp.	194	1	57	136	1	102
Polkton Twp.	145	1	31	113	1	46
Port Sheldon Twp.	81	3	28	50	3	43
Robinson Twp.	113	2	24	87	2	37
Spring Lake Twp.	141	1	33	107	1	41
Tallmadge Twp.	211	1	48	162	1	77
Wright Twp.	140	0	38	102	0	58
Zeeland Twp.	137	2	31	104	2	50
Hope College	0	0	0	0	0	0
Coopersville	51	0	13	38	0	21
Ferrysburg	96	0	14	82	0	16
Fruitport	0	0	0	0	0	0
Hudsonville	118	0	26	92	0	34
Spring Lake	111	0	29	82	0	35
Zeeland	146	1	40	105	1	50
Grand Valley State Univ	0	0	0	0	0	0
Grand Haven	701	2	152	547	2	204
Holland	821	0	231	590	0	313
Unknown City/Twp.	3	0	1	2	0	1
Presque Isle County						
Allis Twp.	48	0	9	39	0	13
Bearinger Twp.	28	0	3	25	0	4
Belknap Twp.	64	1	7	56	1	12
Bismark Twp.	20	0	0	20	0	0
Case Twp.	30	0	7	23	0	21
Krakow Twp.	38	0	5	33	0	13
Metz Twp.	30	0	1	29	0	1
Moltke Twp.	19	0	2	17	0	2
North Allis Twp.	27	0	2	25	0	2
Ocqueoc Twp.	38	0	4	34	0	10
Posen Twp.	46	1	7	38	1	15
Presque Isle Twp.	32	0	3	29	0	3
Pulaski Twp.	34	0	7	27	0	10
Rogers Twp.	43	0	10	33	0	16
Millersburg	6	0	0	6	0	0
Posen	5	0	0	5	0	0
Onaway	7	0	3	4	0	5
Rogers City	79	0	14	65	0	22
Unknown City/Twp.	0	0	0	0	0	0
Roscommon County						
Au Sable Twp.	29	0	2	27	0	2
Backus Twp.	31	0	2	29	0	2
Denton Twp.	205	0	58	147	0	91
Gerrish Twp.	125	0	24	101	0	35
Higgins Twp.	130	1	28	101	1	51
Lake Twp.	72	0	14	58	0	18
Lyon Twp.	58	0	8	50	0	10
Markey Twp.	65	0	15	50	0	21
Nester Twp.	13	0	0	13	0	0
Richfield Twp.	105	0	16	89	0	26
Roscommon Twp.	174	1	49	124	1	73
Roscommon	21	0	1	20	0	2
Unknown City/Twp.	3	0	0	3	0	0
Saginaw County						
Albee Twp.	63	1	16	46	1	22
Birch Run Twp.	211	0	60	151	0	79
Blumfield Twp.	75	2	28	45	2	61
Brady Twp.	49	2	14	33	2	31
Brant Twp.	45	1	13	31	1	21
Bridgeport Twp.	410	4	94	312	4	128
Buena Vista Twp.	431	2	125	304	2	182
Carrollton Twp.	153	1	30	122	1	48
Chapin Twp.	31	0	7	24	0	13
Chesaning Twp.	96	1	18	77	1	24
Frankenmuth Twp.	77	0	18	59	0	38
Fremont Twp.	76	0	15	61	0	21
James Twp.	65	0	15	50	0	18
Jonesfield Twp.	37	1	6	30	1	10
Kochville Twp.	260	0	63	197	0	101
Lakefield Twp.	34	0	5	29	0	10
Maple Grove Twp.	47	0	10	37	0	20
Marion Twp.	31	0	3	28	0	4
Richland Twp.	113	0	19	94	0	26
Saginaw Twp.	1398	4	319	1075	4	463
St. Charles Twp.	64	0	15	49	0	18
Spaulding Twp.	70	0	19	51	0	30
Swan Creek Twp.	79	1	14	64	1	28
Taymouth Twp.	96	1	29	66	1	35
Tittabawassee Twp.	161	1	36	124	1	59
Thomas Twp.	324	0	65	259	0	103

SUMMARY FOR CITIES 1992 (continued)

	Total Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes	Persons Killed	Persons Injured
Zilwaukee Twp.	45	0	10	35	0	16
Birch Run	47	0	8	39	0	15
Merrill	6	0	1	5	0	1
Oakley	5	0	0	5	0	0
Tri Cty Airport	0	0	0	0	0	0
St. Charles	53	0	4	49	0	6
Zilwaukee	27	0	5	22	0	8
Chesaning	81	0	7	74	0	9
Frankenmuth	137	1	25	111	1	44
Saginaw Valley St. Col.	19	0	2	17	0	2
Saginaw	3057	4	708	2345	4	1000
Unknown City/Twp.	8	0	1	7	0	5
Sanilac County						
Argyle Twp.	36	0	7	29	0	13
Austin Twp.	49	1	5	43	1	10
Bridgehampton Twp.	24	0	1	23	0	1
Buel Twp.	34	0	8	26	0	13
Custer Twp.	29	0	9	20	0	13
Delaware Twp.	33	0	4	29	0	5
Elk Twp.	39	0	7	32	0	13
Elmer Twp.	32	0	10	22	0	15
Evergreen Twp.	52	1	9	42	1	12
Flynn Twp.	32	0	9	23	0	10
Forester Twp.	53	0	8	45	0	11
Fremont Twp.	40	0	8	32	0	13
Greenleaf Twp.	79	1	7	71	1	12
Lamotte Twp.	52	1	5	46	1	9
Lexington Twp.	88	0	22	66	0	34
Maple Valley Twp.	25	0	8	17	0	12
Marion Twp.	28	1	6	21	1	9
Marlette Twp.	68	2	20	46	3	36
Minden Twp.	25	1	3	21	1	4
Moore Twp.	39	0	4	35	0	6
Sanilac Twp.	66	0	15	51	0	28
Speaker Twp.	42	0	8	34	0	12
Washington Twp.	52	1	11	40	1	15
Watertown Twp.	71	0	19	52	0	29
Wheatland Twp.	32	0	5	27	0	6
Worth Twp.	103	3	23	77	3	42
Applegate	3	0	1	2	0	1
Carsonville	8	0	3	5	0	3
Deckerville	5	0	0	5	0	0
Forestville	4	0	1	3	0	1
Lexington	5	0	0	5	0	0
Melvin	1	0	0	1	0	0
Minden City	4	0	0	4	0	0
Peck	7	0	2	5	0	6
Port Sanilac	3	0	0	3	0	0
Brown City	24	1	4	19	1	8
Croswell	46	0	12	34	0	19
Marlette	55	1	8	46	1	12
Sandusky	67	0	12	55	0	20
Unknown City/Twp.	3	0	0	3	0	0
Schoolcraft County						
Doyle Twp.	47	0	2	45	0	3
Germfask Twp.	20	0	9	11	0	10
Hiawatha Twp.	62	0	12	50	0	24
Inwood Twp.	49	0	11	38	0	13
Manistique Twp.	31	0	3	28	0	3
Mueller Twp.	46	0	4	42	0	4
Seney Twp.	52	1	5	46	2	8
Thompson Twp.	47	0	10	37	0	15
Manistique	111	0	20	91	0	33
Unknown City/Twp.	7	0	1	6	0	1
Shiawassee County						
Antrim Twp.	34	0	8	26	0	13
Bennington Twp.	70	0	18	52	0	19
Burns Twp.	43	0	13	30	0	17
Caledonia Twp.	146	1	46	99	2	69
Fairfield Twp.	11	0	4	7	0	6
Hazelton Twp.	23	0	6	17	0	9
Middlebury Twp.	36	0	15	21	0	21
New Haven Twp.	34	0	16	18	0	31
Owosso Twp.	114	1	31	82	1	44
Perry Twp.	91	1	12	78	1	19
Rush Twp.	35	2	11	22	2	30
Sciota Twp.	26	0	7	19	0	14
Shiawassee Twp.	82	0	28	54	0	48
Venice Twp.	68	1	21	46	1	29
Vernon Twp.	148	6	38	104	6	63
Woodhull Twp.	85	0	24	61	0	34
Bancroft	3	0	0	3	0	0
Byron	9	0	1	8	0	1
Morrice	4	0	0	4	0	0
New Lothrop	5	0	1	4	0	1

SUMMARY FOR CITIES 1992 (continued)

	Total Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes	Persons Killed	Persons Injured
Vernon	10	0	2	8	0	2
Lennon	9	0	1	8	0	2
Laingsburg	13	0	3	10	0	4
Perry	38	0	3	35	0	6
Corunna	87	0	26	61	0	35
Durand	59	0	8	51	0	9
Owosso	515	2	115	398	2	154
Unknown City/Twp.	0	0	0	0	0	0
St. Clair County						
Berlin Twp.	70	1	19	50	1	24
Brockway Twp.	55	0	17	38	0	23
Burtchville Twp.	83	0	18	65	0	31
Casco Twp.	107	1	23	83	1	38
China Twp.	87	0	28	59	0	53
Clay Twp.	161	1	46	114	4	68
Clyde Twp.	153	0	41	112	0	59
Columbus Twp.	99	0	25	74	0	43
Cottreville Twp.	93	1	23	69	1	38
East China Twp.	47	0	10	37	0	14
Emmett Twp.	65	0	14	51	0	23
Fort Gratiot Twp.	354	2	104	248	2	184
Grant Twp.	37	1	10	26	2	17
Greenwood Twp.	28	0	6	22	0	10
Ira Twp.	135	0	49	86	0	78
Kenockee Twp.	41	0	9	32	0	16
Kimball Twp.	258	4	84	170	4	133
Lynn Twp.	29	1	6	22	1	13
Mussey Twp.	85	1	15	69	1	25
Port Huron Twp.	399	0	101	298	0	163
Riley Twp.	70	2	14	54	2	20
St. Clair Twp.	184	0	42	142	0	69
Wales Twp.	54	2	14	38	2	40
Emmett	6	0	2	4	0	4
Capac	36	0	7	29	0	10
Memphis	8	0	1	7	0	1
Yale	47	0	4	43	0	4
Algonac	46	0	18	28	0	29
Marine City	127	0	33	94	0	44
St. Clair	117	0	24	93	0	34
Marysville	175	0	55	120	0	80
Port Huron	1602	0	295	1307	0	393
Unknown City/Twp.	4	0	1	3	0	1
St. Joseph County						
Burr Oak Twp.	74	0	17	57	0	34
Colon Twp.	76	0	22	54	0	30
Constantine Twp.	87	0	22	65	0	50
Fabius Twp.	212	1	50	161	1	87
Fawn River Twp.	54	1	11	42	1	16
Florence Twp.	68	2	14	52	2	21
Flowerfield Twp.	55	1	11	43	1	17
Leondias Twp.	43	0	8	35	0	10
Lockport Twp.	122	1	32	89	1	54
Mendon Twp.	71	0	19	52	0	27
Mottville Twp.	65	0	21	44	0	23
Nottawa Twp.	72	0	21	51	0	28
Park Twp.	152	2	32	118	2	47
Sherman Twp.	135	0	33	102	0	54
Sturgis Twp.	103	1	32	70	1	46
White Pigeon Twp.	90	3	19	68	3	29
Burr Oak	12	0	4	8	0	5
Mendon	8	0	2	6	0	4
Centreville	16	0	2	14	0	3
Colon	8	0	1	7	0	1
Constantine	36	0	8	28	0	11
White Pigeon	19	0	7	12	0	12
Sturgis	336	0	99	237	0	153
Three Rivers	264	1	54	209	1	85
Unknown City/Twp.	2	0	0	2	0	0
Tuscola County						
Akron Twp.	39	1	16	22	1	23
Almer Twp.	73	0	18	55	0	35
Arbela Twp.	72	1	20	51	1	25
Columbia Twp.	22	1	8	13	1	12
Dayton Twp.	61	0	15	46	0	22
Denmark Twp.	66	3	18	45	4	30
Elkland Twp.	60	1	11	48	2	19
Ellington Twp.	54	0	12	42	0	17
Elmwood Twp.	35	1	5	29	1	8
Fairgrove Twp.	27	0	2	25	0	3
Fremont Twp.	83	2	13	68	2	23
Gilford Twp.	17	0	5	12	0	7
Indian Fields Twp.	142	0	29	113	0	51
Juniata Twp.	70	2	11	57	2	17
Kingston Twp.	38	0	7	31	0	8
Koylton Twp.	62	1	12	49	1	13

SUMMARY FOR CITIES 1992 (continued)

	Total Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes	Persons Killed	Persons Injured
Millington Twp.	87	0	27	60	0	34
Novesta Twp.	63	0	17	46	0	28
Tuscola Twp.	68	0	22	46	0	28
Vassar Twp.	101	0	23	78	0	47
Watertown Twp.	34	1	11	22	1	18
Wells Twp.	81	0	12	69	0	16
Wisner Twp.	28	1	5	22	1	11
Akron	2	0	0	2	0	0
Fairgrove	3	0	0	3	0	0
Gagetown	4	0	2	2	0	2
Kingston	10	0	0	10	0	0
Mayville	11	0	6	5	0	9
Unionville	16	0	4	12	0	8
Cass City	63	0	11	52	0	12
Millington	30	0	7	23	0	9
Reese	22	0	5	17	0	7
Caro	188	0	39	149	0	55
Vassar	59	0	11	48	0	15
Unknown City/Twp.	3	0	0	3	0	0
Van Buren County						
Almena Twp.	128	0	30	98	0	39
Antwerp Twp.	163	1	44	118	1	70
Arlington Twp.	83	0	21	62	0	30
Bangor Twp.	62	0	20	42	0	35
Bloomingtondale Twp.	82	1	29	52	1	41
Columbia Twp.	59	0	20	39	0	23
Covert Twp.	126	1	28	97	1	38
Decatur Twp.	68	3	15	50	3	19
Geneva Twp.	99	3	26	70	3	41
Hamilton Twp.	65	1	17	47	2	22
Hartford Twp.	146	2	44	100	2	59
Keeler Twp.	79	1	19	59	1	29
Lawrence Twp.	105	0	19	86	0	28
Paw Paw Twp.	186	0	33	153	0	45
Pine Grove Twp.	73	0	19	54	0	27
Porter Twp.	66	0	11	55	0	12
South Haven Twp.	238	1	74	163	2	146
Waverly Twp.	104	0	27	77	0	46
Bloomingtondale	5	0	1	4	0	1
Breedsville	5	0	2	3	0	2
Gobles	17	0	3	14	0	4
Lawrence	12	0	2	10	0	2
Bangor	54	0	8	46	0	16
Decatur	38	0	7	31	0	17
Lawton	27	0	10	17	0	16
Mattawan	51	0	8	43	0	16
Hartford	43	0	10	33	0	12
Paw Paw	162	0	34	128	0	46
South Haven	189	1	30	158	1	40
Unknown City/Twp.	3	0	1	2	0	1
Washtenaw County						
Ann Arbor Twp.	390	3	90	297	3	120
Augusta Twp.	80	1	24	55	1	32
Bridgewater Twp.	83	0	24	59	0	29
Dexter Twp.	137	2	30	105	2	41
Freedom Twp.	38	1	3	34	1	5
Lima Twp.	124	1	23	100	1	31
Lodi Twp.	130	2	25	103	2	41
Lyndon Twp.	73	1	19	53	1	23
Manchester Twp.	70	0	18	52	0	23
Northfield Twp.	239	1	58	180	1	76
Pittsfield Twp.	990	0	237	753	0	326
Salem Twp.	126	1	33	92	1	54
Saline Twp.	63	1	19	43	1	30
Scio Twp.	435	1	77	357	1	117
Sharon Twp.	76	0	10	66	0	13
Superior Twp.	285	5	79	201	5	124
Sylvan Twp.	180	1	37	142	1	59
Webster Twp.	105	0	27	78	0	47
York Twp.	142	0	42	100	0	60
Ypsilanti Twp.	1320	5	349	966	5	525
Barton Hills	0	0	0	0	0	0
Dexter	39	0	8	31	0	9
Hudson Mills Park	0	0	0	0	0	0
Manchester	43	0	3	40	0	5
Chelsea	138	0	29	109	0	40
Milan	67	0	8	59	0	10
Saline	182	0	33	149	0	43
Eastern Mich Univ	27	0	0	27	0	0
Ypsilanti	980	3	191	786	3	272
Ann Arbor	3556	3	775	2778	3	1037
Unknown City/Twp.	45	0	9	36	0	9

SUMMARY FOR CITIES 1992 (continued)

	Total Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes	Persons Killed	Persons Injured
Wayne County						
Brownstown Twp.	650	4	194	452	4	310
Canton Twp.	1306	7	330	969	7	486
Grosse Ile Twp.	95	0	21	74	0	35
Grosse Pointe Twp.	0	0	0	0	0	0
Huron Twp.	279	1	72	206	1	102
Northville Twp.	341	0	85	256	0	134
Plymouth Twp.	828	2	181	645	2	259
Redford Twp.	1957	3	432	1522	3	597
Sumpter Twp.	140	1	51	88	1	78
Van Buren Twp.	745	3	208	534	3	295
Belleville	71	0	17	54	0	26
Gibraltar	60	0	14	46	0	19
Grosse Pointe Shores	32	1	8	23	2	10
Rockwood	52	1	14	37	1	16
Wood Haven	380	0	77	303	0	106
Flat Rock	194	0	52	142	0	77
Grosse Pointe	1	0	0	1	0	0
Lower Huron Park	2	0	1	1	0	2
Northville	91	0	20	71	0	28
Ecorse	383	0	90	293	0	119
Grosse Pointe Farms	240	0	40	200	0	50
Grosse Pointe Park	255	0	53	202	0	78
Grosse Pointe Woods	211	0	66	145	0	77
Harper Woods	515	0	133	382	0	185
Melvindale	293	0	79	214	0	115
Plymouth	264	0	63	201	0	96
River Rouge	206	0	36	170	0	48
Riverview	175	0	33	142	0	40
Romulus	1281	2	352	927	3	532
Trenton	467	1	137	329	1	201
Wayne	558	0	148	410	0	206
Allen Park	1021	5	245	771	5	341
Garden City	948	2	302	644	2	445
Hamtramck	765	3	144	618	3	188
Highland Park	889	4	276	609	4	440
Inkster	725	5	182	538	5	258
Southgate	1111	3	315	793	3	466
Wyandotte	815	2	145	668	2	205
Detroit Metro Airport	219	0	34	185	0	52
Dearborn Heights	1882	5	457	1420	5	698
Lincoln Park	1352	4	328	1020	4	468
Taylor	2686	10	691	1785	11	1298
Westland	1954	3	691	1260	3	1082
Dearborn	4486	5	1168	3313	5	1616
Livonia	3977	6	1042	2929	7	1471
Detroit	39923	127	10204	29592	137	15176
Unknown City/Twp.	20	0	2	18	0	2
Wexford County						
Antioch Twp.	58	1	12	45	1	17
Boon Twp.	16	0	4	12	0	6
Cedar Creek Twp.	51	2	14	35	2	22
Cherry Grove Twp.	48	0	13	35	0	17
Clam Lake Twp.	144	1	33	110	1	49
Colfax Twp.	36	0	8	28	0	14
Greenwood Twp.	23	0	3	20	0	4
Haring Twp.	156	1	49	106	1	78
Hanover Twp.	25	0	9	16	0	23
Henderson Twp.	27	1	9	17	1	9
Liberty Twp.	33	1	5	27	2	7
Selma Twp.	84	1	23	60	1	35
Slagle Twp.	18	0	3	15	0	3
South Branch Twp.	40	0	8	32	0	9
Springville Twp.	49	1	18	30	1	31
Wexford Twp.	34	0	10	24	0	16
Buckley	3	0	1	2	0	1
Harrietta	2	0	1	1	0	1
Mesick	14	0	4	10	0	7
Manton	31	0	2	29	0	2
Cadillac	519	1	95	423	1	135
Unknown City/Twp.	5	0	2	3	0	4
Unknown County						
Unknown City/Twp.	578	0	101	477	0	146

MOTOR VEHICLE TRAFFIC DEATHS IN MICHIGAN BY MONTH

Revised December 18, 2006

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1942	139	114	89	96	129	92	120	125	146	109	87	79	1,325
1943	59	51	79	44	75	89	82	67	110	118	96	122	922
1944	130	100	81	82	49	57	59	95	68	97	116	100	1,034
1945	71	60	85	78	74	71	94	88	118	160	131	120	1,150
1946	107	98	121	88	110	106	119	130	123	143	160	165	1,470
1947	86	86	85	113	124	114	134	149	134	142	145	135	1,447
1948	89	64	92	109	125	118	138	134	150	133	165	195	1,512
1949	101	82	160	91	110	99	116	138	169	144	149	136	1,441
1950	105	84	87	139	122	125	153	152	157	174	154	153	1,605
1951	131	103	103	117	119	137	170	163	158	146	160	133	1,640
1952	81	121	125	94	145	169	140	184	181	152	166	178	1,736
1953	139	116	136	132	134	173	176	183	187	187	167	175	1,905
1954	130	126	100	119	149	132	182	167	168	167	153	200	1,793
1955	134	117	116	160	157	192	169	209	160	204	208	190	2,016
1956	166	136	132	140	133	115	149	159	169	144	145	158	1,746
1957	121	98	118	118	130	122	127	152	123	143	135	161	1,548
1958	94	90	95	89	92	112	120	134	132	113	165	146	1,382
1959	76	69	91	126	126	124	148	128	155	125	144	161	1,473
1960	139	76	102	105	107	133	159	154	137	186	152	154	1,604
1961	105	99	113	138	133	114	141	166	128	139	148	143	1,567
1962	94	70	115	110	123	147	166	175	170	172	118	114	1,574
1963	107	95	124	142	148	173	188	177	163	179	196	195	1,887
1964	170	159	158	144	164	167	217	197	177	199	177	193	2,122
1965	153	113	135	143	156	181	211	220	193	214	172	245	2,136
1966	147	156	179	151	207	204	212	206	203	220	205	208	2,298
1967	130	105	141	162	187	140	210	189	223	230	216	204	2,137
1968	130	147	164	150	240	214	208	233	209	248	283	166	2,392
1969	137	158	173	169	239	236	218	254	230	236	219	218	2,487
1970	167	143	160	141	214	205	197	204	213	217	178	138	2,177
1971	137	124	155	144	187	212	222	227	155	209	202	178	2,152
1972	156	161	155	150	204	209	225	210	225	219	174	170	2,258
1973	187	156	173	140	180	230	225	201	204	209	171	137	2,213
1974	111	112	107	116	144	197	189	178	200	195	201	125	1,875
1975	120	97	112	93	149	169	195	203	190	162	161	160	1,811
1976	118	102	134	150	163	169	196	227	189	171	174	162	1,955
1977	126	87	122	143	184	179	223	194	164	189	181	158	1,950
1978	98	104	128	177	178	203	206	229	214	199	183	157	2,076
1979	102	103	129	152	146	155	190	171	174	187	171	169	1,849
1980	117	131	109	116	153	170	142	183	192	152	133	176	1,774
1981	99	100	108	116	116	155	159	171	149	155	113	148	1,589
1982	98	79	93	91	114	121	154	153	128	144	131	111	1,417
1983	113	94	83	91	91	127	121	117	131	153	115	95	1,331
1984	93	84	104	94	125	143	175	174	135	153	134	142	1,556
1985	108	91	77	133	137	167	146	136	131	135	161	147	1,569
1986	86	77	103	127	131	175	186	176	131	144	159	137	1,632
1987	91	104	99	106	138	165	151	176	149	164	161	128	1,632
1988	129	107	103	104	145	152	175	158	178	159	127	167	1,704
1989	138	102	94	96	123	156	156	177	155	146	123	164	1,630
1990	99	84	122	94	135	151	165	170	141	147	130	125	1,563
1991	103	79	115	106	129	145	130	141	125	129	104	119	1,425
1992	83	81	83	86	100	122	134	119	123	129	120	120	1,300

MOTOR VEHICLE TRAFFIC CRASH AND RELATED DATA

Year	Deaths	Injuries	Crashes	Est. Mileage (Millions)	Motor Vehicle Registrations*	Death Rate Per 100 mil. miles of travel
1948	1,512	40,892	140,172	19,069.2	2,030,685	7.9
1949	1,441	41,197	143,197	19,990.4	2,203,375	7.2
1950	1,605	45,734	161,750	21,494.5	2,439,593	7.5
1951	1,640	48,418	176,587	22,668.1	2,560,652	7.2
1952	1,736	49,119	160,829	23,093.1	2,586,834	7.5
1953	1,905	57,834	184,174	25,346.9	2,808,921	7.5
1954	1,793	56,444	185,534	26,041.2	2,889,740	6.9
1955	2,016	62,234	196,812	28,282.5	3,149,323	7.1
1956	1,746	61,158	197,995	28,429.3	3,173,704	6.1
1957	1,548	60,067	191,915	29,252.2	3,256,150	5.3
1958	1,382	57,767	177,934	29,411.3	3,157,441	4.7
1959	1,473	64,873	198,771	30,679.0	3,252,492	4.8
1960	1,604	91,026	209,724	31,842.4	3,352,234	5.0
1961	1,567	93,350	199,973	32,101.5	3,395,736	4.9
1962	1,574	108,143	233,078	34,498.0	3,498,758	4.6
1963	1,887	126,896	261,794	36,452.2	3,646,080	5.2
1964	2,122	144,623	284,444	38,617.6	3,860,791	5.5
1965	2,136	155,258	310,598	40,857.4	4,066,826	5.2
1966	2,298	156,694	302,880	43,940.1	4,133,199	5.2
1967	2,137	151,297	299,004	45,053.6	4,161,573	4.7
1968	2,392	160,413	305,495	48,047.4	4,327,885	5.0
1969	2,487	175,400	331,223	50,904.9	4,560,097	4.9
1970	2,177	161,719	313,715	53,148.1	4,683,919	4.1
1971	2,152	157,664	314,015	55,539.7	4,835,146	3.9
1972	2,258	178,929	359,745	57,817.1	5,160,985	3.9
1973	2,213	169,485	350,864	58,478.4	5,442,233	3.8
1974	1,875	141,132	324,763	55,748.7	5,652,406	3.4
1975	1,811	147,299	333,560	56,260.5	5,744,441	3.2
1976	1,955	162,894	365,600	61,638.0	5,861,908	3.2
1977	1,950	166,389	374,751	64,853.0	6,138,732	3.0
1978	2,076	169,202	389,193	67,380.0	6,436,365	3.1
1979	1,849	162,571	366,435	64,882.3	6,536,246	2.8
1980	1,774	144,972	314,594	61,190.1	6,570,735	2.9
1981	1,589	136,455	302,831	62,000.0	6,140,286	2.6
1982	1,417	130,061	294,971	61,321.0	6,400,942	2.3
1983	1,331	135,811	300,797	63,560.1	6,443,499	2.1
1984	1,556	150,740	335,193	65,727.0	6,509,192	2.4
1985	1,569	157,417	386,904	68,413.0	6,857,364	2.3
1986	1,632	158,032	400,694	70,622.0	6,952,263	2.3
1987	1,632	156,318	397,224	75,715.0	7,061,339	2.2
1988	1,704	155,713	410,437	77,700.0	7,196,609	2.2
1989	1,630	154,537	417,252	79,900.0	7,233,823	2.0
1990	1,563	145,179	387,180	81,200.0	7,300,853	1.9
1991	1,425	135,830	364,847	81,900.0	7,329,789	1.7
1992	1,300	118,727	344,942	84,000.0	7,411,192	1.5

*Excludes trailers and trailer coaches.

REGISTRATION TRANSACTIONS
(Includes Original, Renewal, Correction, and Replacements)
 Registration data courtesy of the Michigan Department of State [8]

COUNTY	VEHICLE										OTHER		
	Passenger	Commercial	Trailer	Motorcycle	Total Plates	Total Revenue	Watercraft	Snowmobile	Moped				
Alcona	6,565	2,999	1,913	142	11,619	\$ 505,881.63	2,152	587	50				
Alger	4,512	2,562	1,180	183	8,437	359,822.29	1,570	1,226	25				
Allegan	50,527	20,344	12,908	1,526	85,305	4,325,669.03	9,177	2,116	392				
Alpena	18,326	8,675	4,977	386	32,364	1,545,535.74	4,295	1,586	70				
Antrim	11,887	4,764	3,146	339	20,136	900,401.55	4,559	1,198	85				
Arenac	8,883	4,085	2,531	218	15,717	765,744.18	3,240	762	36				
Baraga	3,735	2,171	954	99	6,959	323,993.89	873	523	12				
Barry	27,949	11,603	7,020	977	47,549	2,055,439.08	7,673	1,314	205				
Bay	68,592	20,883	15,369	1,607	106,451	5,225,969.16	9,850	3,816	500				
Benzie	7,948	3,345	2,134	245	13,672	571,148.26	3,177	853	67				
Berrien	98,779	30,125	15,508	2,503	146,915	6,949,187.12	12,516	2,228	814				
Branch	22,369	9,951	5,684	698	38,702	1,888,527.80	5,828	687	180				
Calhoun	81,881	23,815	13,278	2,094	121,068	5,642,124.89	10,121	1,339	712				
Cass	25,717	10,721	5,720	782	42,940	1,908,930.15	7,824	1,450	190				
Charlevoix	14,161	5,786	3,546	460	23,953	1,119,353.65	3,948	1,726	102				
Cheboygan	13,209	6,206	3,671	365	23,451	1,061,946.15	4,581	2,255	96				
Chippewa	15,953	8,026	4,477	453	28,909	1,346,864.20	4,405	3,386	147				
Clare	15,056	6,977	4,152	348	26,533	1,163,222.76	3,822	1,174	66				
Clinton	33,440	12,754	7,982	925	55,101	2,610,927.20	5,424	1,794	350				
Crawford	6,630	2,967	1,931	170	11,698	516,069.52	2,389	941	30				
Delta	22,053	10,453	6,396	626	39,528	1,823,861.31	4,244	2,286	191				
Dickinson	15,382	7,465	4,673	579	28,099	1,371,556.56	3,252	1,602	215				
Eaton	54,509	17,538	10,971	1,414	84,432	4,344,966.66	7,678	1,665	357				
Emmet	17,326	6,750	3,891	474	28,441	1,399,160.21	4,311	1,894	186				
Genesee	262,830	68,424	38,753	5,484	375,491	18,288,082.31	29,706	8,269	1,129				
Gladwin	13,438	6,042	3,811	379	23,670	1,038,037.89	4,008	1,054	80				
Gogebic	9,100	4,426	2,094	242	15,862	702,335.68	2,431	1,108	49				
Grand Traverse	45,038	14,625	10,634	1,018	71,315	3,460,875.26	11,068	2,982	229				
Gratiot	21,970	9,144	5,714	637	37,465	1,823,129.87	3,081	1,088	174				

REGISTRATION TRANSACTIONS (continued)

COUNTY	VEHICLE										OTHER		
	Passenger	Commercial	Trailer	Motorcycle	Total Plates	Total Revenue	Watercraft	Snowmobile	Moped				
Hillsdale	23,679	10,638	5,552	736	40,605	\$ 1,915,897.67	4,160	715	202				
Houghton	17,072	6,497	2,886	457	26,912	1,245,267.00	2,897	2,079	94				
Huron	21,977	10,056	5,443	521	37,997	1,916,855.57	2,980	1,901	216				
Ingham	172,783	38,354	21,998	3,683	236,818	12,116,937.27	15,589	2,788	1,295				
Ionia	29,014	11,810	6,561	805	48,190	2,182,342.47	4,496	1,002	314				
Iosco	17,886	7,151	4,843	465	30,345	1,368,264.30	4,996	1,194	102				
Iron	7,037	3,898	2,061	208	13,204	599,280.40	2,386	872	49				
Isabella	25,405	10,004	5,714	652	41,775	2,176,510.83	3,711	1,044	171				
Jackson	87,399	28,169	15,655	2,479	133,702	6,426,413.64	14,260	2,464	594				
Kalamazoo	138,868	33,187	19,857	3,284	195,196	9,594,706.33	17,535	2,380	928				
Kalkaska	7,669	4,726	2,940	249	15,584	1,092,449.78	2,209	1,062	19				
Kent	322,695	82,629	54,714	6,896	466,934	26,667,345.73	38,978	7,314	2,227				
Keweenaw	893	367	187	22	1,469	64,034.14	311	117	7				
Lake	4,764	2,383	1,283	137	8,567	347,278.15	1,918	538	20				
Lapeer	45,202	18,984	9,564	1,388	75,138	3,503,986.86	5,661	2,279	170				
Leelanau	10,608	4,029	2,932	244	17,813	806,864.29	4,309	1,033	94				
Lenawee	53,283	19,731	10,425	1,659	85,098	3,998,030.80	7,775	2,509	560				
Livingston	79,843	25,956	15,152	2,223	123,174	6,599,052.34	13,098	3,467	342				
Luce	3,033	1,844	1,193	60	6,130	315,272.80	1,252	814	16				
Mackinac	5,698	3,051	1,708	128	10,585	479,837.03	2,800	1,846	42				
Macomb	498,337	91,792	50,133	8,347	648,609	33,776,467.50	43,079	11,225	2,405				
Manistee	13,413	5,730	3,444	347	22,934	1,064,427.50	3,186	899	125				
Marquette	37,237	15,688	7,663	1,292	61,880	2,798,966.80	6,784	3,861	206				
Mason	15,231	6,327	3,866	416	25,840	1,210,078.75	3,603	772	143				
Mecosta	17,835	7,518	4,331	416	30,100	1,364,813.64	4,135	935	96				
Menominee	13,064	5,952	3,824	395	23,235	1,089,668.48	2,383	1,447	297				
Midland	51,477	14,273	10,585	1,341	77,676	3,546,573.50	8,296	1,533	301				
Missaukee	6,334	3,730	2,106	166	12,336	582,317.18	1,847	874	42				
Monroe	81,374	27,608	14,728	2,442	126,152	6,083,750.85	9,169	3,159	642				

REGISTRATION TRANSACTIONS (continued)

COUNTY	VEHICLE										OTHER		
	Passenger	Commercial	Trailer	Motorcycle	Total Plates	Total Revenue	Watercraft	Snowmobile	Moped				
Montcalm	29,263	12,921	7,522	759	50,465	\$ 2,275,940.97	5,864	1,219	347				
Montmorency	5,277	2,815	1,700	127	9,919	440,210.99	1,936	1,088	22				
Muskegon	95,688	27,337	17,694	2,869	143,588	6,428,246.55	13,116	2,428	825				
Newaygo	21,845	10,059	6,039	655	38,598	1,658,494.80	5,541	1,246	203				
Oakland	751,527	134,279	73,753	12,779	972,338	55,336,454.18	70,629	16,613	2,941				
Oceana	12,661	6,256	2,969	349	22,235	1,024,489.15	2,493	814	137				
Ogemaw	11,113	5,681	3,443	248	20,485	982,593.04	2,980	1,154	68				
Onotonagon	4,667	2,589	1,387	123	8,766	392,555.53	1,165	1,023	13				
Osceola	11,284	5,762	2,968	258	20,272	976,671.23	2,215	851	61				
Oscoda	4,696	2,527	1,420	125	8,768	390,800.21	1,639	658	23				
Otsego	11,280	5,495	3,009	318	20,102	1,100,482.31	2,595	1,649	46				
Ottawa	117,607	33,024	26,652	2,835	180,118	9,149,878.17	18,695	3,964	1,308				
Presque Isle	8,028	4,364	2,388	145	14,925	692,029.01	2,480	1,205	47				
Roscommon	13,923	5,535	3,933	276	23,667	1,075,602.58	5,757	2,790	148				
Saginaw	130,026	33,749	23,156	2,267	189,198	9,674,181.83	15,778	5,296	568				
St. Clair	93,396	29,868	14,915	2,360	140,539	6,790,726.47	12,489	2,986	554				
St. Joseph	33,319	13,208	7,395	1,210	55,132	2,478,107.83	7,631	762	354				
Sanilac	23,850	10,773	5,050	643	40,316	1,979,060.87	1,982	1,007	72				
Schoolcraft	4,397	2,572	1,575	137	8,681	403,927.88	1,798	982	31				
Shiawassee	41,283	16,177	8,984	1,213	67,657	3,213,080.08	5,335	2,029	288				
Tuscola	32,184	14,210	8,234	909	55,537	2,506,337.40	4,285	2,297	194				
Van Buren	38,502	15,279	7,495	1,062	62,338	2,774,914.30	7,307	1,337	382				
Washtenaw	170,898	36,430	16,540	3,869	227,737	11,104,818.60	14,063	3,057	728				
Wayne	1,216,339	196,862	93,169	17,296	1,523,666	82,715,334.86	69,027	12,766	4,443				
Wexford	16,128	6,520	4,125	458	27,231	1,298,041.41	4,033	1,491	94				
Non-Resident	55,564	16,744	17,182	214	89,704	23,830,594.47	32,950	3,376	130				
Unknown County							944	85	8				
TOTALS	5,761,620	1,496,744	859,063	120,335	8,237,762		725,733	189,205	32,493				

REFERENCES AND REPORTING AGENCIES

- [1] Michigan Information Center, Michigan Department of Management and Budget, P.O. Box 30026, Lansing, MI 48909.
- [2] ACCIDENT FACTS 1993 Edition. National Safety Council, 1121 Spring Lake Drive, Itasca, IL 60143, 1993.
- [3] Michigan Department of Transportation, Bureau of Transportation Planning, Lansing, MI 48909.
- [4] Michigan Department of Transportation, Bureau of Urban and Public Transportation, Freight Services and Safety Division, Lansing, MI 48909.
- [5] 1992 Fatal Accident Reporting System Version 246 data file. U.S. Department of Transportation, National Highway Traffic Safety Administration, National Center for Statistics and Analysis, Washington, D.C. 20590.
- [6] Michigan Department of State, Bureau of Driver Improvement, Program Development Section, Lansing, MI 48918.
- [7] Sleet, David A.; Wagenaar, Alexander C.; and Waller, Patricia F. "Introduction: Drinking, Driving, and Health Promotion." Health Education Quarterly, Volume 16, Number 3, Pages 329-333, Fall 1989.
- [8] Michigan Department of State, Bureau of Research and Management Systems, Finance Division, Lansing, MI 48918.

SUPPORT DOCUMENTATION FOR THE STATE OF MICHIGAN TRAFFIC CRASH REPORT

- 1) State of Michigan Traffic Crash System Office of Highway Safety Planning 1992 Crash Data Tape Layout.
- 2) State of Michigan UD-10 Traffic Crash Report Instruction Manual.

