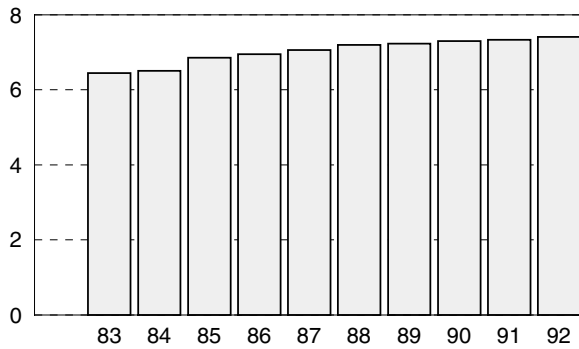


10 YEAR

VEHICLE REGISTRATIONS

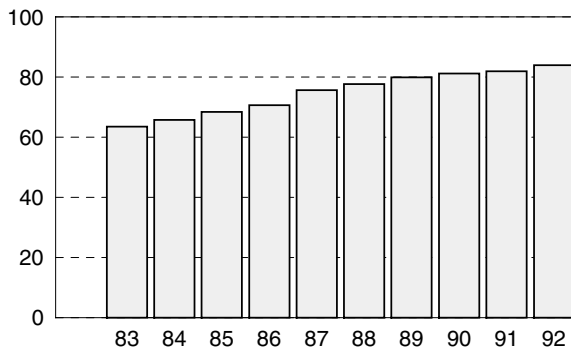
MILLIONS OF MOTOR VEHICLES



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

VEHICLES MILES TRAVELED

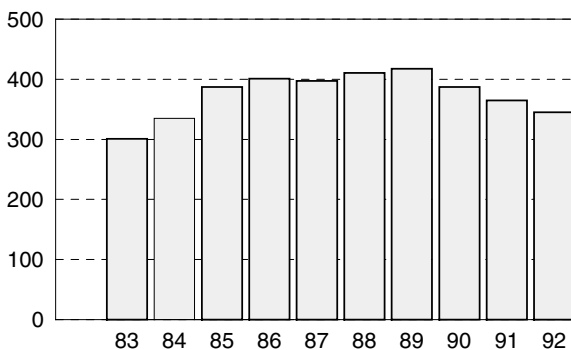
BILLIONS OF MILES



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

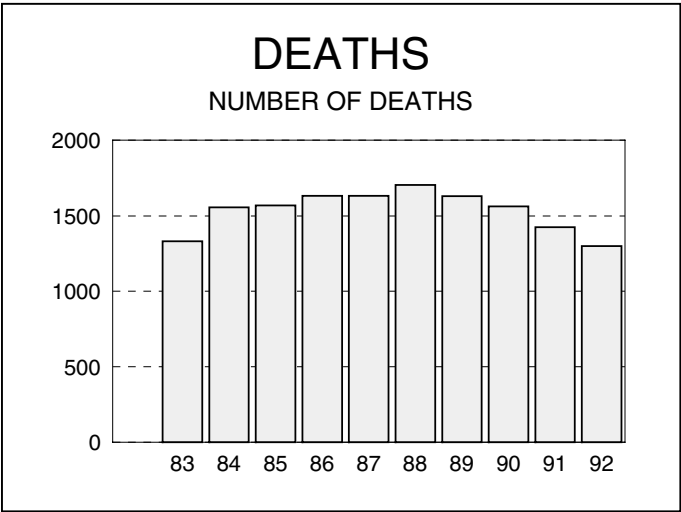
CRASHES

THOUSANDS OF CRASHES

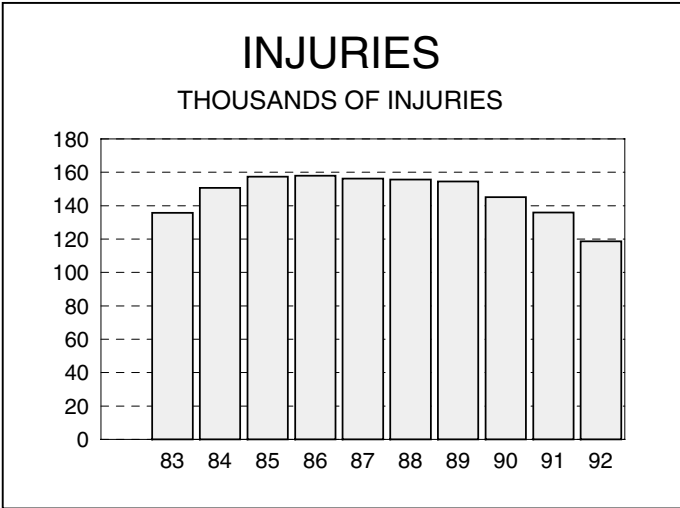


Total crashes increased from 1983, peaking in 1989. Since 1989, total number of crashes has decreased. Between 1991 and 1992, total crashes decreased 5.5% statewide.

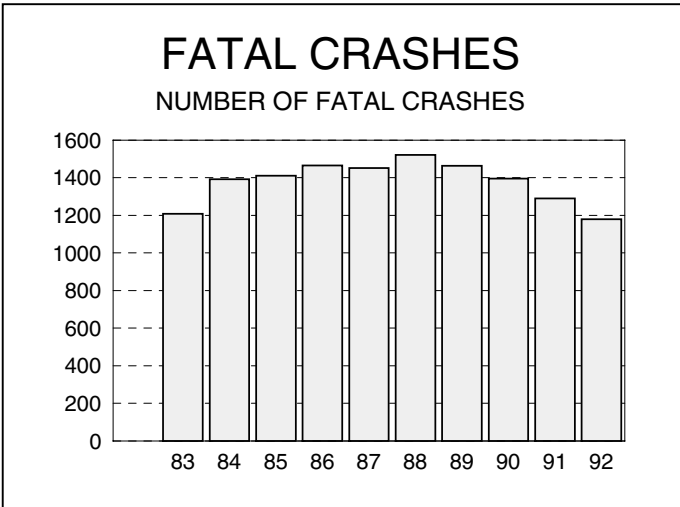
10 YEAR TRENDS (continued)



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

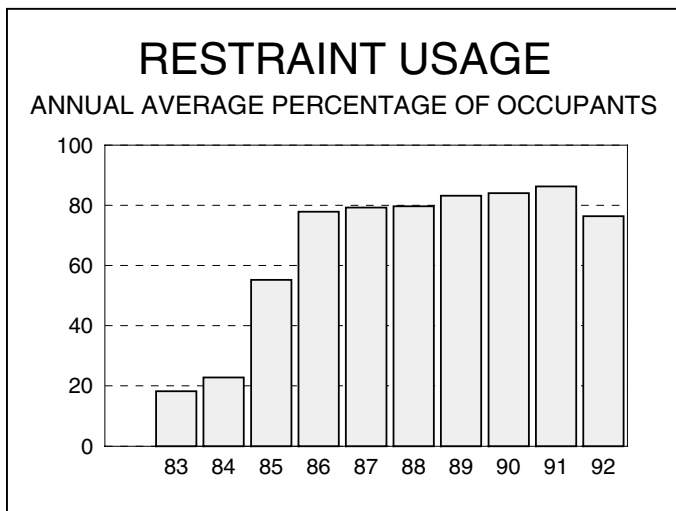


Mirroring the trend in deaths, nonfatal injuries have declined 23.8% since 1988. In 1992, 118,727 people received nonfatal injuries in Michigan motor vehicle crashes.

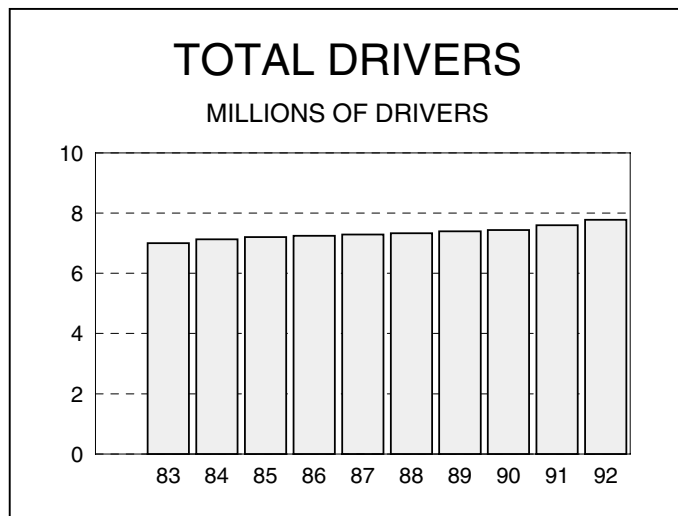


After reaching a peak in 1988, fatal crashes declined 29.1%. In 1992, there were 1,179 fatal crashes.

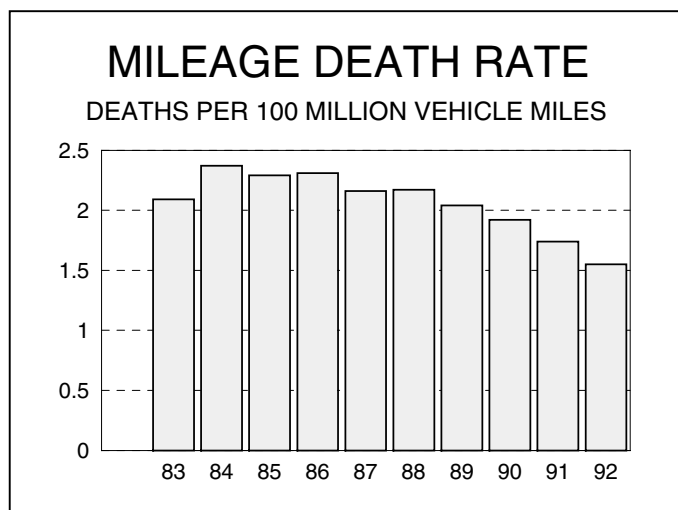
10 YEAR



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.

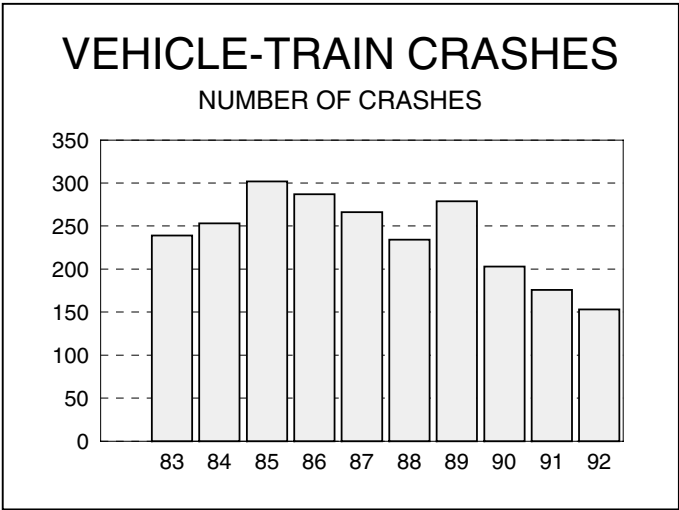


The number of drivers in Michigan has increased steadily since 1983, reaching 7.78 million drivers in 1992.

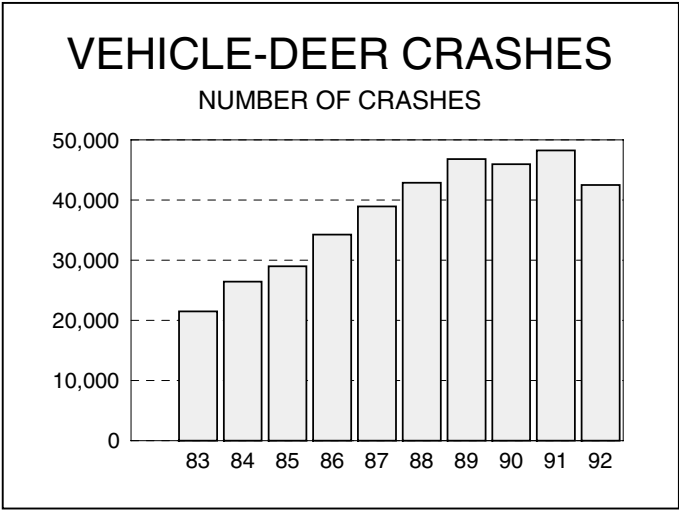


After a 10 year high of 2.37 deaths per 100 million vehicle miles in 1984, the death rate per mile driven has declined dramatically, reaching a low of 1.5 in 1992, a 34.6% decrease from the 1984 peak.

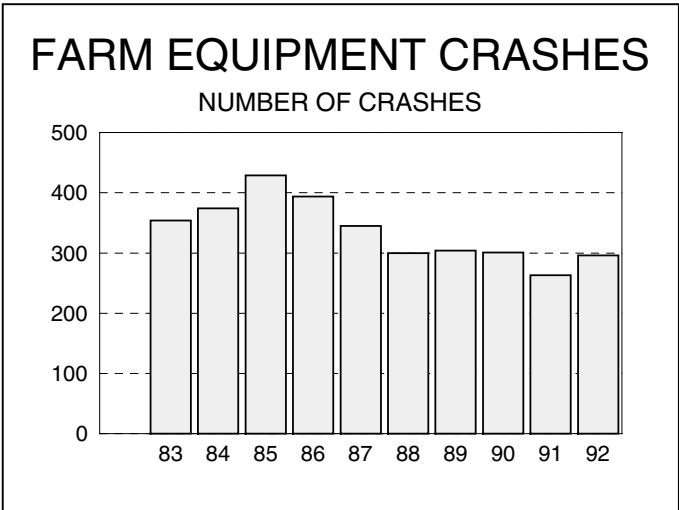
10 YEAR TRENDS (continued)



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

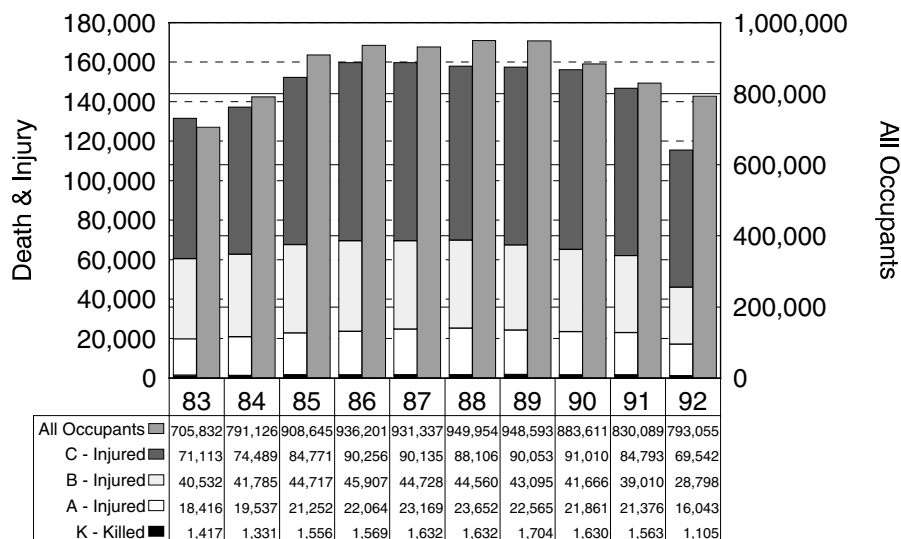


There has been a 97.6% rise from 21,509 vehicle-deer crashes in 1983 to 42,494 in 1992.



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.

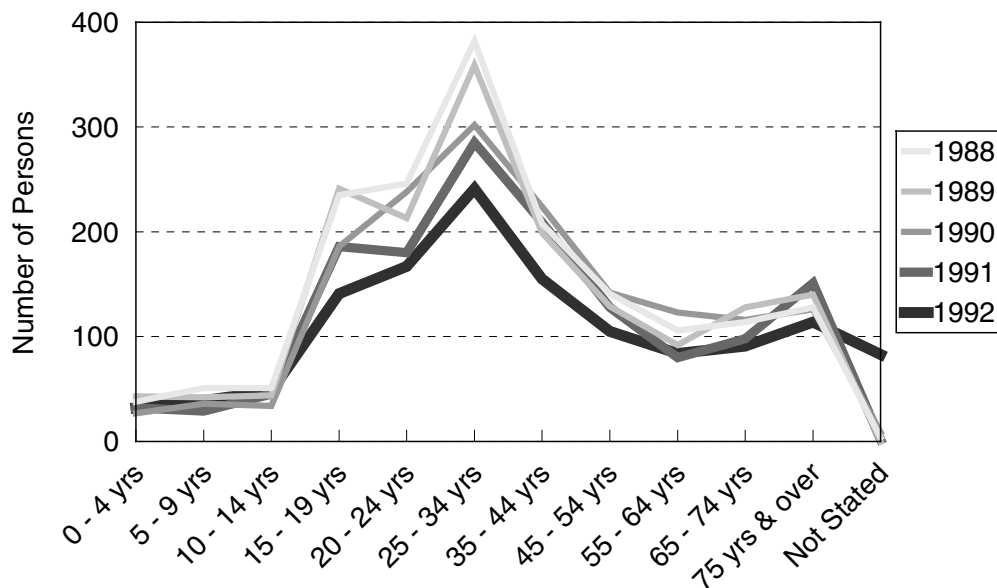
5

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	

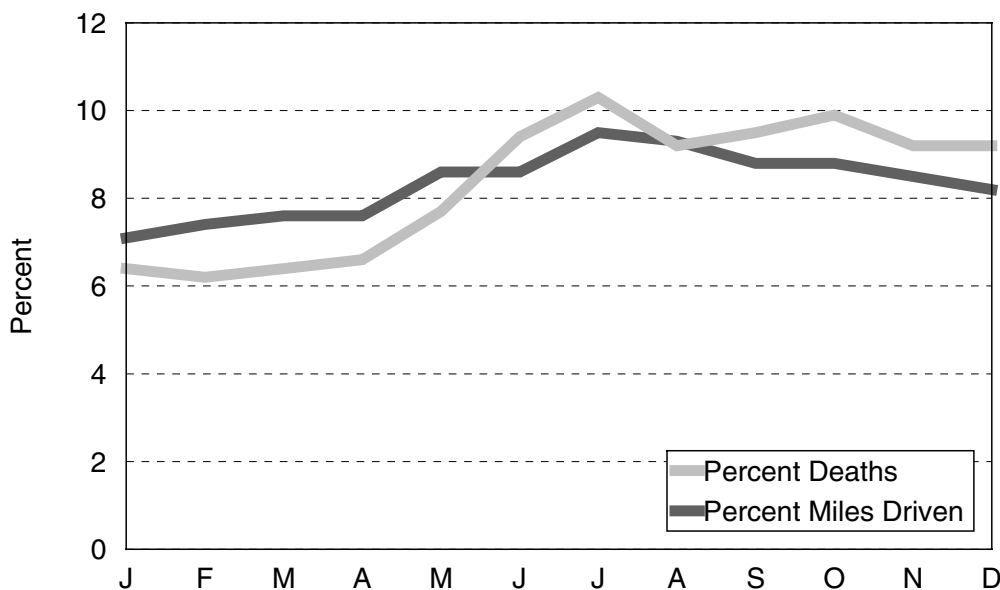
Figures in parentheses show number of full days in each holiday period. Deaths are for these days plus the six hours of the preceding day.

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.

