

Chapter Two: Auto Crash Statistics

Age and Its Impact: Teen Drivers

Teen Driving Statistics

Age and Its Impact: Elderly Drivers

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Age and Its Impact: Teen Drivers

In every motorized country, teen-age drivers represent a major hazard. The problem is worse in the United States than elsewhere. Teen-agers drive less than all but the elderly, but their numbers of crashes and crash deaths are disproportionately high. Risk is highest at age 16. In fact, the crash rate per mile driven is twice as high among 16-year-olds as it is among 18- to 19-year-olds.

Crash rates are high largely because of young drivers' immaturity combined with driving inexperience. The immaturity is apparent in young drivers' risky driving practices like speeding and tailgating. At the same time, teen-agers' lack of experience behind the wheel makes it difficult for them to recognize and respond to hazards.

Crashes involving young drivers typically are single-vehicle crashes, primarily run-off-the-road crashes, that involve driver error and/or speeding. They often occur when other young people are in the vehicle with the young driver, so teen-agers are disproportionately involved in crashes as passengers as well as drivers.

Teenage Fatalities

- 89 teenage drivers died on Indiana roadways in 2006. There were also about 7,100 teenage drivers injured as a result of accidents. Those numbers make up about 15 percent of the number of fatalities and injuries on the road.
- Nationally, 5,288 teenagers died in car accidents in 2005.
- Teenagers accounted for 10 percent of the U.S. population in 2005, but 12 percent of motor vehicle deaths.
- Eighty-four percent of teen motor vehicle deaths in

2005 were passenger vehicle occupants. The rest were pedestrians (6 percent), motorcyclists (4 percent), bicyclists (2 percent), and people in other types of vehicles (2 percent).

- In 2003, the latest year for which data is available, 37 percent of deaths among 13- to 19-year-olds occurred in motor vehicle crashes. This was the leading cause of death for individuals in this age group.

Drivers and Passengers National Statistics

- Passenger vehicle death rates per 100,000 people in 2005 peaked at ages 18-19 for both drivers and passengers.
- Slightly more than half of teenage passenger vehicle occupant deaths in 2005 were drivers (54 percent), and a little less than half were passengers (45 percent).
- Sixty-one percent of teenage passenger deaths in 2005 occurred in crashes in which another teenager was driving. Among people of all ages, 19 percent of passenger deaths in 2005 occurred when a teenager was driving.

Gender Differences National Statistics

- About 2 out of every 3 teenagers killed in motor vehicle crashes in 2005 were males.
- Since 1975, teenage motor vehicle deaths have decreased more among males (47 percent) than among females (19 percent).
- Death rates were higher in 2005 among male drivers age 18-19 than among females - 25 per 100,000 people compared with 11 per 100,000.

Teen Driving Statistics

13- to 19-Year-Old Motor Vehicle Deaths

<u>Year</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
1976	6,826	2,530	9,356
1977	6,983	2,650	9,633
1978	7,295	2,645	9,940
1979	7,280	2,639	9,920
1980	6,932	2,591	9,524
1981	6,014	2,301	8,315
1982	5,354	1,969	7,323
1983	4,850	1,955	6,805
1984	4,947	2,005	6,952
1985	4,715	2,022	6,737
1986	5,280	2,182	7,466
1987	5,107	2,186	7,293
1988	5,036	2,204	7,242
1989	4,528	2,158	6,688
1990	4,420	1,944	6,364
1991	3,891	1,867	5,760
1992	3,495	1,713	5,215
1993	3,678	1,742	5,421
1994	3,770	1,859	5,632
1995	3,702	1,970	5,675
1996	3,855	1,963	5,819
1997	3,715	2,014	5,730
1998	3,649	1,960	5,610
1999	3,745	2,007	5,752
2000	3,759	1,925	5,685
2001	3,735	1,859	5,594
2002	3,939	2,015	5,954
2003	3,772	1,946	5,718
2004	3,696	1,948	5,645
2005	3,491	1,796	5,288

Source: Insurance Institute for Highway Safety

Teenage Motor Vehicle Deaths by Type and Age (2005)

<u>Age</u>	<u>Passenger Vehicles</u>	<u>Motorcyclists</u>	<u>Pedestrians</u>	<u>Bicyclists</u>	<u>ATVs</u>	<u>Other</u>	<u>Total</u>
13	107	8	29	14	8	9	175
14	155	8	34	31	6	18	252
15	289	14	49	18	20	12	402
16	722	14	49	6	21	12	824
17	909	36	50	14	8	14	1,031
18	1,154	53	52	10	8	18	1,295
19	1,104	104	63	7	15	16	1,309
Total	4,440	237	326	100	86	99	5,288

Teen Driving Statistics

Passenger Vehicle Deaths by Age and Seating Position 2005

Age	Drivers	Passengers
13	3	102
14	16	138
15	57	231
16	356	365
17	519	386
18	736	415
19	724	380
Total	2411	2,017

According to the Insurance Institute of Highway Safety, half of teenage fatal crashes in 2005 occurred between 3 p.m. and midnight.

In 2006, 14.7 percent of all drivers involved in fatal crashes in Indiana were young drivers age 16-20.

Only 36 percent of young drivers killed in Indiana in 2006 were wearing their seatbelts.

Young drivers involved fatal collisions 1997-2006

Region	1997	1998	1999	2000	2001	2002	2003	2004	2005	% Change 1997-2005	2006
Young drivers involved in fatal collisions											
Indiana	80.5	67.5	75.1	62.8	64.0	51.0	59.9	68.4	54.3	-32.5	57.6
Great Lakes*	53.6	56.2	59.7	56.7	53.9	54.9	53.2	50.1	45.5	-15.2	n/a
United States	62.5	62.2	64.6	63.3	64.6	66.2	63.4	63.1	59.3	-5.2	n/a
Young drivers fatally injured											
Indiana	39.5	34.2	35.9	28.2	31.4	27.3	27.4	32.9	26.8	-32.1	28.7
Great Lakes*	24.3	24.6	26.2	24.3	24.7	25.8	24.3	22.8	21.3	-12.4	n/a
United States	26.4	26.7	28.1	27.9	28.7	30.6	29.4	28.9	27.5	4.2	n/a

*Defined as Indiana, Illinois, Michigan, Minnesota, Ohio and Wisconsin

Most Common Citations Issued to Young Drivers, 2006

Citation description	All drivers	Number		Citation rates (per 100,000 issued to licensed drivers)		
		Young drivers (< 21)	Older drivers (21+)	All drivers	Young drivers (< 21)	Older drivers (21+)
Age (i.e., Minor) violation	264	259	4	5	83	< 1
Speed limit violation	1,615	515	1,097	30	166	22
Vehicle operation violations	6,509	1,615	4,875	122	520	97
Learner permit violation	347	240	105	7	77	2
Driving without a license	2,384	791	1,529	45	255	31
Driving with suspended/revoked license	4,512	499	4,002	85	161	80
No financial responsibility (insurance)	4,196	839	3,338	79	270	67
Accident responsibility violation	3,826	837	2,945	72	269	59
Operating while intoxicated (OWI)	7,772	843	6,896	146	271	138
Other violations	8,628	1,685	6,868	162	542	137



Age and Its Impact: Elderly Drivers

There's cause for concern about elderly drivers because they have higher rates of fatal crashes than all but the youngest drivers per mile driven. Studies show that elderly drivers don't deal as well as younger ones with complex traffic situations, and multiple-vehicle crashes at intersections increase markedly with age. Elderly drivers are more likely to get traffic citations for failing to yield, turning improperly and running stop signs and red lights.

Additionally, elderly people are more susceptible than younger people to medical complications following motor vehicle crash injuries. This means they're more likely to die from their injuries.

CRASH TYPES

- About half of fatal crashes involving drivers 80 years and older occur at intersections and involve more than one vehicle. This compares with 22 percent among drivers up to age 50.
- People 80 years and older have the highest pedestrian death rates per 100,000
- The rate of pedestrian deaths per 100,000 people in 2005 was higher for people 70 and older than for those younger than 70. Pedestrians 80 and older had a fatality rate twice as high as all pedestrians younger than 80 combined. For all age groups the rate of pedestrian deaths per capita was higher for males than females.

ELDERLY FATALITIES IN MOTOR VEHICLES

- 5,032 people 70-years-old and older died in motor vehicle crashes in 2005. This is 14 percent fewer than in 1997 but a 33 percent

increase since 1977.

- Eighty-percent of motor vehicle crash deaths in 2005 involving people 70 and older were passenger vehicle occupants, and 15 percent were pedestrians.
- People age 80 and older had more motor vehicle deaths per 100,000 people than other groups except people younger than 25.
- Per mile driven, drivers 80 years and older have higher rates of fatal motor vehicle crashes than drivers in other age groups except teenagers.
- Per licensed drivers, fatal crash rates rise sharply at age 75 and older.
- Since 1975, deaths of elderly passenger vehicle occupants have increased 74 percent while deaths of older pedestrians have declined 43 percent. Although far fewer older adults are killed while riding motorcycles, this number is increasing. Thirteen times as many people 70 and older were killed on motorcycles in 2005 than in 1975.

Gender differences

- The motor vehicle death rate per 100,000 people begins to rise among males at age 70. By age 85 and older, the rate among men is nearly twice as high as it is at age 40-74.

Elderly Driving Statistics

Passenger vehicle fatal crash involvements per 100 million miles traveled by driver age, April 2001–March 2002

<u>Age</u>	<u>Passenger vehicle fatal crash involvements</u>	<u>Rate</u>	<u>Age</u>	<u>Passenger vehicle fatal crash involvements</u>	<u>Rate</u>
16	1,021	9.3	45-49	3,530	1.6
17	1,410	8.3	50-54	2,878	1.3
18	1,790	6.5	55-59	2,238	1.6
19	1,885	7.2	60-64	1,678	1.5
20-24	7,184	4.3	65-69	1,416	1.7
25-29	4,873	2.3	70-74	1,453	2.5
30-34	4,438	1.7	75-79	1,477	4.2
35-39	4,492	1.7	80-84	1,046	6.3
40-44	4,255	1.5	>85	740	14.5

Motor Vehicle Crash Deaths per 100,000 People by Age and Gender 2005

<u>Age</u>	<u>Male</u>			<u>Female</u>			<u>Total</u>		
	<u>Population</u>	<u>Deaths</u>	<u>Rate</u>	<u>Population</u>	<u>Deaths</u>	<u>Rate</u>	<u>Population</u>	<u>Deaths</u>	<u>Rate</u>
<16	33,305,469	1,334	4.0	31,781,247	1,012	3.2	65,086,716	2,348	3.6
16-19	8,541,332	2,992	35.0	8,111,201	1,467	18.1	16,652,533	4,459	26.8
20-24	10,856,936	4,498	41.4	10,180,924	1,364	13.4	21,037,860	5,862	27.9
25-29	10,268,169	2,964	28.9	9,797,533	888	9.1	20,065,702	3,852	19.2
30-34	10,153,091	2,402	23.7	9,924,119	830	8.4	20,077,210	3,232	16.1
35-39	10,563,375	2,274	21.5	10,438,579	853	8.2	21,001,954	3,127	14.9
40-44	11,376,664	2,473	21.7	11,483,846	970	8.4	22,860,510	3,443	15.1
45-49	11,106,575	2,361	21.3	11,377,948	934	8.2	22,484,523	3,295	14.7
50-54	9,788,780	2,101	21.5	10,208,962	771	7.6	19,997,742	2,872	14.4
55-59	8,425,070	1,643	19.5	8,928,608	728	8.2	17,353,678	2,371	13.7
60-64	6,201,648	1,211	19.5	6,800,215	602	8.9	13,001,863	1,813	13.9
65-69	4,721,791	944	20.0	5,409,653	536	9.9	10,131,444	1,480	14.6
70-74	3,807,605	827	21.7	4,700,764	509	10.8	8,508,369	1,336	15.7
75-79	3,117,774	818	26.2	4,294,039	591	13.8	7,411,813	1,410	19.0
80-84	2,161,671	684	31.6	3,480,878	535	15.4	5,642,549	1,219	21.6
> 85	1,603,796	599	37.3	3,492,142	468	13.4	5,095,938	1,067	20.9

Source: Insurance Institute for Highway Safety

Automobile Crash Statistics

Motor vehicle deaths by type and state, 2005

State	Passenger car occupants		Pickup and SUV occupants		Large truck occupants		Motorcyclists		Pedestrians		Total motor vehicle deaths
	#	%	#	%	#	%	#	%	#	%	#
Alabama	579	51	354	31	16	1	61	5	72	6	1,131
Alaska	34	47	19	26	1	1	4	6	7	10	72
Arizona	359	31	278	24	13	1	122	10	157	13	1,177
Arkansas	273	42	220	34	25	4	63	10	37	6	648
California	1,954	45	855	20	36	1	462	11	742	17	4,329
Colorado	262	43	175	29	15	2	87	14	48	8	606
Connecticut	138	50	41	15	5	2	42	15	34	12	274
Delaware	76	57	19	14	2	1	19	14	11	8	134
D.C.	17	35	4	8	0	0	6	12	16	33	48
Florida	1,416	40	760	21	46	1	448	13	576	16	3,543
Georgia	765	44	554	32	29	2	143	8	150	9	1,729
Hawaii	47	34	22	16	0	0	24	17	35	25	140
Idaho	117	43	105	38	9	3	25	9	9	3	275
Illinois	695	51	255	19	29	2	157	12	164	12	1,361
Indiana	441	47	236	25	29	3	102	11	63	7	938
Iowa	241	54	107	24	6	1	44	10	24	5	450
Kansas	190	44	141	33	11	3	35	8	24	6	428
Kentucky	496	50	269	27	18	2	87	9	54	5	985
Louisiana	371	39	325	34	20	2	75	8	109	11	955
Maine	91	54	44	26	1	1	15	9	9	5	169
Maryland	288	47	99	16	9	1	84	14	102	17	614
Massachusetts	202	46	81	18	1	0	55	12	76	17	442
Michigan	557	49	227	20	5	0	122	11	137	12	1,129
Minnesota	282	50	131	23	12	2	55	10	44	8	559
Mississippi	464	50	294	32	18	2	39	4	72	8	931
Missouri	631	50	372	30	21	2	88	7	88	7	1,257
Montana	84	33	112	45	3	1	27	11	13	5	251
Nebraska	140	51	93	34	5	2	17	6	8	3	276
Nevada	173	41	98	23	13	3	52	12	63	15	427
New Hampshire	65	39	40	24	2	1	42	25	5	3	166
New Jersey	372	50	97	13	21	3	61	8	154	21	748
New Mexico	172	35	183	38	13	3	37	8	61	12	488
New York	634	44	179	13	24	2	161	11	321	22	1,429
North Carolina	737	48	390	25	26	2	135	9	164	11	1,534
North Dakota	48	39	45	37	2	2	6	5	9	7	123
Ohio	742	56	239	18	18	1	177	13	95	7	1,323
Oklahoma	350	44	266	33	25	3	75	9	50	6	802
Oregon	210	43	139	28	6	1	48	10	48	10	488
Pennsylvania	853	53	297	18	29	2	197	12	159	10	1,616
Rhode Island	45	52	10	11	0	0	14	16	14	16	87
South Carolina	544	50	279	26	21	2	97	9	98	9	1,093
South Dakota	83	45	52	28	5	3	22	12	14	8	186
Tennessee	616	49	369	29	21	2	128	10	70	6	1,270
Texas	1,375	39	1,090	31	73	2	354	10	419	12	3,504
Utah	119	42	91	32	10	4	23	8	20	7	282
Vermont	43	59	11	15	0	0	14	19	3	4	73
Virginia	456	48	253	27	25	3	69	7	88	9	947
Washington	312	48	142	22	11	2	73	11	71	11	647
West Virginia	170	45	106	28	9	2	33	9	23	6	374
Wisconsin	430	53	192	24	13	2	93	11	44	5	815
Wyoming	52	31	74	44	7	4	20	12	7	4	170
US total	19,811	46	10,834	25	759	2	4,439	10	4,881	11	43,443

