

VEHICLE TYPE AND CRASH INVOLVEMENT

VEHICLE TYPE	MOTOR VEHICLES		FATAL CRASH		INJURY CRASH	PROPERTY DAMAGE ONLY	FATALITY IN VEHICLE		INJURY	NO INJURY
	Number of Vehicles	% of Total	Number	% of Total			Number	% of Total		
Passenger Car and Station Wagon	400,729	78.6	921	62.3	78,547	321,261	442	62.2	48,747	351,540
Van and Motorhome	18,796	3.7	44	3.0	3,923	14,829	16	2.3	2,202	16,578
Pickup	56,743	11.1	208	14.1	9,908	46,627	80	11.3	4,858	51,805
Small Truck (under 10,000 lbs.)	6,254	1.2	14	0.9	1,198	5,042	5	0.7	633	5,616
Motorcycle	3,096	0.6	140	9.5	2,210	746	134	18.8	2,165	797
Moped	445	0.1	3	0.2	344	98	3	0.4	334	108
Go Cart	29	0.0	0	0.0	18	11	0	0.0	17	12
Snowmobile	133	0.0	2	0.1	85	46	2	0.3	77	54
Off-Road Vehicle/ATV	292	0.1	12	0.8	231	49	12	1.7	222	58
Other	2,040	0.4	10	0.7	324	1,706	6	0.8	151	1,883
Unknown	9,031	1.8	13	0.9	838	8,180	0	0.0	15	9,016
CDL Truck/Bus (break-down below)	12,486	2.4	112	7.6	2,191	10,183	11	1.5	567	11,908
Total Number of Vehicles	510,074	100.0	1,479	100.0	99,817	408,778	711	100.0	59,988	449,375

Note: School bus cannot be broken out of CDL Truck/Bus

CDL TRUCK/BUS SUB-CATEGORY TYPE	MOTOR VEHICLES		FATAL CRASH		INJURY CRASH	PROPERTY DAMAGE ONLY	FATALITY IN VEHICLE		INJURY	NO INJURY
	Number of Vehicles	% of Total	Number	% of Total			Number	% of Total		
Commercial Vehicle: Group A*	7,105	56.9	35	31.3	1,201	5,869	4	36.4	252	6,849
Commercial Vehicle: Group B**	2,713	21.7	15	13.4	524	2,174	1	9.1	173	2,539
Commercial Vehicle: Group C***	331	2.7	1	0.9	48	282	0	0.0	22	309
Other Truck	1,094	8.8	7	6.3	241	846	2	18.2	73	1,019
Unknown Truck	1,243	10.0	54	48.2	177	1,012	4	36.4	47	1,192
Total Number of Vehicles	12,486	100.0	112	100.0	2,191	10,183	11	100.0	567	11,908

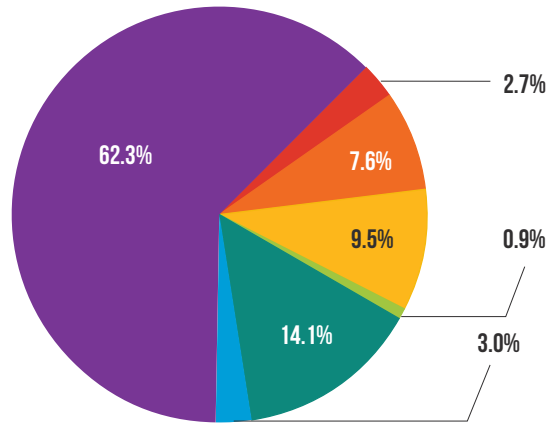
* Group "A" is any vehicle that is towing a vehicle or trailer that has a gross vehicle weight rating (GVWR) over 10,000 lbs.

** 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.

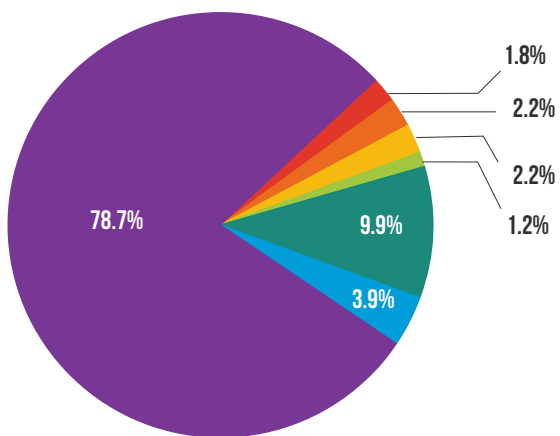
VEHICLE TYPES IN CRASHES BY CRASH SEVERITY

■ PASSENGER CAR, STATION WAGON
 ■ VAN, MINIVAN, MOTORHOME
 ■ PICKUP
 ■ TRUCK UNDER 10,000 LBS.
 ■ MOTORCYCLE
 ■ CDL TRUCK/BUS
 ■ OTHER

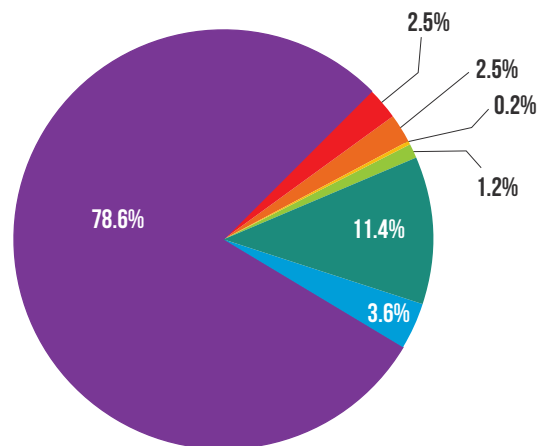


FATAL

The chart shows that 80.3 percent of vehicles involved in fatal crashes are passenger vehicles (passenger cars, station wagons, vans, minivans, motorhomes, pickups, or trucks under 10,000 lbs.). Motorcycles have a fatal crash involvement of 9.5 percent.



INJURY



PROPERTY DAMAGE ONLY

As with fatal crashes, injury crashes (78.7%) and property damage only (PDO) crashes (78.6%) are represented primarily by passenger cars and station wagons.

Note: "Other" consists of moped, go-cart, snowmobile, off-road vehicle, other, and unknown.

ACTION PRIOR TO CRASH

DRIVER ACTION	VEHICLES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number	% of Total		A	B	C	
Going straight ahead	270,555	53.0	1,105	4,369	14,032	37,285	213,764
Turning left	34,549	6.8	67	564	2,299	5,962	25,657
Turning right	14,423	2.8	15	97	526	1,471	12,314
Stopped on roadway	53,070	10.4	67	444	2,011	9,728	40,820
In prior crash	489	0.1	1	18	35	96	339
Changing lanes	15,092	3.0	26	96	343	1,240	13,387
Backing	11,014	2.2	4	27	80	304	10,599
Slowing/stopping on roadway	51,906	10.2	46	303	1,514	8,165	41,878
Slowing/stopping other	756	0.1	0	15	26	107	608
Starting up on roadway	9,622	1.9	24	104	465	1,538	7,491
Starting up other	144	0.0	0	4	4	20	116
Entering parking	453	0.1	0	0	9	40	404
Leaving parking	1,275	0.2	1	13	48	139	1,074
Entering roadway	6,204	1.2	10	84	324	860	4,926
Leaving roadway	732	0.1	9	27	70	112	514
Making U-turn	976	0.2	1	27	60	140	748
Overtaking or passing	3,043	0.6	15	60	160	276	2,532
Avoiding object	557	0.1	0	10	38	88	421
Avoiding animal	862	0.2	1	23	83	113	642
Avoiding pedestrian	101	0.0	4	7	12	13	65
Avoiding vehicle (front/back)	3,595	0.7	24	95	212	528	2,736
Avoiding vehicle (angle)	1,530	0.3	2	33	104	219	1,172
Driverless moving	255	0.0	0	8	11	21	215
Parked	18,280	3.6	38	139	391	965	16,747
Crossing at intersection	20	0.0	0	1	1	4	14
Crossing not at intersection	9	0.0	0	0	2	1	6
Getting on/off vehicle	2	0.0	0	0	0	1	1
In roadway with traffic	5	0.0	0	0	0	0	5
In roadway against traffic	6	0.0	0	0	0	1	5
Standing or lying in roadway	2	0.0	0	0	0	1	1
Pushing/working on vehicle	0	0.0	0	0	0	0	0
Other working in roadway	2	0.0	0	0	0	0	2
Playing in roadway	0	0.0	0	0	0	0	0
In roadway other reason	6	0.0	0	0	0	0	6
Not in roadway	34	0.0	0	0	7	8	19
Other	482	0.1	2	12	28	49	391
Unknown	10,023	2.0	17	55	238	554	9,159
TOTAL	510,074	100.0	1,479	6,635	23,133	70,049	408,778

ACTION PRIOR TO CRASH (CONTINUED)

MOTORCYCLIST ACTION	MOTORCYCLES		MOTORCYCLISTS*		FATALITY	INJURY			NO INJURY
	Number of Motorcycles	% of Total	Number of Motorcyclists	% of Total		A	B	C	
Going straight ahead	2,084	67.3	2,273	67.3	109	382	737	540	479
Turning left	144	4.7	160	4.7	4	25	54	39	37
Turning right	96	3.1	103	3.1	2	11	26	29	35
Stopped on roadway	144	4.7	159	4.7	3	7	25	33	90
In prior crash	0	0.0	0	0.0	0	0	0	0	0
Changing lanes	64	2.1	67	2.0	4	12	23	12	14
Backing	6	0.2	6	0.2	1	2	0	1	2
Slowing/stopping on roadway	191	6.2	209	6.2	4	17	65	47	74
Slowing/stopping other	1	0.0	1	0.0	0	0	1	0	0
Starting up on roadway	32	1.0	38	1.1	1	6	10	7	14
Starting up other	2	0.1	2	0.1	0	0	0	0	2
Entering parking	0	0.0	0	0.0	0	0	0	0	0
Leaving parking	5	0.2	5	0.1	0	0	0	3	2
Entering roadway	32	1.0	35	1.0	2	6	9	11	7
Leaving roadway	11	0.4	11	0.3	0	2	6	1	2
Making U-turn	8	0.3	8	0.2	0	2	1	3	2
Overtaking or passing	69	2.2	75	2.2	5	22	21	13	12
Avoiding object	10	0.3	10	0.3	0	0	7	2	1
Avoiding animal	13	0.4	14	0.4	0	3	5	1	5
Avoiding pedestrian	0	0.0	0	0.0	0	0	0	0	0
Avoiding vehicle (front/back)	73	2.4	84	2.5	3	9	28	24	20
Avoiding vehicle (angle)	47	1.5	50	1.5	0	4	22	12	12
Driverless moving	1	0.0	1	0.0	0	0	0	0	1
Parked	36	1.2	36	1.1	0	0	0	0	9
Crossing at intersection	0	0.0	0	0.0	0	0	0	0	0
Crossing not at intersection	0	0.0	0	0.0	0	0	0	0	0
Getting on/off vehicle	0	0.0	0	0.0	0	0	0	0	0
In roadway with traffic	0	0.0	0	0.0	0	0	0	0	0
In roadway against traffic	0	0.0	0	0.0	0	0	0	0	0
Standing or lying in roadway	0	0.0	0	0.0	0	0	0	0	0
Pushing/working on vehicle	0	0.0	0	0.0	0	0	0	0	0
Other working in roadway	0	0.0	0	0.0	0	0	0	0	0
Playing in roadway	0	0.0	0	0.0	0	0	0	0	0
In roadway other reason	0	0.0	0	0.0	0	0	0	0	0
Not in roadway	0	0.0	0	0.0	0	0	0	0	0
Other	5	0.2	6	0.2	0	2	1	3	0
Unknown	22	0.7	23	0.7	0	5	4	4	2
TOTAL	3,096	100.0	3,376	100.0	138	517	1,045	785	822

*This table includes 69 motorcyclists (drivers and passengers) with unknown injury severity

ACTION PRIOR TO CRASH (CONTINUED)

BICYCLIST ACTION	BICYCLISTS*		FATALITY	INJURY			NO INJURY
	Number of Bicyclists	% of Total		A	B	C	
Going straight ahead	1,048	55.2	15	77	322	430	170
Turning left	44	2.3	3	1	16	13	11
Turning right	12	0.6	0	0	5	2	2
Stopped on roadway	10	0.5	1	0	2	4	2
In prior crash	0	0.0	0	0	0	0	0
Changing lanes	17	0.9	0	1	6	7	3
Backing	0	0.0	0	0	0	0	0
Slowing/stopping on roadway	5	0.3	0	0	1	1	3
Slowing/stopping other	2	0.1	0	0	0	2	0
Starting up on roadway	15	0.8	0	1	6	6	2
Starting up other	0	0.0	0	0	0	0	0
Entering parking	0	0.0	0	0	0	0	0
Leaving parking	2	0.1	0	0	1	0	1
Entering roadway	88	4.6	2	10	30	27	17
Leaving roadway	1	0.1	0	0	0	1	0
Making U-turn	2	0.1	0	0	0	2	0
Overtaking or passing	4	0.2	0	0	1	2	1
Avoiding object	2	0.1	0	0	1	0	1
Avoiding animal	0	0.0	0	0	0	0	0
Avoiding pedestrian	0	0.0	0	0	0	0	0
Avoiding vehicle (front/back)	1	0.1	0	0	1	0	0
Avoiding vehicle (angle)	1	0.1	0	0	0	0	1
Driverless moving	1	0.1	0	0	0	0	0
Parked	0	0.0	0	0	0	0	0
Crossing at intersection	404	21.3	3	22	122	172	77
Crossing not at intersection	88	4.6	3	15	33	26	9
Getting on/off vehicle	0	0.0	0	0	0	0	0
In roadway with traffic	41	2.2	3	5	10	18	4
In roadway against traffic	24	1.3	2	2	7	9	3
Standing or lying in roadway	0	0.0	0	0	0	0	0
Pushing/working on vehicle	0	0.0	0	0	0	0	0
Other working in roadway	1	0.1	0	1	0	0	0
Playing in roadway	5	0.3	0	0	2	2	1
In roadway other reason	19	1.0	0	3	6	9	1
Not in roadway	12	0.6	0	1	4	4	2
Other	22	1.2	0	1	6	6	7
Unknown	26	1.4	1	2	7	4	2
TOTAL	1,897	100.0	33	142	589	747	320

*Includes 66 bicyclists with unknown injury severity

ACTION PRIOR TO CRASH (CONTINUED)

PEDESTRIAN ACTION	PEDESTRIANS*		FATALITY	INJURY			NO INJURY
	Number of Pedestrians	% of Total		A	B	C	
Going straight ahead	95	3.8	4	13	25	31	16
Turning left	1	0.0	0	0	0	1	0
Turning right	2	0.1	0	1	1	0	0
Stopped on roadway	7	0.3	0	0	2	5	0
In prior crash	2	0.1	0	0	2	0	0
Changing lanes	0	0.0	0	0	0	0	0
Backing	0	0.0	0	0	0	0	0
Slowing/stopping on roadway	0	0.0	0	0	0	0	0
Slowing/stopping other	0	0.0	0	0	0	0	0
Starting up on roadway	1	0.0	0	0	1	0	0
Starting up other	0	0.0	0	0	0	0	0
Entering parking	2	0.1	0	0	0	1	1
Leaving parking	2	0.1	0	0	0	1	1
Entering roadway	33	1.3	0	6	14	9	3
Leaving roadway	0	0.0	0	0	0	0	0
Making U-turn	0	0.0	0	0	0	0	0
Overtaking or passing	4	0.2	0	1	1	1	0
Avoiding object	0	0.0	0	0	0	0	0
Avoiding animal	1	0.0	0	0	0	1	0
Avoiding pedestrian	0	0.0	0	0	0	0	0
Avoiding vehicle (front/back)	3	0.1	0	1	1	0	1
Avoiding vehicle (angle)	1	0.0	0	0	1	0	0
Driverless moving	2	0.1	0	0	1	1	0
Parked	4	0.2	0	2	1	0	1
Crossing at intersection	781	31.5	23	80	231	367	71
Crossing not at intersection	599	24.1	55	120	173	197	33
Getting on/off vehicle	31	1.2	1	11	5	13	1
In roadway with traffic	235	9.5	20	37	55	92	31
In roadway against traffic	52	2.1	7	6	11	21	7
Standing or lying in roadway	133	5.4	19	28	34	39	10
Pushing/working on vehicle	29	1.2	4	7	7	10	0
Other working in roadway	32	1.3	1	4	6	15	5
Playing in roadway	21	0.8	1	3	10	5	2
In roadway other reason	159	6.4	15	32	42	54	12
Not in roadway	123	5.0	9	23	32	48	11
Other	81	3.3	6	8	19	40	6
Unknown	46	1.9	5	7	10	14	3
TOTAL	2,482	100.00	170	390	685	966	215

*Includes 56 pedestrians with unknown injury severity

MOST HARMFUL EVENT

NONCOLLISION	MOTOR VEHICLES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Vehicles	% of Total		A	B	C	
Loss of control	2,084	0.4	2	56	197	348	1,481
Cross center/median	425	0.1	0	10	37	61	317
Ran off road left	786	0.2	3	15	46	95	627
Ran off road right	1,446	0.3	5	12	88	185	1,156
Re-enter road	78	0.0	0	1	5	12	60
Overturn	6,033	1.2	78	356	1,108	1,457	3,034
Separation of units	160	0.0	0	4	6	22	128
Fire/explosion	352	0.1	9	3	20	22	298
Immersion	39	0.0	0	0	3	4	32
Jackknife	202	0.0	0	5	4	7	186
Downhill runaway	22	0.0	0	0	2	4	16
Cargo loss/shift	421	0.1	0	4	17	11	389
Individual fell off	383	0.1	20	100	150	73	40
Other noncollision	1,823	0.4	4	30	83	205	1,501
SUBTOTAL	14,254	2.8	121	596	1,766	2,506	9,265

HAD A COLLISION WITH NONFIXED OBJECT	MOTOR VEHICLES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Vehicles	% of Total		A	B	C	
Pedestrian	2,071	0.4	171	322	572	803	203
Bicycle / Pedalcycle	1,647	0.3	35	124	526	635	327
Motor vehicle in transport	383,097	75.1	901	4,482	16,948	59,407	301,359
Parked motor vehicle	16,324	3.2	14	93	306	836	15,075
Railway train	37	0.0	1	3	3	6	24
Animal	47,877	9.4	5	36	234	533	47,069
Other nonfixed objects	4,529	0.9	11	35	119	195	4,169
SUBTOTAL	455,582	89.3	1,138	5,095	18,708	62,415	368,226

MOST HARMFUL EVENT (CONTINUED)

COLLISION WITH A FIXED OBJECT	MOTOR VEHICLES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Vehicles	% of Total		A	B	C	
Bridge/pier/abutment	436	0.1	7	13	21	64	331
Bridge parapet end*	---	---	---	---	---	---	---
Bridge rail	426	0.1	1	6	19	46	354
Guardrail face	3,089	0.6	8	38	135	359	2,549
Guardrail end	534	0.1	3	12	25	83	411
Median barrier	4,566	0.9	4	74	261	723	3,504
Highway traffic sign post	2,380	0.5	4	13	34	110	2,219
Highway signal post	227	0.0	0	1	5	14	207
Luminaire/light support*	3,668	0.7	27	97	314	591	2,639
Utility pole*	---	---	---	---	---	---	---
Other pole	910	0.2	4	11	39	82	774
Culvert	478	0.1	4	18	57	86	313
Curb	1,404	0.3	5	21	59	111	1,208
Ditch	5,605	1.1	14	105	356	655	4,475
Embankment	1,210	0.2	9	34	91	188	888
Fence	861	0.2	3	9	36	70	743
Mailbox	1,681	0.3	1	11	19	54	1,596
Tree	8,392	1.6	108	383	891	1,384	5,626
Rail crossing signal	98	0.0	0	4	3	7	84
Building	604	0.1	10	21	70	132	371
Traffic island	58	0.0	0	1	3	3	51
Fire hydrant	458	0.1	1	6	14	46	391
Impact attenuator	69	0.0	0	1	7	12	49
Other fixed object	2,448	0.5	5	54	172	253	1,964
SUBTOTAL	39,602	7.8	218	933	2,631	5,073	30,747

*Data not available for 2015. For a complete list of changes, see Data Elements with Changes for 2015 Data

	MOTOR VEHICLES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Vehicles	% of Total		A	B	C	
Unknown Event	636	0.1	2	11	28	55	540
MOST HARMFUL EVENT TOTAL	510,074	100.0	1,479	6,635	23,133	70,049	408,778

VEHICLE DEFECTS IN CRASH INVOLVEMENT

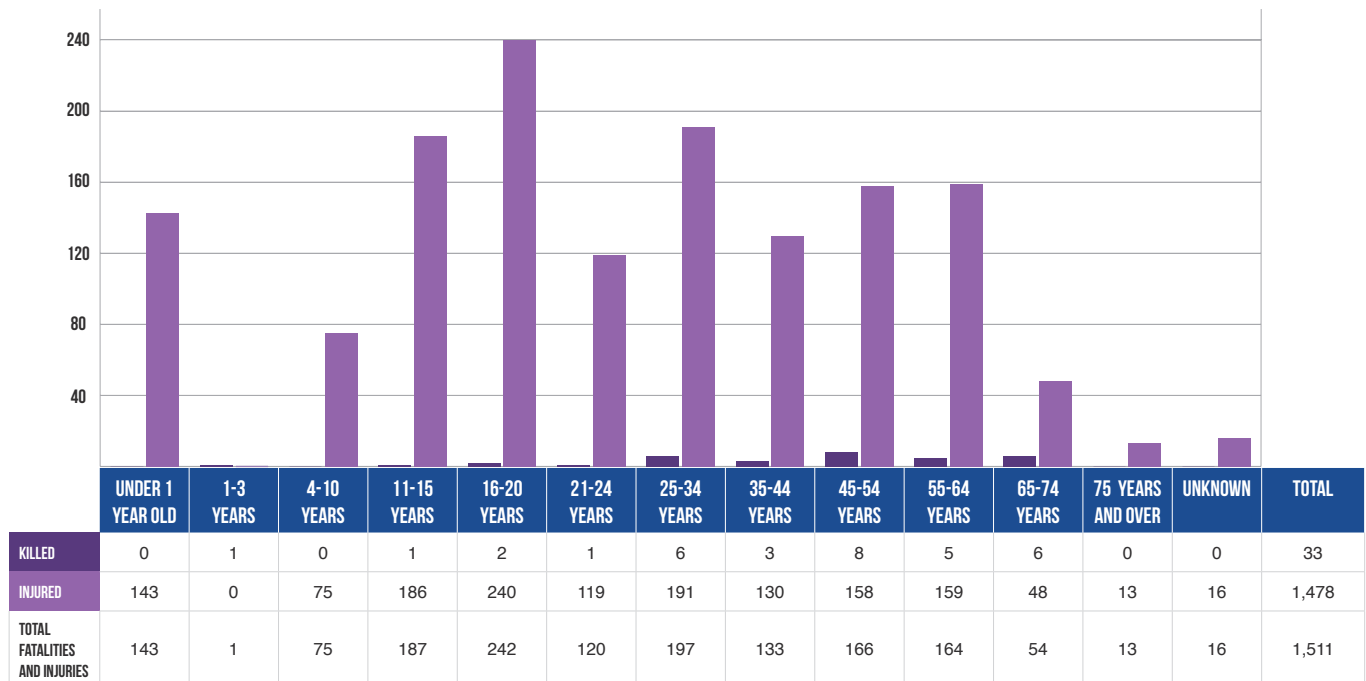
VEHICLE DEFECTS	MOTOR VEHICLES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Vehicles	% of Total		A	B	C	
Brakes	841	0.2	6	15	54	149	617
Lights/reflectors	97	0.0	1	4	4	14	74
Steering	177	0.0	0	4	18	25	130
Tires/wheels	693	0.1	5	13	29	89	557
Windows	14	0.0	1	0	0	2	11
Other	534	0.1	1	8	35	60	430
None or Unknown	507,718	99.5	1,465	6,591	22,993	69,710	406,959
TOTAL	510,074	100.0	1,479	6,635	23,133	70,049	408,778

DRIVER HAZARDOUS ACTION

HAZARDOUS ACTION	MOTOR VEHICLES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Vehicles	% of Total		A	B	C	
None	265,050	52.0	625	2,907	10,599	34,204	216,715
Speed too fast	29,896	5.9	195	615	1,885	4,050	23,151
Speed too slow	390	0.1	5	7	19	60	299
Failed to yield	44,058	8.6	93	649	2,964	7,595	32,757
Disregard traffic control	10,360	2.0	57	304	1,031	2,645	6,323
Drove wrong way	478	0.1	2	15	41	91	329
Drove left of center	2,431	0.5	56	131	266	381	1,597
Improper passing	2,515	0.5	8	22	92	220	2,173
Improper lane use	11,637	2.3	13	68	261	862	10,433
Improper turn	5,132	1.0	6	45	186	570	4,325
Improper/no signal	754	0.1	1	5	26	89	633
Improper backing	7,962	1.6	2	11	38	193	7,718
Unable to stop in assured clear distance	71,810	14.1	56	451	2,215	11,845	57,243
Reckless driving	2,667	0.5	47	207	343	464	1,606
Careless/negligent driving	13,739	2.7	97	497	1,262	2,320	9,563
Other	16,823	3.3	79	370	1,026	2,145	13,203
Unknown	24,372	4.8	137	331	879	2,315	20,710
TOTAL	510,074	100.0	1,479	6,635	23,133	70,049	408,778

MICHIGAN BICYCLE CRASHES

2015 BICYCLE CRASH INFORMATION



In 2015, there were 1,897 bicyclists involved in motor vehicles crashes, with 33 bicyclists killed and 1,478 injured. More bicyclists within the 45-54 years of age group died than any other age group, with 8 killed (24.2%). The 16-20 age group had the greatest percentage of total fatalities and injuries (16.0%).

BICYCLE HELMET USE AND INJURY SEVERITY

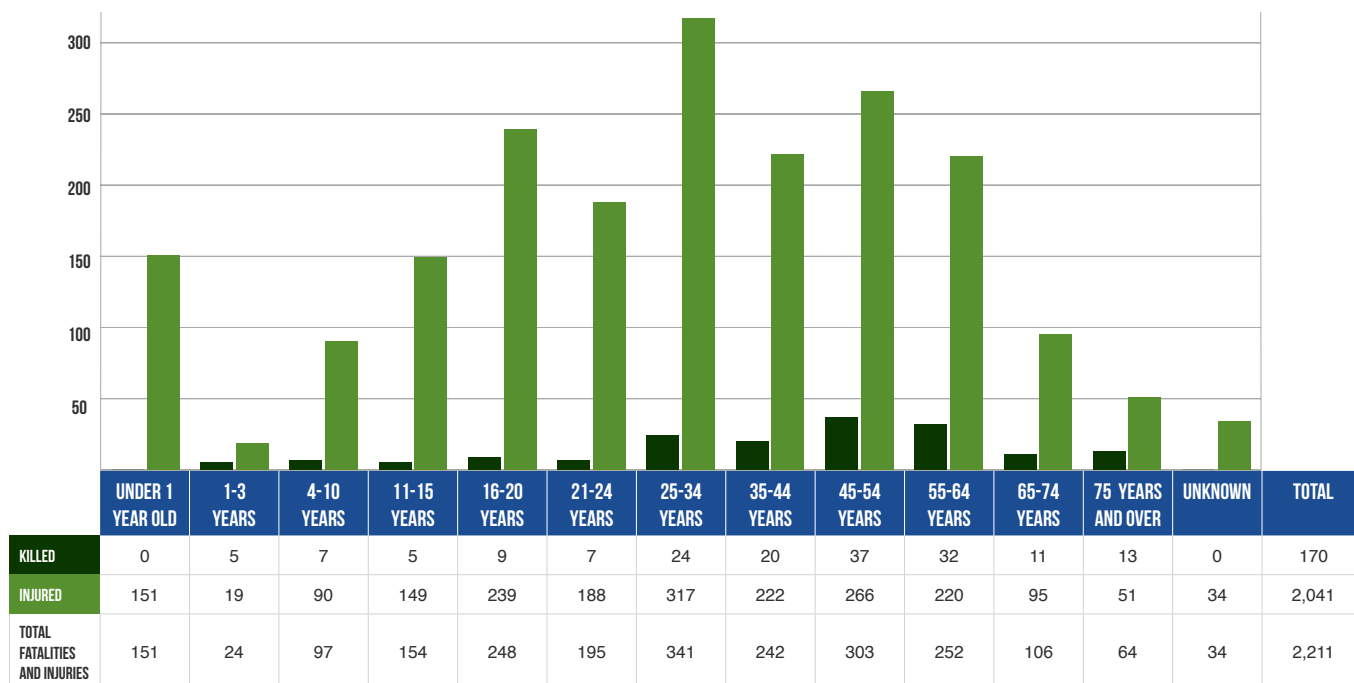
HELMET USE	FATALITY	INJURY			NO INJURY
		A	B	C	
Worn	2	19	73	88	43
Not Worn	18	65	307	352	140
Unknown	13	58	209	307	137
Total	33	142	589	747	320

Note: 61 bicyclists had an unknown degree of injury and are not represented in this table

The National Center for Statistics and Analysis of the National Highway Traffic Safety Administration cites a study by the Centers for Disease Control [12]: "Bicycle helmets are 85 to 88 percent effective in mitigating head and brain injuries in all types of bicycle accidents, making the use of helmets the single most effective countermeasure available to reduce head injuries and fatalities resulting from bicycle crashes."

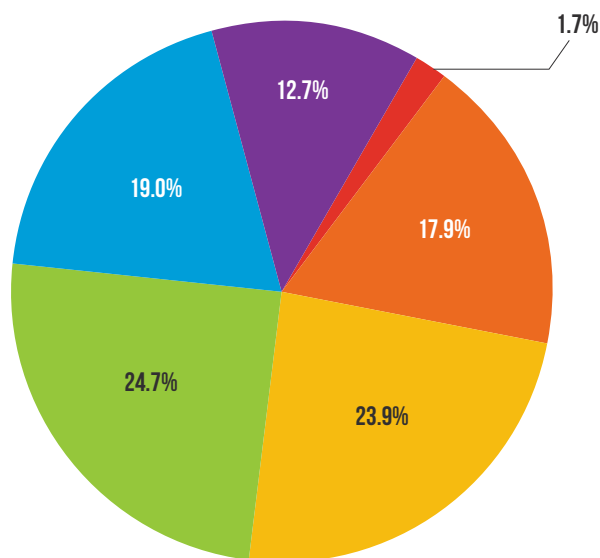
MICHIGAN PEDESTRIAN CRASHES

2015 PEDESTRIAN FATALITIES AND INJURIES

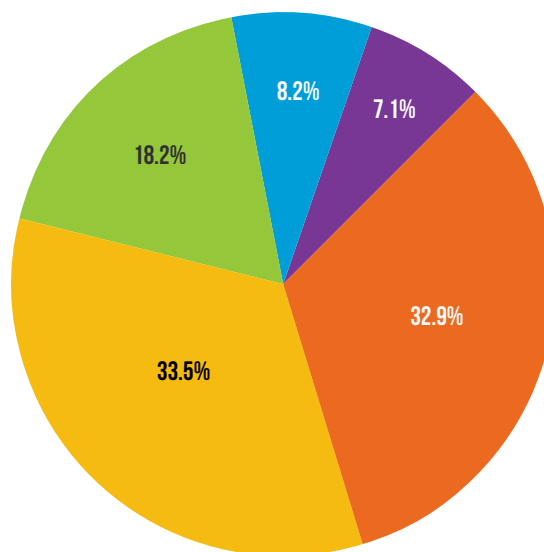


In 2015, there were 2,482 pedestrians involved in motor vehicle crashes, with 170 pedestrians killed and 2,041 injured. More pedestrians within the 45-54 years of age group died than any other age group, with 37 killed (21.8%). The 25-34 age group had the greatest number of injuries (15.5%), and the greatest percentage of total fatalities and injuries (15.4%).

■ 0-10 YEARS
 ■ 11-20 YEARS
 ■ 21-34 YEARS
 ■ 35-54 YEARS
 ■ 55 AND OVER
 ■ UNKNOWN



PEDESTRIANS INJURED



PEDESTRIANS KILLED

MICHIGAN SNOWMOBILE CRASHES ON PUBLIC ROADWAYS - MOST HARMFUL EVENT

NONCOLLISION	SNOWMOBILES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Snowmobiles	% of Total		A	B	C	
Loss of control	1	0.8	0	0	1	0	0
Cross center/median	2	1.5	0	0	1	1	0
Ran off road left	1	0.8	0	1	0	0	0
Ran off road right	0	0.0	0	0	0	0	0
Re-enter road	1	0.8	0	1	0	0	0
Overturn	13	9.8	0	4	4	2	3
Separation of units	0	0.0	0	0	0	0	0
Fire/explosion	3	2.3	0	0	0	0	3
Immersion	0	0.0	0	0	0	0	0
Jackknife	0	0.0	0	0	0	0	0
Downhill runaway	0	0.0	0	0	0	0	0
Cargo loss/shift	0	0.0	0	0	0	0	0
Individual fell off	14	10.5	0	5	2	6	1
Other noncollision	4	3.0	0	0	1	2	1
SUBTOTAL	39	29.3	0	11	9	11	8

COLLISION WITH A NONFIXED OBJECT	SNOWMOBILES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Snowmobiles	% of Total		A	B	C	
Pedestrian	0	0.0	0	0	0	0	0
Bicycle / Pedalcycle	0	0.0	0	0	0	0	0
Motor vehicle in transport	62	46.6	2	12	10	12	26
Parked motor vehicle	2	1.5	0	1	0	0	1
Railway train	0	0.0	0	0	0	0	0
Animal	1	0.8	0	0	0	0	1
Other nonfixed objects	1	0.8	0	0	0	0	1
SUBTOTAL	66	49.6	2	13	10	12	29

MICHIGAN SNOWMOBILE CRASHES ON PUBLIC ROADWAYS - MOST HARMFUL EVENT (CONTINUED)

COLLISION WITH FIXED OBJECT	SNOWMOBILES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Snowmobiles	% of Total		A	B	C	
Bridge/pier/abutment	0	0.0	0	0	0	0	0
Bridge parapet end*	---	---	---	---	---	---	---
Bridge rail	0	0.0	0	0	0	0	0
Guardrail face	1	0.8	0	0	1	0	0
Guardrail end	0	0.0	0	0	0	0	0
Median barrier	0	0.0	0	0	0	0	0
Highway traffic sign post	0	0.0	0	0	0	0	0
Highway signal post	0	0.0	0	0	0	0	0
Luminaire/light support*	1	0.8	0	0	0	0	1
Utility pole*	---	---	---	---	---	---	---
Other pole	1	0.8	0	0	1	0	0
Culvert	2	1.5	0	1	1	0	0
Curb	0	0.0	0	0	0	0	0
Ditch	2	1.5	0	0	0	2	0
Embankment	2	1.5	0	0	0	1	1
Fence	2	1.5	0	1	0	0	1
Mailbox	2	1.5	0	0	0	0	2
Tree	9	6.8	0	2	2	2	3
Rail crossing signal	0	0.0	0	0	0	0	0
Building	1	0.8	0	0	1	0	0
Traffic island	0	0.0	0	0	0	0	0
Fire hydrant	0	0.0	0	0	0	0	0
Impact attenuator	0	0.0	0	0	0	0	0
Other fixed object	3	2.3	0	1	1	0	1
SUBTOTAL	26	19.5	0	5	7	5	9

*Data not available for 2015. For a complete list of changes, see Data Elements with Changes for 2015 Data

	SNOWMOBILES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Snowmobiles	% of Total		A	B	C	
Unknown Event	2	1.5	0	0	1	1	0
MOST HARMFUL EVENT TOTAL	133	100	2	29	27	29	46

Note: These crashes involve a motor vehicle in transport on a public trafficway and result in injury, death, or at least \$1,000 in property damage.

A total of 133 snowmobiles were reported in crashes on Michigan public roadways during 2015, resulting in two fatal crashes. An additional 85 snowmobiles were involved in injury crashes.

MICHIGAN ORV/ATV CRASHES ON PUBLIC ROADWAYS - MOST HARMFUL EVENT

NONCOLLISION	ORV/ATV		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of ORV/ATVs	% of Total		A	B	C	
Loss of control	6	2.1	0	3	2	1	0
Cross center/median	0	0.0	0	0	0	0	0
Ran off road left	0	0.0	0	0	0	0	0
Ran off road right	1	0.3	0	1	0	0	0
Re-enter road	0	0.0	0	0	0	0	0
Overturn	72	24.7	2	13	33	20	4
Separation of units	2	0.7	0	1	1	0	0
Fire/explosion	2	0.7	0	0	0	0	2
Immersion	0	0.0	0	0	0	0	0
Jackknife	0	0.0	0	0	0	0	0
Downhill runaway	0	0.0	0	0	0	0	0
Cargo loss/shift	0	0.0	0	0	0	0	0
Individual fell off	36	12.3	3	11	15	7	0
Other noncollision	3	1.0	0	1	1	1	0
SUBTOTAL	122	41.8	5	30	52	29	6

COLLISION WITH A NONFIXED OBJECT	ORV/ATV		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of ORV/ATVs	% of Total		A	B	C	
Pedestrian	3	1.0	0	1	2	0	0
Bicycle / Pedalcycle	0	0.0	0	0	0	0	0
Motor vehicle in transport	88	30.1	3	11	27	18	29
Parked motor vehicle	7	2.4	0	1	2	2	2
Railway train	0	0.0	0	0	0	0	0
Animal	3	1.0	0	0	1	2	0
Other nonfixed objects	3	1.0	0	1	0	2	0
SUBTOTAL	104	35.6	3	14	32	24	31

MICHIGAN ORV/ATV CRASHES ON PUBLIC ROADWAYS - MOST HARMFUL EVENT (CONTINUED)

COLLISION WITH A FIXED OBJECT	ORV/ATV		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of ORV/ATVs	% of Total		A	B	C	
Bridge/pier/abutment	0	0.0	0	0	0	0	0
Bridge parapet end*	---	---	---	---	---	---	---
Bridge rail	0	0.0	0	0	0	0	0
Guardrail face	0	0.0	0	0	0	0	0
Guardrail end	0	0.0	0	0	0	0	0
Median barrier	0	0.0	0	0	0	0	0
Highway traffic sign post	1	0.3	0	1	0	0	0
Highway signal post	0	0.0	0	0	0	0	0
Luminaire/light support*	0	0.0	0	0	0	0	0
Utility pole*	---	---	---	---	---	---	---
Other pole	0	0.0	0	0	0	0	0
Culvert	1	0.3	1	0	0	0	0
Curb	2	0.7	1	0	0	0	1
Ditch	4	1.4	0	2	1	0	1
Embankment	3	1.0	0	0	1	1	1
Fence	1	0.3	0	0	1	0	0
Mailbox	2	0.7	0	1	1	0	0
Tree	36	12.3	1	16	10	5	4
Rail crossing signal	0	0.0	0	0	0	0	0
Building	0	0.0	0	0	0	0	0
Traffic island	0	0.0	0	0	0	0	0
Fire hydrant	0	0.0	0	0	0	0	0
Impact attenuator	0	0.0	0	0	0	0	0
Other fixed object	13	4.5	0	4	4	2	3
SUBTOTAL	63	21.6	3	24	18	8	10

*Data not available for 2015. For a complete list of changes, see Data Elements with Changes for 2015 Data

	ORV/ATV		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of ORV/ATVs	% of Total		A	B	C	
Unknown Event	3	1.0	1	0	0	0	2
MOST HARMFUL EVENT TOTAL	292	100.0	12	68	102	61	49

Note: These crashes involve a motor vehicle in transport on a public trafficway and result in injury, death, or at least \$1,000 in property damage.

A total of 292 off-road/all-terrain vehicles were reported in crashes on Michigan public roadways during 2015, resulting in 12 fatal crashes. An additional 231 ORV/ATVs were involved in injury crashes.

MICHIGAN SNOWMOBILE CRASHES ON PUBLIC ROADWAYS

DRIVER HAZARDOUS ACTION	SNOWMOBILES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Snowmobiles	% of Total		A	B	C	
None	44	33.1	0	7	7	11	19
Speed too fast	31	23.3	0	8	7	6	10
Speed too slow	1	0.8	0	0	0	1	0
Failed to yield	16	12.0	1	4	2	3	6
Disregard traffic control	0	0.0	0	0	0	0	0
Drove wrong way	1	0.8	0	0	0	1	0
Drove left of center	0	0.0	0	0	0	0	0
Improper passing	0	0.0	0	0	0	0	0
Improper lane use	2	1.5	0	0	1	0	1
Improper turn	2	1.5	0	0	1	0	1
Improper/no signal	1	0.8	0	0	0	1	0
Improper backing	0	0.0	0	0	0	0	0
Unable to stop in assured clear distance	6	4.5	0	2	0	2	2
Reckless driving	1	0.8	0	1	0	0	0
Careless/negligent driving	5	3.8	0	3	0	1	1
Other	16	12.0	1	2	7	1	5
Unknown	7	5.3	0	2	2	2	1
TOTAL	133	100.0	2	29	27	29	46

MICHIGAN ORV/ATV CRASHES ON PUBLIC ROADWAYS

DRIVER HAZARDOUS ACTION	ORV/ATV		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of ORV/ATVs	% of Total		A	B	C	
None	54	18.5	1	7	18	17	11
Speed too fast	82	28.1	1	22	28	18	13
Speed too slow	1	0.3	0	0	0	1	0
Failed to yield	25	8.6	0	2	8	5	10
Disregard traffic control	5	1.7	2	1	0	1	1
Drove wrong way	1	0.3	0	0	1	0	0
Drove left of center	3	1.0	0	2	1	0	0
Improper passing	3	1.0	0	1	1	0	1
Improper lane use	0	0.0	0	0	0	0	0
Improper turn	4	1.4	0	0	0	2	2
Improper/no signal	0	0.0	0	0	0	0	0
Improper backing	1	0.3	0	0	0	1	0
Unable to stop in assured clear distance	12	4.1	1	4	6	0	1
Reckless driving	10	3.4	0	4	2	2	2
Careless/negligent driving	41	14.0	4	13	16	5	3
Other	35	12.0	1	8	19	4	3
Unknown	15	5.1	2	4	2	5	2
TOTAL	292	100.0	12	68	102	61	49

Note: These crashes involve a motor vehicle in transport on a public trafficway and result in injury, death, or at least \$1,000 in property damage

MICHIGAN FARM EQUIPMENT CRASHES

FARM EQUIPMENT CRASHES	2014	2015	% CHANGE
Crashes	212	217	2.4%
Fatalities	1	4	300.0%
Injuries	76	62	-18.4%

A total of 217 crashes involving farm equipment were reported on Michigan roadways during 2015. Of those crashes, four were fatal with four people killed.

MICHIGAN VEHICLE-TRAIN CRASHES

VEHICLE-TRAIN CRASHES	2014	2015	% CHANGE
Crashes	66	49	-25.8%
Fatalities	5	1	-80.0%
Injuries	27	16	-40.7%

A total of 49 crashes involving trains were reported in Michigan during 2015. Of those crashes, one was fatal with one person killed.

MICHIGAN MOTORCYCLE CRASHES

MOTORCYCLE DATA	2014	2015	% CHANGE
Motorcycle Registrations	259,325	257,465	-0.7
Motorcycles in Crashes	2,934	3,096	5.5
Motorcyclist Deaths	107	138	29.0
Motorcyclists Injured	2,309	2,347	1.6
Death Rate based on 10,000 motorcycle registrations	4.13	5.36	29.8
Estimated Mileage based on 3,000 miles per motorcycle	777,975,000	772,395,000	-0.7
Death Rate based on deaths per 100 million vehicle miles traveled	13.75	17.87	30.0

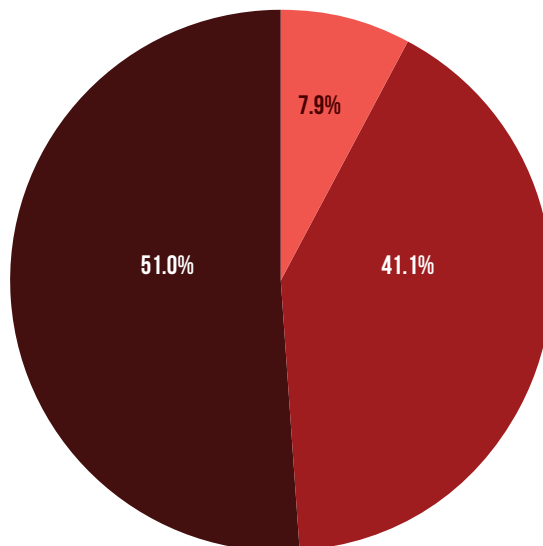
Motorcycles were involved in 1.0 percent of all traffic crashes in Michigan in 2015. Injuries were proportionately more severe to motorcyclists than to persons in motor vehicles.

DRIVER GENDER INFORMATION

MALES

FEMALES

UNKNOWN

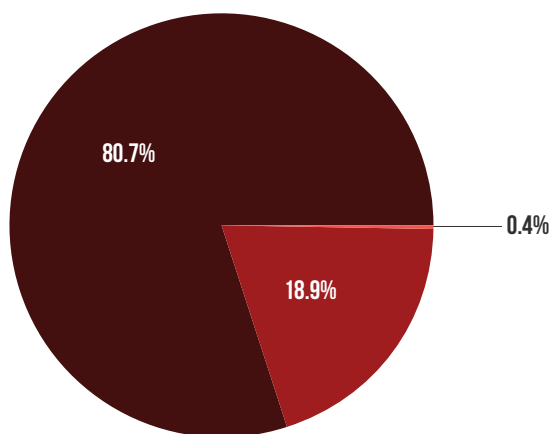


ALL CRASHES

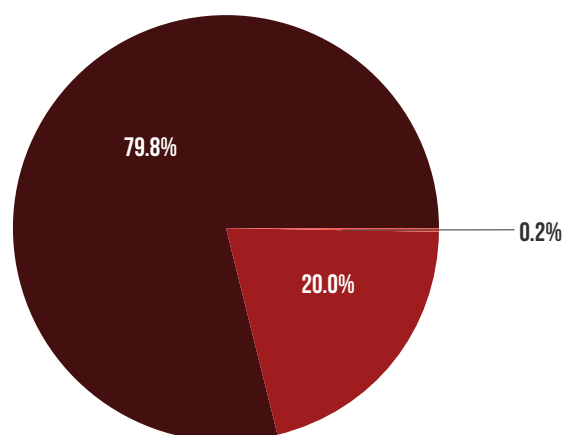
PROPERTY DAMAGE ONLY

INJURY

FATAL



MALE CRASH SEVERITY



FEMALE CRASH SEVERITY

A higher proportion of crashes involved male drivers than female drivers. When examining the severity of crashes involving drivers of each gender, fatal crashes are more prevalent among male drivers than female drivers (0.4% vs. 0.2%).

PERSON AGE - DEMOGRAPHICS AND CRASH INVOLVEMENTS

AGE	LICENSED DRIVERS	MICHIGAN POPULATION	TOTAL DRIVERS IN CRASHES	DRIVERS IN FATAL CRASHES	OCCUPANTS KILLED	OCCUPANTS INJURED	TOTAL BICYCLISTS IN CRASHES	BICYCLISTS IN FATAL CRASHES	TOTAL PEDESTRIANS IN CRASHES	PEDESTRIANS IN FATAL CRASHES
0-15	52,553	1,938,950	811	5	24	4,768	526	2	497	28
16	79,467	133,820	7,232	17	15	1,374	46	0	55	1
17	92,240	134,534	10,194	32	29	1,691	57	0	57	3
18	89,590	135,909	12,791	34	14	2,133	63	1	54	0
19	102,472	131,970	13,123	30	18	2,033	60	1	60	7
20	110,658	139,020	13,204	35	11	2,021	61	0	59	1
21-24	480,600	580,519	50,685	162	80	7,341	156	1	215	10
25-29	589,942	631,180	51,096	151	71	7,436	141	5	216	12
30-34	547,742	592,228	41,972	123	62	5,655	99	1	164	12
35-39	531,215	574,984	37,857	129	51	4,986	79	3	133	10
40-44	540,902	600,477	37,536	99	42	4,720	73	1	128	11
45-49	602,926	652,016	38,179	103	43	4,939	91	2	154	17
50-54	658,199	722,412	38,433	114	53	5,184	104	7	169	21
55-59	678,973	734,333	35,447	118	53	4,858	115	2	157	14
60-64	610,627	649,553	27,045	86	41	3,731	77	3	119	18
65-69	508,436	530,386	19,300	54	35	2,844	41	2	73	8
70-74	351,855	376,754	12,604	48	34	1,932	21	4	35	4
75-79	237,715	261,835	7,993	31	22	1,302	11	0	27	6
80-84	158,469	188,784	5,111	20	24	865	3	0	23	2
85+	133,735	212,912	3,607	27	38	710	1	0	19	5
Unknown	---	---	45,854	61	0	114	72	0	68	0
TOTAL	7,158,316	9,922,576	510,074	1,479	760	70,637	1,897	35	2,482	190

CRASH RATE PER LICENSED DRIVER BY AGE OF DRIVER IN ALL CRASHES

AGE	LICENSED DRIVERS	TOTAL DRIVERS IN CRASHES*	CRASH RATE
0-15	52,553	811	0.015
16	79,467	7,232	0.091
17	92,240	10,194	0.111
18	89,590	12,791	0.143
19	102,472	13,123	0.128
20	110,658	13,204	0.119
21-24	480,600	50,685	0.105
25-29	589,942	51,096	0.087
30-34	547,742	41,972	0.077
35-39	531,215	37,857	0.071
40-44	540,902	37,536	0.069
45-49	602,926	38,179	0.063
50-54	658,199	38,433	0.058
55-59	678,973	35,447	0.052
60-64	610,627	27,045	0.044
65-69	508,436	19,300	0.038
70-74	351,855	12,604	0.036
75-79	237,715	7,993	0.034
80-84	158,469	5,111	0.032
85-89	95,513	2,730	0.029
90-94	32,999	774	0.023
95-99	4,931	100	0.020
100+	292	3	0.010
Total	7,158,316	464,220	---

Note: Data entry errors resulted in an over-representation of age "100+" drivers

* Excludes 45,854 drivers with unknown age

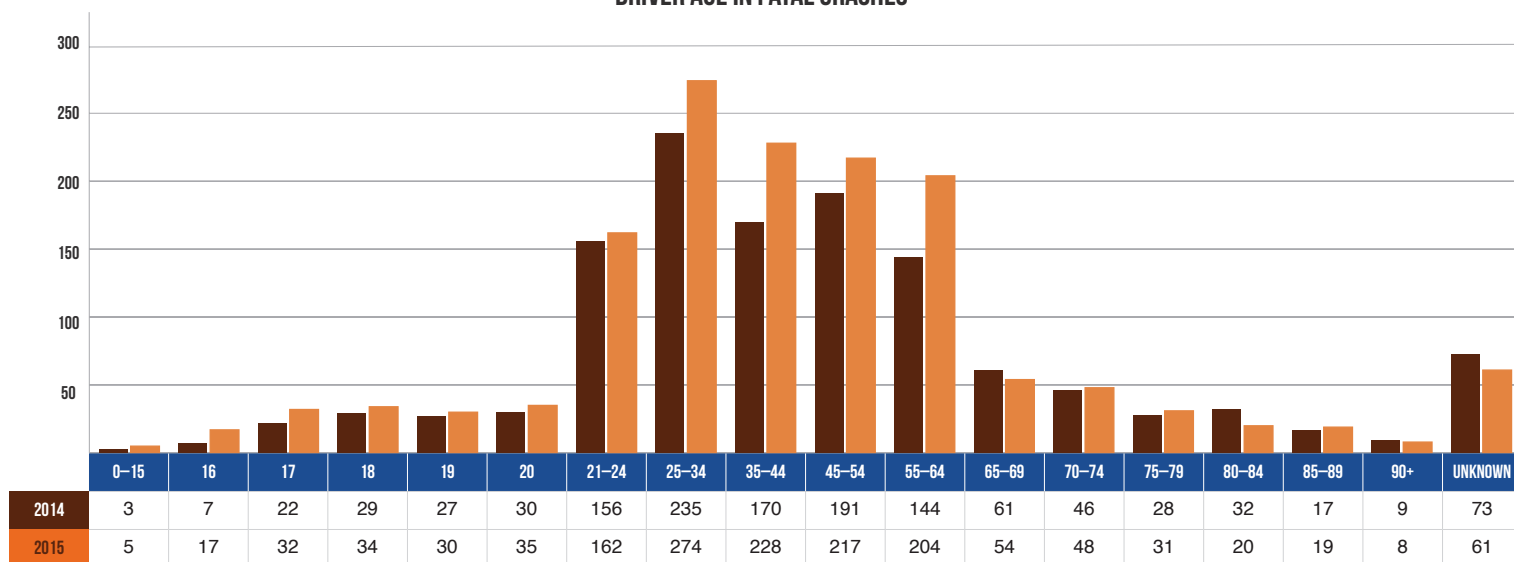
Licensed drivers age 18 have the highest crash rate at 0.143 (total crashes in age group divided by total number of licensed drivers in age group). The lower crash rates of the older groups (per licensed driver) may reflect reduced driving and exposure to the risk of a crash.

DRIVER AGE

AGE OF DRIVERS IN FATAL CRASHES	2014	2015	PERCENT CHANGE	PERCENT 2015 FATAL CRASH INVOLVEMENT	PERCENT ACTIVE DRIVING POPULATION*
15 years and under	3	5	66.7	0.3	0.7
16 years	7	17	142.9	1.1	1.1
17 years	22	32	45.5	2.2	1.3
18 years	29	34	17.2	2.3	1.3
19 years	27	30	11.1	2.0	1.4
20 years	30	35	16.7	2.4	1.5
21 - 24 years	156	162	3.8	11.0	6.7
25 - 34 years	235	274	16.6	18.5	15.9
35 - 44 years	170	228	34.1	15.4	15.0
45 - 54 years	191	217	13.6	14.7	16.8
55 - 64 years	144	204	41.7	13.8	18.0
65 - 69 years	61	54	-11.5	3.7	7.1
70 - 74 years	46	48	4.3	3.2	4.9
75 - 79 years	28	31	10.7	2.1	3.3
80 - 84 years	32	20	-37.5	1.4	2.2
85 - 89 years	17	19	11.8	1.3	1.3
90 years and over	9	8	-11.1	0.5	0.5
Unknown	73	61	-16.4	4.1	---
Total	1,280	1,479	15.5	100.0	100.0

* Figures courtesy of the Michigan Department of State [13]

DRIVER AGE IN FATAL CRASHES



DRIVER CONDITION

POSSIBLE CONDITIONS OF DRIVER	CONDITIONS (CODED BY POLICE)	FATAL CRASHES	INJURY CRASHES			PROPERTY DAMAGE ONLY
			A	B	C	
Appeared Normal	420,541	681	4,687	18,782	59,645	336,746
Had Been Drinking*	---	---	---	---	---	---
Illegal Drug Use*	---	---	---	---	---	---
Sick	1,010	5	58	129	343	475
Fatigue	2,607	12	86	286	595	1,628
Asleep*	---	---	---	---	---	---
Medication	805	3	37	100	222	443
Driver Distracted*	---	---	---	---	---	---
Using Cellular Phone*	---	---	---	---	---	---
Unknown	28,907	529	722	1,062	3,089	23,505

Note: Drivers may have more than one condition including "Appeared Normal." These are driver conditions that, in the opinion of the investigating officer, were involved in the crash. While some conditions may be evident, others (such as distraction) will only be known if the driver admits to the condition, thus leading to possible underreporting.

*Data not available for 2015. For a complete list of changes, see "Data Elements with Changes for 2015 Data."

DRIVER INJURY SEVERITY BY RESTRAINT, ALCOHOL, AND DRUG USE

RESTRAINT USAGE	DRIVERS		FATALITY		INJURY			NO INJURY	UNKNOWN
	Number	% of Total	Number	% of Total	A	B	C		
ALL DRIVERS									
Restraint Used*	443,602	87.0	314	53.0	2,248	10,078	35,409	395,188	365
Restraint Not Used	6,587	1.3	215	36.3	559	909	906	3,899	99
Unknown	59,885	11.7	64	10.8	270	536	1,386	16,497	41,132
TOTAL	510,074	100.0	593	100.0	3,077	11,523	37,701	415,584	41,596
DRINKING DRIVERS ONLY									
Restraint Used*	6,410	76.5	34	33.0	194	601	803	4,775	3
Restraint Not Used	681	8.1	58	56.3	151	162	112	197	1
Unknown	1,287	15.4	11	10.7	61	131	165	892	27
TOTAL	8,378	100.0	103	100.0	406	894	1,080	5,864	31
DRUGGED DRIVERS ONLY									
Restraint Used*	921	76.2	23	54.8	43	94	197	564	0
Restraint Not Used	100	8.3	14	33.3	16	20	23	27	0
Unknown	188	15.6	5	11.9	10	9	40	123	1
TOTAL	1,209	100.0	42	100.0	69	123	260	714	1
DRINKING AND DRUGGED DRIVERS ONLY									
Restraint Used*	671	67.8	21	36.8	28	84	114	424	0
Restraint Not Used	128	12.9	30	52.6	27	24	18	29	0
Unknown	191	19.3	6	10.5	18	24	28	111	4
TOTAL	990	100.0	57	100.0	73	132	160	564	4

Note: 'Restraint Used' includes shoulder belt only, lap belt only, both lap and shoulder belts, restraint failed, and helmet worn