

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	396,481	77.7	783	61.2	75,107	320,591	410	62.7	46,579	349,492
Van and Motorhome	20,392	4.0	46	3.6	4,008	16,338	17	2.6	2,268	18,107
Pickup	57,763	11.3	174	13.6	9,801	47,788	84	12.8	4,957	52,722
Small Truck (under 10,000 lbs.)	7,134	1.4	21	1.6	1,216	5,897	8	1.2	662	6,464
Motorcycle	2,934	0.6	110	8.6	2,135	689	104	15.9	2,091	739
Moped	403	0.1	3	0.2	314	86	3	0.5	307	93
Go Cart	32	0.0	1	0.1	13	18	1	0.2	10	21
Snowmobile	204	0.0	9	0.7	126	69	6	0.9	114	84
Off-Road Vehicle/ATV	288	0.1	6	0.5	220	62	6	0.9	207	75
Other	2,155	0.4	9	0.7	392	1,754	4	0.6	191	1,960
Unknown	8,957	1.8	20	1.6	786	8,151	1	0.2	17	8,939
CDL Truck/Bus (breakdown below)	13,343	2.6	98	7.7	2,292	10,953	10	1.5	615	12,718
Total Number of Vehicles	510,086	100.0	1,280	100.0	96,410	412,396	654	100.0	58,018	451,414

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*	7,993	59.9	63	64.3	1,383	6,547	7	70.0	301	7,685
Commercial Vehicle: Group B**	3,218	24.1	25	25.5	586	2,607	3	30.0	209	3,006
Commercial Vehicle: Group C***	419	3.1	0	0.0	48	371	0	0.0	27	392
Other Truck	1,263	9.5	10	10.2	245	1,008	0	0.0	76	1,187
Unknown Truck	448	3.4	0	0.0	30	418	0	0.0	2	446
Total Number of Vehicles	13,341	100.0	98	100.0	2,292	10,951	10	100.0	615	12,716

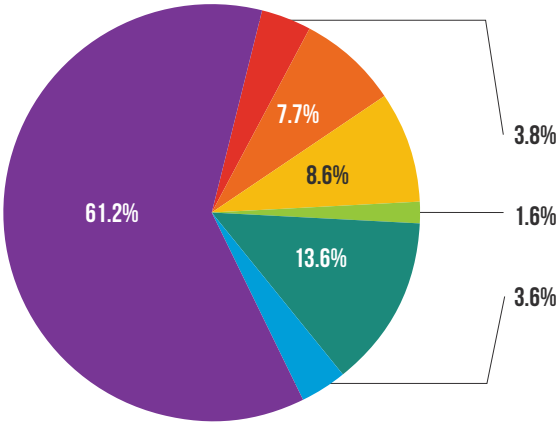
* Group "A" is any vehicle that is towing a vehicle or trailer that has a gross vehicle weight rating (GVWR) over 10,000 lbs.

** 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.

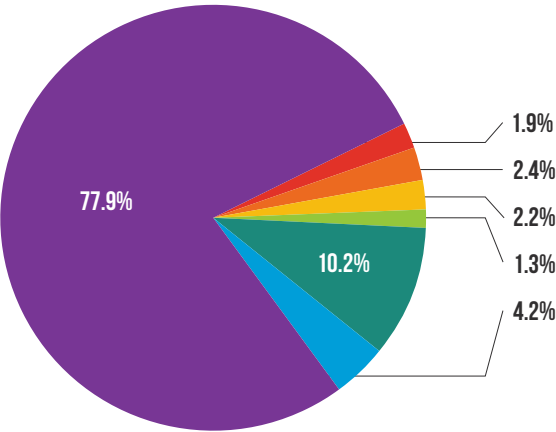
VEHICLE TYPES IN CRASHES BY CRASH SEVERITY

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

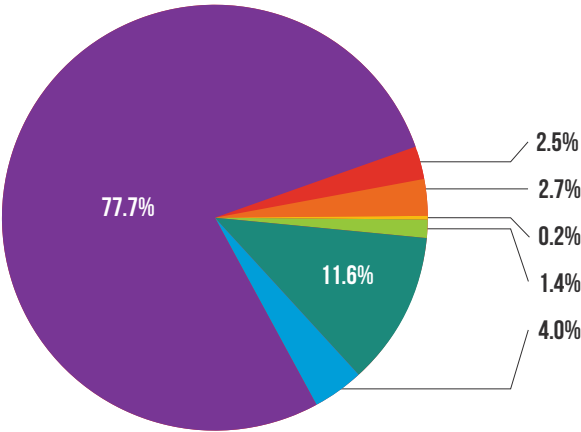


FATAL

The chart shows that 80.0 percent of vehicles involved in fatal crashes are passenger vehicles (passenger cars, station wagons, vans, minivans, motorhomes, pickups, or trucks under 10000 lbs.). Motorcycles have a fatal crash involvement of 8.6 percent.



INJURY



PROPERTY DAMAGE ONLY

As with fatal crashes, injury crashes (77.9%) and property damage only (PDO) crashes (77.7%) 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	271,712	53.3	952	4,454	13,526	36,384	216,396
Turning left	33,471	6.6	68	575	2,281	5,406	25,141
Turning right	14,628	2.9	18	109	461	1,395	12,645
Stopped on roadway	54,512	10.7	35	435	2,014	9,418	42,610
In prior crash	556	0.1	1	21	37	112	385
Changing lanes	13,718	2.7	19	113	312	1,073	12,201
Backing	11,551	2.3	6	24	85	332	11,104
Slowing/stopping on roadway	49,750	9.8	24	329	1,480	7,488	40,429
Slowing/stopping other	710	0.1	1	6	22	108	573
Starting up on roadway	9,365	1.8	9	105	376	1,481	7,394
Starting up other	139	0.0	1	3	5	17	113
Entering parking	465	0.1	0	1	14	32	418
Leaving parking	1,326	0.3	1	24	66	146	1,089
Entering roadway	6,135	1.2	16	84	300	851	4,884
Leaving roadway	683	0.1	7	23	56	104	493
Making U-turn	880	0.2	5	24	47	123	681
Overtaking or passing	3,095	0.6	19	64	131	304	2,577
Avoiding object	593	0.1	1	16	41	67	468
Avoiding animal	797	0.2	2	21	48	105	621
Avoiding pedestrian	102	0.0	6	10	7	26	53
Avoiding vehicle (front/back)	3,711	0.7	17	88	231	502	2,873
Avoiding vehicle (angle)	1,529	0.3	7	37	89	183	1,213
Driverless moving	254	0.0	1	6	10	24	213
Parked	18,043	3.5	33	122	414	872	16,602
Crossing at intersection	17	0.0	0	0	1	3	13
Crossing not at intersection	3	0.0	0	0	0	0	3
Getting on/off vehicle	3	0.0	0	0	0	0	3
In roadway with traffic	13	0.0	1	0	1	1	10
In roadway against traffic	8	0.0	0	0	0	0	8
Standing or lying in roadway	2	0.0	0	0	1	0	1
Pushing/working on vehicle	3	0.0	0	0	0	1	2
Other working in roadway	11	0.0	0	0	0	2	9
Playing in roadway	0	0.0	0	0	0	0	0
In roadway other reason	7	0.0	0	0	0	1	6
Not in roadway	26	0.0	0	1	3	3	19
Other	583	0.1	3	12	28	66	474
Unknown	11,685	2.3	27	69	257	660	10,672
TOTAL	510,086	100.0	1,280	6,776	22,344	67,290	412,396

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	1,983	67.6	2,210	67.8	95	390	729	522	455
Turning left	143	4.9	155	4.8	1	24	54	49	27
Turning right	114	3.9	130	4.0	1	14	40	38	35
Stopped on roadway	124	4.2	141	4.3	1	3	15	29	92
In prior crash	3	0.1	4	0.1	0	0	1	2	1
Changing lanes	58	2.0	65	2.0	2	9	20	12	21
Backing	3	0.1	3	0.1	0	1	0	0	1
Slowing/stopping on roadway	165	5.6	186	5.7	1	19	70	41	54
Slowing/stopping other	5	0.2	7	0.2	0	0	0	5	2
Starting up on roadway	39	1.3	39	1.2	0	2	12	7	17
Starting up other	1	0.0	1	0.0	0	0	1	0	0
Entering parking	2	0.1	3	0.1	0	0	2	1	0
Leaving parking	5	0.2	5	0.2	0	1	0	1	3
Entering roadway	18	0.6	20	0.6	0	4	4	8	4
Leaving roadway	8	0.3	8	0.2	0	2	3	1	2
Making U-turn	3	0.1	4	0.1	0	0	1	1	2
Overtaking or passing	53	1.8	56	1.7	2	13	18	11	12
Avoiding object	9	0.3	10	0.3	0	0	7	1	2
Avoiding animal	25	0.9	25	0.8	1	5	6	7	6
Avoiding pedestrian	1	0.0	1	0.0	0	0	0	0	1
Avoiding vehicle (front/back)	61	2.1	67	2.1	1	7	31	13	15
Avoiding vehicle (angle)	44	1.5	50	1.5	1	10	18	9	12
Driverless moving	0	0.0	0	0.0	0	0	0	0	0
Parked	36	1.2	36	1.1	0	0	1	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	1	0.0	1	0.0	0	0	0	0	1
Unknown	30	1.0	31	1.0	1	6	5	3	5
TOTAL	2,934	100.0	3,258	100.0	107	510	1,038	761	779

*This table includes 63 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	1,004	56.9	10	78	291	415	180
Turning left	46	2.6	0	0	23	15	6
Turning right	9	0.5	0	1	5	3	0
Stopped on roadway	6	0.3	1	1	1	3	0
In prior crash	1	0.1	0	0	1	0	0
Changing lanes	13	0.7	1	1	5	4	2
Backing	0	0.0	0	0	0	0	0
Slowing/stopping on roadway	3	0.2	0	0	2	0	0
Slowing/stopping other	4	0.2	0	0	1	1	2
Starting up on roadway	9	0.5	0	0	3	3	2
Starting up other	2	0.1	0	0	1	0	1
Entering parking	1	0.1	0	0	0	0	1
Leaving parking	1	0.1	0	0	1	0	0
Entering roadway	81	4.6	1	12	25	29	12
Leaving roadway	1	0.1	0	0	0	0	1
Making U-turn	6	0.3	0	0	2	3	1
Overtaking or passing	1	0.1	0	0	0	1	0
Avoiding object	0	0.0	0	0	0	0	0
Avoiding animal	0	0.0	0	0	0	0	0
Avoiding pedestrian	0	0.0	0	0	0	0	0
Avoiding vehicle (front/back)	5	0.3	0	1	1	2	1
Avoiding vehicle (angle)	2	0.1	0	0	1	1	0
Driverless moving	0	0.0	0	0	0	0	0
Parked	0	0.0	0	0	0	0	0
Crossing at intersection	346	19.6	2	24	104	149	59
Crossing not at intersection	80	4.5	2	8	30	20	16
Getting on/off vehicle	1	0.1	0	0	0	1	0
In roadway with traffic	32	1.8	2	5	8	10	5
In roadway against traffic	24	1.4	0	0	7	14	2
Standing or lying in roadway	1	0.1	0	0	0	1	0
Pushing/working on vehicle	0	0.0	0	0	0	0	0
Other working in roadway	0	0.0	0	0	0	0	0
Playing in roadway	3	0.2	1	0	1	1	0
In roadway other reason	5	0.3	0	0	2	2	0
Not in roadway	22	1.2	0	2	11	5	4
Other	24	1.4	0	0	9	12	3
Unknown	30	1.7	1	2	7	6	5
TOTAL	1,763	100.0	21	135	542	701	303

*Includes 61 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	92	3.8	0	7	29	38	15
Turning left	4	0.2	0	0	2	0	2
Turning right	0	0.0	0	0	0	0	0
Stopped on roadway	7	0.3	0	0	3	3	0
In prior crash	2	0.1	0	0	1	1	0
Changing lanes	1	0.0	0	0	0	0	0
Backing	0	0.0	0	0	0	0	0
Slowing/stopping on roadway	1	0.0	0	0	0	1	0
Slowing/stopping other	0	0.0	0	0	0	0	0
Starting up on roadway	0	0.0	0	0	0	0	0
Starting up other	0	0.0	0	0	0	0	0
Entering parking	0	0.0	0	0	0	0	0
Leaving parking	0	0.0	0	0	0	0	0
Entering roadway	14	0.6	1	0	6	5	0
Leaving roadway	1	0.0	0	1	0	0	0
Making U-turn	0	0.0	0	0	0	0	0
Overtaking or passing	2	0.1	0	0	2	0	0
Avoiding object	1	0.0	0	0	1	0	0
Avoiding animal	0	0.0	0	0	0	0	0
Avoiding pedestrian	0	0.0	0	0	0	0	0
Avoiding vehicle (front/back)	0	0.0	0	0	0	0	0
Avoiding vehicle (angle)	0	0.0	0	0	0	0	0
Driverless moving	2	0.1	0	0	1	1	0
Parked	3	0.1	0	0	0	2	1
Crossing at intersection	737	30.6	25	63	203	358	75
Crossing not at intersection	531	22.1	36	106	152	187	32
Getting on/off vehicle	36	1.5	1	10	9	14	2
In roadway with traffic	263	10.9	28	46	61	90	32
In roadway against traffic	74	3.1	4	8	22	32	7
Standing or lying in roadway	154	6.4	20	42	33	47	12
Pushing/working on vehicle	31	1.3	4	8	3	15	0
Other working in roadway	29	1.2	0	3	7	11	6
Playing in roadway	19	0.8	0	4	5	9	0
In roadway other reason	162	6.7	15	27	48	50	14
Not in roadway	111	4.6	2	20	32	44	11
Other	82	3.4	3	12	27	24	12
Unknown	47	2.0	9	8	9	9	3
TOTAL	2,406	100.0	148	365	656	941	224

*Includes 72 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	2,387	0.5	0	45	192	367	1,783
Cross center/median	439	0.1	3	16	40	63	317
Ran off road left	826	0.2	0	14	46	97	669
Ran off road right	1,508	0.3	3	24	76	143	1,262
Re-enter road	88	0.0	1	0	5	13	69
Overturn	7,980	1.6	79	375	1,168	1,745	4,613
Separation of units	165	0.0	0	1	3	12	149
Fire/explosion	323	0.1	10	10	10	10	283
Immersion	50	0.0	0	0	3	5	42
Jackknife	283	0.1	0	3	3	20	257
Downhill runaway	30	0.0	0	1	0	6	23
Cargo loss/shift	428	0.1	0	2	4	17	405
Individual fell off	378	0.1	15	108	141	70	44
Other noncollision	1,424	0.3	1	26	85	153	1,159
SUBTOTAL	16,309	3.2	112	625	1,776	2,721	11,075

HAD A COLLISION WITH NONFIXED OBJECT	MOTOR VEHICLES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Vehicles	% of Total		A	B	C	
Pedestrian	1,977	0.4	147	307	549	762	212
Bicycle / Pedalcycle	1,534	0.3	21	121	485	590	317
Motor vehicle in transport	381,163	74.7	760	4,612	16,394	56,713	302,684
Parked motor vehicle	16,533	3.2	23	95	305	753	15,357
Railway train	59	0.0	3	3	5	6	42
Animal	46,469	9.1	5	55	210	538	45,661
Other nonfixed objects	4,632	0.9	16	44	118	228	4,226
SUBTOTAL	452,367	88.7	975	5,237	18,066	59,590	368,499

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	422	0.1	7	11	23	67	314
Bridge parapet end	67	0.0	0	2	2	7	56
Bridge rail	455	0.1	1	5	12	60	377
Guardrail face	3,729	0.7	6	57	143	433	3,090
Guardrail end	539	0.1	4	11	39	63	422
Median barrier	5,055	1.0	7	57	252	799	3,940
Highway traffic sign post	2,518	0.5	5	11	37	93	2,372
Highway signal post	210	0.0	0	1	8	14	187
Luminaire/light support	546	0.1	3	10	31	53	449
Utility pole	2,808	0.6	13	79	236	487	1,993
Other pole	942	0.2	0	15	28	84	815
Culvert	426	0.1	8	14	44	58	302
Curb	1,457	0.3	1	23	61	120	1,252
Ditch	5,782	1.1	11	118	337	709	4,607
Embankment	1,722	0.3	6	32	90	187	1,407
Fence	799	0.2	1	5	19	68	706
Mailbox	1,699	0.3	0	4	21	48	1,626
Tree	7,258	1.4	102	362	799	1,118	4,877
Rail crossing signal	80	0.0	0	1	2	3	74
Building	556	0.1	9	27	60	93	367
Traffic island	47	0.0	0	1	3	6	37
Fire hydrant	393	0.1	1	2	22	35	333
Impact attenuator	62	0.0	1	0	4	7	50
Other fixed object	2,978	0.6	7	55	198	258	2,460
SUBTOTAL	40,550	7.9	193	903	2,471	4,870	32,113

	MOTOR VEHICLES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Vehicles	% of Total		A	B	C	
Unknown Event	860	0.2	0	11	31	109	709
MOST HARMFUL EVENT TOTAL	510,086	100.0	1,280	6,776	22,344	67,290	412,396

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	718	0.1	0	8	53	111	546
Lights/reflectors	96	0.0	2	4	6	12	72
Steering	163	0.0	1	8	10	22	122
Tires/wheels	535	0.1	2	11	29	64	429
Windows	17	0.0	0	0	2	0	15
Other	509	0.1	3	13	30	56	407
None or Unknown	508,048	99.6	1,272	6,732	22,214	67,025	410,805
TOTAL	510,086	100.0	1,280	6,776	22,344	67,290	412,396

DRIVER HAZARDOUS ACTION

HAZARDOUS ACTION	MOTOR VEHICLES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Vehicles	% of Total		A	B	C	
None	260,864	51.1	512	2,985	10,129	32,606	214,632
Speed too fast	37,714	7.4	160	771	2,109	4,987	29,687
Speed too slow	379	0.1	1	8	20	54	296
Failed to yield	43,800	8.6	87	728	2,854	7,205	32,926
Disregard traffic control	9,591	1.9	52	283	891	2,420	5,945
Drove wrong way	454	0.1	16	14	36	89	299
Drove left of center	2,532	0.5	62	127	209	391	1,743
Improper passing	2,560	0.5	6	23	62	202	2,267
Improper lane use	10,588	2.1	11	67	213	723	9,574
Improper turn	4,706	0.9	6	56	141	480	4,023
Improper/no signal	777	0.2	2	12	21	82	660
Improper backing	8,169	1.6	3	9	30	176	7,951
Unable to stop in assured clear distance	69,786	13.7	32	455	2,197	11,140	55,962
Reckless driving	2,393	0.5	44	149	268	390	1,542
Careless/negligent driving	12,470	2.4	65	437	1,189	1,948	8,831
Other	17,750	3.5	80	334	1,033	2,172	14,131
Unknown	25,553	5.0	141	318	942	2,225	21,927
TOTAL	510,086	100.0	1,280	6,776	22,344	67,290	412,396

MICHIGAN BICYCLE CRASHES

2014 BICYCLE CRASH INFORMATION



In 2014, there were 1,749 bicyclists involved in motor vehicles crashes, with 21 bicyclists killed and 1,378 injured. More bicyclists within the 55-64 years of age group died than any other age group, with 6 killed (28.6%). The 16-20 age group had the greatest percentage of total fatalities and injuries (17.2%).

BICYCLE HELMET USE AND INJURY SEVERITY

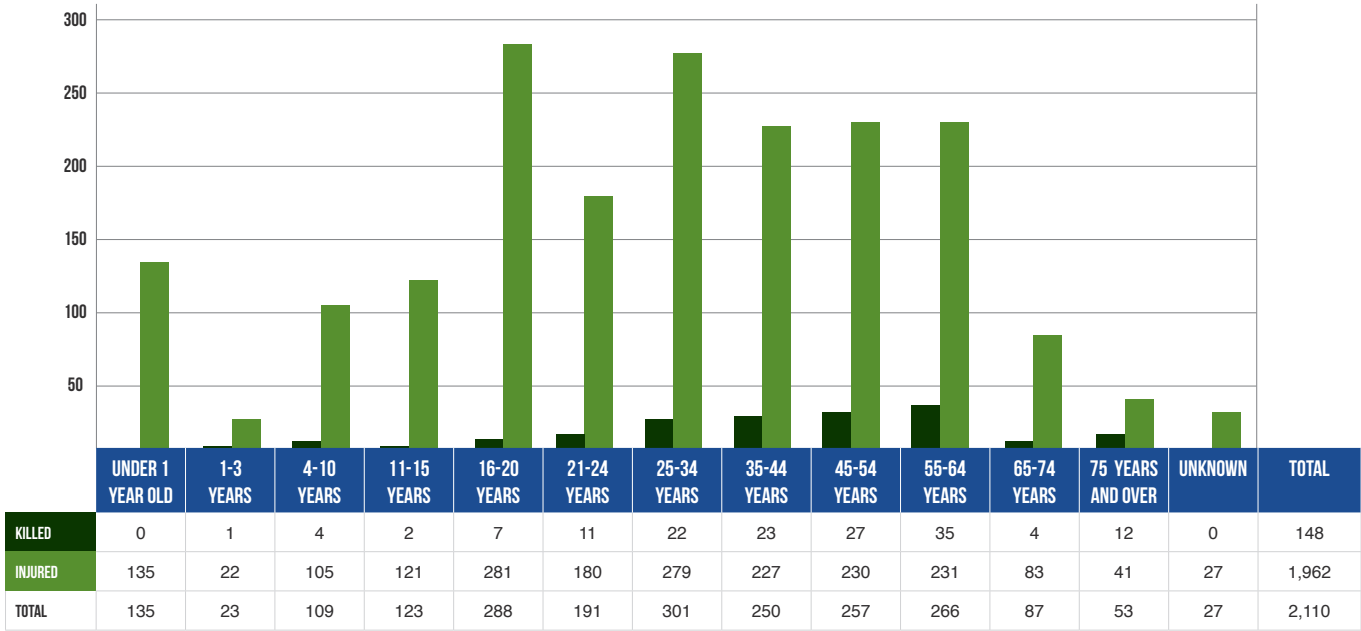
HELMET USE	FATALITY	INJURY			NO INJURY
		A	B	C	
Worn	5	14	74	80	31
Not Worn	10	65	259	334	109
Unknown	6	56	209	287	163
Total	21	135	542	701	303

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

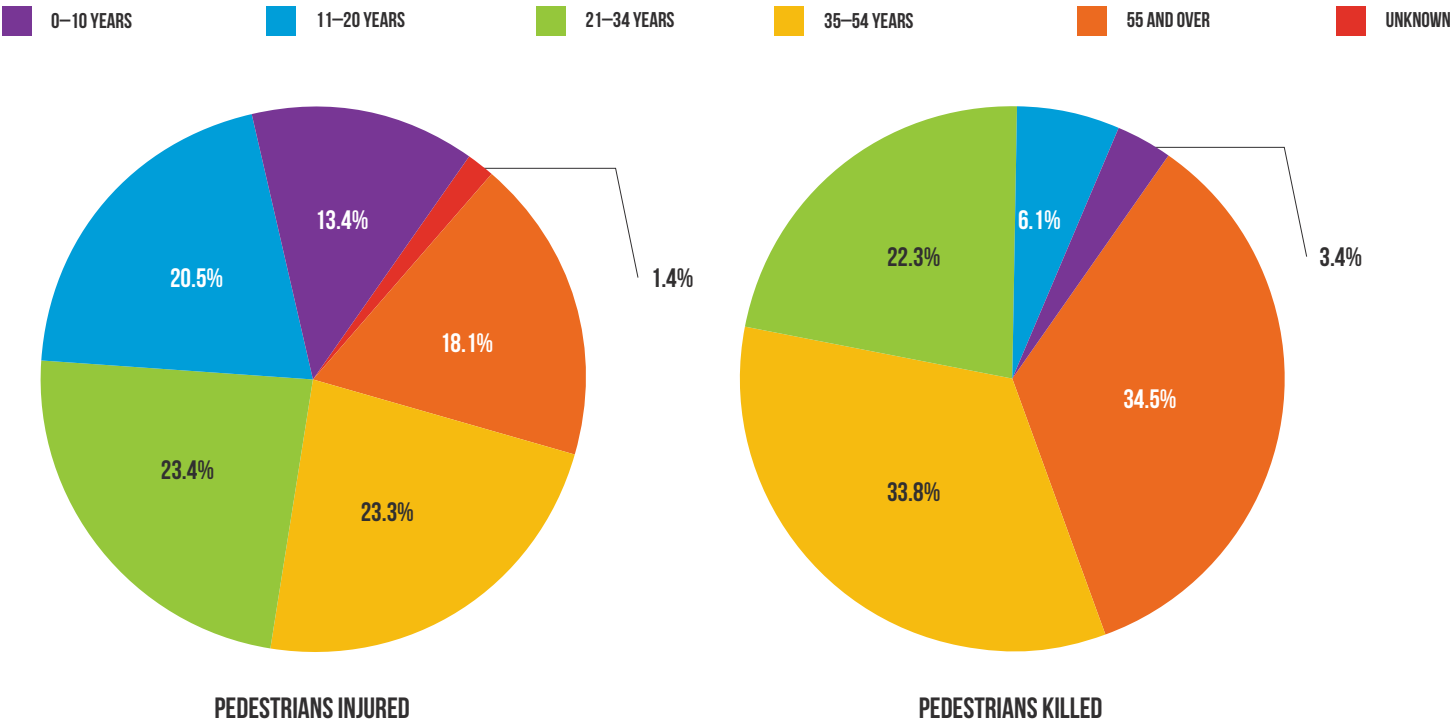
The National Center for Statistics and Analysis of the National Highway Traffic Safety Administration cites a study by the Centers for Disease Control [12]: "Bicycle helmets are 85 to 88 percent effective in mitigating head and brain injuries in all types of bicycle accidents, making the use of helmets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

MICHIGAN PEDESTRIAN CRASHES

2014 PEDESTRIAN FATALITIES AND INJURIES



In 2014, there were 2,406 pedestrians involved in motor vehicles crashes, with 148 pedestrians killed and 1,962 injured. More pedestrians within the 55-64 years of age group died than any other age group, with 35 killed (23.6%). The 16-20 age group had the greatest number of injuries (14.3%), and the 25-34 age group had the greatest percentage of total fatalities and injuries (14.3%).



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	4	2.0	0	0	0	2	2
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	0.5	0	0	1	0	0
Re-enter road	0	0.0	0	0	0	0	0
Overturn	30	14.7	1	4	4	13	8
Separation of units	0	0.0	0	0	0	0	0
Fire/explosion	4	2.0	0	0	0	0	4
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	9	4.4	0	3	3	3	0
Other noncollision	2	1.0	0	0	1	1	0
SUBTOTAL	50	24.5	1	7	9	19	14

COLLISION WITH A NONFIXED OBJECT	SNOWMOBILES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Snowmobiles	% of Total		A	B	C	
Pedestrian	3	1.5	0	1	1	0	1
Bicycle / pedalcycle	0	0.0	0	0	0	0	0
Motor vehicle in transport	84	41.2	4	10	12	19	39
Parked motor vehicle	6	2.9	1	2	1	1	1
Railway train	0	0.0	0	0	0	0	0
Animal	6	2.9	0	1	0	2	3
Other nonfixed objects	6	2.9	2	1	0	2	1
SUBTOTAL	105	51.5	7	15	14	24	45

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	1	0.5	0	0	0	1	0
Bridge parapet end	0	0.0	0	0	0	0	0
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	0	0.0	0	0	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	1	0.5	0	0	0	0	1
Other pole	2	1.0	0	0	1	1	0
Culvert	0	0.0	0	0	0	0	0
Curb	1	0.5	0	0	0	1	0
Ditch	3	1.5	0	1	1	1	0
Embankment	5	2.5	0	2	3	0	0
Fence	0	0.0	0	0	0	0	0
Mailbox	2	1.0	0	0	0	0	2
Tree	27	13.2	1	9	6	5	6
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	7	3.4	0	1	0	5	1
SUBTOTAL	49	24.0	1	13	11	14	10

	SNOWMOBILES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Snowmobiles	% of Total		A	B	C	
Unknown Event	0	0.0	0	0	0	0	0
MOST HARMFUL EVENT TOTAL	204	100.0	9	35	34	57	69

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 204 snowmobiles were reported in crashes on Michigan public roadways during 2014, resulting in nine fatal crashes. An additional 126 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	10	3.5	0	1	8	1	0
Cross center/median	0	0.0	0	0	0	0	0
Ran off road left	2	0.7	0	1	1	0	0
Ran off road right	3	1.0	0	2	1	0	0
Re-enter road	0	0.0	0	0	0	0	0
Overturn	62	21.5	2	21	25	12	2
Separation of units	0	0.0	0	0	0	0	0
Fire/explosion	1	0.3	0	0	0	0	1
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	39	13.5	0	12	16	10	1
Other noncollision	2	0.7	0	0	0	1	1
SUBTOTAL	119	41.3	2	37	51	24	5

COLLISION WITH A NONFIXED OBJECT	ORV/ATV		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of ORV/ATVs	% 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	92	31.9	2	13	14	16	47
Parked motor vehicle	3	1.0	0	0	0	0	3
Railway train	1	0.3	0	0	1	0	0
Animal	6	2.1	0	2	1	1	2
Other nonfixed objects	3	1.0	0	1	1	0	1
SUBTOTAL	105	36.5	2	16	17	17	53

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	0	0.0	0	0	0	0	0
Bridge rail	0	0.0	0	0	0	0	0
Guardrail face	1	0.3	0	1	0	0	0
Guardrail end	2	0.7	0	0	1	1	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	1	0.3	1	0	0	0	0
Other pole	2	0.7	0	0	0	1	1
Culvert	0	0.0	0	0	0	0	0
Curb	1	0.3	0	1	0	0	0
Ditch	5	1.7	0	2	2	1	0
Embankment	1	0.3	0	0	0	1	0
Fence	1	0.3	0	0	1	0	0
Mailbox	4	1.4	0	1	2	0	1
Tree	34	11.8	0	17	12	3	2
Rail crossing signal	0	0.0	0	0	0	0	0
Building	1	0.3	1	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	8	2.8	0	2	4	2	0
SUBTOTAL	62	21.5	2	25	22	9	4

	ORV/ATV		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of ORV/ATVs	% of Total		A	B	C	
Unknown Event	2	0.7	0	0	1	1	0
MOST HARMFUL EVENT TOTAL	288	100.0	6	78	91	51	62

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 288 off-road/all-terrain vehicles were reported in crashes on Michigan public roadways during 2014, resulting in six fatal crashes. An additional 220 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	56	27.5	2	6	10	15	23
Speed too fast	50	24.5	3	16	12	15	4
Speed too slow	0	0.0	0	0	0	0	0
Failed to yield	32	15.7	0	4	3	11	14
Disregard traffic control	5	2.5	0	1	0	3	1
Drove wrong way	1	0.5	0	0	0	0	1
Drove left of center	2	1.0	0	0	0	0	2
Improper passing	0	0.0	0	0	0	0	0
Improper lane use	2	1.0	0	0	0	1	1
Improper turn	1	0.5	0	0	0	1	0
Improper/no signal	0	0.0	0	0	0	0	0
Improper backing	0	0.0	0	0	0	0	0
Unable to stop in assured clear distance	13	6.4	2	2	2	0	7
Reckless driving	3	1.5	0	0	1	1	1
Careless/negligent driving	12	5.9	0	4	1	2	5
Other	14	6.9	1	1	3	5	4
Unknown	13	6.4	1	1	2	3	6
TOTAL	204	100.0	9	35	34	57	69

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	51	17.7	0	17	9	10	15
Speed too fast	88	30.6	3	26	37	16	6
Speed too slow	0	0.0	0	0	0	0	0
Failed to yield	30	10.4	1	2	3	8	16
Disregard traffic control	1	0.3	0	0	1	0	0
Drove wrong way	1	0.3	0	0	0	0	1
Drove left of center	4	1.4	1	2	0	0	1
Improper passing	0	0.0	0	0	0	0	0
Improper lane use	1	0.3	0	0	0	0	1
Improper turn	3	1.0	0	0	2	1	0
Improper/no signal	2	0.7	0	1	1	0	0
Improper backing	0	0.0	0	0	0	0	0
Unable to stop in assured clear distance	10	3.5	0	3	3	2	2
Reckless driving	9	3.1	0	4	5	0	0
Careless/negligent driving	35	12.2	0	10	17	2	6
Other	34	11.8	0	9	9	9	7
Unknown	19	6.6	1	4	4	3	7
TOTAL	288	100.0	6	78	91	51	62

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	2013	2014	% CHANGE
Crashes	207	212	2.4%
Fatalities	2	1	-50.0%
Injuries	74	76	2.7%

A total of 212 crashes involving farm equipment were reported on Michigan roadways during 2014. Of those crashes, one was fatal with one operator of the motorcycle killed.

MICHIGAN VEHICLE-TRAIN CRASHES

VEHICLE-TRAIN CRASHES	2013	2014	% CHANGE
Crashes	58	66	13.8%
Fatalities	2	5	150.0%
Injuries	30	27	-10.0%

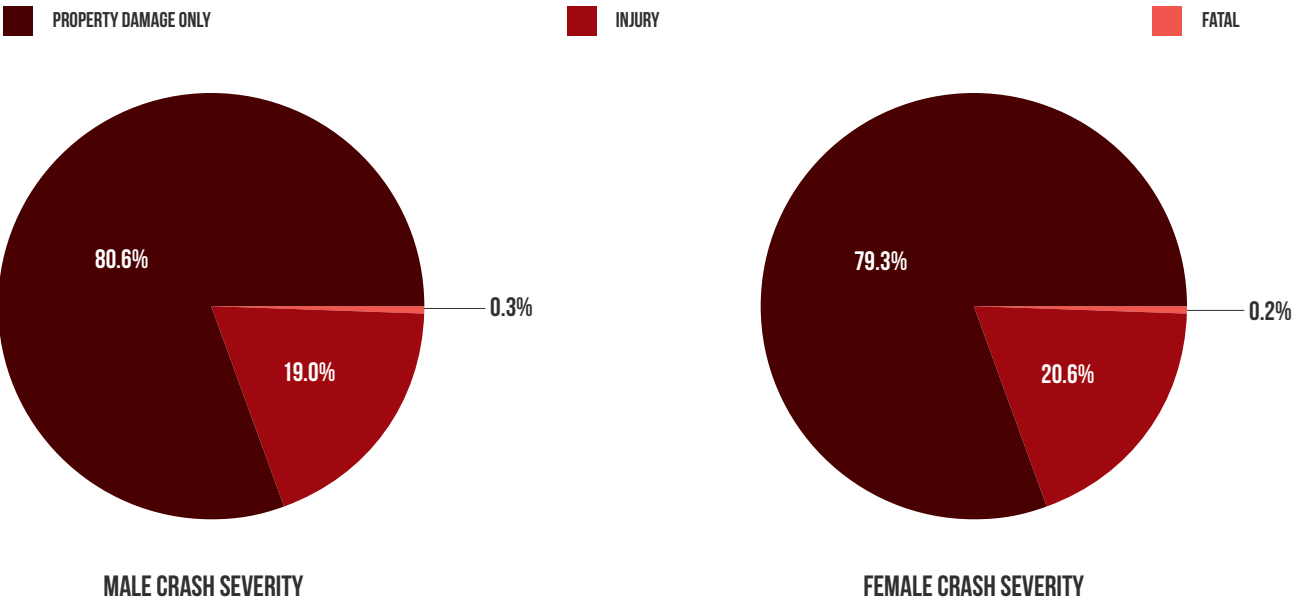
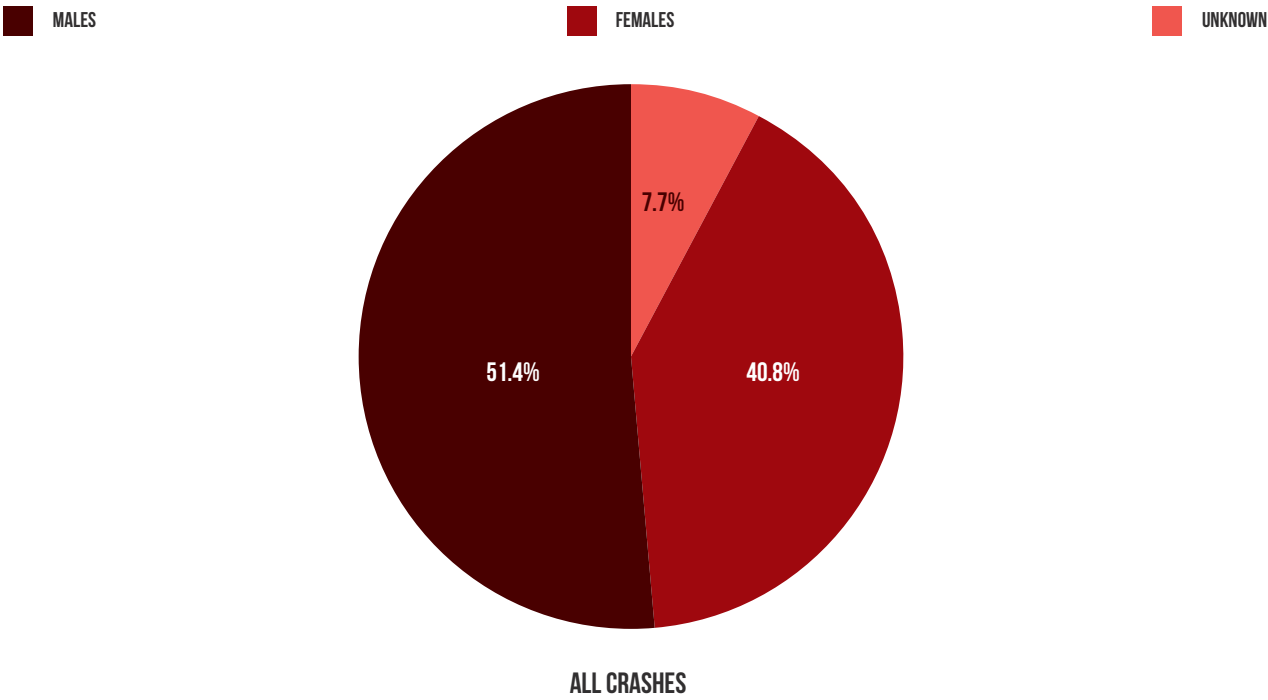
A total of 66 crashes involving trains were reported in Michigan during 2014. Of those crashes, three were fatal with three persons killed, one driver of passenger cars and two drivers of truck/bus over 10,000 lbs.

MICHIGAN MOTORCYCLE CRASHES

MOTORCYCLE DATA	2013	2014	% CHANGE
Motorcycle Registrations	267,292	259,325	-3.0
Motorcycles in Crashes	3,186	2,934	-7.9
Motorcyclist Deaths	128	107	-16.4
Motorcyclists Injured	2,497	2,309	-7.5
Death Rate based on 10,000 motorcycle registrations	4.79	4.13	-13.8
Estimated Mileage based on 3,000 miles per motorcycle	801,876,000	777,975,000	-3.0
Death Rate based on deaths per 100 million vehicle miles traveled	15.96	13.75	-13.8

Motorcycles were involved in 1.0 percent of all traffic crashes in Michigan in 2014. Injuries were proportionately more severe to motorcyclists than to persons in motor vehicles.

DRIVER GENDER INFORMATION



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 (0.3% 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	48,375	---	779	3	19	4,437	509	1	463	7
16	79,057	---	6,868	7	7	1,231	54	0	64	1
17	91,913	---	9,956	22	14	1,502	61	1	73	3
18	89,303	---	12,306	29	24	1,886	50	0	67	3
19	102,949	---	13,024	27	19	1,994	60	0	74	0
20	112,222	---	12,781	30	19	1,833	56	0	59	2
21-24	486,283	---	50,830	156	89	7,495	154	1	222	12
25-29	576,027	---	49,514	124	62	6,729	127	1	184	17
30-34	542,548	---	41,876	111	61	5,499	75	1	150	8
35-39	522,888	---	37,625	74	35	4,643	64	1	136	14
40-44	563,043	---	39,778	96	44	5,033	59	1	139	12
45-49	603,948	---	39,520	87	45	5,050	89	1	131	5
50-54	673,213	---	40,050	104	55	5,074	124	4	146	23
55-59	679,347	---	35,789	77	40	4,707	96	3	172	22
60-64	598,741	---	26,797	67	34	3,622	69	3	112	13
65-69	486,688	---	18,823	61	36	2,591	27	1	55	1
70-74	346,356	---	12,235	46	34	1,846	11	1	43	3
75-79	234,291	---	7,693	28	23	1,213	10	1	27	5
80-84	159,439	---	4,993	32	25	797	4	0	10	2
85+	133,574	---	3,612	26	22	716	2	0	17	5
Unknown	---	---	45,237	73	0	140	62	0	62	0
TOTAL	7,130,205	9,909,877	510,086	1,280	707	68,038	1,763	21	2,406	158

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

AGE	LICENSED DRIVERS	TOTAL DRIVERS IN CRASHES*	CRASH RATE
0-15	48,375	779	0.016
16	79,057	6,868	0.087
17	91,913	9,956	0.108
18	89,303	12,306	0.138
19	102,949	13,024	0.127
20	112,222	12,781	0.114
21-24	486,283	50,830	0.105
25-29	576,027	49,514	0.086
30-34	542,548	41,876	0.077
35-39	522,888	37,625	0.072
40-44	563,043	39,778	0.071
45-49	603,948	39,520	0.065
50-54	673,213	40,050	0.059
55-59	679,347	35,789	0.053
60-64	598,741	26,797	0.045
65-69	486,688	18,823	0.039
70-74	346,356	12,235	0.035
75-79	234,291	7,693	0.033
80-84	159,439	4,993	0.031
85-89	95,631	2,738	0.029
90-94	32,861	773	0.024
95-99	4,810	98	0.020
100+	272	3	0.011
Total	7,130,205	464,849	---

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

* Excludes 45,237 drivers with unknown age

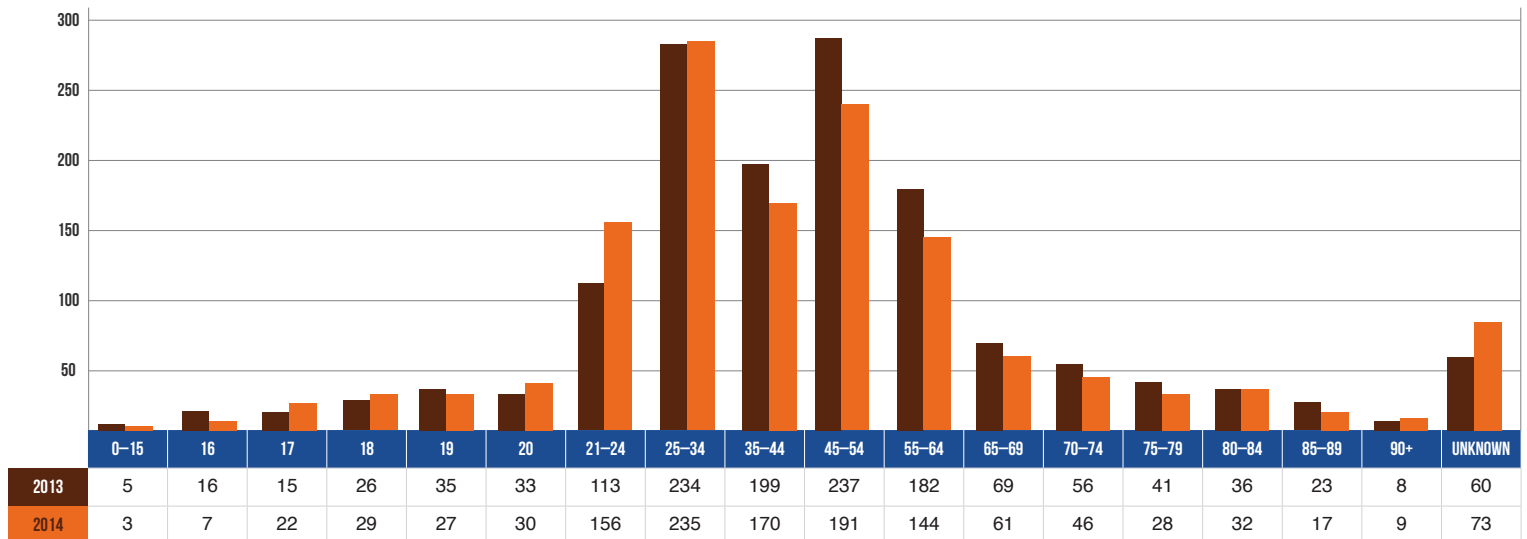
Licensed drivers age 18 have the highest crash rate at 0.138 (total crashes in age group divided by total number of licensed drivers in age group). The lower crash rates of the older groups (per licensed driver) may reflect reduced driving and exposure to the risk of a crash.

DRIVER AGE

AGE OF DRIVERS IN FATAL CRASHES	2013	2014	PERCENT CHANGE	PERCENT 2014 FATAL CRASH INVOLVEMENT	PERCENT ACTIVE DRIVING POPULATION*
15 years and under	5	3	-40.0	0.2	0.7
16 years	16	7	-56.2	0.5	1.1
17 years	15	22	46.7	1.7	1.3
18 years	26	29	11.5	2.3	1.3
19 years	35	27	-22.9	2.1	1.4
20 years	33	30	-9.1	2.3	1.6
21 - 24 years	113	156	38.1	12.2	6.8
25 - 34 years	234	235	0.4	18.4	15.7
35 - 44 years	199	170	-14.6	13.3	15.2
45 - 54 years	237	191	-19.4	14.9	17.9
55 - 64 years	182	144	-20.9	11.2	17.9
65 - 69 years	69	61	-11.6	4.8	6.8
70 - 74 years	56	46	-17.9	3.6	4.9
75 - 79 years	41	28	-31.7	2.2	3.3
80 - 84 years	36	32	-11.1	2.5	2.2
85 - 89 years	23	17	-26.1	1.3	1.3
90 years and over	8	9	12.5	0.7	0.5
Unknown	60	73	21.7	5.7	---
TOTAL	1,388	1,280	-7.8	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	424,119	575	5,031	18,335	58,228	341,950
Had Been Drinking	8,840	136	547	1,217	1,552	5,388
Illegal Drug Use	882	13	73	113	212	471
Sick	968	6	56	116	315	475
Fatigue	1,064	5	37	112	207	703
Asleep	1,129	3	44	129	235	718
Medication	798	4	39	100	204	451
Driver Distracted	4,734	9	98	400	943	3,284
Using Cellular Phone	663	2	23	63	151	424
Unknown	28,751	471	650	974	2,836	23,820

Note: 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.

*Drivers may have more than one condition including "Appeared Normal"

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*	445,104	87.3	290	53.7	2,401	9,880	34,192	397,994	347
Restraint Not Used	6,380	1.3	188	34.8	542	787	903	3,880	80
Unknown	58,602	11.5	62	11.5	248	501	1,149	15,910	40,732
TOTAL	510,086	100.0	540	100.0	3,191	11,168	36,244	417,784	41,159
DRINKING DRIVERS ONLY									
Restraint Used*	6,341	76.2	38	42.2	172	577	785	4,765	4
Restraint Not Used	675	8.1	41	45.6	144	162	132	195	1
Unknown	1,305	15.7	11	12.2	53	131	145	935	30
TOTAL	8,321	100.0	90	100.0	369	870	1,062	5,895	35
DRUGGED DRIVERS ONLY									
Restraint Used*	811	78.7	25	54.3	37	86	151	512	0
Restraint Not Used	74	7.2	17	37.0	12	11	14	20	0
Unknown	146	14.2	4	8.7	7	13	20	97	5
TOTAL	1,031	100.0	46	100.0	56	110	185	629	5
DRINKING AND DRUGGED DRIVERS ONLY									
Restraint Used*	624	69.6	10	29.4	30	79	82	423	0
Restraint Not Used	105	11.7	18	52.9	20	23	17	27	0
Unknown	168	18.7	6	17.6	14	18	26	99	5
TOTAL	897	100.0	34	100.0	64	120	125	549	5

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