

## UPPER PENINSULA 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	8,796	66.2	12	38.7	1,375	7,409	9	47.4	926	7,861
Van and Motorhome	574	4.3	1	3.2	82	491	0	0.0	54	520
Pickup	2,806	21.1	7	22.6	424	2,375	4	21.1	225	2,577
Small Truck (under 10,000 lbs.)	242	1.8	0	0.0	27	215	0	0.0	15	227
Motorcycle	128	1.0	2	6.5	94	32	2	10.5	91	35
Moped	14	0.1	1	3.2	10	3	1	5.3	10	3
Go Cart	2	0.0	0	0.0	2	0	0	0.0	2	0
Snowmobile	63	0.5	1	3.2	41	21	1	5.3	37	25
Off-Road Vehicle/ATV	48	0.4	1	3.2	37	10	1	5.3	32	15
Other	53	0.4	0	0.0	10	43	0	0.0	3	50
Unknown	194	1.5	0	0.0	7	187	0	0.0	0	194
CDL Truck/Bus (breakdown below)	367	2.8	6	19.4	62	299	1	5.3	18	348
Total Number of Vehicles	13,287	100.0	31	100.0	2,171	11,085	19	100.0	1,413	11,855

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*	226	61.6	2	33.3	34	190	0	0.0	9	217
Commercial Vehicle: Group B**	92	25.1	2	33.3	20	70	1	100.0	6	85
Commercial Vehicle: Group C***	17	4.6	0	0.0	1	16	0	0.0	1	16
Other Truck	27	7.4	2	33.3	6	19	0	0.0	2	25
Unknown Truck	5	1.4	0	0.0	1	4	0	0.0	0	5
Total Number of Vehicles	367	100.0	6	100.0	62	299	1	100.0	18	348

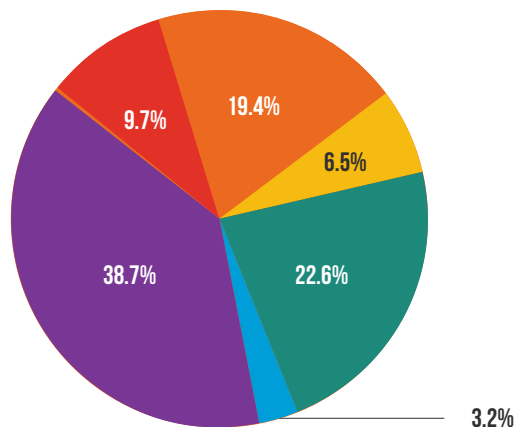
\* Group "A" is any vehicle that is towing a vehicle or trailer that has a gross vehicle weight rating (GVWR) over 10,000 lbs.

\*\* 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.

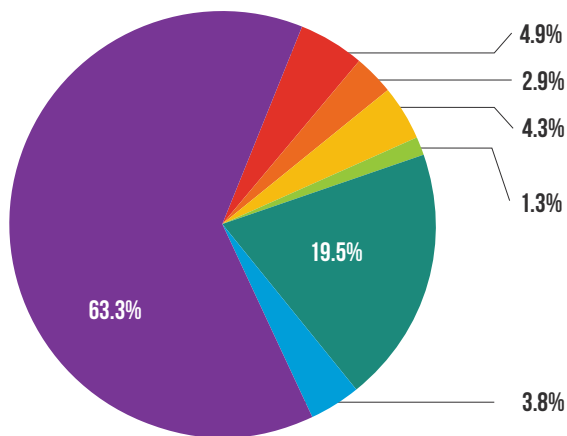
## UPPER PENINSULA VEHICLE TYPES IN CRASHES BY CRASH SEVERITY

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

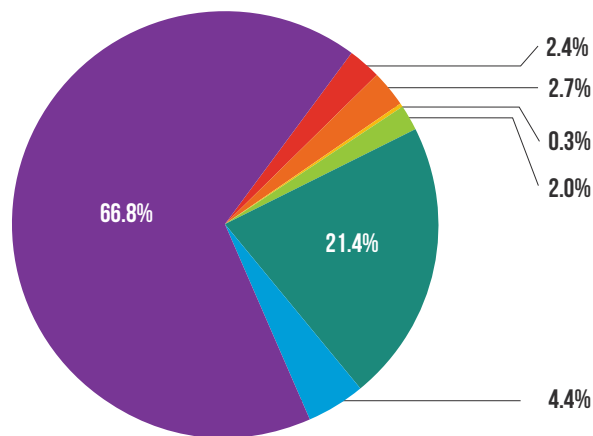


FATAL

The top chart shows that 64.5 percent of vehicles involved in fatal crashes in the Upper Peninsula are passenger vehicles (passenger cars, station wagons, vans, minivans, motorhomes, pickups, or trucks under 10000 lbs.). Motorcycles have a fatal crash involvement of 6.5 percent.



INJURY



PROPERTY DAMAGE ONLY

As with fatal crashes, injury crashes (63.3%) and property damage only (PDO) crashes (66.8%) are represented primarily by cars and pickups.

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

## UPPER PENINSULA ACTION PRIOR TO CRASH

DRIVER ACTION	VEHICLES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number	% of Total		A	B	C	
Going straight ahead	8,311	62.5	25	168	316	870	6,932
Turning left	735	5.5	3	20	54	122	536
Turning right	391	2.9	0	4	15	36	336
Stopped on roadway	694	5.2	0	5	21	112	556
In prior crash	5	0.0	0	0	1	0	4
Changing lanes	150	1.1	0	0	2	16	132
Backing	491	3.7	0	1	3	18	469
Slowing/stopping on roadway	714	5.4	0	11	18	107	578
Slowing/stopping other	24	0.2	0	2	1	4	17
Starting up on roadway	247	1.9	0	3	9	33	202
Starting up other	9	0.1	0	0	0	2	7
Entering parking	36	0.3	0	0	2	0	34
Leaving parking	56	0.4	0	0	1	3	52
Entering roadway	166	1.2	2	2	9	26	127
Leaving roadway	22	0.2	0	1	3	4	14
Making U-turn	17	0.1	0	1	1	1	14
Overtaking or passing	122	0.9	0	3	2	16	101
Avoiding object	19	0.1	0	0	3	1	15
Avoiding animal	87	0.7	0	2	6	6	73
Avoiding pedestrian	2	0.0	0	1	0	0	1
Avoiding vehicle (front/back)	110	0.8	1	3	12	14	80
Avoiding vehicle (angle)	46	0.3	0	3	2	5	36
Driverless moving	12	0.1	0	2	0	2	8
Parked	695	5.2	0	2	11	40	642
Crossing at intersection	1	0.0	0	0	0	0	1
Crossing not at intersection	0	0.0	0	0	0	0	0
Getting on/off vehicle	0	0.0	0	0	0	0	0
In roadway with traffic	0	0.0	0	0	0	0	0
In roadway against traffic	0	0.0	0	0	0	0	0
Standing or lying in roadway	0	0.0	0	0	0	0	0
Pushing/working on vehicle	1	0.0	0	0	0	0	1
Other working in roadway	0	0.0	0	0	0	0	0
Playing in roadway	0	0.0	0	0	0	0	0
In roadway other reason	0	0.0	0	0	0	0	0
Not in roadway	1	0.0	0	0	1	0	0
Other	8	0.1	0	0	0	0	8
Unknown	115	0.9	0	0	2	4	109
TOTAL	13,287	100.0	31	234	495	1,442	11,085

## UPPER PENINSULA 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	82	64.1	94	64.4	3	27	27	19	18
Turning left	11	8.6	11	7.5	0	4	3	3	1
Turning right	5	3.9	6	4.1	0	1	1	1	3
Stopped on roadway	4	3.1	5	3.4	0	0	1	1	3
In prior crash	0	0.0	0	0.0	0	0	0	0	0
Changing lanes	1	0.8	1	0.7	0	0	0	0	1
Backing	1	0.8	1	0.7	0	0	0	0	0
Slowing/stopping on roadway	4	3.1	4	2.7	0	0	1	1	2
Slowing/stopping other	0	0.0	0	0.0	0	0	0	0	0
Starting up on roadway	1	0.8	1	0.7	0	0	0	1	0
Starting up other	0	0.0	0	0.0	0	0	0	0	0
Entering parking	1	0.8	2	1.4	0	0	1	1	0
Leaving parking	0	0.0	0	0.0	0	0	0	0	0
Entering roadway	0	0.0	0	0.0	0	0	0	0	0
Leaving roadway	1	0.8	1	0.7	0	1	0	0	0
Making U-turn	1	0.8	2	1.4	0	0	0	0	2
Overtaking or passing	1	0.8	1	0.7	0	1	0	0	0
Avoiding object	0	0.0	0	0.0	0	0	0	0	0
Avoiding animal	2	1.6	2	1.4	0	1	1	0	0
Avoiding pedestrian	0	0.0	0	0.0	0	0	0	0	0
Avoiding vehicle (front/back)	8	6.2	10	6.8	0	2	1	1	6
Avoiding vehicle (angle)	2	1.6	2	1.4	0	1	0	0	1
Driverless moving	0	0.0	0	0.0	0	0	0	0	0
Parked	3	2.3	3	2.1	0	0	0	0	0
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	0	0.0	0	0.0	0	0	0	0	0
Unknown	0	0.0	0	0.0	0	0	0	0	0
<b>TOTAL</b>	<b>128</b>	<b>100.0</b>	<b>146</b>	<b>100.0</b>	<b>3</b>	<b>38</b>	<b>36</b>	<b>28</b>	<b>37</b>

\*Includes four motorcyclists (drivers and passengers) with unknown injury severity

## UPPER PENINSULA ACTION PRIOR TO CRASH (CONTINUED)

BICYCLIST ACTION	BICYCLISTS*		FATALITY	INJURY			NO INJURY
	Number of Bicyclists	% of Total		A	B	C	
Going straight ahead	20	60.6	0	3	6	7	3
Turning left	0	0.0	0	0	0	0	0
Turning right	0	0.0	0	0	0	0	0
Stopped on roadway	0	0.0	0	0	0	0	0
In prior crash	0	0.0	0	0	0	0	0
Changing lanes	1	3.0	0	0	0	1	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	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	1	3.0	0	0	0	1	0
Leaving roadway	0	0.0	0	0	0	0	0
Making U-turn	0	0.0	0	0	0	0	0
Overtaking or passing	0	0.0	0	0	0	0	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)	0	0.0	0	0	0	0	0
Avoiding vehicle (angle)	0	0.0	0	0	0	0	0
Driverless moving	0	0.0	0	0	0	0	0
Parked	0	0.0	0	0	0	0	0
Crossing at intersection	5	15.2	0	0	2	3	0
Crossing not at intersection	2	6.1	0	0	2	0	0
Getting on/off vehicle	0	0.0	0	0	0	0	0
In roadway with traffic	0	0.0	0	0	0	0	0
In roadway against traffic	1	3.0	0	0	0	1	0
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	0	0.0	0	0	0	0	0
Playing in roadway	0	0.0	0	0	0	0	0
In roadway other reason	1	3.0	0	0	1	0	0
Not in roadway	0	0.0	0	0	0	0	0
Other	2	6.1	0	0	1	1	0
Unknown	0	0.0	0	0	0	0	0
<b>TOTAL</b>	<b>33</b>	<b>100.0</b>	<b>0</b>	<b>3</b>	<b>12</b>	<b>14</b>	<b>3</b>

\*Includes one bicyclist with unknown injury severity

## UPPER PENINSULA ACTION PRIOR TO CRASH (CONTINUED)

PEDESTRIAN ACTION	PEDESTRIANS*		FATALITY	INJURY			NO INJURY
	Number of Pedestrians	% of Total		A	B	C	
Going straight ahead	1	2.3	0	0	0	1	0
Turning left	0	0.0	0	0	0	0	0
Turning right	0	0.0	0	0	0	0	0
Stopped on roadway	0	0.0	0	0	0	0	0
In prior crash	0	0.0	0	0	0	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	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	0	0.0	0	0	0	0	0
Leaving roadway	0	0.0	0	0	0	0	0
Making U-turn	0	0.0	0	0	0	0	0
Overtaking or passing	0	0.0	0	0	0	0	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)	0	0.0	0	0	0	0	0
Avoiding vehicle (angle)	0	0.0	0	0	0	0	0
Driverless moving	0	0.0	0	0	0	0	0
Parked	0	0.0	0	0	0	0	0
Crossing at intersection	8	18.6	0	0	3	4	1
Crossing not at intersection	8	18.6	1	1	3	3	0
Getting on/off vehicle	1	2.3	0	0	1	0	0
In roadway with traffic	3	7.0	0	2	1	0	0
In roadway against traffic	0	0.0	0	0	0	0	0
Standing or lying in roadway	8	18.6	0	1	4	2	1
Pushing/working on vehicle	2	4.7	0	0	0	2	0
Other working in roadway	2	4.7	0	1	0	1	0
Playing in roadway	0	0.0	0	0	0	0	0
In roadway other reason	4	9.3	0	1	2	1	0
Not in roadway	3	7.0	0	2	1	0	0
Other	3	7.0	0	1	1	1	0
Unknown	0	0.0	0	0	0	0	0
<b>TOTAL</b>	<b>43</b>	<b>100.0</b>	<b>1</b>	<b>9</b>	<b>16</b>	<b>15</b>	<b>2</b>

\* Includes no pedestrian with unknown injury severity

## UPPER PENINSULA MOST HARMFUL EVENT

NONCOLLISION	MOTOR VEHICLES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Vehicles	% of Total		A	B	C	
Loss of control	54	0.4	0	0	2	7	45
Cross center/median	8	0.1	0	1	0	0	7
Ran off road left	44	0.3	0	2	3	4	35
Ran off road right	59	0.4	0	0	3	8	48
Re-enter road	2	0.0	0	0	0	0	2
Overturn	363	2.7	2	29	43	75	214
Separation of units	6	0.0	0	1	0	0	5
Fire/explosion	17	0.1	0	0	1	0	16
Immersion	3	0.0	0	0	0	0	3
Jackknife	9	0.1	0	0	1	0	8
Downhill runaway	0	0.0	0	0	0	0	0
Cargo loss/shift	19	0.1	0	0	0	1	18
Individual fell off	31	0.2	1	15	8	6	1
Other noncollision	53	0.4	0	1	1	7	44
<b>SUBTOTAL</b>	<b>668</b>	<b>5.0</b>	<b>3</b>	<b>49</b>	<b>62</b>	<b>108</b>	<b>446</b>

COLLISION WITH A NONFIXED OBJECT	MOTOR VEHICLES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Vehicles	% of Total		A	B	C	
Pedestrian	36	0.3	1	9	13	12	1
Bicycle / Pedalcycle	29	0.2	0	2	9	14	4
Motor vehicle in transport	7,302	55.0	20	122	304	1,088	5,768
Parked motor vehicle	639	4.8	0	2	5	34	598
Railway train	8	0.1	1	1	2	0	4
Animal	3,005	22.6	0	8	12	42	2,943
Other nonfixed objects	163	1.2	0	1	6	7	149
<b>SUBTOTAL</b>	<b>11,182</b>	<b>84.2</b>	<b>22</b>	<b>145</b>	<b>351</b>	<b>1,197</b>	<b>9,467</b>

## UPPER PENINSULA MOST HARMFUL EVENT (CONTINUED)

HAD A COLLISION WITH FIXED OBJECT	MOTOR VEHICLES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Vehicles	% of Total		A	B	C	
Bridge/pier/abutment	5	0.0	0	0	0	1	4
Bridge parapet end	2	0.0	0	0	0	0	2
Bridge rail	8	0.1	0	0	0	0	8
Guardrail face	105	0.8	0	3	6	8	88
Guardrail end	13	0.1	0	0	1	1	11
Median barrier	15	0.1	0	0	1	1	13
Highway traffic sign post	83	0.6	0	0	2	1	80
Highway signal post	7	0.1	0	0	0	0	7
Luminaire/light support	10	0.1	0	0	0	0	10
Utility pole	104	0.8	0	3	4	15	82
Other pole	24	0.2	0	0	1	0	23
Culvert	12	0.1	0	1	1	5	5
Curb	23	0.2	0	0	1	1	21
Ditch	249	1.9	0	9	7	20	213
Embankment	161	1.2	2	4	6	12	137
Fence	14	0.1	0	0	0	0	14
Mailbox	80	0.6	0	0	1	4	75
Tree	307	2.3	2	18	31	51	205
Rail crossing signal	3	0.0	0	0	0	0	3
Building	32	0.2	1	0	4	3	24
Traffic island	1	0.0	0	0	0	0	1
Fire hydrant	12	0.1	0	0	0	1	11
Impact attenuator	0	0.0	0	0	0	0	0
Other fixed object	129	1.0	1	2	12	10	104
<b>SUBTOTAL</b>	<b>1,399</b>	<b>10.5</b>	<b>6</b>	<b>40</b>	<b>78</b>	<b>134</b>	<b>1,141</b>

	MOTOR VEHICLES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Vehicles	% of Total		A	B	C	
Unknown Event	38	0.3	0	0	4	3	31
<b>MOST HARMFUL EVENT TOTAL</b>	<b>13,287</b>	<b>100.0</b>	<b>31</b>	<b>234</b>	<b>495</b>	<b>1,442</b>	<b>11,085</b>



## UPPER PENINSULA 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	20	0.2	0	1	1	7	11
Lights/reflectors	4	0.0	0	0	0	2	2
Steering	4	0.0	0	2	0	0	2
Tires/wheels	17	0.1	0	0	0	1	16
Windows	0	0.0	0	0	0	0	0
Other	10	0.1	0	2	0	0	8
None or Unknown	13,232	99.6	31	229	494	1,432	11,046
<b>TOTAL</b>	<b>13,287</b>	<b>100.0</b>	<b>31</b>	<b>234</b>	<b>495</b>	<b>1,442</b>	<b>11,085</b>

## UPPER PENINSULA DRIVER HAZARDOUS ACTION

HAZARDOUS ACTION	MOTOR VEHICLES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Vehicles	% of Total		A	B	C	
None	7,622	57.4	12	90	213	672	6,635
Speed too fast	1,393	10.5	6	50	63	165	1,109
Speed too slow	14	0.1	0	1	0	0	13
Failed to yield	1,104	8.3	5	24	72	195	808
Disregard traffic control	166	1.2	1	2	9	45	109
Drove wrong way	4	0.0	0	0	0	0	4
Drove left of center	59	0.4	2	1	2	7	47
Improper passing	73	0.5	0	2	1	10	60
Improper lane use	176	1.3	0	0	3	13	160
Improper turn	98	0.7	0	2	2	10	84
Improper/no signal	35	0.3	0	0	3	4	28
Improper backing	358	2.7	0	0	0	8	350
Unable to stop in assured clear distance	1,004	7.6	0	13	26	161	804
Reckless driving	57	0.4	0	5	11	6	35
Careless/negligent driving	450	3.4	1	27	49	73	300
Other	392	3.0	1	9	30	49	303
Unknown	282	2.1	3	8	11	24	236
<b>TOTAL</b>	<b>13,287</b>	<b>100.0</b>	<b>31</b>	<b>234</b>	<b>495</b>	<b>1,442</b>	<b>11,085</b>

## UPPER PENINSULA MICHIGAN BICYCLE CRASHES

### 2014 BICYCLIST FATALITIES AND INJURIES



In 2014 in the Upper Peninsula, there were 33 bicyclists involved in motor vehicles crashes, with 0 bicyclists killed and 29 injured.

### BICYCLE HELMET USE AND INJURY SEVERITY

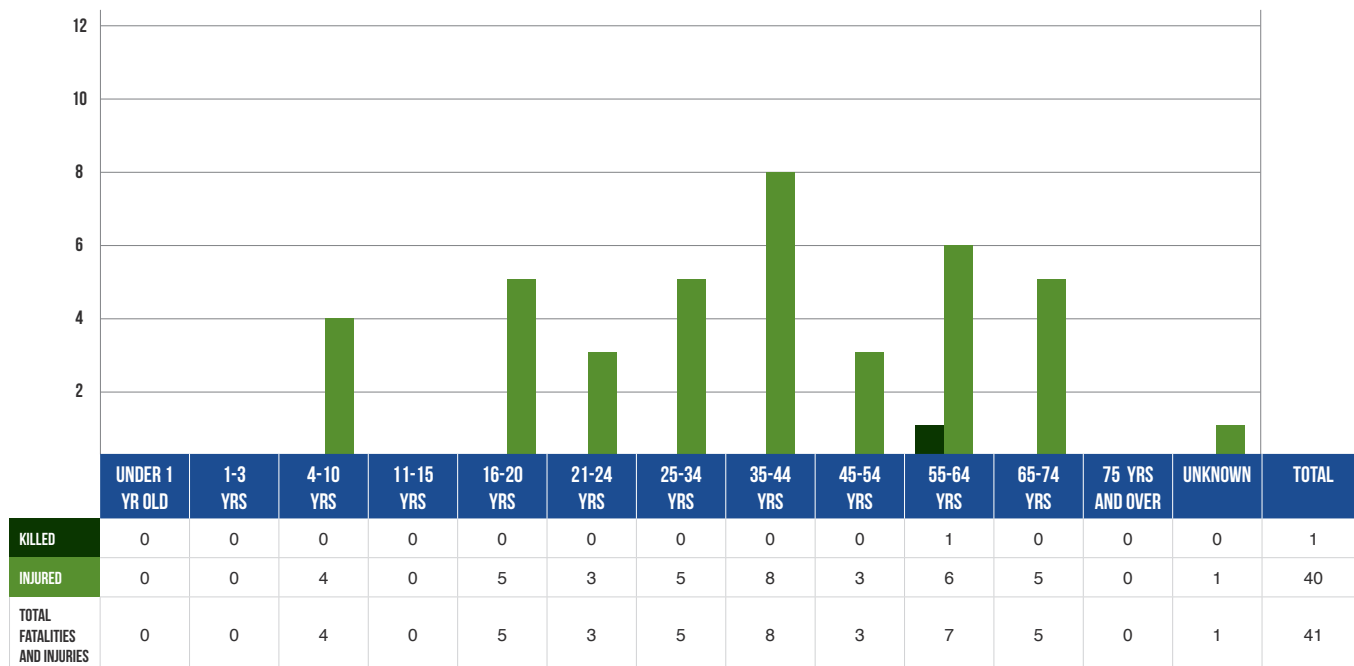
HELMET USE	FATALITY	INJURY			NO INJURY
		A	B	C	
Worn	0	0	1	1	0
Not Worn	0	3	7	7	1
Unknown	0	0	4	6	2
Total	0	3	12	14	3

*Note: One bicyclist had an unknown degree of injury and was 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."

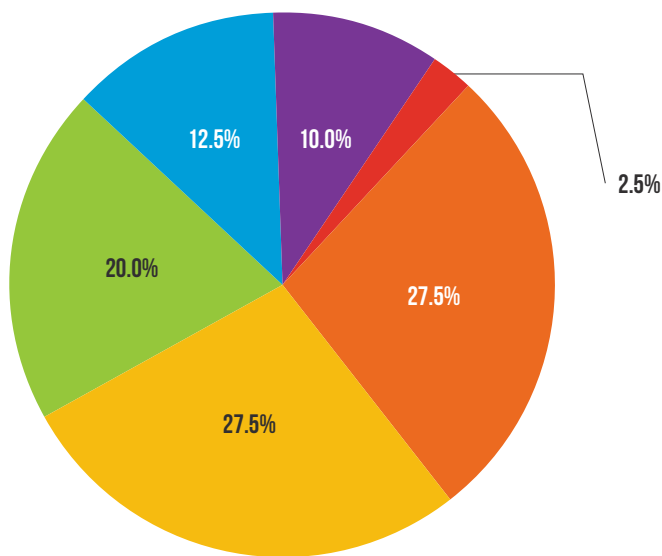
## UPPER PENINSULA MICHIGAN PEDESTRIAN CRASHES

### 2014 PEDESTRIAN FATALITIES AND INJURIES



In 2014 in the Upper Peninsula, there were 43 pedestrians involved in motor vehicles crashes, with 1 pedestrian killed and 40 injured.

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



PEDESTRIANS INJURED

## UPPER PENINSULA 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	2	3.2	0	0	0	1	1
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	1.6	0	0	1	0	0
Re-enter road	0	0.0	0	0	0	0	0
Overturn	1	1.6	0	0	0	1	0
Separation of units	0	0.0	0	0	0	0	0
Fire/explosion	2	3.2	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	3	4.8	0	2	0	1	0
Other noncollision	0	0.0	0	0	0	0	0
<b>SUBTOTAL</b>	<b>9</b>	<b>14.3</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>3</b>

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	30	47.6	0	4	4	10	12
Parked motor vehicle	2	3.2	0	0	0	1	1
Railway train	0	0.0	0	0	0	0	0
Animal	0	0.0	0	0	0	0	0
Other nonfixed objects	2	3.2	0	1	0	1	0
<b>SUBTOTAL</b>	<b>34</b>	<b>54.0</b>	<b>0</b>	<b>5</b>	<b>4</b>	<b>12</b>	<b>13</b>

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

COLLISION WITH A FIXED OBJECT	SNOWMOBILES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Snowmobiles	% of Total		A	B	C	
Bridge/pier/abutment	1	1.6	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	0	0.0	0	0	0	0	0
Other pole	0	0.0	0	0	0	0	0
Culvert	0	0.0	0	0	0	0	0
Curb	0	0.0	0	0	0	0	0
Ditch	1	1.6	0	0	1	0	0
Embankment	3	4.8	0	2	1	0	0
Fence	0	0.0	0	0	0	0	0
Mailbox	0	0.0	0	0	0	0	0
Tree	12	19.0	1	3	2	2	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	3	4.8	0	1	0	1	1
<b>SUBTOTAL</b>	<b>20</b>	<b>31.7</b>	<b>1</b>	<b>6</b>	<b>4</b>	<b>4</b>	<b>5</b>

	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
<b>MOST HARMFUL EVENT TOTAL</b>	<b>63</b>	<b>100.0</b>	<b>1</b>	<b>13</b>	<b>9</b>	<b>19</b>	<b>21</b>

*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 63 snowmobiles were reported in crashes on Upper Peninsula public roadways during 2014, resulting in one fatal crash. An additional 41 snowmobiles were involved in injury crashes.

## UPPER PENINSULA 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	1	2.1	0	0	0	1	0
Cross center/median	0	0.0	0	0	0	0	0
Ran off road left	1	2.1	0	1	0	0	0
Ran off road right	0	0.0	0	0	0	0	0
Re-enter road	0	0.0	0	0	0	0	0
Overturn	7	14.6	0	2	2	2	1
Separation of units	0	0.0	0	0	0	0	0
Fire/explosion	0	0.0	0	0	0	0	0
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	8	16.7	0	3	3	2	0
Other noncollision	1	2.1	0	0	0	1	0
<b>SUBTOTAL</b>	<b>18</b>	<b>37.5</b>	<b>0</b>	<b>6</b>	<b>5</b>	<b>6</b>	<b>1</b>

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	18	37.5	1	5	2	3	7
Parked motor vehicle	0	0.0	0	0	0	0	0
Railway train	1	2.1	0	0	1	0	0
Animal	2	4.2	0	1	0	0	1
Other nonfixed objects	1	2.1	0	0	1	0	0
<b>SUBTOTAL</b>	<b>22</b>	<b>45.8</b>	<b>1</b>	<b>6</b>	<b>4</b>	<b>3</b>	<b>8</b>

## UPPER PENINSULA 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	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	0	0.0	0	0	0	0	0
Other pole	0	0.0	0	0	0	0	0
Culvert	0	0.0	0	0	0	0	0
Curb	0	0.0	0	0	0	0	0
Ditch	0	0.0	0	0	0	0	0
Embankment	0	0.0	0	0	0	0	0
Fence	0	0.0	0	0	0	0	0
Mailbox	0	0.0	0	0	0	0	0
Tree	3	6.2	0	1	1	0	1
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	4	8.3	0	0	3	1	0
<b>SUBTOTAL</b>	<b>7</b>	<b>14.6</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>1</b>

	ORV/ATV		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of ORV/ATVs	% of Total		A	B	C	
Unknown Event	1	2.1	0	0	1	0	0
<b>MOST HARMFUL EVENT TOTAL</b>	<b>48</b>	<b>100.0</b>	<b>1</b>	<b>13</b>	<b>14</b>	<b>10</b>	<b>10</b>

*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 48 off-road/all-terrain vehicles were reported in crashes on Upper Peninsula public roadways during 2014, resulting in one fatal crash. An additional 37 ORV/ATVs were involved in injury crashes.

## UPPER PENINSULA 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	18	28.6	0	2	5	3	8
Speed too fast	15	23.8	1	7	2	5	0
Speed too slow	0	0.0	0	0	0	0	0
Failed to yield	13	20.6	0	1	1	5	6
Disregard traffic control	3	4.8	0	0	0	2	1
Drove wrong way	0	0.0	0	0	0	0	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	1	1.6	0	0	0	1	0
Improper turn	0	0.0	0	0	0	0	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	3	4.8	0	1	0	0	2
Reckless driving	0	0.0	0	0	0	0	0
Careless/negligent driving	3	4.8	0	1	0	0	2
Other	4	6.3	0	0	1	2	1
Unknown	3	4.8	0	1	0	1	1
<b>TOTAL</b>	<b>63</b>	<b>100.0</b>	<b>1</b>	<b>13</b>	<b>9</b>	<b>19</b>	<b>21</b>

## UPPER PENINSULA 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	12	25.0	0	6	3	1	2
Speed too fast	15	31.2	0	4	3	5	3
Speed too slow	0	0.0	0	0	0	0	0
Failed to yield	8	16.7	1	1	1	2	3
Disregard traffic control	0	0.0	0	0	0	0	0
Drove wrong way	0	0.0	0	0	0	0	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	0	0.0	0	0	0	0	0
Improper turn	1	2.1	0	0	0	1	0
Improper/no signal	1	2.1	0	0	1	0	0
Improper backing	0	0.0	0	0	0	0	0
Unable to stop in assured clear distance	4	8.3	0	2	2	0	0
Reckless driving	1	2.1	0	0	1	0	0
Careless/negligent driving	2	4.2	0	0	1	0	1
Other	1	2.1	0	0	0	0	1
Unknown	3	6.2	0	0	2	1	0
<b>TOTAL</b>	<b>48</b>	<b>100.0</b>	<b>1</b>	<b>13</b>	<b>14</b>	<b>10</b>	<b>10</b>

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.



## UPPER PENINSULA MICHIGAN FARM EQUIPMENT CRASHES

FARM EQUIPMENT CRASHES	2013	2014	% CHANGE
Crashes	4	6	50.0%
Fatalities	0	0	---
Injuries	2	0	-100.0%

Six crashes involving farm equipment and one passenger car, four pickups, and an unknown vehicle type was reported on Upper Peninsula roadways during 2014. None of those crashes involved a fatality.

## UPPER PENINSULA MICHIGAN VEHICLE-TRAIN CRASHES

VEHICLE-TRAIN CRASHES	2013	2014	% CHANGE
Crashes	4	8	100.0%
Fatalities	0	1	---
Injuries	6	6	0.0%

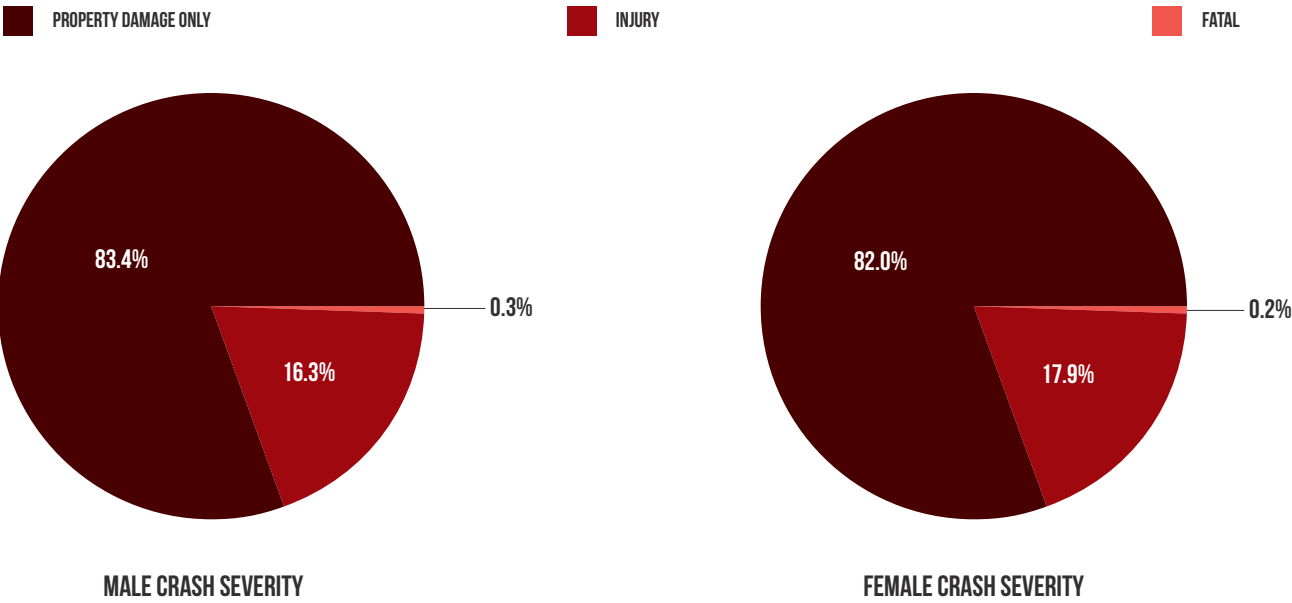
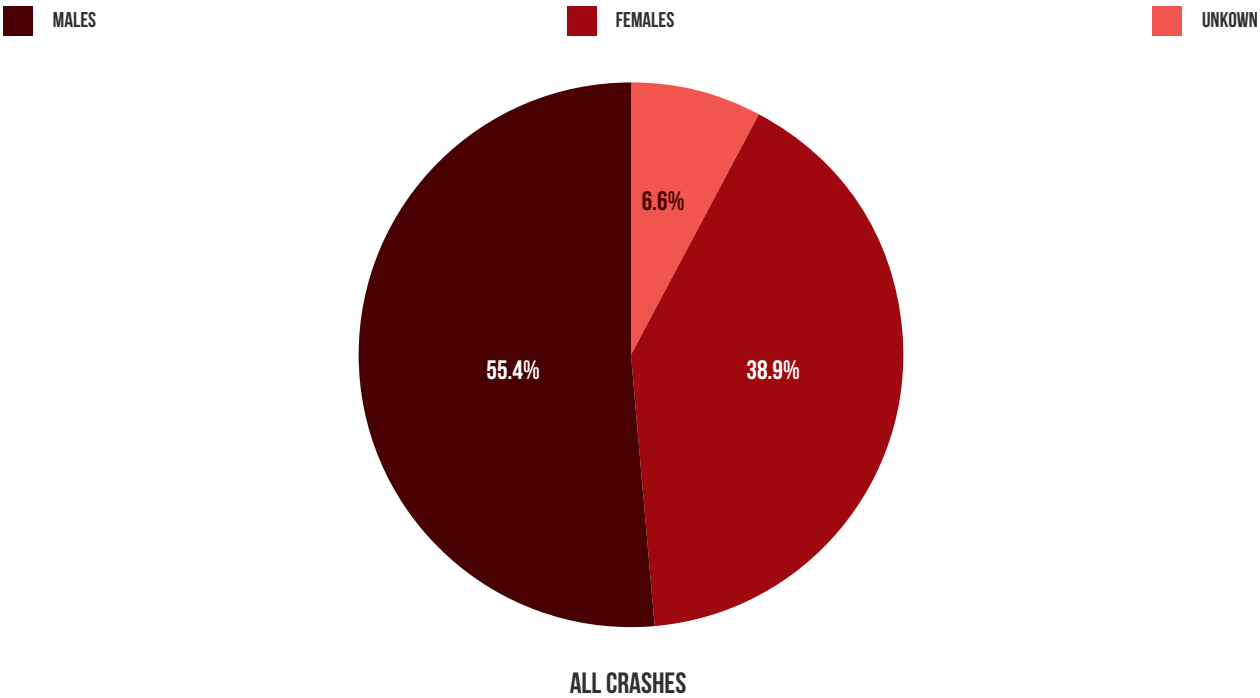
Eight crashes involving a train and three passenger cars, two pickups, two trucks over 10,000 lbs and one unknown vehicle type was reported on the Upper Peninsula during 2014. None of those crashes involved a fatality.

## UPPER PENINSULA MICHIGAN MOTORCYCLE CRASHES

MOTORCYCLE DATA	2013	2014	% CHANGE
Motorcycle Registrations	9,758	9,312	-4.6
Motorcycles in Crashes	105	128	21.9
Motorcyclist Deaths	2	3	50.0
Motorcyclists Injured	82	102	24.4
Death Rate based on 10,000 motorcycle registrations	2.5	3.2	57.2
Estimated Mileage based on 3,000 miles per motorcycle	29,274,000	27,936,000	-4.6
Death Rate based on deaths per 100 million vehicle miles traveled	6.8	10.7	57.2

Motorcycles were involved in 1.3 percent of all traffic crashes in the Upper Peninsula in 2014. Injuries were proportionately more severe to motorcyclists than to persons in motor vehicles.

# UPPER PENINSULA 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%).

## UPPER PENINSULA 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	1,572	---	37	1	4	99	7	0	4	0
16	2,350	---	189	0	0	39	2	0	2	0
17	2,743	---	270	0	0	44	0	0	2	0
18	2,603	---	339	1	1	55	0	0	1	0
19	2,890	---	326	3	1	50	3	0	0	0
20	3,090	---	322	0	0	34	0	0	0	0
21-24	13,153	---	1,139	2	1	159	5	0	3	0
25-29	15,242	---	1,106	0	0	128	4	0	3	0
30-34	14,782	---	984	1	1	117	0	0	3	0
35-39	14,133	---	869	2	0	96	0	0	5	0
40-44	14,676	---	918	5	1	114	1	0	3	0
45-49	16,379	---	953	3	2	109	1	0	0	0
50-54	20,384	---	1,126	1	2	134	3	0	3	0
55-59	22,653	---	1,050	3	2	125	2	0	4	1
60-64	22,533	---	855	5	4	95	3	0	3	0
65-69	18,880	---	723	2	1	73	0	0	4	0
70-74	13,810	---	475	0	0	57	0	0	2	0
75-79	10,094	---	340	0	0	40	0	0	0	0
80-84	6,651	---	202	1	1	31	0	0	0	0
85+	5,292	---	149	1	1	22	1	0	0	0
Unknown	---	---	915	0	0	6	1	0	1	0
<b>TOTAL</b>	<b>223,910</b>	<b>307,987</b>	<b>13,287</b>	<b>31</b>	<b>22</b>	<b>1,627</b>	<b>33</b>	<b>0</b>	<b>43</b>	<b>1</b>

## UPPER PENINSULA CRASH RATE PER LICENSED DRIVER BY AGE OF DRIVER IN ALL CRASHES

AGE	LICENSED DRIVERS	TOTAL DRIVERS IN CRASHES*	CRASH RATE
0-15	1,572	37	0.024
16	2,350	189	0.080
17	2,743	270	0.098
18	2,603	339	0.130
19	2,890	326	0.113
20	3,090	322	0.104
21-24	3,024	1,139	0.377
25-29	3,237	1,106	0.342
30-34	3,353	984	0.293
35-39	3,539	869	0.246
40-44	15,242	918	0.060
45-49	14,782	953	0.064
50-54	14,133	1,126	0.080
55-59	14,676	1,050	0.072
60-64	16,379	855	0.052
65-69	20,384	723	0.035
70-74	22,653	475	0.021
75-79	22,533	340	0.015
80-84	18,880	202	0.011
85-89	13,810	113	0.008
90-94	10,094	32	0.003
95-99	6,651	4	0.001
100+	3,825	0	0.000
Total	190	12,372	---

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

\* Excludes 915 drivers with unknown age

Licensed drivers age 21-24 have the highest crash rate at 0.377 (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.

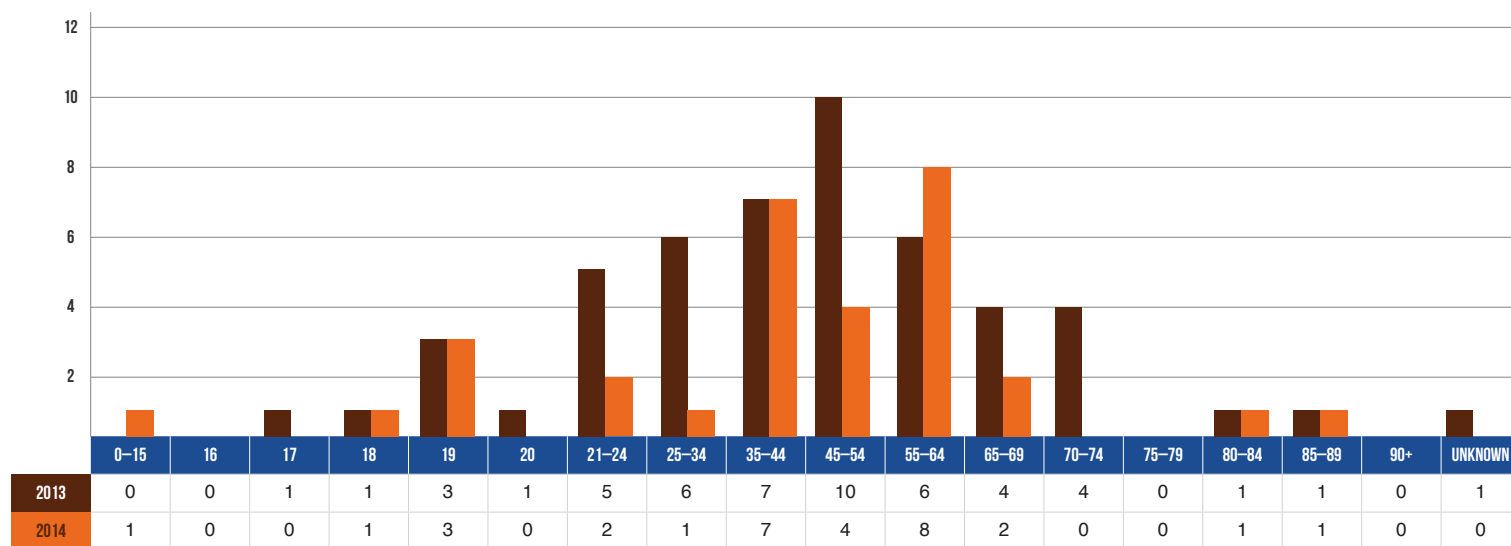
## UPPER PENINSULA DRIVER AGE

AGE OF DRIVERS IN FATAL CRASHES	2013	2014	PERCENT CHANGE	PERCENT 2014 FATAL CRASH INVOLVEMENT	PERCENT ACTIVE DRIVING POPULATION*
15 years and under	0	1	0.0	3.2	0.7
16 years	0	0	†	0.0	1.0
17 years	1	0	†	0.0	1.2
18 years	1	1	0.0	3.2	1.2
19 years	3	3	0.0	9.7	1.3
20 years	1	0	†	0.0	1.4
21 - 24 years	5	2	-60.0	6.5	5.9
25 - 34 years	6	1	-83.3	3.2	13.4
35 - 44 years	7	7	0.0	22.6	12.9
45 - 54 years	10	4	-60.0	12.9	16.4
55 - 64 years	6	8	33.3	25.8	20.2
65 - 69 years	4	2	-50.0	6.5	8.4
70 - 74 years	4	0	†	0.0	6.2
75 - 79 years	0	0	†	0.0	4.5
80 - 84 years	1	1	0.0	3.2	3.0
85 - 89 years	1	1	0.0	3.2	1.7
90 years and over	0	0	†	0.0	0.7
Unknown	1	0	†	0.0	---
<b>TOTAL</b>	<b>51</b>	<b>31</b>	<b>-39.2</b>	<b>100.0</b>	<b>100.0</b>

\*Figures courtesy of the Michigan Department of State [5]

† Not calculable

### DRIVER AGE IN FATAL CRASHES



## UPPER PENINSULA DRIVER CONDITION

POSSIBLE CONDITIONS OF DRIVER	CONDITIONS (Coded by Police)	FATAL CRASHES	INJURY CRASHES			PROPERTY DAMAGE ONLY
			A	B	C	
Appeared Normal	11,154	17	170	394	1,258	9,315
Had Been Drinking	293	4	31	43	40	175
Illegal Drug Use	26	0	3	4	6	13
Sick	21	0	2	2	4	13
Fatigue	14	0	0	2	3	9
Asleep	33	0	1	4	7	21
Medication	16	0	1	2	3	10
Driver Distracted	63	0	2	10	21	30
Using Cellular Phone	8	0	0	0	4	4
Unknown	824	10	19	24	51	720

*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.*

## UPPER PENINSULA 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*	11,832	89.0	9	60.0	105	238	764	10,711	5
Restraint Not Used	231	1.7	6	40.0	25	22	30	146	2
Unknown	1,224	9.2	0	0.0	12	11	26	332	843
TOTAL	13,287	100.0	15	100.0	142	271	820	11,189	850
DRINKING DRIVERS ONLY									
Restraint Used*	197	70.9	1	33.3	12	23	21	140	0
Restraint Not Used	28	10.1	2	66.7	10	6	4	6	0
Unknown	53	19.1	0	0.0	3	5	7	37	1
TOTAL	278	100.0	3	100.0	25	34	32	183	1
DRUGGED DRIVERS ONLY									
Restraint Used*	23	76.7	1	50.0	1	2	5	14	0
Restraint Not Used	3	10.0	1	50.0	0	0	1	1	0
Unknown	4	13.3	0	0.0	0	2	0	2	0
TOTAL	30	100.0	2	100.0	1	4	6	17	0
DRINKING AND DRUGGED DRIVERS ONLY									
Restraint Used*	21	63.6	0	28.6	3	5	2	11	0
Restraint Not Used	6	18.2	0	57.1	1	2	0	3	0
Unknown	6	18.2	0	14.3	0	1	2	3	0
TOTAL	33	100.0	0	100.0	4	8	4	17	0

\*"Restraint Used" includes shoulder belt only, lap belt only, both lap and shoulder belts, restraint failed, and helmet worn