

## UPPER PENINSULA VEHICLE TYPE AND CRASH INVOLVEMENT

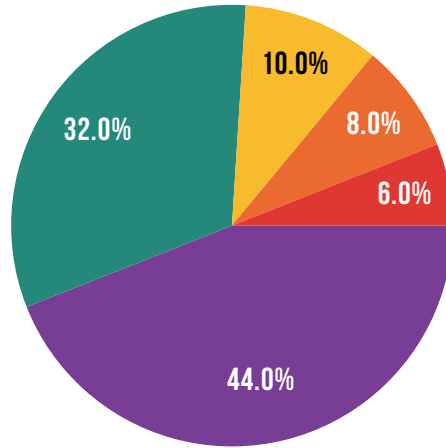
VEHICLE TYPE	MOTOR VEHICLES		FATAL CRASH		INJURY CRASH	PROPERTY DAMAGE ONLY	FATALITY IN VEHICLE		INJURY	NO INJURY
	Number of Vehicles	% of Total	Number	% of Total			Number	% of Total		
Passenger Car, SUV, Van	6,860	68.5	22	44.0	979	5,859	17	58.6	708	6,135
Motor Home	23	0.2	0	0.0	4	19	0	0.0	3	20
Pickup Truck	2,333	23.3	16	32.0	330	1,987	5	17.2	214	2,114
Small Truck under 10,000 lbs. GVWR	49	0.5	0	0.0	11	38	0	0.0	9	40
Motorcycle	114	1.1	5	10.0	90	19	5	17.2	90	19
Moped / Goped	16	0.2	1	2.0	11	4	1	3.4	11	4
Go-cart / Golf Cart	1	0.0	0	0.0	1	0	0	0.0	1	0
Snowmobile	54	0.5	1	2.0	34	19	1	3.4	29	24
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	77	0.8	0	0.0	63	14	0	0.0	61	16
Other	43	0.4	0	0.0	10	33	0	0.0	3	40
Unknown	120	1.2	1	2.0	6	113	0	0.0	0	120
CDL Truck/Bus (breakdown below)	320	3.2	4	8.0	47	269	0	0.0	21	299
<b>Total Number of Vehicles</b>	<b>10,010</b>	<b>100.0</b>	<b>50</b>	<b>100.0</b>	<b>1,586</b>	<b>8,374</b>	<b>29</b>	<b>100.0</b>	<b>1,150</b>	<b>8,831</b>

Note: Buses 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		
10,000 lbs. or Less	3	0.9	0	0.0	0	3	0	0.0	0	3
10,001 - 26,000 lbs.	124	38.8	1	25.0	13	110	0	0.0	5	119
Greater than 26,000 lbs.	192	60.0	3	75.0	34	155	0	0.0	16	176
Unknown Truck	1	0.3	0	0.0	0	1	0	0.0	0	1
<b>Total Number of Vehicles</b>	<b>320</b>	<b>100.0</b>	<b>4</b>	<b>100.0</b>	<b>47</b>	<b>269</b>	<b>0</b>	<b>0.0</b>	<b>21</b>	<b>299</b>

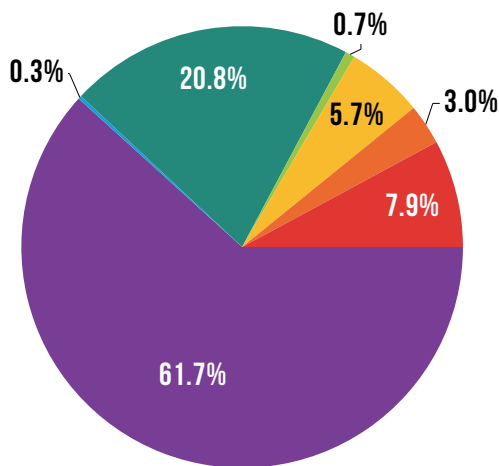
## UPPER PENINSULA VEHICLE TYPES IN CRASHES BY CRASH SEVERITY

■ PASSENGER CAR, SUV, VAN
 ■ MOTOR HOME
 ■ PICKUP TRUCK
 ■ TRUCK UNDER 10,000 LBS.
 ■ MOTORCYCLE
 ■ CDL TRUCK/BUS
 ■ OTHER

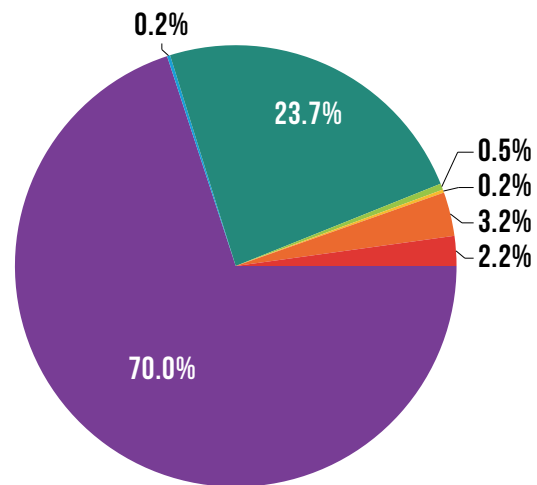


**FATAL**

The top chart shows that 76.0 percent of vehicles involved in fatal crashes in the Upper Peninsula are passenger vehicles (passenger cars, SUVs, vans, motor homes, pickup trucks, or trucks under 10,000 lbs.). Motorcycles make up 10.0 percent of fatal crash involvements.



**INJURY**



**PROPERTY DAMAGE ONLY**

Passenger vehicles (passenger cars, SUVs, vans, motor homes, pickup trucks, or trucks under 10,000 lbs.) make up an even larger share of vehicles in injury crashes (83.5%) and property damage only (PDO) crashes (94.4%) than they do of fatal crashes.

*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	6,812	68.1	35	200	298	545	5,734
Turning left	533	5.3	1	27	32	68	405
Turning right	273	2.7	1	3	6	21	242
Stopped on roadway	381	3.8	0	11	21	53	296
In prior crash	3	0.0	0	1	0	1	1
Changing lanes	86	0.9	0	1	4	5	76
Backing	304	3.0	0	0	1	3	300
Slowing/stopping on roadway	372	3.7	0	10	18	48	296
Slowing/stopping other	9	0.1	0	1	0	1	7
Starting up on roadway	131	1.3	0	2	6	18	105
Starting up other	1	0.0	0	0	0	0	1
Entering parking	18	0.2	0	0	1	0	17
Leaving parking	30	0.3	0	0	0	4	26
Entering roadway	124	1.2	1	6	8	9	100
Leaving roadway	23	0.2	0	2	5	2	14
Making U-turn	28	0.3	2	3	6	0	17
Overtaking or passing	54	0.5	1	2	2	4	45
Avoiding object	5	0.0	0	0	0	0	5
Avoiding animal	44	0.4	0	1	4	3	36
Avoiding pedestrian	2	0.0	0	0	1	0	1
Avoiding vehicle (front/back)	57	0.6	0	6	5	4	42
Avoiding vehicle (angle)	17	0.2	0	1	1	1	14
Driverless moving	17	0.2	1	0	0	1	15
Parked	385	3.8	5	5	13	11	351
Crossing at intersection	7	0.1	0	0	0	1	6
Crossing not at intersection	1	0.0	0	0	0	0	1
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	0.0	0	0	0	0	1
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	0.0	0	0	0	0	1
Playing in roadway	0	0.0	0	0	0	0	0
In roadway other reason	1	0.0	0	0	0	0	1
Not in roadway	0	0.0	0	0	0	0	0
Negotiating a curve	203	2.0	2	24	21	17	139
Other	25	0.2	1	0	2	3	19
Unknown	62	0.6	0	2	0	0	60
<b>TOTAL</b>	<b>10,010</b>	<b>100.0</b>	<b>50</b>	<b>308</b>	<b>455</b>	<b>823</b>	<b>8,374</b>

## 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	76	66.7	92	67.2	3	32	27	11	19
Turning left	6	5.3	6	4.4	0	3	1	2	0
Turning right	2	1.8	3	2.2	1	2	0	0	0
Stopped on roadway	2	1.8	3	2.2	0	1	0	2	0
In prior crash	0	0.0	0	0.0	0	0	0	0	0
Changing lanes	1	0.9	1	0.7	0	0	1	0	0
Backing	0	0.0	0	0.0	0	0	0	0	0
Slowing/stopping on roadway	4	3.5	4	2.9	0	0	1	1	2
Slowing/stopping other	0	0.0	0	0.0	0	0	0	0	0
Starting up on roadway	0	0.0	0	0.0	0	0	0	0	0
Starting up other	0	0.0	0	0.0	0	0	0	0	0
Entering parking	0	0.0	0	0.0	0	0	0	0	0
Leaving parking	0	0.0	0	0.0	0	0	0	0	0
Entering roadway	2	1.8	2	1.5	0	1	0	1	0
Leaving roadway	0	0.0	0	0.0	0	0	0	0	0
Making U-turn	1	0.9	2	1.5	0	0	0	0	2
Overtaking or passing	4	3.5	4	2.9	1	1	1	0	1
Avoiding object	0	0.0	0	0.0	0	0	0	0	0
Avoiding animal	0	0.0	0	0.0	0	0	0	0	0
Avoiding pedestrian	0	0.0	0	0.0	0	0	0	0	0
Avoiding vehicle (front/back)	5	4.4	7	5.1	0	3	3	0	1
Avoiding vehicle (angle)	1	0.9	1	0.7	0	1	0	0	0
Driverless moving	0	0.0	0	0.0	0	0	0	0	0
Parked	1	0.9	1	0.7	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
Negotiating a curve	9	7.9	11	8.0	0	6	3	1	1
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>114</b>	<b>100.0</b>	<b>137</b>	<b>100.0</b>	<b>5</b>	<b>50</b>	<b>37</b>	<b>18</b>	<b>26</b>

\*Includes one motorcyclist (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	13	72.2	0	2	3	2	6
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	1	5.6	0	0	1	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	2	11.1	1	0	1	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	1	5.6	0	0	1	0	0
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	1	5.6	1	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	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	0	0.0	0	0	0	0	0
Not in roadway	0	0.0	0	0	0	0	0
Negotiating a curve	0	0.0	0	0	0	0	0
Other	0	0.0	0	0	0	0	0
Unknown	0	0.0	0	0	0	0	0
<b>TOTAL</b>	<b>18</b>	<b>100.0</b>	<b>2</b>	<b>2</b>	<b>6</b>	<b>2</b>	<b>6</b>

\*Includes no bicyclists 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	0	0.0	0	0	0	0	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	7	23.3	0	1	3	3	0
Crossing not at intersection	1	3.3	0	0	1	0	0
Getting on/off vehicle	0	0.0	0	0	0	0	0
In roadway with traffic	6	20.0	0	2	4	0	0
In roadway against traffic	1	3.3	0	0	1	0	0
Standing or lying in roadway	10	33.3	0	2	1	5	1
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	3.3	0	1	0	0	0
Not in roadway	0	0.0	0	0	0	0	0
Negotiating a curve	0	0.0	0	0	0	0	0
Other	2	6.7	0	1	0	0	0
Unknown	2	6.7	1	1	0	0	0
<b>TOTAL</b>	<b>30</b>	<b>100.0</b>	<b>1</b>	<b>8</b>	<b>10</b>	<b>8</b>	<b>1</b>

\*Includes two pedestrians 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	142	1.4	2	4	9	18	109
Ran off roadway left	63	0.6	0	0	7	7	49
Ran off roadway right	113	1.1	0	3	9	20	81
Re-enter roadway	9	0.1	0	0	0	1	8
Overturn	343	3.4	3	31	54	67	188
Separation of Units	12	0.1	0	0	1	0	11
Fire/explosion	17	0.2	0	0	0	0	17
Immersion	2	0.0	0	0	0	1	1
Jackknife	9	0.1	0	0	0	1	8
Downhill runaway	2	0.0	0	0	1	0	1
Cargo loss/shift	17	0.2	0	0	1	0	16
Individual fell from vehicle	33	0.3	0	16	13	3	1
Other noncollision	35	0.3	0	4	1	4	26
Equipment failure (blown tire, brake failure, etc.)	27	0.3	0	0	2	4	21
Cross centerline	45	0.4	0	3	3	2	37
Cross median	3	0.0	0	0	0	1	2
<b>SUBTOTAL</b>	<b>872</b>	<b>8.7</b>	<b>5</b>	<b>61</b>	<b>101</b>	<b>129</b>	<b>576</b>

COLLISION WITH A NONFIXED OBJECT	MOTOR VEHICLES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Vehicles	% of Total		A	B	C	
Pedestrian	25	0.2	1	7	10	5	2
Bicyclist	18	0.2	2	2	6	2	6
Motor vehicle in transport	4,433	44.3	28	152	233	522	3,498
Parked motor vehicle	401	4.0	3	8	11	17	362
Railroad train	1	0.0	0	0	0	0	1
Animal	3,141	31.4	0	10	18	34	3,079
Other nonfixed object	115	1.1	0	2	5	17	91
Work zone/maintenance equipment	3	0.0	0	0	0	0	3
Cargo falling/shifting/anything set in motion by a motor vehicle	20	0.2	0	2	0	2	16
<b>SUBTOTAL</b>	<b>8,157</b>	<b>81.5</b>	<b>34</b>	<b>183</b>	<b>283</b>	<b>599</b>	<b>7,058</b>

## UPPER PENINSULA 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/support	1	0.0	0	0	0	0	1
Bridge rail	6	0.1	0	0	1	1	4
Guardrail face	56	0.6	0	3	0	2	51
Guardrail end	15	0.1	0	1	1	2	11
Other post/pole/support	16	0.2	0	1	1	1	13
Culvert	18	0.2	1	0	3	2	12
Curb	11	0.1	0	1	0	2	8
Ditch	200	2.0	0	7	13	16	164
Embankment	64	0.6	0	3	3	9	49
Fence	9	0.1	0	0	0	2	7
Mailbox	34	0.3	0	0	1	1	32
Tree	289	2.9	10	32	33	40	174
Rail crossing signal	2	0.0	0	1	0	0	1
Building	19	0.2	0	1	3	0	15
Traffic island	1	0.0	0	0	0	0	1
Fire hydrant	8	0.1	0	0	2	1	5
Impact attenuator	4	0.0	0	0	0	0	4
Other fixed object	49	0.5	0	6	1	2	40
Bridge overhead structure	0	0.0	0	0	0	0	0
Cable barrier	5	0.0	0	0	0	0	5
Concrete barrier	7	0.1	0	0	0	0	7
Traffic sign/post	71	0.7	0	3	1	3	64
Traffic signal equipment	3	0.0	0	0	0	0	3
Utility pole/light support	93	0.9	0	5	8	11	69
<b>SUBTOTAL</b>	<b>981</b>	<b>9.8</b>	<b>11</b>	<b>64</b>	<b>71</b>	<b>95</b>	<b>740</b>

	MOTOR VEHICLES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Vehicles	% of Total		A	B	C	
Unknown Event	0	0.0	0	0	0	0	0
<b>MOST HARMFUL EVENT TOTAL</b>	<b>10,010</b>	<b>100.0</b>	<b>50</b>	<b>308</b>	<b>455</b>	<b>823</b>	<b>8,374</b>



## UPPER PENINSULA VEHICLE DEFECTS IN CRASH INVOLVEMENT

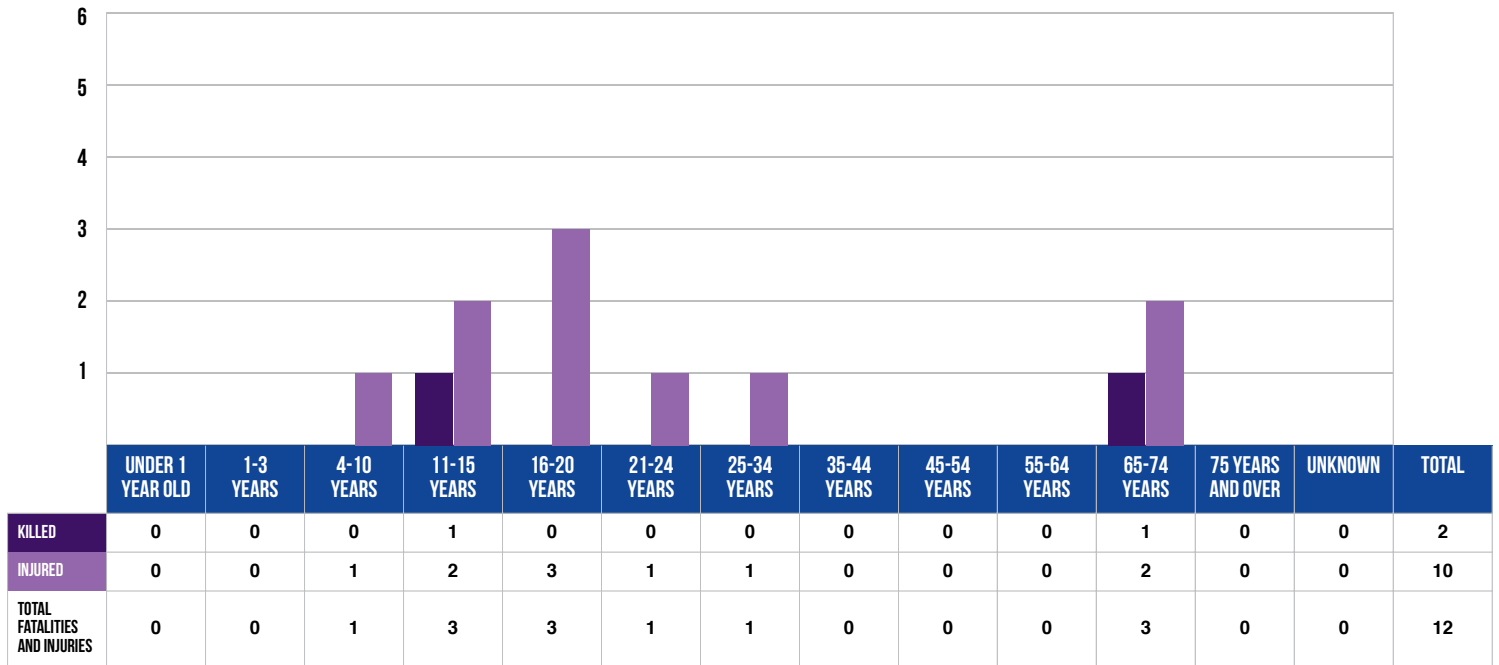
VEHICLE DEFECTS	MOTOR VEHICLES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Vehicles	% of Total		A	B	C	
Brakes	23	0.2	1	3	4	5	10
Lights/reflectors	5	0.0	0	0	0	0	5
Steering	8	0.1	0	0	2	1	5
Tires/wheels	28	0.3	0	0	1	8	19
Windows	1	0.0	0	0	0	0	1
Coupling/hitch/chains	6	0.1	0	0	0	0	6
Other	22	0.2	0	1	1	1	19
None or Unknown	9,917	99.1	49	304	447	808	8,309
<b>TOTAL</b>	<b>10,010</b>	<b>100.0</b>	<b>50</b>	<b>308</b>	<b>455</b>	<b>823</b>	<b>8,374</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	5,981	59.8	19	123	187	358	5,294
Speed too fast	857	8.6	9	35	72	96	645
Speed too slow	3	0.0	0	0	0	2	1
Failed to yield	716	7.2	3	25	45	101	542
Disregard traffic control	129	1.3	0	8	7	22	92
Drove wrong way	2	0.0	0	0	0	1	1
Drove left of center	64	0.6	1	6	6	6	45
Improper passing	36	0.4	1	1	0	1	33
Improper lane use	113	1.1	1	0	3	5	104
Improper turn	95	0.9	1	6	5	6	77
Improper/no signal	10	0.1	0	0	0	1	9
Improper backing	200	2.0	0	0	0	3	197
Unable to stop in assured clear distance	551	5.5	0	9	22	73	447
Reckless driving	55	0.5	1	10	9	10	25
Careless/negligent driving	429	4.3	2	39	38	74	276
Other	357	3.6	2	32	44	37	242
Unknown	412	4.1	10	14	17	27	344
<b>TOTAL</b>	<b>10,010</b>	<b>100.0</b>	<b>50</b>	<b>308</b>	<b>455</b>	<b>823</b>	<b>8,374</b>

# UPPER PENINSULA MICHIGAN BICYCLE CRASHES

## 2020 BICYCLIST FATALITIES AND INJURIES



In 2020 in the Upper Peninsula, there were 18 bicyclists involved in motor vehicle crashes, with two bicyclists killed and 10 injured.

## BICYCLE HELMET USE AND INJURY SEVERITY

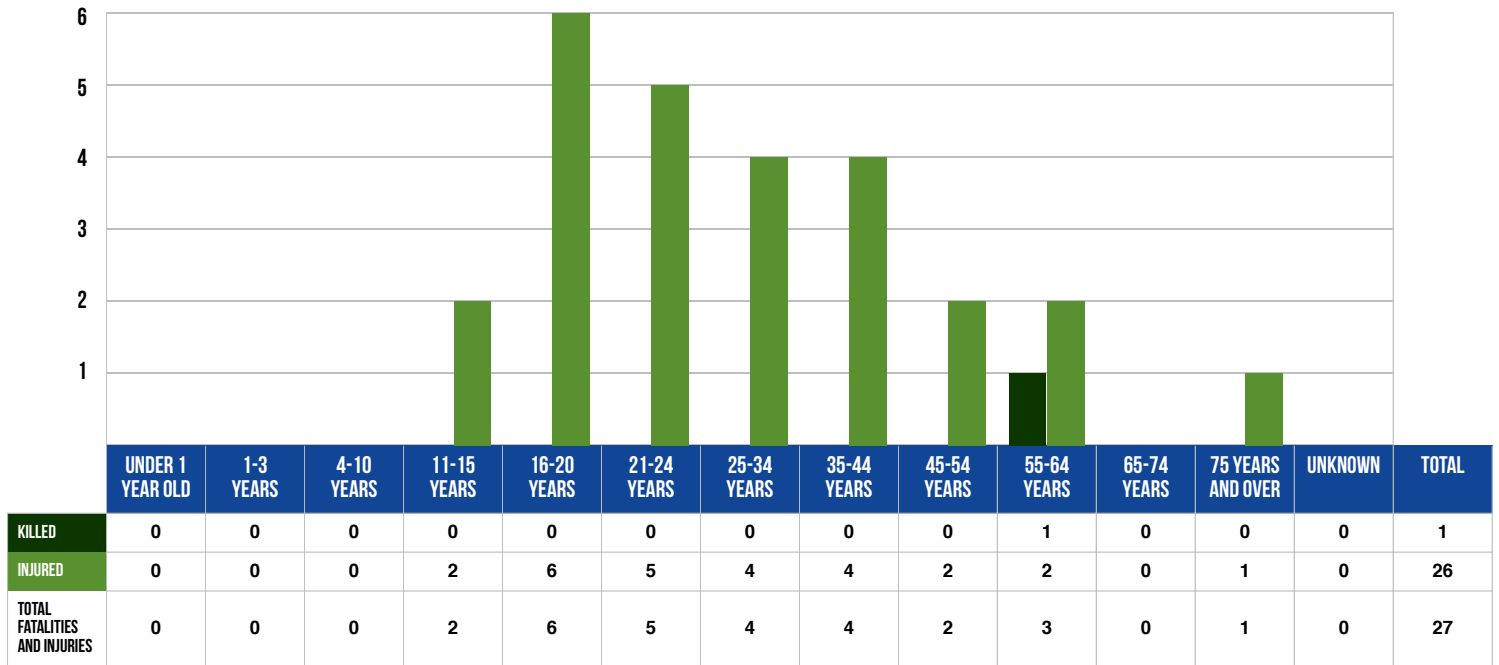
HELMET USE	FATALITY	INJURY			NO INJURY	UNKNOWN	TOTAL
		A	B	C			
Worn	1	0	1	0	1	0	3
Not Worn	1	1	5	0	1	0	8
Unknown	0	1	0	2	4	0	7
<b>Total</b>	<b>2</b>	<b>2</b>	<b>6</b>	<b>2</b>	<b>6</b>	<b>0</b>	<b>18</b>

*Note: The data does not include helmet use for all bicyclists. There were seven bicyclists with unknown helmet use.*

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.”

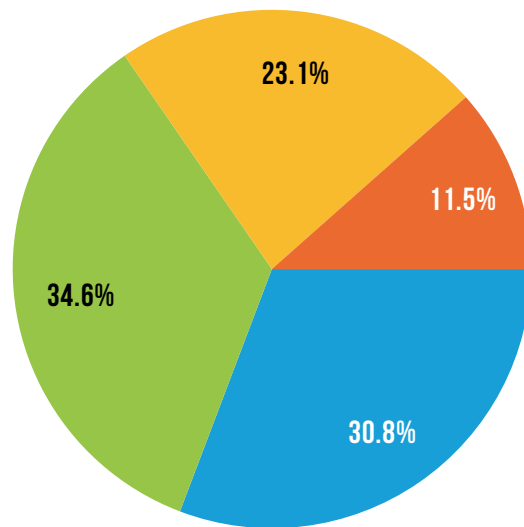
# UPPER PENINSULA MICHIGAN PEDESTRIAN CRASHES

2020 PEDESTRIAN FATALITIES AND INJURIES



In 2020 in the Upper Peninsula, there were 30 pedestrians involved in motor vehicle crashes, with one pedestrian killed and 26 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	1	1.9	0	0	0	0	1
Ran off roadway left	0	0.0	0	0	0	0	0
Ran off roadway right	0	0.0	0	0	0	0	0
Re-enter roadway	0	0.0	0	0	0	0	0
Overturn	3	5.6	0	1	1	1	0
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 from vehicle	11	20.4	0	3	7	1	0
Other noncollision	2	3.7	0	0	0	1	1
Equipment failure (blown tire, brake failure, etc.)	0	0.0	0	0	0	0	0
Cross centerline	0	0.0	0	0	0	0	0
Cross median	0	0.0	0	0	0	0	0
<b>SUBTOTAL</b>	<b>17</b>	<b>31.5</b>	<b>0</b>	<b>4</b>	<b>8</b>	<b>3</b>	<b>2</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
Bicyclist	0	0.0	0	0	0	0	0
Motor vehicle in transport	21	38.9	1	7	0	4	9
Parked motor vehicle	3	5.6	0	0	0	2	1
Railroad train	0	0.0	0	0	0	0	0
Animal	3	5.6	0	0	0	0	3
Other nonfixed object	0	0.0	0	0	0	0	0
Work zone/maintenance equipment	0	0.0	0	0	0	0	0
Cargo falling/shifting/anything set in motion by a motor vehicle	0	0.0	0	0	0	0	0
<b>SUBTOTAL</b>	<b>27</b>	<b>50.0</b>	<b>1</b>	<b>7</b>	<b>0</b>	<b>6</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/support	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
Other post/pole/support	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	1	1.9	0	1	0	0	0
Fence	0	0.0	0	0	0	0	0
Mailbox	0	0.0	0	0	0	0	0
Tree	6	11.1	0	0	1	2	3
Rail crossing signal	0	0.0	0	0	0	0	0
Building	1	1.9	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	2	3.7	0	1	0	0	1
Bridge overhead structure	0	0.0	0	0	0	0	0
Cable barrier	0	0.0	0	0	0	0	0
Concrete barrier	0	0.0	0	0	0	0	0
Traffic sign/post	0	0.0	0	0	0	0	0
Traffic signal equipment	0	0.0	0	0	0	0	0
Utility pole/light support	0	0.0	0	0	0	0	0
<b>SUBTOTAL</b>	<b>10</b>	<b>18.5</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4</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>54</b>	<b>100.0</b>	<b>1</b>	<b>13</b>	<b>10</b>	<b>11</b>	<b>19</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 54 snowmobiles were reported in crashes on Upper Peninsula public roadways during 2020, resulting in one fatal crash. A total of 34 snowmobiles were involved in 29 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	2	2.6	0	0	1	0	1
Ran off roadway left	0	0.0	0	0	0	0	0
Ran off roadway right	3	3.9	0	0	1	1	1
Re-enter roadway	0	0.0	0	0	0	0	0
Overturn	24	31.2	0	7	12	3	2
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	1	1.3	0	0	1	0	0
Cargo loss/shift	0	0.0	0	0	0	0	0
Individual fell from vehicle	4	5.2	0	2	1	1	0
Other noncollision	1	1.3	0	1	0	0	0
Equipment failure (blown tire, brake failure, etc.)	1	1.3	0	0	1	0	0
Cross centerline	0	0.0	0	0	0	0	0
Cross median	0	0.0	0	0	0	0	0
<b>SUBTOTAL</b>	<b>36</b>	<b>46.8</b>	<b>0</b>	<b>10</b>	<b>17</b>	<b>5</b>	<b>4</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
Bicyclist	0	0.0	0	0	0	0	0
Motor vehicle in transport	23	29.9	0	6	8	0	9
Parked motor vehicle	3	3.9	0	0	2	0	1
Railroad train	0	0.0	0	0	0	0	0
Animal	0	0.0	0	0	0	0	0
Other nonfixed object	1	1.3	0	0	1	0	0
Work zone/maintenance equipment	0	0.0	0	0	0	0	0
Cargo falling/shifting/anything set in motion by a motor vehicle	1	1.3	0	0	0	1	0
<b>SUBTOTAL</b>	<b>28</b>	<b>36.4</b>	<b>0</b>	<b>6</b>	<b>11</b>	<b>1</b>	<b>10</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/support	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
Other post/pole/support	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	1.3	0	1	0	0	0
Embankment	1	1.3	0	1	0	0	0
Fence	0	0.0	0	0	0	0	0
Mailbox	0	0.0	0	0	0	0	0
Tree	8	10.4	0	4	4	0	0
Rail crossing signal	1	1.3	0	1	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	2	2.6	0	2	0	0	0
Bridge overhead structure	0	0.0	0	0	0	0	0
Cable barrier	0	0.0	0	0	0	0	0
Concrete barrier	0	0.0	0	0	0	0	0
Traffic sign/post	0	0.0	0	0	0	0	0
Traffic signal equipment	0	0.0	0	0	0	0	0
Utility pole/light support	0	0.0	0	0	0	0	0
<b>SUBTOTAL</b>	<b>13</b>	<b>16.9</b>	<b>0</b>	<b>9</b>	<b>4</b>	<b>0</b>	<b>0</b>

	ORV/ATV		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of ORV/ ATVs	% of Total		A	B	C	
Unknown Event	0	0.0	0	0	0	0	0
<b>MOST HARMFUL EVENT TOTAL</b>	<b>77</b>	<b>100.0</b>	<b>0</b>	<b>25</b>	<b>32</b>	<b>6</b>	<b>14</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 77 off-road/all-terrain vehicles were reported in crashes on Upper Peninsula public roadways during 2020, resulting in no fatal crashes. An additional 63 ORV/ATVs were involved in 60 injury crashes.

## UPPER PENINSULA MICHIGAN SNOWMOBILE CRASHES ON PUBLIC ROADWAYS

HAZARDOUS ACTION	SNOWMOBILES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Snowmobiles	% of Total		A	B	C	
None	22	40.7	0	3	4	7	8
Speed too fast	13	24.1	0	3	6	0	4
Speed too slow	0	0.0	0	0	0	0	0
Failed to yield	6	11.1	0	1	0	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	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	0	0.0	0	0	0	0	0
Reckless driving	1	1.9	0	0	0	1	0
Careless/negligent driving	7	13.0	1	3	0	1	2
Other	2	3.7	0	1	0	0	1
Unknown	3	5.6	0	2	0	0	1
<b>Total</b>	<b>54</b>	<b>100.0</b>	<b>1</b>	<b>13</b>	<b>10</b>	<b>11</b>	<b>19</b>

## UPPER PENINSULA MICHIGAN ORV/ATV CRASHES ON PUBLIC ROADWAYS

HAZARDOUS ACTION	ORV/ATV		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of ORV/ATVs	% of Total		A	B	C	
None	10	13.0	0	4	5	0	1
Speed too fast	26	33.8	0	9	13	2	2
Speed too slow	0	0.0	0	0	0	0	0
Failed to yield	10	13.0	0	2	3	1	4
Disregard traffic control	1	1.3	0	0	0	0	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	0	0.0	0	0	0	0	0
Improper turn	2	2.6	0	1	1	0	0
Improper/no signal	0	0.0	0	0	0	0	0
Improper backing	2	2.6	0	0	0	0	2
Unable to stop in assured clear distance	2	2.6	0	0	1	0	1
Reckless driving	1	1.3	0	1	0	0	0
Careless/negligent driving	8	10.4	0	3	3	0	2
Other	11	14.3	0	4	5	1	1
Unknown	4	5.2	0	1	1	2	0
<b>Total</b>	<b>77</b>	<b>100.0</b>	<b>0</b>	<b>25</b>	<b>32</b>	<b>6</b>	<b>14</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	2019	2020	% CHANGE
Crashes	9	4	-55.6%
Fatalities	0	0	0.0%
Injuries	1	5	400.0%

Four crashes involving farm equipment were reported on Upper Peninsula roadways during 2020. None of those crashes involved a fatality.

## UPPER PENINSULA MICHIGAN VEHICLE-TRAIN CRASHES

VEHICLE TRAIN CRASHES	2019	2020	% CHANGE
Crashes	4	1	-75.0%
Fatalities	0	0	0.0%
Injuries	2	0	-100.0%

A total of one motor-vehicle crash involving trains was reported in the Upper Peninsula during 2020, and that crash did not involve a fatality.

## UPPER PENINSULA MICHIGAN MOTORCYCLE CRASHES

MOTORCYCLE DATA	2019	2020	% CHANGE
Motorcycle Registrations	8,873	7,985	-10.0%
Motorcycles in Crashes	102	114	11.8%
Motorcyclist Deaths	6	5	-16.7%
Motorcyclists Injured	68	105	54.4%
Death Rate based on 10,000 motorcycle registrations	6.76	6.26	-7.4%
Estimated Mileage based on 3,000 miles per motorcycle	26,619,000	23,955,000	-10.0%
Death Rate based on deaths per 100 million vehicle miles traveled	22.54	20.87	-7.4%

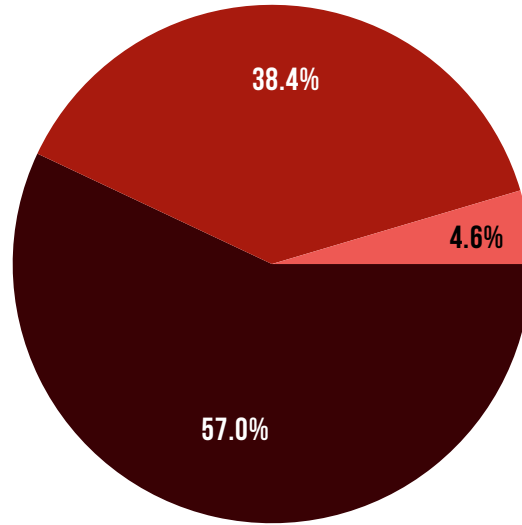
Motorcycles were involved in 1.5 percent of all traffic crashes in the Upper Peninsula in 2020. Injuries were proportionately more severe to motorcyclists than to persons in motor vehicles.

## UPPER PENINSULA DRIVER GENDER INFORMATION

MALES

FEMALES

UNKNOWN

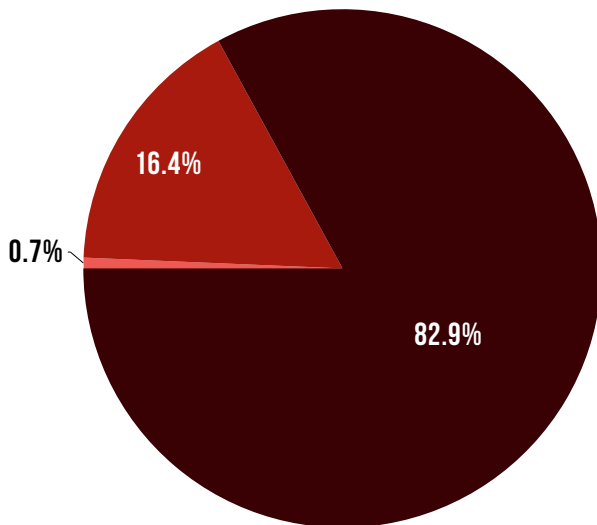


ALL DRIVERS

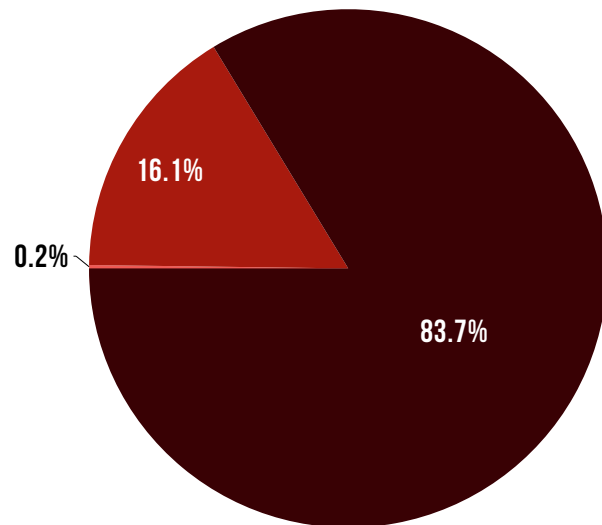
FATAL

INJURY

PROPERTY DAMAGE ONLY



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 (0.7% vs. 0.2%).

## UPPER PENINSULA PERSON AGE - DEMOGRAPHICS AND CRASH INVOLVEMENTS

AGE	LICENSED DRIVERS	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	1,233	47,429	37	0	0	85	6	1	2	0
16	2,110	3,175	162	1	0	32	1	0	0	0
17	2,420	3,293	200	0	0	30	1	0	1	0
18	2,221	4,000	235	0	0	37	1	0	1	0
19	2,604	5,026	268	0	0	35	0	0	1	0
20	2,721	5,141	219	0	0	20	1	0	3	0
21-24	11,233	18,719	860	4	1	146	1	0	6	0
25-29	13,188	16,755	873	4	3	121	1	0	2	0
30-34	14,394	15,336	880	6	4	113	0	0	2	0
35-39	14,733	16,530	778	0	0	93	1	0	3	0
40-44	14,411	15,540	672	6	4	84	0	0	1	0
45-49	14,059	16,244	699	3	2	90	0	0	1	0
50-54	16,047	17,881	702	4	4	88	0	0	1	0
55-59	19,495	21,925	747	3	3	96	0	0	2	0
60-64	22,169	23,602	735	3	2	95	2	0	2	1
65-69	22,118	22,202	516	4	1	68	3	1	0	0
70-74	17,785	17,212	424	2	3	49	0	0	0	0
75-79	11,394	11,940	251	2	2	33	0	0	1	0
80-84	7,364	8,222	150	3	2	27	0	0	0	0
85+	5,476	8,679	115	1	1	19	0	0	0	0
Unknown	---	---	487	4	0	0	0	0	1	0
<b>TOTAL</b>	<b>217,175</b>	<b>298,851</b>	<b>10,010</b>	<b>50</b>	<b>32</b>	<b>1,361</b>	<b>18</b>	<b>2</b>	<b>30</b>	<b>1</b>

\*Population data for 2020 by age is not yet available. Data from 2019 is used.

## 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	1,233	37	0.030
16	2,110	162	0.077
17	2,420	200	0.083
18	2,221	235	0.106
19	2,604	268	0.103
20	2,721	219	0.080
21-24	11,233	860	0.077
25-29	13,188	873	0.066
30-34	14,394	880	0.061
35-39	14,733	778	0.053
40-44	14,411	672	0.047
45-49	14,059	699	0.050
50-54	16,047	702	0.044
55-59	19,495	747	0.038
60-64	22,169	735	0.033
65-69	22,118	516	0.023
70-74	17,785	424	0.024
75-79	11,394	251	0.022
80-84	7,364	150	0.020
85-89	3,766	88	0.023
90-94	1,488	24	0.016
95-99	215	2	0.009
100+	7	1	0.143
<b>TOTAL</b>	<b>217,175</b>	<b>9,523</b>	<b>0.044</b>

*Data entry errors may result in an over-representation of age "100+" drivers*

\*Excludes 487 drivers with unknown age

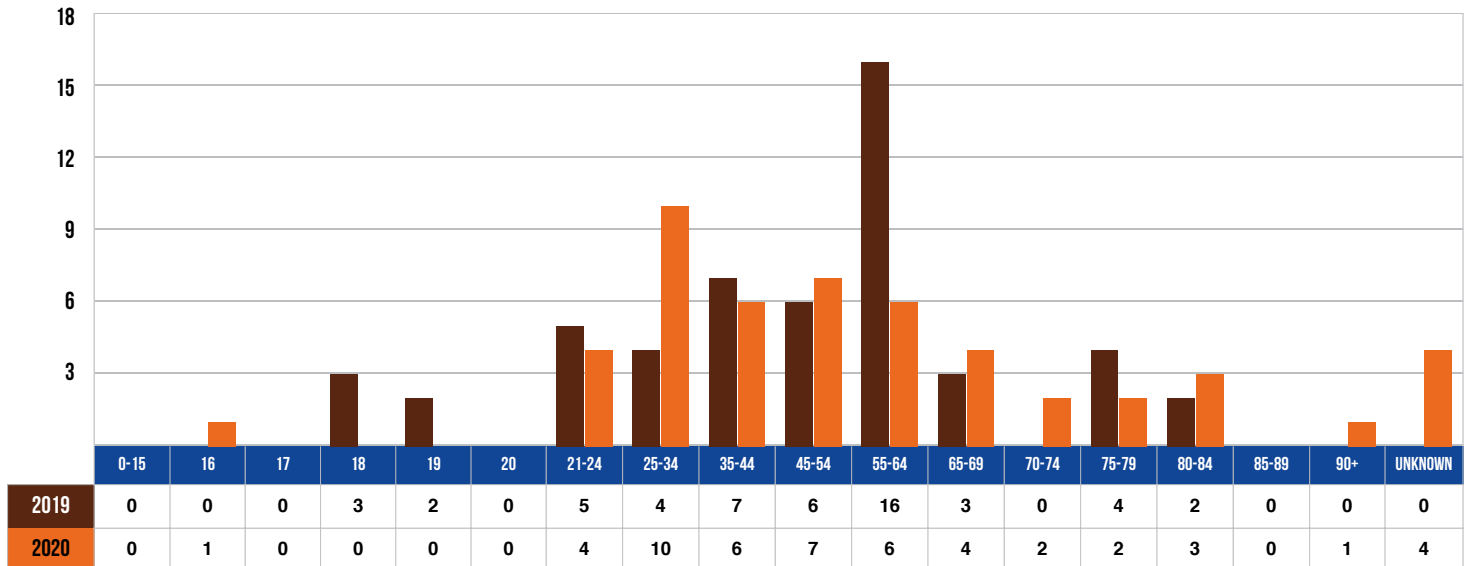
Licensed drivers age 100 and over have the highest crash rate at 0.143 (total crash involvements in age group divided by total number of licensed drivers in age group). The lower crash rates of many of the older groups (per licensed driver) may reflect reduced driving and exposure to the risk of a crash.

## UPPER PENINSULA DRIVER AGE

AGE OF DRIVERS IN FATAL CRASHES	2019	2020	PERCENT CHANGE	PERCENT 2020 FATAL CRASH INVOLVEMENT	PERCENT ACTIVE DRIVING POPULATION*
15 years and under	0	0	0.0	0.0	0.6
16 years	0	1	---	2.0	1.0
17 years	0	0	0.0	0.0	1.1
18 years	3	0	-100.0	0.0	1.0
19 years	2	0	-100.0	0.0	1.2
20 years	0	0	0.0	0.0	1.3
21 - 24 years	5	4	-20.0	8.0	5.2
25 - 34 years	4	10	150.0	20.0	12.7
35 - 44 years	7	6	-14.3	12.0	13.4
45 - 54 years	6	7	16.7	14.0	13.9
55 - 64 years	16	6	-62.5	12.0	19.2
65 - 69 years	3	4	33.3	8.0	10.2
70 - 74 years	0	2	---	4.0	8.2
75 - 79 years	4	2	-50.0	4.0	5.2
80 - 84 years	2	3	50.0	6.0	3.4
85 - 89 years	0	0	0.0	0.0	1.7
90 years and over	0	1	---	2.0	0.8
Unknown	0	4	---	8.0	---
Total	52	50	-3.8	100.0	100.0

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

### 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	
Normal	7,438	15	157	303	598	6,365
Fatigued or Asleep	69	1	4	8	20	36
Sick	15	0	2	4	2	7
Medicated	20	0	0	5	6	9
Emotional	143	1	14	24	33	71
Physically Disabled	42	3	23	7	5	4
Unknown	1,533	19	68	56	97	1,293
Other	257	5	40	38	53	121

Note: Drivers may have more than one condition including "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 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		
<b>ALL DRIVERS</b>									
Restraint Used*	8,787	87.8	11	44.0	130	248	495	7,903	0
Restraint Not Used	187	1.9	13	52.0	42	31	20	81	0
Unknown	1,036	10.3	1	4.0	9	13	34	459	520
<b>TOTAL</b>	<b>10,010</b>	<b>100.0</b>	<b>25</b>	<b>100.0</b>	<b>181</b>	<b>292</b>	<b>549</b>	<b>8,443</b>	<b>520</b>
<b>DRINKING DRIVERS ONLY</b>									
Restraint Used*	172	62.1	3	50.0	14	22	15	118	0
Restraint Not Used	43	15.5	3	50.0	17	7	6	10	0
Unknown	62	22.4	0	0.0	3	6	9	44	0
<b>TOTAL</b>	<b>277</b>	<b>100.0</b>	<b>6</b>	<b>100.0</b>	<b>34</b>	<b>35</b>	<b>30</b>	<b>172</b>	<b>0</b>
<b>DRUGGED DRIVERS ONLY</b>									
Restraint Used*	36	67.9	1	20.0	3	8	6	18	0
Restraint Not Used	6	11.3	4	80.0	0	1	0	1	0
Unknown	11	20.8	0	0.0	2	1	1	7	0
<b>TOTAL</b>	<b>53</b>	<b>100.0</b>	<b>5</b>	<b>100.0</b>	<b>5</b>	<b>10</b>	<b>7</b>	<b>26</b>	<b>0</b>
<b>DRINKING AND DRUGGED DRIVERS ONLY</b>									
Restraint Used*	38	58.5	0	0.0	7	6	9	16	0
Restraint Not Used	11	16.9	3	100.0	3	2	2	1	0
Unknown	16	24.6	0	0.0	3	2	1	9	1
<b>TOTAL</b>	<b>65</b>	<b>100.0</b>	<b>3</b>	<b>100.0</b>	<b>13</b>	<b>10</b>	<b>12</b>	<b>26</b>	<b>1</b>

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