

UPPER PENINSULA VEHICLE TYPE AND CRASH INVOLVEMENT

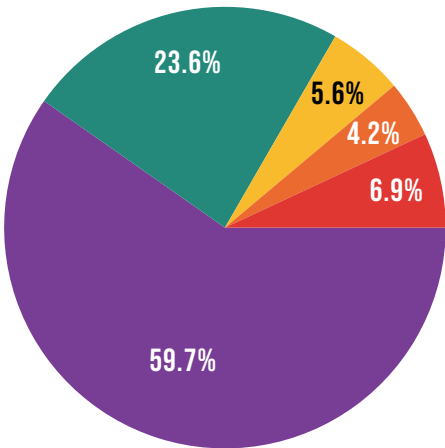
VEHICLE TYPE	MOTOR VEHICLES		FATAL CRASH		INJURY CRASH	PROPERTY DAMAGE ONLY	FATALITY IN VEHICLE		INJURY	NO INJURY
	Number of Vehicles	% of Total	Number	% of Total			Number	% of Total		
Passenger Car, SUV, Van	7,590	68.8	43	59.7	1,071	6,476	19	50.0	749	6,822
Motor Home	16	0.1	0	0.0	1	15	0	0.0	0	16
Pickup Truck	2,589	23.5	17	23.6	361	2,211	10	26.3	217	2,362
Small Truck Under 10,000 lbs. GVWR	69	0.6	0	0.0	9	60	0	0.0	6	63
Motorcycle	110	1.0	4	5.6	88	18	4	10.5	85	21
Moped/Goped	17	0.2	0	0.0	12	5	0	0.0	12	5
Go-Cart/Golf Cart	0	0.0	0	0.0	0	0	0	0.0	0	0
Snowmobile	42	0.4	1	1.4	33	8	1	2.6	32	9
Off-Road Vehicle (ORV)/All-Terrain Vehicle (ATV)	73	0.7	4	5.6	53	16	4	10.5	50	19
Other (non-registered farm equipment, construction equipment, snow plows, etc.)	38	0.3	0	0.0	7	31	0	0.0	3	35
Uncoded & Errors	171	1.6	0	0.0	5	166	0	0.0	0	171
Truck/Bus (over 10,000 lbs. GVWR/8+ occupants/hazmat placard) (breakdown below)	310	2.8	3	4.2	44	263	0	0.0	13	297
Total Number of Vehicles	11,025	100.0	72	100.0	1,684	9,269	38	100.0	1,167	9,820

Note: Buses cannot be broken out of Heavy Truck/Bus

HEAVY 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	1	0.3	0	0.0	0	1	0	0.0	0	1
10,001-26,000 lbs.	125	40.3	2	66.7	15	108	0	0.0	6	119
Greater Than 26,000 lbs.	184	59.4	1	33.3	29	154	0	0.0	7	177
Uncoded & Errors	0	0.0	0	0.0	0	0	0	0.0	0	0
Total Number of Vehicles	310	100.0	3	100.0	44	263	0	0.0	13	297

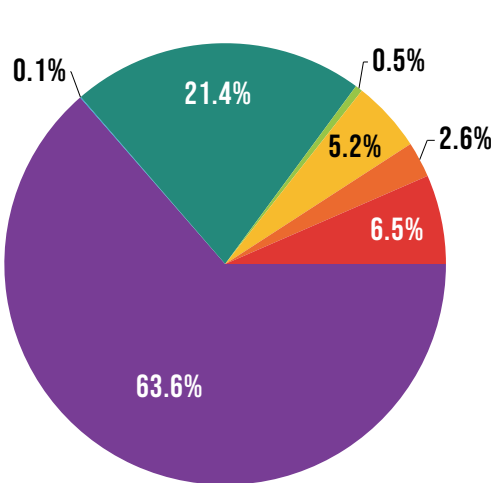
UPPER PENINSULA VEHICLE TYPES IN CRASHES BY CRASH SEVERITY

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

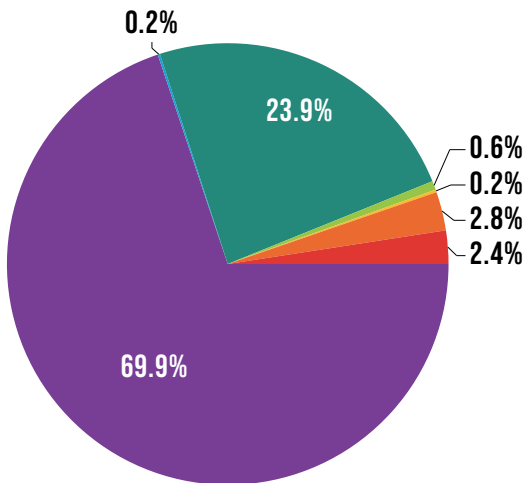


FATAL

The top chart shows that 83.3 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 5.6 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 (85.6%) and property damage only (PDO) crashes (94.6%) 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	7,305	66.3	49	196	320	542	6,198
Turning Left	526	4.8	0	32	36	86	372
Turning Right	324	2.9	0	5	14	24	281
Stopped on Roadway	471	4.3	2	5	26	59	379
Involved in Prior Crash at Same Location	0	0.0	0	0	0	0	0
Changing Lanes	123	1.1	1	0	3	5	114
Backing	376	3.4	0	0	1	7	368
Slowing/Stopping on Roadway	455	4.1	0	6	19	68	362
Slowing/Stopping Other Area	15	0.1	0	1	2	1	11
Starting Up on Roadway	122	1.1	1	3	8	5	105
Starting Up in Other Area	6	0.1	1	0	1	0	4
Entering Parking	21	0.2	0	0	0	0	21
Leaving Parking	49	0.4	0	1	0	4	44
Entering Roadway	112	1.0	2	8	9	9	84
Leaving Roadway	25	0.2	1	3	1	3	17
Making U-Turn	20	0.2	0	3	3	3	11
Overtaking or Passing	79	0.7	0	5	9	7	58
Avoiding Object	6	0.1	0	0	0	0	6
Avoiding Animal	47	0.4	0	0	3	4	40
Avoiding Pedestrian	2	0.0	0	0	0	0	2
Avoiding Vehicle (front/back)	49	0.4	0	4	4	8	33
Avoiding Vehicle (angle)	14	0.1	1	1	2	1	9
Driverless Moving	16	0.1	0	1	0	1	14
Parked	499	4.5	5	7	18	19	450
Crossing at Intersection	6	0.1	0	1	1	0	4
Crossing Not at Intersection	1	0.0	0	1	0	0	0
Getting On/Off Vehicle	0	0.0	0	0	0	0	0
In Roadway With Traffic	1	0.0	0	0	0	1	0
In Roadway Against Traffic	0	0.0	0	0	0	0	0
Standing/Lying in Roadway	0	0.0	0	0	0	0	0
Pushing/Working on Vehicle	0	0.0	0	0	0	0	0
Other Work 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	0	0	1
Negotiating a Curve	231	2.1	7	12	19	25	168
Other	21	0.2	1	0	1	3	16
Unknown	102	0.9	1	0	2	2	97
TOTAL	11,025	100.0	72	295	502	887	9,269

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	67	60.9	75	58.6	3	31	23	7	11
Turning Left	6	5.5	7	5.5	0	0	1	1	5
Turning Right	2	1.8	2	1.6	0	0	0	1	1
Stopped on Roadway	2	1.8	4	3.1	0	0	1	2	1
Involved in Prior Crash at Same Location	0	0.0	0	0.0	0	0	0	0	0
Changing Lanes	0	0.0	0	0.0	0	0	0	0	0
Backing	0	0.0	0	0.0	0	0	0	0	0
Slowing/Stopping on Roadway	7	6.4	9	7.0	0	4	1	1	3
Slowing/Stopping Other Area	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 in Other Area	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	1	0.9	1	0.8	0	0	0	0	1
Leaving Roadway	0	0.0	0	0.0	0	0	0	0	0
Making U-Turn	0	0.0	0	0.0	0	0	0	0	0
Overtaking or Passing	5	4.5	6	4.7	0	1	4	1	0
Avoiding Object	0	0.0	0	0.0	0	0	0	0	0
Avoiding Animal	1	0.9	1	0.8	0	0	1	0	0
Avoiding Pedestrian	0	0.0	0	0.0	0	0	0	0	0
Avoiding Vehicle (front/back)	4	3.6	5	3.9	0	3	0	1	1
Avoiding Vehicle (angle)	2	1.8	2	1.6	0	0	0	1	1
Driverless Moving	0	0.0	0	0.0	0	0	0	0	0
Parked	2	1.8	2	1.6	0	0	0	0	1
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/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 Work 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	10	9.1	13	10.2	1	7	3	2	0
Other	0	0.0	0	0.0	0	0	0	0	0
Unknown	1	0.9	1	0.8	0	0	1	0	0
TOTAL	110	100.0	128	100.0	4	46	35	17	25

*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	22	68.8	0	4	9	5	4
Turning Left	1	3.1	0	1	0	0	0
Turning Right	0	0.0	0	0	0	0	0
Stopped on Roadway	0	0.0	0	0	0	0	0
Involved in Prior Crash at Same Location	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 Area	0	0.0	0	0	0	0	0
Starting Up on Roadway	0	0.0	0	0	0	0	0
Starting Up in Other Area	0	0.0	0	0	0	0	0
Entering Parking	1	3.1	0	0	1	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	1	3.1	0	0	1	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	6	18.8	0	2	1	3	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	0	0.0	0	0	0	0	0
In Roadway Against Traffic	0	0.0	0	0	0	0	0
Standing/Lying in Roadway	0	0.0	0	0	0	0	0
Pushing/Working on Vehicle	0	0.0	0	0	0	0	0
Other Work 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	3.1	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
TOTAL	32	100.0	0	7	12	8	4

*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	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
Involved in Prior Crash at Same Location	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 Area	0	0.0	0	0	0	0	0
Starting Up on Roadway	0	0.0	0	0	0	0	0
Starting Up in Other Area	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	11	44.0	1	3	4	3	0
Crossing Not at Intersection	4	16.0	0	0	1	2	1
Getting On/Off Vehicle	0	0.0	0	0	0	0	0
In Roadway With Traffic	1	4.0	0	1	0	0	0
In Roadway Against Traffic	0	0.0	0	0	0	0	0
Standing/Lying in Roadway	2	8.0	0	0	1	1	0
Pushing/Working on Vehicle	0	0.0	0	0	0	0	0
Other Work in Roadway	2	8.0	1	0	0	1	0
Playing in Roadway	1	4.0	0	0	0	1	0
In Roadway Other Reason	2	8.0	0	1	0	1	0
Not in Roadway	1	4.0	0	1	0	0	0
Negotiating a Curve	0	0.0	0	0	0	0	0
Other	0	0.0	0	0	0	0	0
Unknown	1	4.0	1	0	0	0	0
TOTAL	25	100.0	3	6	6	9	1

*Includes no 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	182	1.7	0	11	19	11	141
Ran Off Roadway Left	81	0.7	1	1	5	5	69
Ran Off Roadway Right	108	1.0	0	0	5	6	97
Re-Enter Roadway	20	0.2	1	2	0	3	14
Overturn	253	2.3	8	20	45	55	125
Separation of Units	47	0.4	0	2	0	7	38
Fire/Explosion	17	0.2	0	1	1	1	14
Immersion	7	0.1	0	0	3	0	4
Jackknife	6	0.1	0	0	0	0	6
Downhill Runaway	0	0.0	0	0	0	0	0
Cargo Loss/Shift	15	0.1	1	0	1	0	13
Individual Fell from Vehicle	25	0.2	1	10	8	5	1
Other Noncollision	32	0.3	0	2	1	3	26
Equipment Failure (blown tire, brake failure, etc.)	21	0.2	0	0	3	0	18
Cross Centerline	49	0.4	0	3	3	2	41
Cross Median	7	0.1	0	1	0	1	5
SUBTOTAL	870	7.9	12	53	94	99	612

COLLISION WITH A NONFIXED OBJECT	MOTOR VEHICLES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Vehicles	% of Total		A	B	C	
Pedestrian	22	0.2	2	5	5	9	1
Bicyclist	29	0.3	0	6	11	7	5
Motor Vehicle in Transport (in motion or on roadway)	5,024	45.6	47	162	266	601	3,948
Parked Motor Vehicle	523	4.7	2	5	17	22	477
Railroad Train	4	0.0	1	0	0	1	2
Animal	3,345	30.3	0	11	15	33	3,286
Other Nonfixed Object	113	1.0	0	1	6	8	98
Work Zone/Maintenance Equipment	1	0.0	0	0	0	0	1
Cargo Falling/Shifting/Anything Set in Motion by a Motor Vehicle	19	0.2	0	0	0	2	17
SUBTOTAL	9,080	82.4	52	190	320	683	7,835

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	0	0.0	0	0	0	0	0
Bridge Rail	8	0.1	0	0	0	1	7
Guardrail Face	58	0.5	0	0	7	5	46
Guardrail End	13	0.1	0	1	1	1	10
Other Post/Pole/Support	29	0.3	0	1	3	1	24
Culvert	10	0.1	0	0	2	2	6
Curb	10	0.1	0	0	0	1	9
Ditch	197	1.8	2	5	14	21	155
Embankment	44	0.4	1	2	5	7	29
Fence	7	0.1	0	0	1	1	5
Mailbox	28	0.3	0	0	1	1	26
Tree	354	3.2	3	31	38	46	236
Railroad Crossing Signal	1	0.0	0	0	0	0	1
Building	23	0.2	1	0	0	3	19
Traffic Island	1	0.0	0	0	0	0	1
Fire Hydrant	13	0.1	0	0	2	0	11
Impact Attenuator (crash cushion)	11	0.1	0	2	0	0	9
Other Fixed Object	49	0.4	0	4	5	2	38
Bridge Overhead Structure	1	0.0	0	0	0	0	1
Cable Barrier	3	0.0	0	0	0	0	3
Concrete Barrier	9	0.1	0	0	0	2	7
Traffic Sign/Post	86	0.8	0	0	3	0	83
Traffic Signal Equipment	14	0.1	0	0	1	2	11
Utility Pole/Light Support	105	1.0	1	6	5	9	84
SUBTOTAL	1,074	9.7	8	52	88	105	821

	MOTOR VEHICLES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Vehicles	% of Total		A	B	C	
Uncoded & Errors	0	0.0	0	0	0	0	0
No Event Coded as Most Harmful	1	0.0	0	0	0	0	1
MOST HARMFUL EVENT TOTAL	11,025	100.0	72	295	502	887	9,269

UPPER PENINSULA VEHICLE DEFECTS IN CRASH INVOLVEMENT

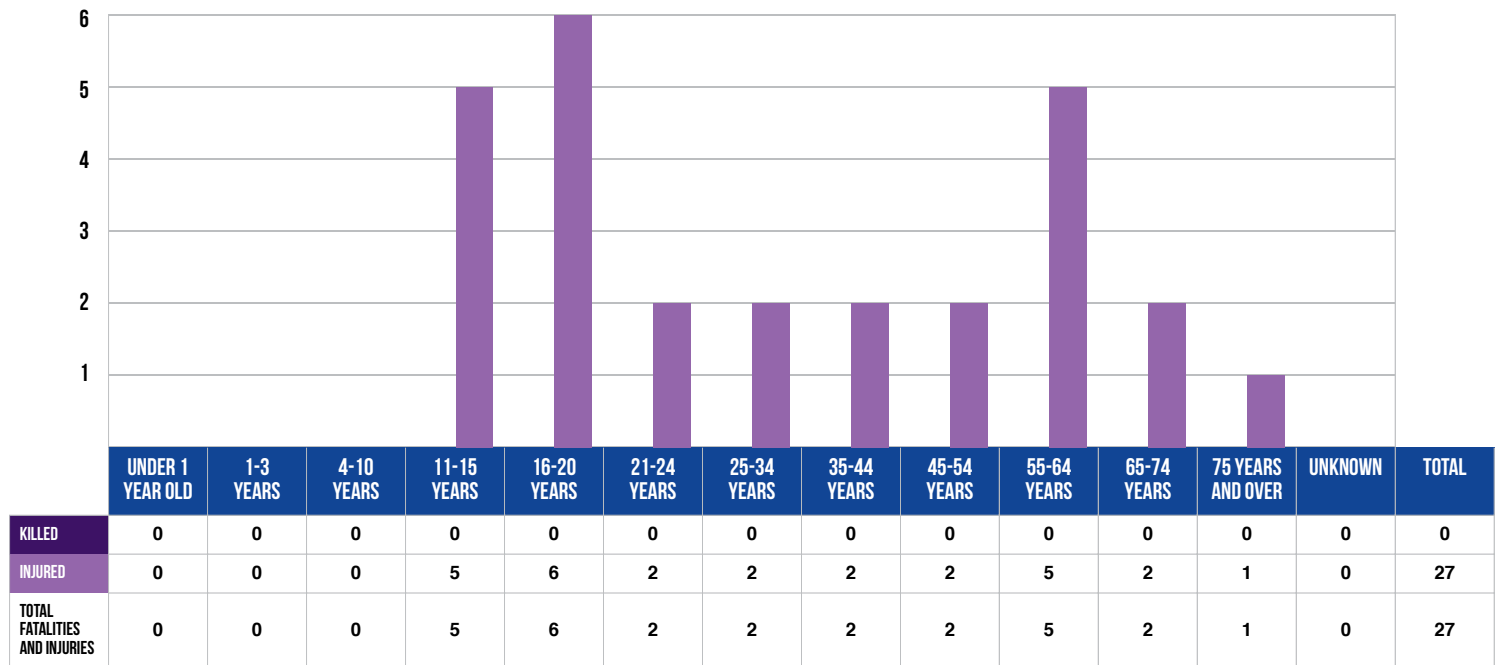
VEHICLE DEFECTS	MOTOR VEHICLES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Vehicles	% of Total		A	B	C	
Brakes	17	0.2	0	0	0	4	13
Lights/Reflectors	6	0.1	0	0	0	0	6
Steering	4	0.0	0	0	0	1	3
Tires/Wheels/Rims	21	0.2	0	0	3	0	18
Windows/Windshield	5	0.0	0	0	1	1	3
Coupling/Hitch/Chains	5	0.0	0	0	0	0	5
Other	20	0.2	0	0	5	1	14
Uncoded & Errors	10,947	99.3	72	295	493	880	9,207
TOTAL	11,025	100.0	72	295	502	887	9,269

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	6,535	59.3	29	113	214	406	5,773
Speed Too Fast	832	7.5	8	35	59	102	628
Speed Too Slow	6	0.1	0	2	1	0	3
Failed to Yield	788	7.1	7	51	61	104	565
Disregard Traffic Control	138	1.3	2	7	6	36	87
Drove Wrong Way	9	0.1	0	0	0	1	8
Drove Left of Center	61	0.6	2	4	5	6	44
Improper Passing	50	0.5	0	1	0	4	45
Improper Lane Use	150	1.4	0	0	4	6	140
Improper Turn	107	1.0	0	3	6	9	89
Improper/No Signal	15	0.1	0	0	0	2	13
Improper Backing	264	2.4	0	0	0	3	261
Unable to Stop in Assured Clear Distance	720	6.5	2	7	27	90	594
Reckless Driving	57	0.5	5	6	8	5	33
Careless/Negligent Driving	447	4.1	5	33	56	52	301
Other	347	3.1	1	16	37	36	257
Unknown	499	4.5	11	17	18	25	428
TOTAL	11,025	100.0	72	295	502	887	9,269

UPPER PENINSULA MICHIGAN BICYCLE CRASHES

2021 BICYCLIST FATALITIES AND INJURIES



In 2021 in the Upper Peninsula, there were 32 bicyclists involved in motor vehicle crashes, with no bicyclists killed and 27 injured.

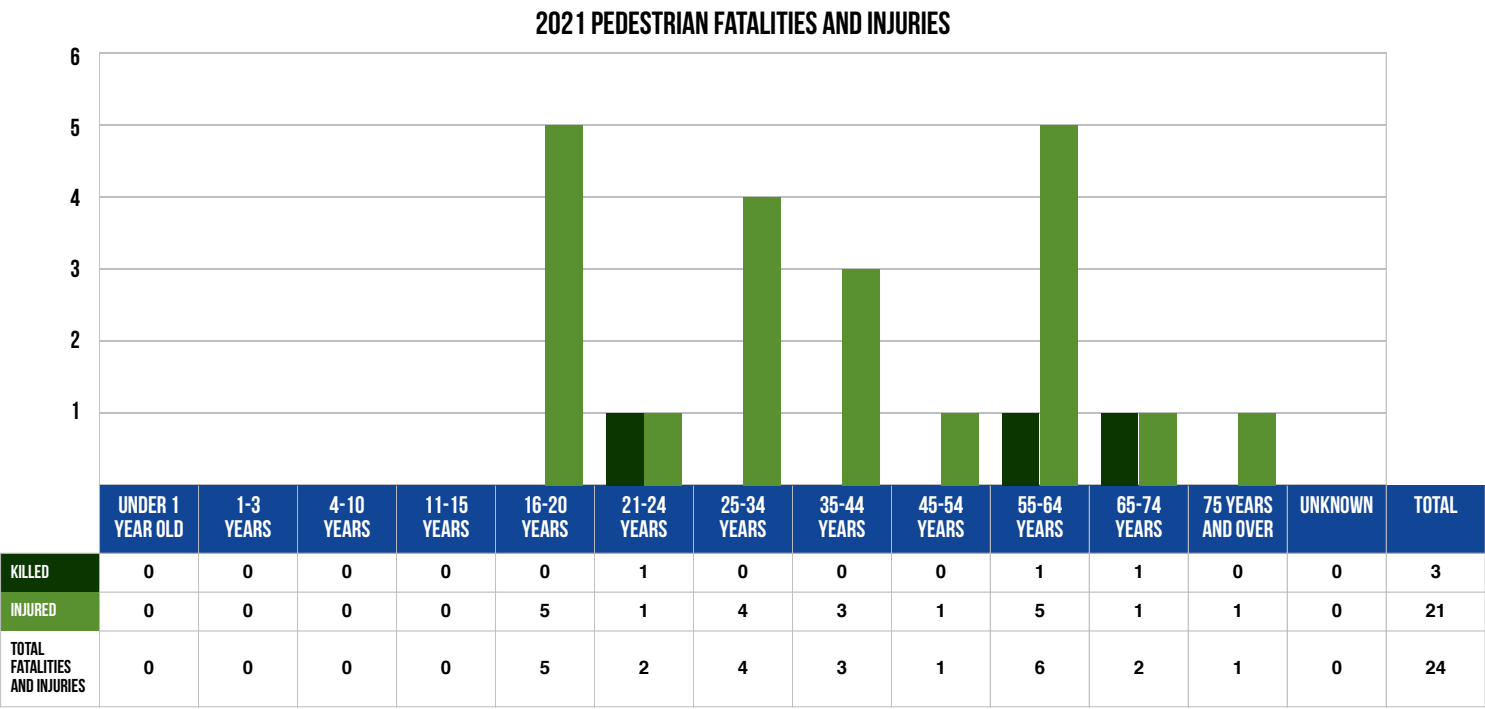
BICYCLE HELMET USE AND INJURY SEVERITY

HELMET USE	FATALITY	INJURY			NO INJURY	UNKNOWN	TOTAL
		A	B	C			
Worn	0	3	2	2	1	0	8
Not Worn	0	3	6	5	3	0	17
Unknown	0	1	4	1	0	1	7
TOTAL	0	7	12	8	4	1	32

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

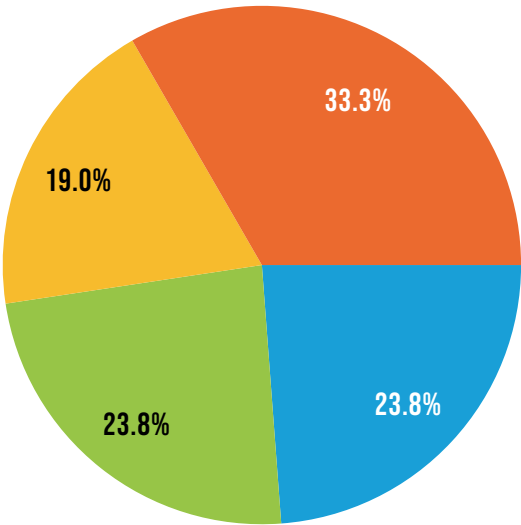
The National Center for Statistics and Analysis of the National Highway Traffic Safety Administration cites a study by the Centers for Disease Control [12]: "Bicycle helmets are 85 to 88 percent effective in mitigating head and brain injuries in all types of bicycle accidents, making the use of helmets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

UPPER PENINSULA MICHIGAN PEDESTRIAN CRASHES



In 2021 in the Upper Peninsula, there were 25 pedestrians involved in motor vehicle crashes, with three pedestrians killed and 21 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	7	16.7	0	3	4	0	0
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	1	2.4	0	1	0	0	0
Overturn	4	9.5	0	2	2	0	0
Separation of Units	0	0.0	0	0	0	0	0
Fire/Explosion	1	2.4	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 from Vehicle	4	9.5	0	1	2	0	1
Other Noncollision	0	0.0	0	0	0	0	0
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
SUBTOTAL	17	40.5	0	7	8	0	2

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 (in motion or on roadway)	12	28.6	1	4	3	2	2
Parked Motor Vehicle	1	2.4	0	0	0	0	1
Railroad Train	0	0.0	0	0	0	0	0
Animal	0	0.0	0	0	0	0	0
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
SUBTOTAL	13	31.0	1	4	3	2	3

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	2.4	0	0	1	0	0
Fence	0	0.0	0	0	0	0	0
Mailbox	0	0.0	0	0	0	0	0
Tree	8	19.0	0	5	0	1	2
Railroad 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 (crash cushion)	1	2.4	0	1	0	0	0
Other Fixed Object	1	2.4	0	0	0	1	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	1	2.4	0	0	0	0	1
SUBTOTAL	12	28.6	0	6	1	2	3

	SNOWMOBILES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Snowmobiles	% of Total		A	B	C	
Uncoded & Errors	0	0.0	0	0	0	0	0
No Event Coded as Most Harmful	0	0.0	0	0	0	0	0
MOST HARMFUL EVENT TOTAL	42	100.0	1	17	12	4	8

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 42 snowmobiles were reported in crashes on Upper Peninsula public roadways during 2021, resulting in one fatal crash. A total of 33 snowmobiles were involved in 31 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	5	6.8	0	0	1	3	1
Ran Off Roadway Left	1	1.4	0	0	1	0	0
Ran Off Roadway Right	0	0.0	0	0	0	0	0
Re-Enter Roadway	1	1.4	0	0	0	0	1
Overturn	16	21.9	1	5	5	4	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 from Vehicle	8	11.0	0	3	1	4	0
Other Noncollision	0	0.0	0	0	0	0	0
Equipment Failure (blown tire, brake failure, etc.)	1	1.4	0	0	1	0	0
Cross Centerline	1	1.4	0	0	0	0	1
Cross Median	0	0.0	0	0	0	0	0
SUBTOTAL	33	45.2	1	8	9	11	4

COLLISION WITH A NONFIXED OBJECT	ORV/ATV		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of ORV/ATVs	% of Total		A	B	C	
Pedestrian	1	1.4	0	0	0	1	0
Bicyclist	0	0.0	0	0	0	0	0
Motor Vehicle in Transport (in motion or on roadway)	20	27.4	2	7	2	5	4
Parked Motor Vehicle	2	2.7	0	0	0	0	2
Railroad Train	0	0.0	0	0	0	0	0
Animal	4	5.5	0	0	0	1	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
SUBTOTAL	27	37.0	2	7	2	7	9

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	3	4.1	0	1	2	0	0
Embankment	1	1.4	1	0	0	0	0
Fence	0	0.0	0	0	0	0	0
Mailbox	1	1.4	0	0	0	0	1
Tree	5	6.8	0	2	0	3	0
Railroad 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 (crash cushion)	0	0.0	0	0	0	0	0
Other Fixed Object	2	2.7	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	1	1.4	0	0	0	0	1
SUBTOTAL	13	17.8	1	4	2	3	3

	ORV/ATV		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of ORV/ ATVs	% of Total		A	B	C	
Uncoded & Errors	0	0.0	0	0	0	0	0
No Event Coded as Most Harmful	0	0.0	0	0	0	0	0
MOST HARMFUL EVENT TOTAL	73	100.0	4	19	13	21	16

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 73 off-road/all-terrain vehicles were reported in crashes on Upper Peninsula public roadways during 2021, resulting in four fatal crashes. An additional 53 ORV/ATVs were involved in 48 injury crashes.

UPPER PENINSULA MICHIGAN SNOWMOBILE CRASHES ON PUBLIC ROADWAYS - HAZARDOUS ACTION

HAZARDOUS ACTION	SNOWMOBILES		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of Snowmobiles	% of Total		A	B	C	
None	11	26.2	0	3	5	1	2
Speed Too Fast	2	4.8	0	0	2	0	0
Speed Too Slow	2	4.8	0	2	0	0	0
Failed to Yield	7	16.7	1	3	2	0	1
Disregard Traffic Control	2	4.8	0	1	0	1	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	1	2.4	0	0	1	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	0	0.0	0	0	0	0	0
Careless/Negligent Driving	4	9.5	0	2	1	1	0
Other	4	9.5	0	1	1	0	2
Unknown	9	21.4	0	5	0	1	3
TOTAL	42	100.0	1	17	12	4	8

UPPER PENINSULA MICHIGAN ORV/ATV CRASHES ON PUBLIC ROADWAYS - HAZARDOUS ACTION

HAZARDOUS ACTION	ORV/ATV		FATAL CRASH	INJURY CRASH			PROPERTY DAMAGE ONLY
	Number of ORV/ATVs	% of Total		A	B	C	
None	15	20.5	0	2	3	4	6
Speed Too Fast	24	32.9	0	7	5	10	2
Speed Too Slow	0	0.0	0	0	0	0	0
Failed to Yield	5	6.8	1	2	0	1	1
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	1	1.4	0	0	1	0	0
Improper Turn	3	4.1	0	0	1	1	1
Improper/No Signal	2	2.7	0	0	0	1	1
Improper Backing	0	0.0	0	0	0	0	0
Unable to Stop in Assured Clear Distance	2	2.7	0	0	0	0	2
Reckless Driving	2	2.7	0	1	1	0	0
Careless/Negligent Driving	5	6.8	0	2	1	1	1
Other	6	8.2	0	3	1	1	1
Unknown	8	11.0	3	2	0	2	1
TOTAL	73	100.0	4	19	13	21	16

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	2020	2021	% CHANGE
Crashes	4	3	-25.0%
Fatalities	0	0	0.0%
Injuries	5	0	-100.0%

Three crashes involving farm equipment were reported on Upper Peninsula roadways during 2021. None of those crashes involved a fatality.

UPPER PENINSULA MICHIGAN VEHICLE-TRAIN CRASHES

VEHICLE TRAIN CRASHES	2020	2021	% CHANGE
Crashes	1	4	300.0%
Fatalities	0	1	---
Injuries	0	1	---

A total of four motor-vehicle crashes involving trains was reported in the Upper Peninsula during 2021, and one crash involved a fatality.

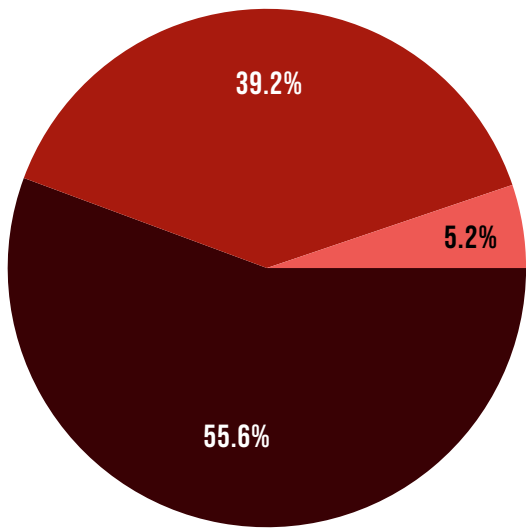
UPPER PENINSULA MICHIGAN MOTORCYCLE CRASHES

MOTORCYCLE DATA	2020	2021	% CHANGE
Motorcycle Registrations	7,985	9,121	14.2%
Motorcycles in Crashes	114	110	-3.5%
Motorcyclist Deaths	5	4	-20.0%
Motorcyclists Injured	105	98	-6.7%
Death Rate based on 10,000 motorcycle registrations	6.26	4.39	-30.0%
Estimated Mileage based on 3,000 miles per motorcycle	23,955,000	27,363,000	14.2%
Death Rate based on deaths per 100 million vehicle miles traveled	20.87	14.62	-30.0%

Motorcycles were involved in 1.3 percent of all traffic crashes in the Upper Peninsula in 2021. Injuries were proportionately more severe to motorcyclists than to persons in motor vehicles.

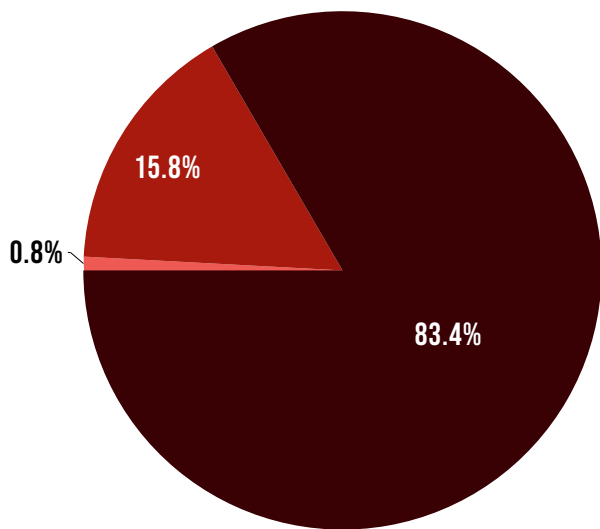
UPPER PENINSULA DRIVER GENDER INFORMATION

MALES FEMALES UNKNOWN

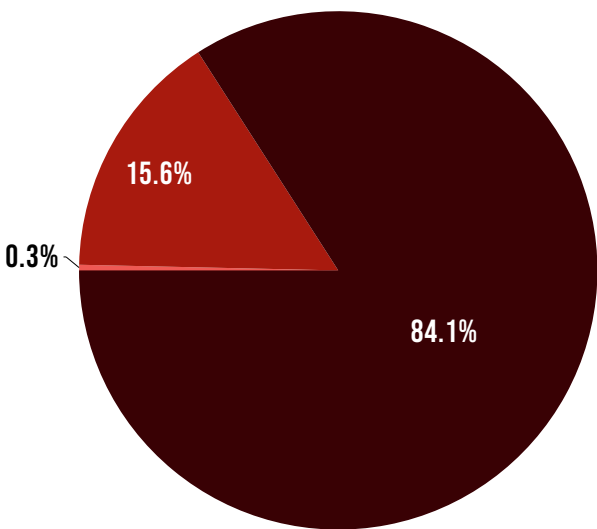


ALL DRIVERS

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 (0.8% vs. 0.3%).

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	1,244	---	36	0	0	91	5	0	0	0
16	2,141	---	187	0	0	32	2	0	4	0
17	2,377	---	255	1	0	43	0	0	0	0
18	2,337	---	289	1	0	34	1	0	1	0
19	2,507	---	249	0	0	38	5	0	0	0
20	2,816	---	290	4	4	39	1	0	0	0
21-24	11,795	---	943	3	1	130	2	0	2	1
25-29	14,604	---	927	4	2	130	1	0	3	0
30-34	16,348	---	852	9	5	91	1	0	1	0
35-39	17,262	---	886	3	0	112	2	0	1	0
40-44	17,614	---	723	9	6	74	0	0	2	0
45-49	16,905	---	709	8	5	78	2	0	1	0
50-54	19,883	---	732	2	3	82	1	0	0	0
55-59	23,991	---	780	4	0	100	2	0	2	1
60-64	27,849	---	799	5	7	98	3	0	4	0
65-69	28,551	---	647	8	2	72	2	0	1	0
70-74	22,445	---	512	3	3	65	0	0	2	1
75-79	14,079	---	313	1	2	37	1	0	0	0
80-84	8,550	---	186	1	0	31	0	0	1	0
85+	6,204	---	108	1	1	17	0	0	0	0
Unknown	---	---	602	5	0	0	1	0	0	0
TOTAL	259,502	---	11,025	72	41	1,394	32	0	25	3

*Population data for 2021 by age is not yet available for the Upper Peninsula.

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	1,244	36	0.029
16	2,141	187	0.087
17	2,377	255	0.107
18	2,337	289	0.124
19	2,507	249	0.099
20	2,816	290	0.103
21-24	11,795	943	0.080
25-29	14,604	927	0.063
30-34	16,348	852	0.052
35-39	17,262	886	0.051
40-44	17,614	723	0.041
45-49	16,905	709	0.042
50-54	19,883	732	0.037
55-59	23,991	780	0.033
60-64	27,849	799	0.029
65-69	28,551	647	0.023
70-74	22,445	512	0.023
75-79	14,079	313	0.022
80-84	8,550	186	0.022
85-89	4,262	83	0.019
90-94	1,645	20	0.012
95-99	285	5	0.018
100+	12	0	0.000
TOTAL	259,502	10,423	0.040

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

*Excludes 602 drivers with unknown age

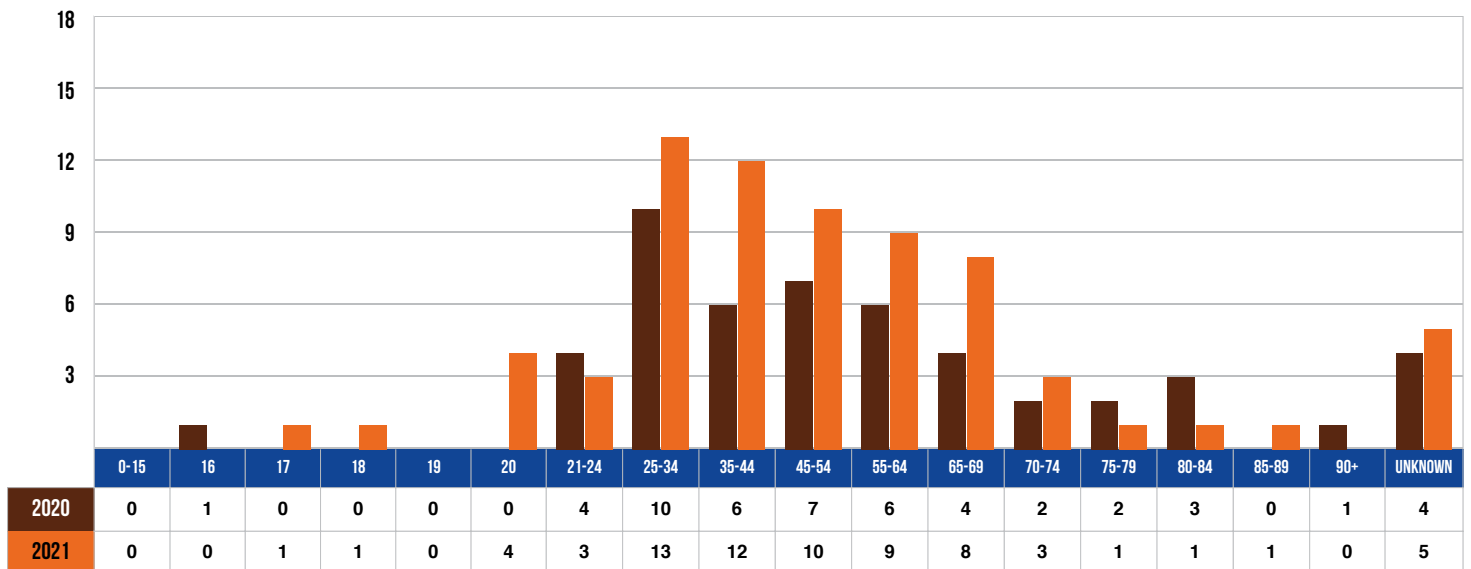
Licensed drivers age 18 have the highest crash rate at 0.124 (total crash involvements in age group divided by total number of licensed drivers in age group). The lower crash rates of many of the older groups (per licensed driver) may reflect reduced driving and exposure to the risk of a crash.

UPPER PENINSULA DRIVER AGE

AGE OF DRIVERS IN FATAL CRASHES	2020	2021	PERCENT CHANGE	PERCENT 2021 FATAL CRASH INVOLVEMENT	PERCENT ACTIVE DRIVING POPULATION*
15 years and under	0	0	0.0	0.0	0.5
16 years	1	0	-100.0	0.0	0.8
17 years	0	1	---	1.4	0.9
18 years	0	1	---	1.4	0.9
19 years	0	0	0.0	0.0	1.0
20 years	0	4	---	5.6	1.1
21 - 24 years	4	3	-25.0	4.2	4.5
25 - 34 years	10	13	30.0	18.1	11.9
35 - 44 years	6	12	100.0	16.7	13.4
45 - 54 years	7	10	42.9	13.9	14.2
55 - 64 years	6	9	50.0	12.5	20.0
65 - 69 years	4	8	100.0	11.1	11.0
70 - 74 years	2	3	50.0	4.2	8.6
75 - 79 years	2	1	-50.0	1.4	5.4
80 - 84 years	3	1	-66.7	1.4	3.3
85 - 89 years	0	1	---	1.4	1.6
90 years and over	1	0	-100.0	0.0	0.7
Unknown	4	5	25.0	6.9	---
TOTAL	50	72	44.0	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	7,879	23	151	304	623	6,778
Fatigued or Asleep	74	0	4	11	19	40
Sick	24	1	1	6	6	10
Medicated	17	0	1	1	4	11
Emotional	200	3	19	31	54	93
Physically Disabled	53	10	26	6	5	6
Unknown	1,851	20	57	76	106	1,592
Other	299	12	35	51	54	147

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		
ALL DRIVERS									
Restraint Used*	9,531	86.4	14	40.0	119	252	505	8,641	0
Restraint Not Used	191	1.7	17	48.6	33	34	27	80	0
Unknown	1,303	11.8	4	11.4	19	17	28	590	645
TOTAL	11,025	100.0	35	100.0	171	303	560	9,311	645
DRINKING DRIVERS ONLY									
Restraint Used*	169	63.3	1	25.0	8	23	26	111	0
Restraint Not Used	31	11.6	2	50.0	10	7	4	8	0
Unknown	67	25.1	1	25.0	3	7	1	55	0
TOTAL	267	100.0	4	100.0	21	37	31	174	0
DRUGGED DRIVERS ONLY									
Restraint Used*	46	56.8	0	0.0	4	7	4	31	0
Restraint Not Used	9	11.1	3	100.0	2	2	0	2	0
Unknown	26	32.1	0	0.0	2	2	3	19	0
TOTAL	81	100.0	3	100.0	8	11	7	52	0
DRINKING AND DRUGGED DRIVERS ONLY									
Restraint Used*	26	43.3	2	28.6	1	5	2	16	0
Restraint Not Used	9	15.0	4	57.1	0	3	2	0	0
Unknown	25	41.7	1	14.3	1	3	3	17	0
TOTAL	60	100.0	7	100.0	2	11	7	33	0

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