







# UPPER PENINSULA ROADWAY INJURY EXPERIENCE FOR PERSONS WHO HAD BEEN DRINKING AND/OR USING DRUGS

VEHICLE	SEVERITY	TOTAL	CRASHES INVOLVING DRINKING, NOT DRUGS		CRASHES INVOLVING DRUGS, NOT DRINKING		CRASHES INVOLVING DRINKING AND DRUGS		TOTAL CRASHES INVOLVING DRINKING AND/OR DRUGS	
			Operator in Crash	Operator Drinking	Operator in Crash	Operator Drugs	Operator in Crash	Operator Drinking and Drugs	Operator in Crash	Operator Drinking and/or Drugs
 BICYCLISTS	Total*	18	0	0	0	0	0	0	0	0
	Killed	2	0	0	0	0	0	0	0	0**
	Injured	10	0	0	0	0	0	0	0	0
 DRIVERS	Total*	10,010	358	277	79	53	89	65	526	395
	Killed	25	6	6	6	5	3	3	15	14**
	Injured	1,022	111	99	26	22	39	35	176	156
 MOTORCYCLISTS	Total*	137	12	12	3	3	0	0	15	15
	Killed	5	2	2	1	1	0	0	3	3**
	Injured	105	8	8	2	2	0	0	10	10
 ORV/ATV RIDERS	Total*	110	25	25	1	1	0	0	26	26
	Killed	0	0	0	0	0	0	0	0	0**
	Injured	70	17	17	1	1	0	0	18	18
 PEDESTRIANS	Total*	30	4	4	1	1	1	0	6	5
	Killed	1	0	0	0	0	0	0	0	0**
	Injured	26	4	4	1	1	1	0	6	5
 SNOWMOBILERS	Total*	55	6	5	0	0	0	0	6	5
	Killed	1	1	1	0	0	0	0	1	1**
	Injured	29	4	4	0	0	0	0	4	4

\*Total does include property damage only crashes

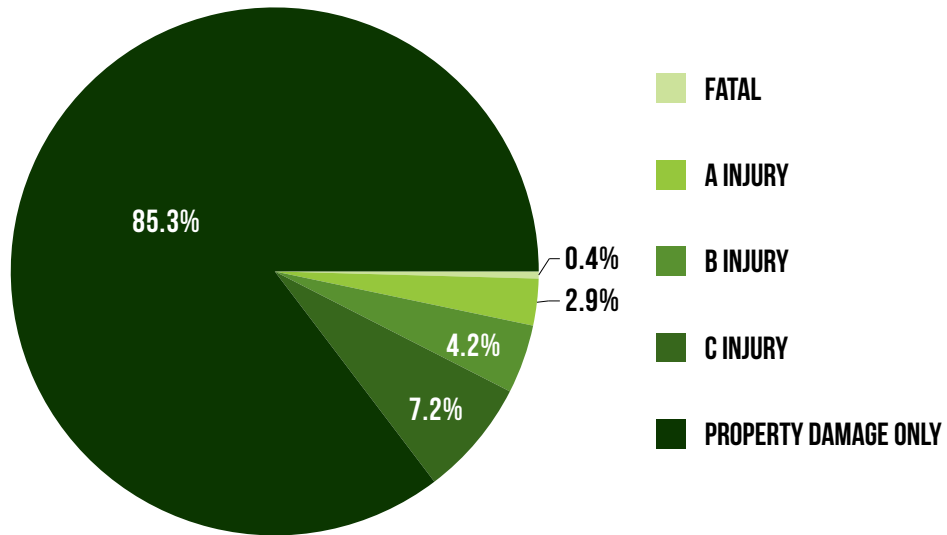
\*\*In the Upper Peninsula, there were no bicyclists, 14 drivers, three motorcyclists, no ORV/ATV riders, no pedestrians, and one snowmobiler who were killed and coded as drinking and/or using drugs by the police officer.

## UPPER PENINSULA DRIVER DRINKING AND/OR USING DRUGS AND INJURY SEVERITY IN CRASH BY AGE

AGE OF DRIVER IN CRASH	ALL CRASHES				FATAL				INJURY			
	Drinking Only	Drugs Only	Both	Total	Drinking Only	Drugs Only	Both	Total	Drinking Only	Drugs Only	Both	Total
13 years and under	0	0	0	0	0	0	0	0	0	0	0	0
14 years	0	0	0	0	0	0	0	0	0	0	0	0
15 years	1	0	0	1	0	0	0	0	0	0	0	0
16 years	0	0	1	1	0	0	0	0	0	0	1	1
17 years	0	2	0	2	0	0	0	0	0	1	0	1
18 years	6	0	1	7	0	0	0	0	1	0	1	2
19 years	12	2	2	16	0	0	0	0	5	1	1	7
20 years	8	0	1	9	0	0	0	0	3	0	1	4
21 - 24 years	27	10	8	45	1	0	0	1	15	7	5	27
25 - 34 years	70	18	14	102	2	2	2	6	26	9	7	42
35 - 44 years	67	11	25	103	1	2	1	4	27	1	11	39
45 - 54 years	38	6	6	50	3	1	0	4	12	1	6	19
55 - 64 years	26	4	5	35	0	1	0	1	11	1	3	15
65 - 69 years	14	0	0	14	1	0	0	1	7	0	0	7
70 - 74 years	4	0	1	5	0	0	0	0	4	0	1	5
75 - 79 years	3	0	0	3	1	0	0	1	1	0	0	1
80 - 84 years	0	0	0	0	0	0	0	0	0	0	0	0
85 - 89 years	1	0	0	1	0	0	0	0	0	0	0	0
90 years and over	0	0	0	0	0	0	0	0	0	0	0	0
Unknown	0	0	1	1	0	0	0	0	0	0	0	0
<b>Total</b>	<b>277</b>	<b>53</b>	<b>65</b>	<b>395</b>	<b>9</b>	<b>6</b>	<b>3</b>	<b>18</b>	<b>112</b>	<b>21</b>	<b>37</b>	<b>170</b>

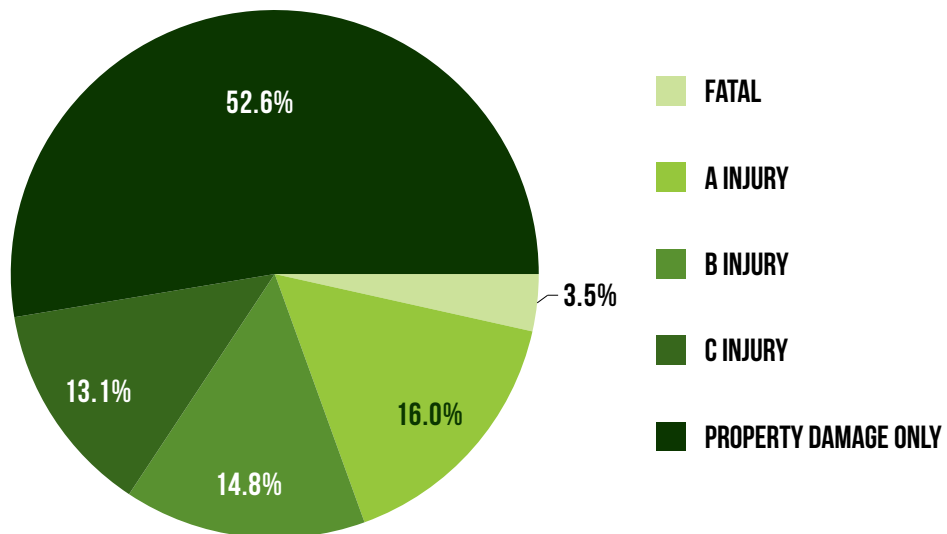
The driver age group 35 to 44 years represents the highest number of drinking and/or drug use in total crashes. The 25 to 34 years age group represents the highest number of drinking and/or drug use in injury crashes.

## UPPER PENINSULA ALL CRASHES BY INJURY SEVERITY



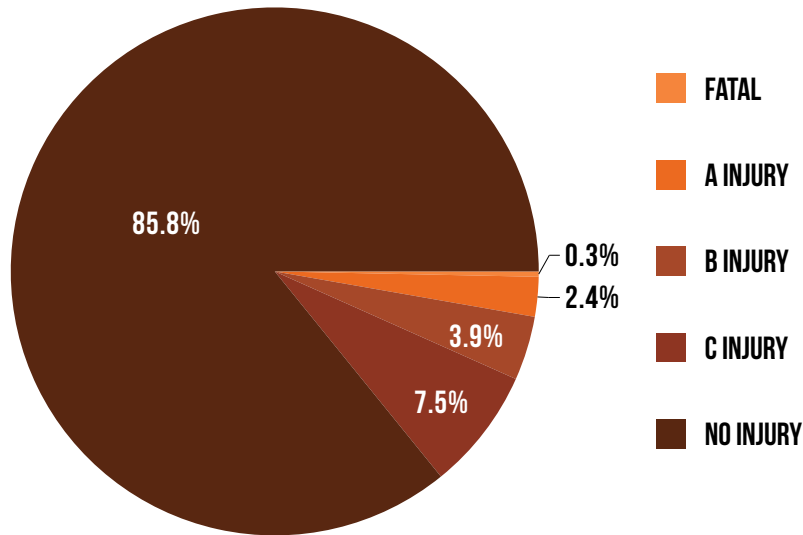
The majority of crashes do not involve injury (85.3%). Possible (C) injury crashes represent about 49% of all injury crashes.

## UPPER PENINSULA HAD-BEEN-DRINKING CRASHES BY INJURY SEVERITY



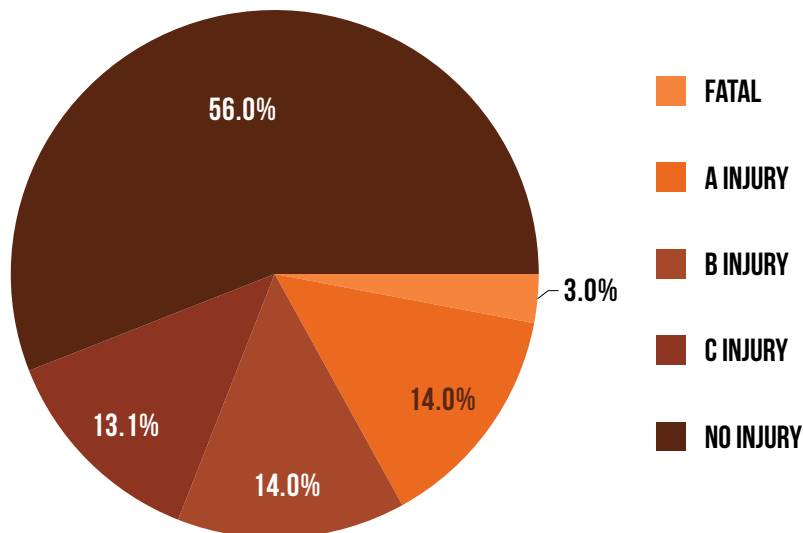
The problem of the drinking driver, pedestrian, and/or bicyclist is seen by comparing the two charts on this page. All injury levels are greater, and a fatal crash is about nine times more likely when one of the crash-involved operators is reported as had-been-drinking (HBD).

## UPPER PENINSULA DEATH & INJURY FOR CRASH INVOLVED OCCUPANTS



The majority of occupants involved in crashes are not injured (85.8%). About 52% of those who are injured receive only possible (C) injuries.

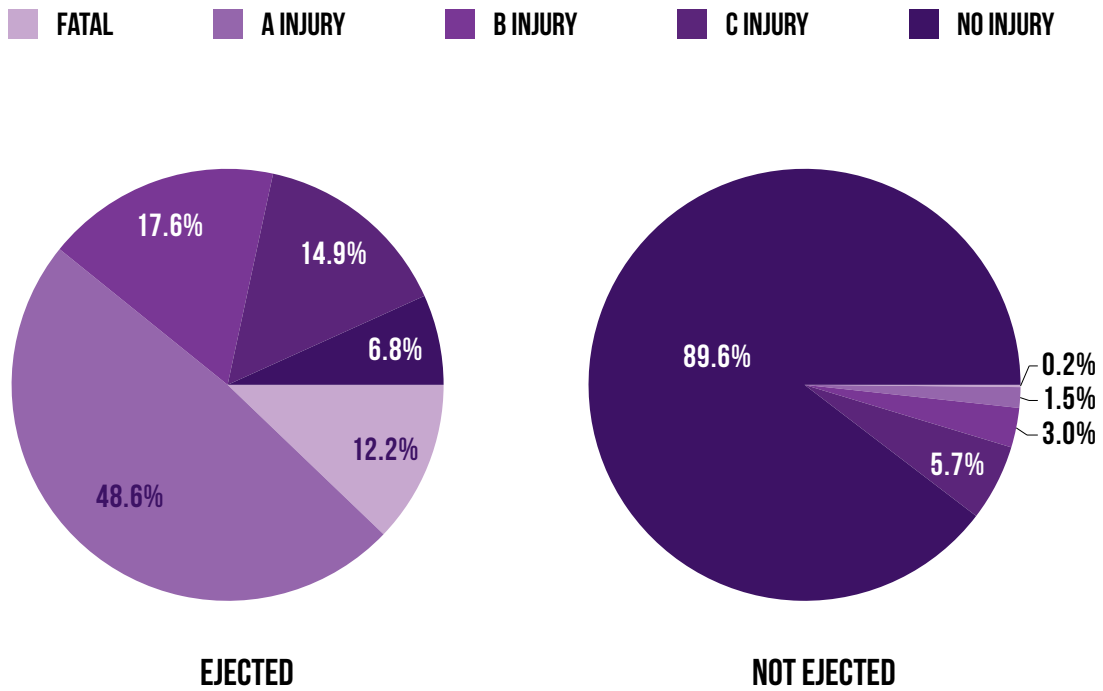
## UPPER PENINSULA OCCUPANTS IN HAD-BEEN-DRINKING CRASHES



Crashes involving drinking tend to be more serious than non-drinking crashes. The percentage of fatalities is about ten times higher, and the most serious injury level (A) in had-been-drinking crashes is about six times higher than in all crashes.

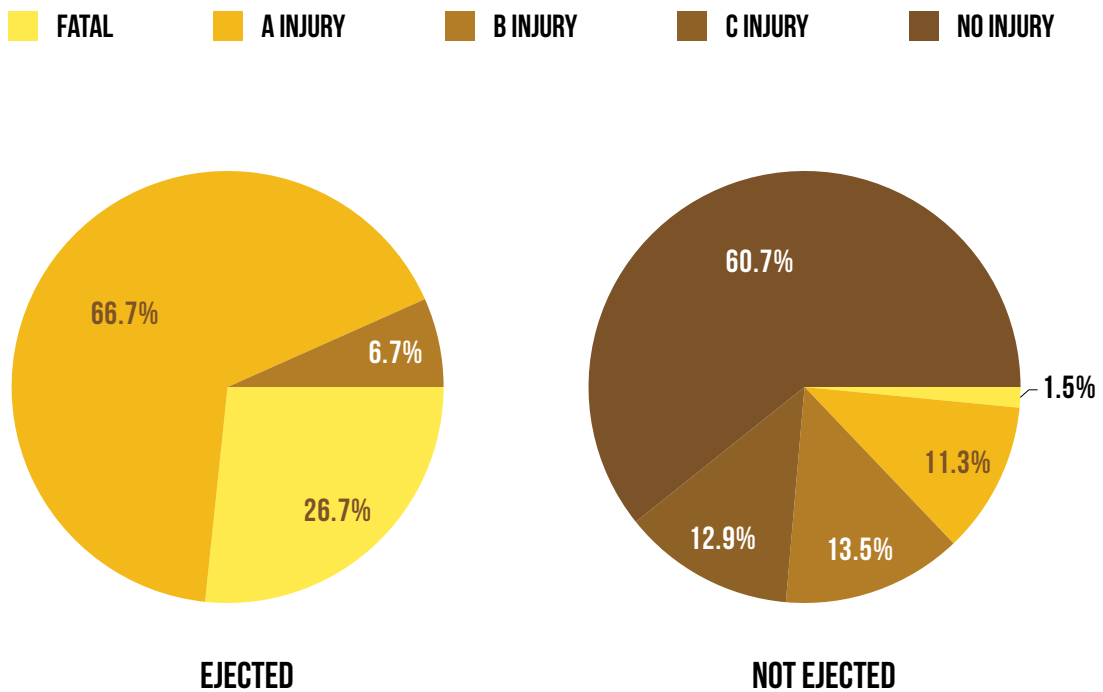
*Note: Occupants include all drivers plus all injured or killed persons in or on a motor vehicle.*

## UPPER PENINSULA ALL DRIVERS INJURY SEVERITY - EJECTED VS. NOT EJECTED



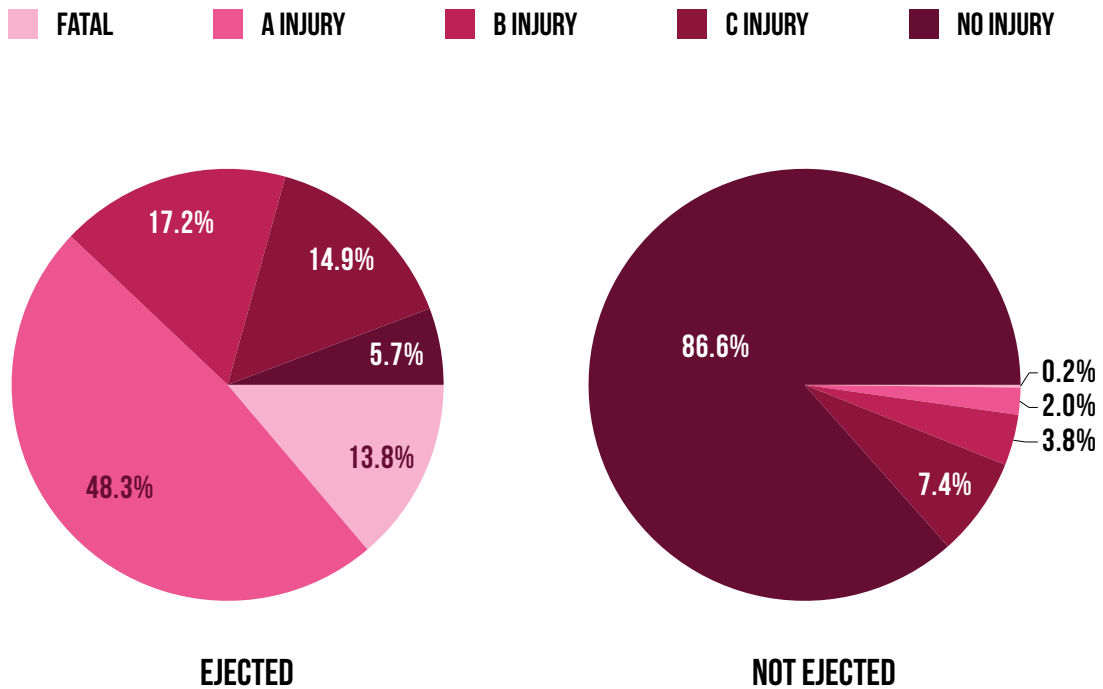
As shown by the two charts above, death and injury are much more likely when drivers are ejected from vehicles.

## UPPER PENINSULA HAD-BEEN-DRINKING DRIVERS INJURY SEVERITY - EJECTED VS. NOT EJECTED



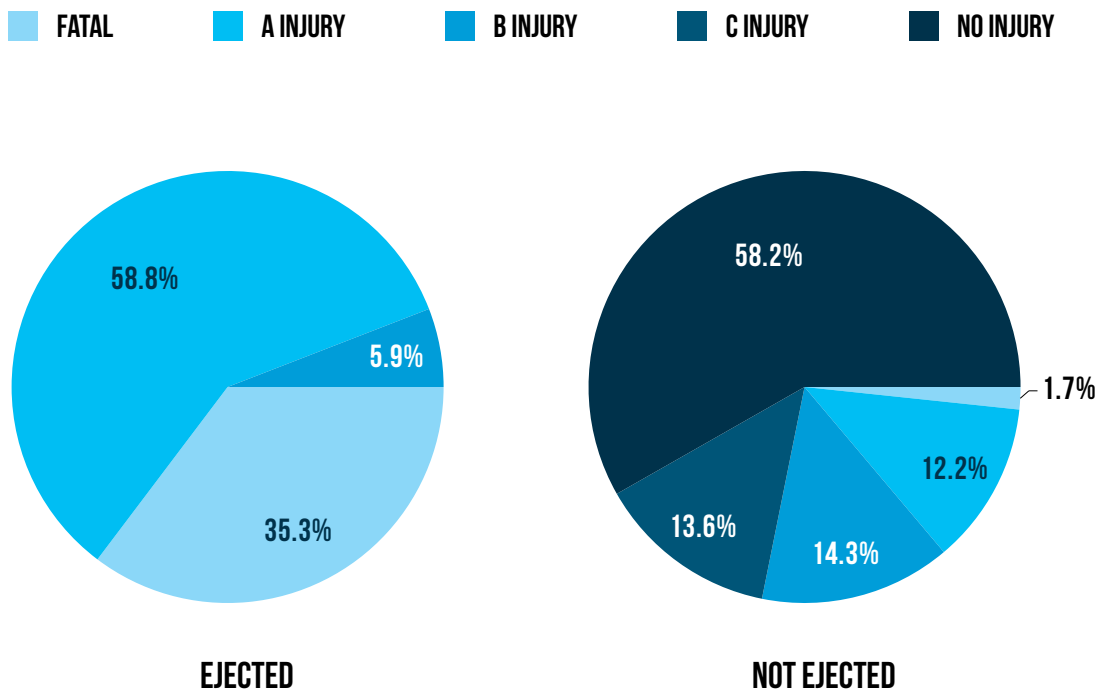
When compared to the charts above, the had-been-drinking charts demonstrate that injury severity is much worse for drivers reported to be drinking in both ejected and non-ejected events.

## UPPER PENINSULA ALL OCCUPANTS OF CRASHES INJURY SEVERITY - EJECTED VS. NOT EJECTED.



As shown by the two charts above, death and injury are much more likely when occupants are ejected from vehicles.

## UPPER PENINSULA OCCUPANTS OF HAD-BEEN-DRINKING CRASHES INJURY SEVERITY - EJECTED VS. NOT EJECTED

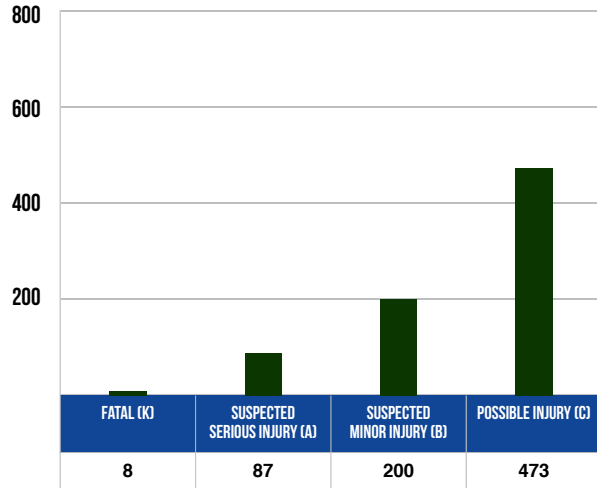


When compared to the charts above, the charts of occupants of had-been-drinking crashes demonstrate that injury severity is much worse for occupants in a crash where drinking is reported in both ejected and non-ejected events.

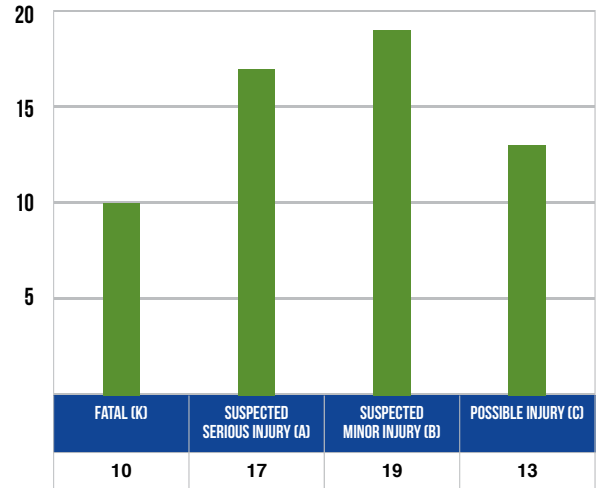
*Note: Occupants include all drivers plus all injured or killed persons in or on a motor vehicle.*

# UPPER PENINSULA INJURY SEVERITY & BELT USE BY DRIVER INJURY

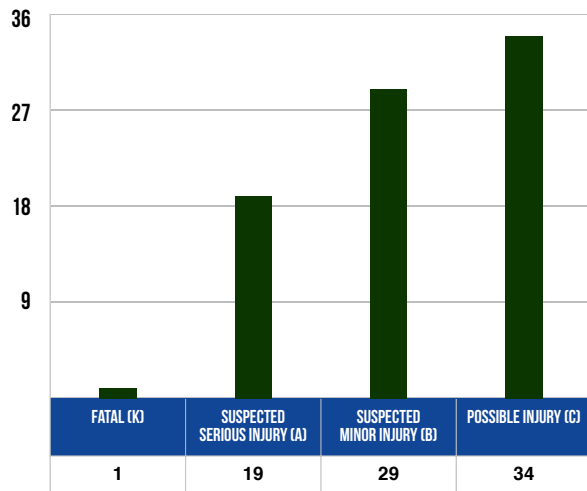
**ALL CRASHES-BELTS USED**



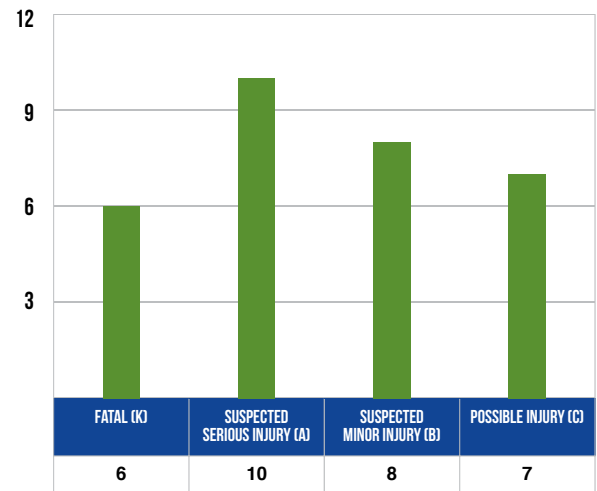
**ALL CRASHES-BELTS NOT USED**



**HAD-BEEN DRINKING CRASHES-BELTS USED**



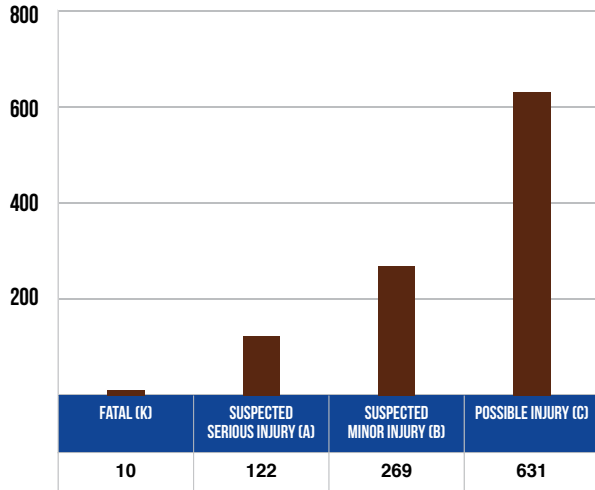
**HAD-BEEN DRINKING CRASHES-BELTS NOT USED**



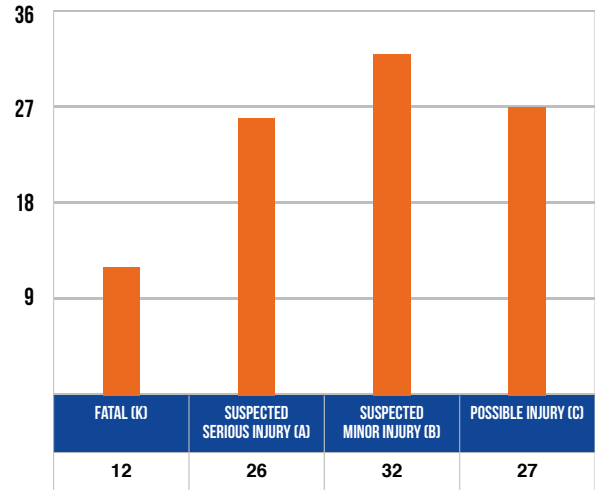
Note: "Belts Used" represents shoulder belts only used, lap belts only used, both lap and shoulder belts used, and restraint failure. "Belts Not Used" represents no belts available and no belts used.

# UPPER PENINSULA INJURY SEVERITY & RESTRAINT USE BY OCCUPANT INJURY

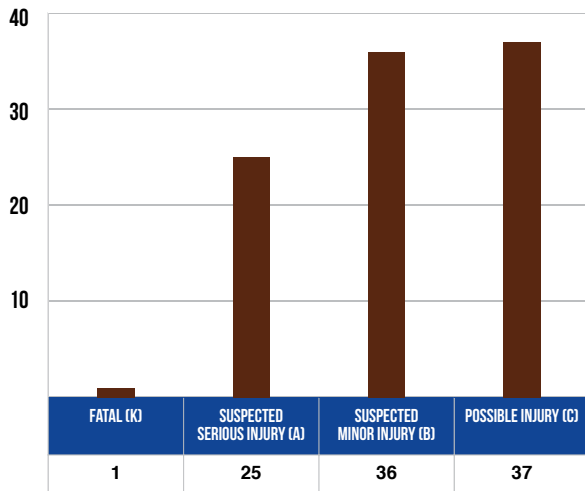
**ALL CRASHES - RESTRAINTS USED**



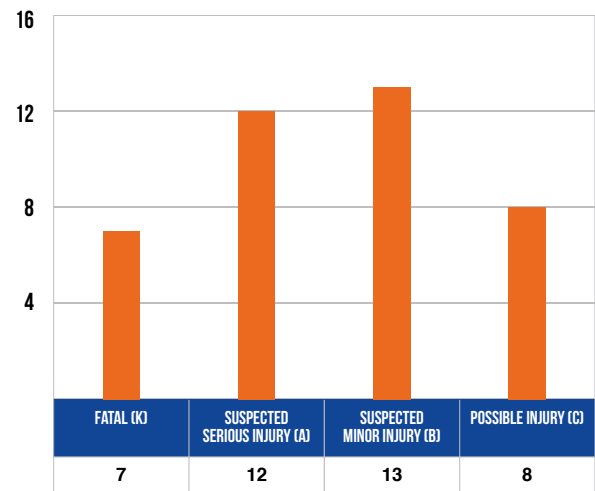
**ALL CRASHES - RESTRAINTS NOT USED**



**HAD-BEEN-DRINKING CRASHES - RESTRAINTS USED**



**HAD-BEEN-DRINKING CRASHES - RESTRAINTS NOT USED**



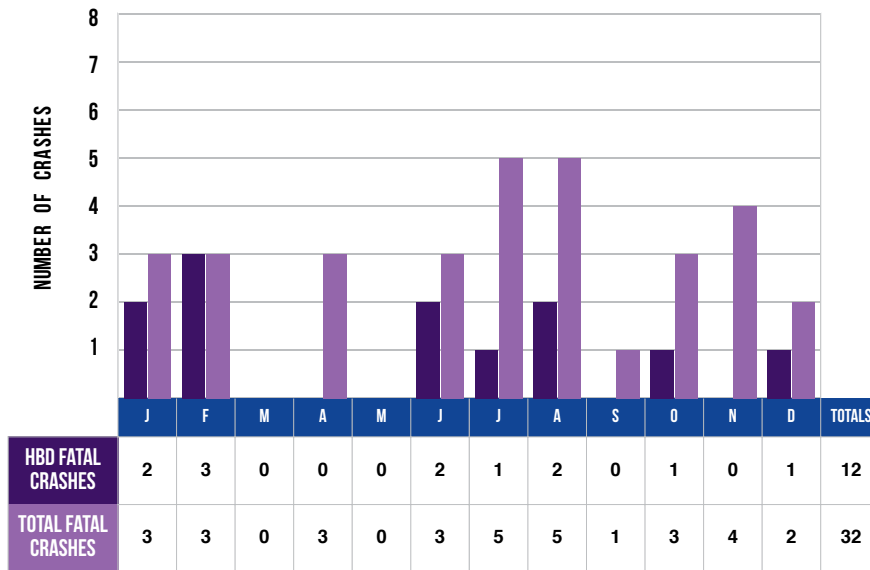
Note: "Restraints Used" represents shoulder belts only used, lap belts only used, both lap and shoulder belts used, child restraints used, and restraint failure. "Restraints Not Used" represents no belts available; no belts used; and child restraint not used, unavailable, or improper use.

Note: Occupants include all drivers plus all injured or killed persons in or on a motor vehicle.

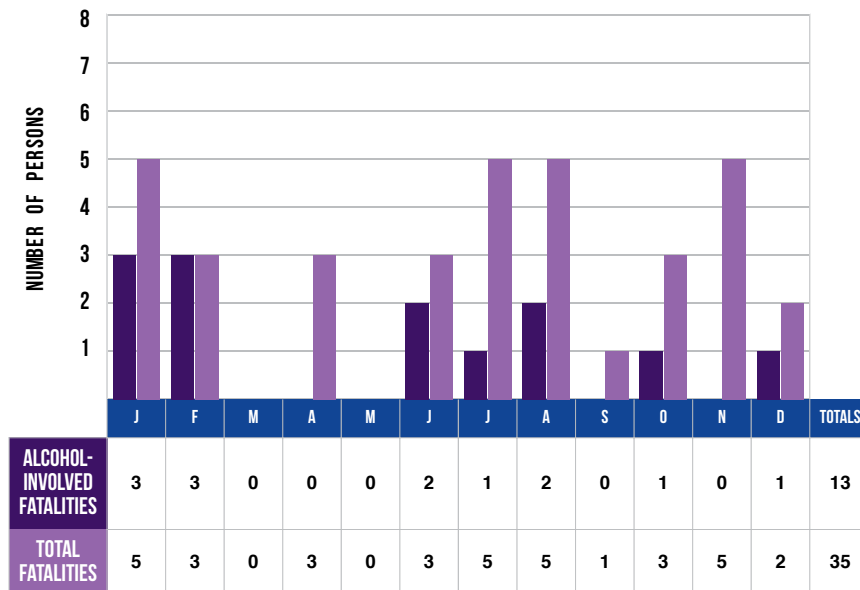


# UPPER PENINSULA ALCOHOL INVOLVMENT IN FATAL CRASHES

### HAD-BEEN-DRINKING FATAL CRASHES BY MONTH



### ALCOHOL-INVOLVED FATALITIES BY MONTH

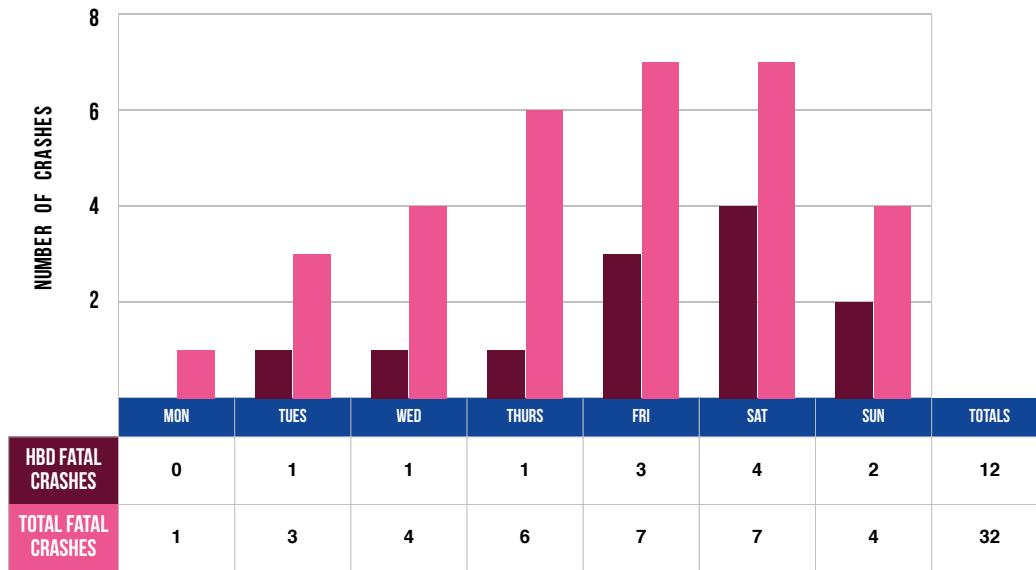


Had-been-drinking fatal crashes were highest in number during the month of February. The number of total fatal crashes (total of non-had-been-drinking and had-been-drinking fatal crashes) reached highest levels in July and August.

*Note: An alcohol-involved fatality is any person killed in a had-been-drinking crash.*

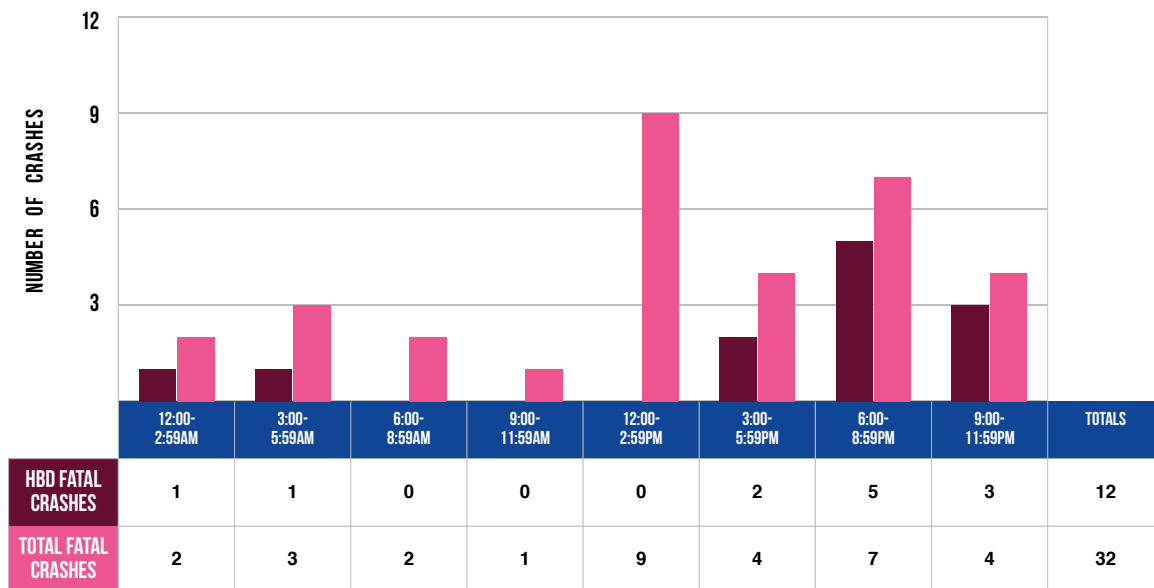
## UPPER PENINSULA ALCOHOL INVOLVMENT IN FATAL CRASHES (CONTINUED)

### HAD-BEEN-DRINKING FATAL CRASHES BY DAY OF THE WEEK



Friday and Saturday had the highest number of fatal crashes, and Saturday had the highest number of drinking-related fatal crashes in 2020.

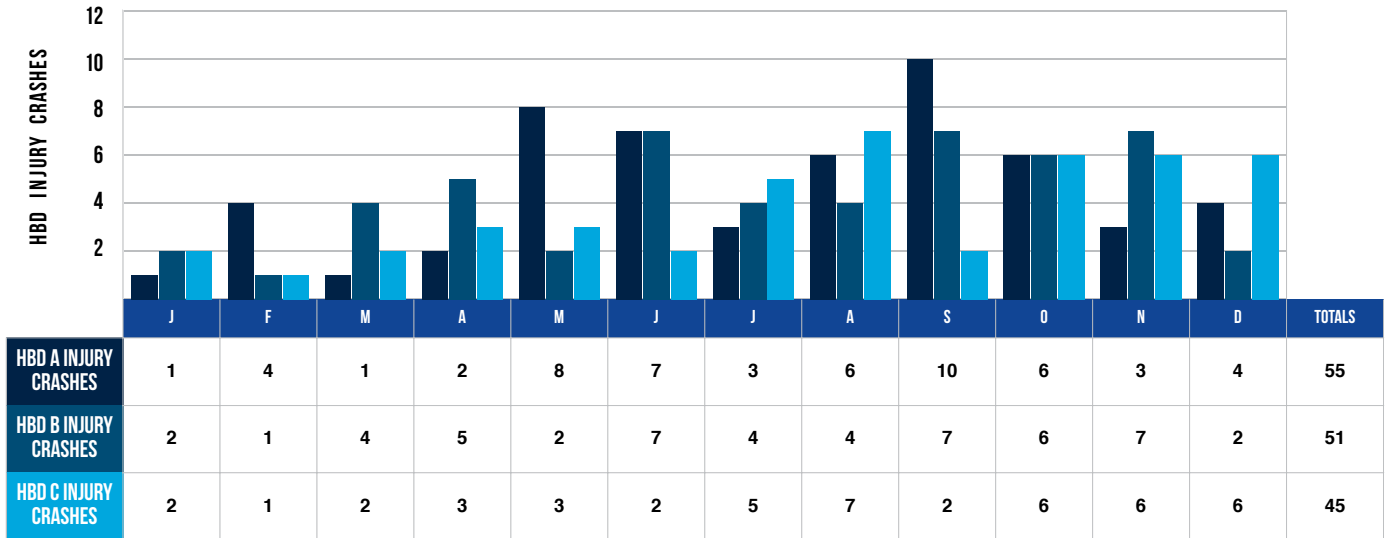
### HAD-BEEN-DRINKING FATAL CRASHES BY TIME OF DAY



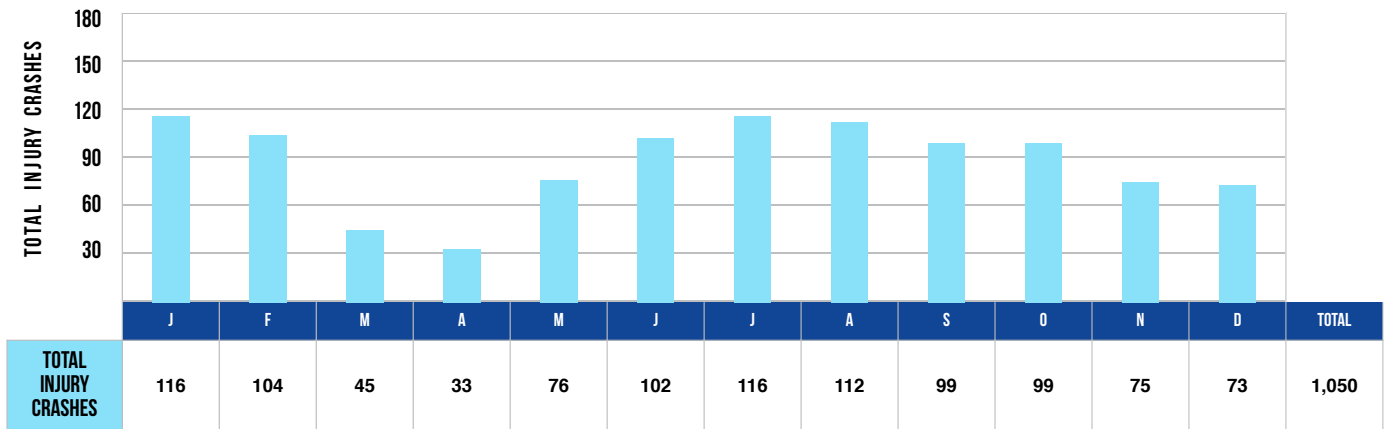
The 6:00 PM to 8:59 PM time period had the highest number of HBD fatal crashes (5), while the 12:00 PM to 2:59 PM time period had the highest number of total fatal crashes (9).

# UPPER PENINSULA ALCOHOL INVOLVEMENT IN INJURY CRASHES

## HAD-BEEN-DRINKING INJURY CRASHES BY MONTH



## TOTAL INJURY CRASHES BY MONTH

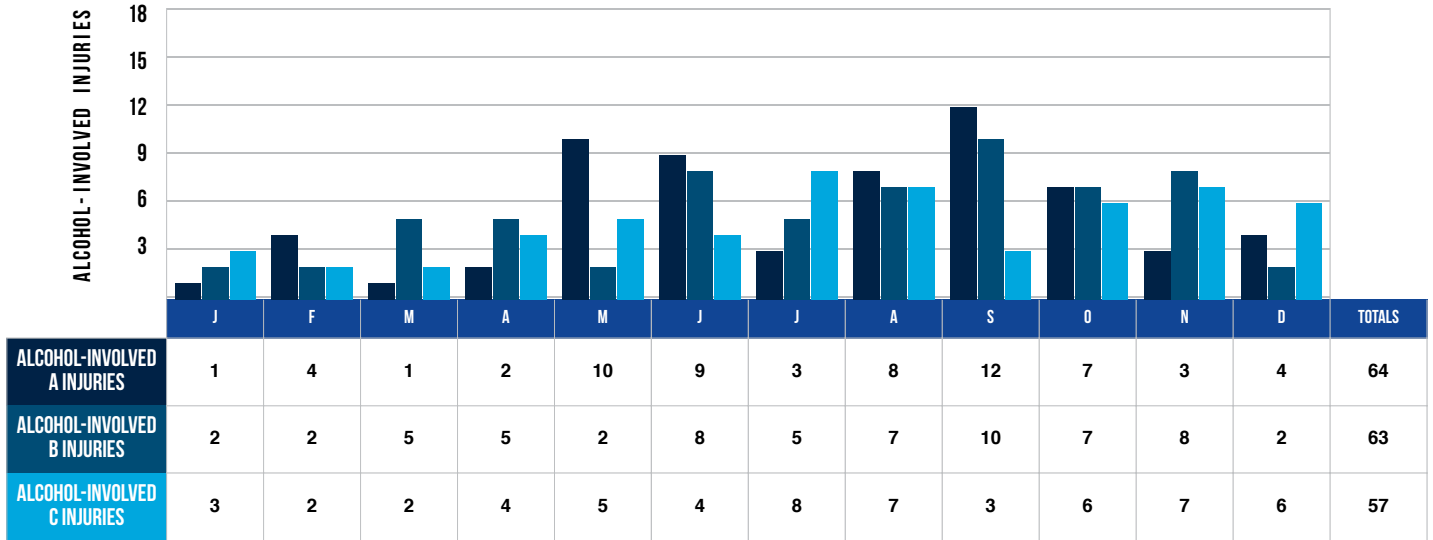


Alcohol involvement in injury crashes is an important indicator of the alcohol impaired driving problem. In 2020, the highest number of had-been-drinking injury crashes occurred in September (19).

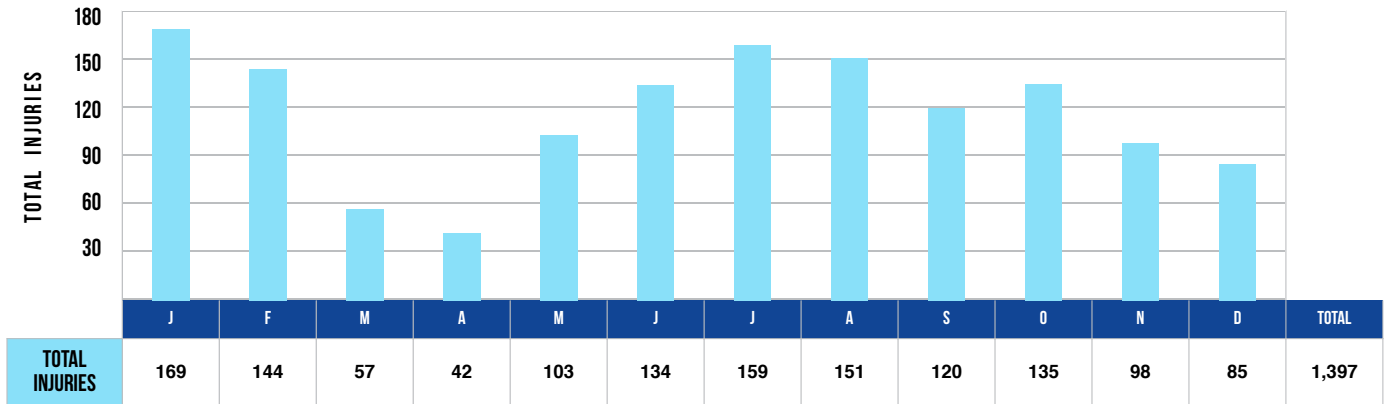
*Note: An alcohol-involved injury is any person injured in a had-been-drinking crash.*

# UPPER PENINSULA ALCOHOL INVOLVEMENT IN INJURY CRASHES (CONTINUED)

## ALCOHOL-INVOLVED INJURIES BY MONTH



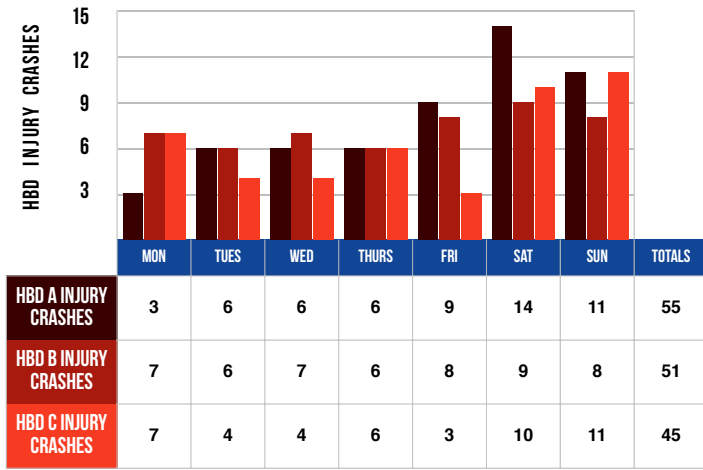
## TOTAL INJURIES BY MONTH



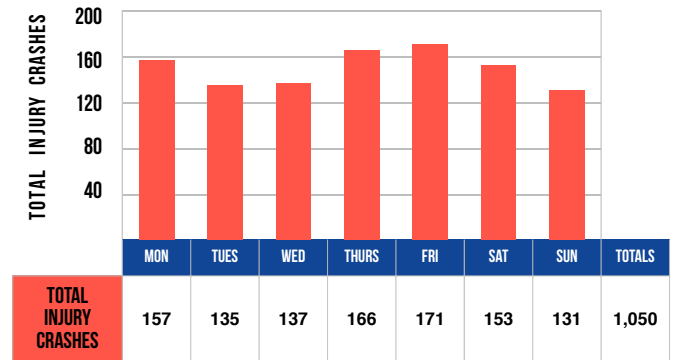
Note: An alcohol-involved injury is any person injured in a had-been-drinking crash.

# UPPER PENINSULA ALCOHOL INVOLVEMENT IN INJURY CRASHES (CONTINUED)

### HAD-BEEN-DRINKING INJURY CRASHES BY DAY OF THE WEEK

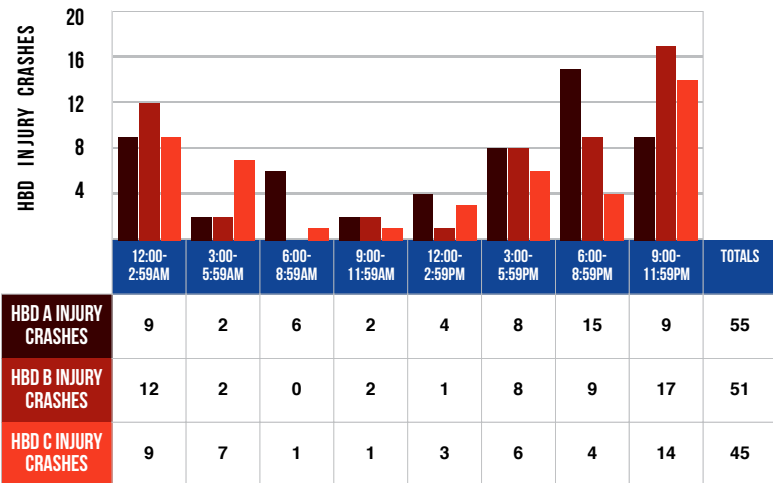


### TOTAL INJURY CRASHES BY DAY OF THE WEEK

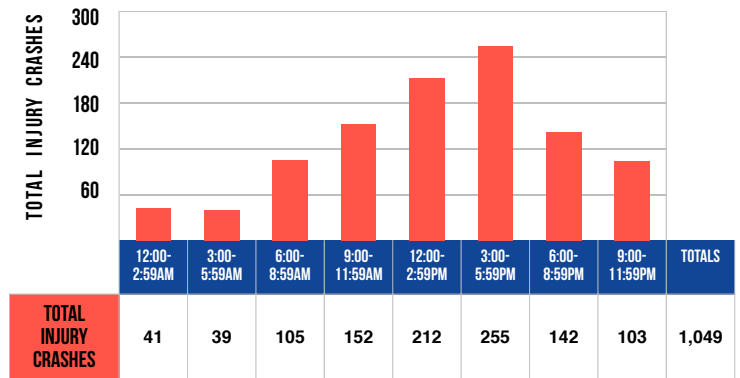


The peak day for all injury crashes is Friday. The highest proportion of had-been-drinking injury crashes to total injury crashes occurred on Sunday (22.9%).

### HAD-BEEN-DRINKING INJURY CRASHES BY TIME OF DAY



### TOTAL INJURY CRASHES BY TIME OF DAY



Total injury crash frequencies peak in the hours between 3:00 PM and 5:59 PM, while had-been-drinking injury crash frequencies peak between 9:00 PM and 11:59 PM. There was one injury crash where the time of day was unknown.

## UPPER PENINSULA MALE DRIVERS BY AGE AND INJURY SEVERITY IN CRASH

AGE OF DRIVER IN CRASH	MALE DRIVERS		FATAL		INJURY			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
13 years and under	12	0.2	0	0.0	1	7	2	2
14 years	6	0.1	0	0.0	2	2	0	2
15 years	9	0.2	0	0.0	1	1	1	6
16 years	89	1.6	1	2.6	3	7	6	72
17 years	101	1.8	0	0.0	4	5	8	84
18 years	123	2.2	0	0.0	1	6	9	107
19 years	159	2.8	0	0.0	0	4	13	142
20 years	110	1.9	0	0.0	4	4	10	92
21 - 24 years	489	8.6	2	5.3	17	32	47	391
25 - 34 years	1,022	17.9	8	21.1	45	54	69	846
35 - 44 years	864	15.1	6	15.8	35	43	57	723
45 - 54 years	872	15.3	6	15.8	31	46	51	738
55 - 64 years	888	15.6	6	15.8	38	35	76	733
65 - 69 years	324	5.7	4	10.5	12	16	21	271
70 - 74 years	291	5.1	2	5.3	8	14	24	243
75 - 79 years	154	2.7	1	2.6	6	10	13	124
80 - 84 years	95	1.7	2	5.3	3	5	9	76
85 - 89 years	59	1.0	0	0.0	3	4	8	44
90 years and over	18	0.3	0	0.0	0	0	2	16
Unknown	21	0.4	0	0.0	0	0	0	21
<b>TOTAL</b>	<b>5,706**</b>	<b>100.0</b>	<b>38</b>	<b>100.0</b>	<b>214</b>	<b>295</b>	<b>426</b>	<b>4,733</b>

The male driver age group 25 to 34 years experienced the highest number of fatal crashes, injury crashes, and property damage only crashes.

*\*\*Note: This table excludes 459 drivers of unknown gender.*

## UPPER PENINSULA MALE DRINKING DRIVERS BY AGE AND INJURY SEVERITY IN CRASH

AGE OF DRINKING DRIVER IN CRASH	MALE DRIVERS		FATAL		INJURY			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
13 years and under	0	0.0	0	0.0	0	0	0	0
14 years	0	0.0	0	0.0	0	0	0	0
15 years	1	0.4	0	0.0	0	0	0	1
16 years	1	0.4	0	0.0	0	1	0	0
17 years	0	0.0	0	0.0	0	0	0	0
18 years	5	2.0	0	0.0	0	0	0	5
19 years	11	4.4	0	0.0	0	1	3	7
20 years	6	2.4	0	0.0	2	1	0	3
21 - 24 years	26	10.4	0	0.0	4	5	6	11
25 - 34 years	67	26.9	3	33.3	14	5	7	38
35 - 44 years	62	24.9	2	22.2	10	4	6	40
45 - 54 years	29	11.6	2	22.2	3	7	4	13
55 - 64 years	23	9.2	0	0.0	6	3	3	11
65 - 69 years	11	4.4	1	11.1	1	3	3	3
70 - 74 years	4	1.6	0	0.0	1	2	1	0
75 - 79 years	2	0.8	1	11.1	0	1	0	0
80 - 84 years	0	0.0	0	0.0	0	0	0	0
85 - 89 years	1	0.4	0	0.0	0	0	0	1
90 years and over	0	0.0	0	0.0	0	0	0	0
Unknown	0	0.0	0	0.0	0	0	0	0
<b>TOTAL</b>	<b>249**</b>	<b>100.0</b>	<b>9</b>	<b>100.0</b>	<b>41</b>	<b>33</b>	<b>33</b>	<b>133</b>

Among male drinking drivers, the age group 25 to 34 years experienced the highest number of fatal crashes and injury crashes and the 35 to 44 years age group experienced the highest number of property damage only crashes.

*\*\*Note: This table excludes one driver of unknown gender.*

## UPPER PENINSULA FEMALE DRIVERS BY AGE AND INJURY SEVERITY IN CRASH

AGE OF DRIVER IN CRASH	FEMALE DRIVERS		FATAL		INJURY			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
13 years and under	0	0.0	0	0.0	0	0	0	0
14 years	0	0.0	0	0.0	0	0	0	0
15 years	10	0.3	0	0.0	0	0	2	8
16 years	73	1.9	0	0.0	4	5	7	57
17 years	99	2.6	0	0.0	0	7	15	77
18 years	112	2.9	0	0.0	4	9	15	84
19 years	109	2.8	0	0.0	3	4	12	90
20 years	109	2.8	0	0.0	0	6	10	93
21 - 24 years	371	9.6	2	25.0	4	17	52	296
25 - 34 years	731	19.0	2	25.0	18	24	69	618
35 - 44 years	586	15.2	0	0.0	14	29	47	496
45 - 54 years	528	13.7	1	12.5	15	13	47	452
55 - 64 years	594	15.4	0	0.0	11	13	50	520
65 - 69 years	192	5.0	0	0.0	6	5	20	161
70 - 74 years	133	3.5	0	0.0	3	4	15	111
75 - 79 years	97	2.5	1	12.5	1	3	16	76
80 - 84 years	55	1.4	1	12.5	2	5	7	40
85 - 89 years	29	0.8	0	0.0	2	2	1	24
90 years and over	9	0.2	1	12.5	1	0	0	7
Unknown	8	0.2	0	0.0	0	0	0	8
<b>TOTAL</b>	<b>3,845**</b>	<b>100.0</b>	<b>8</b>	<b>100.0</b>	<b>88</b>	<b>146</b>	<b>385</b>	<b>3,218</b>

The female driver age groups 21 to 24 years and 25 to 34 years experienced the highest number of fatal crashes and the 25 to 34 years age group experienced the highest number of injury crashes and property damage only crashes.

*\*\*Note: This table excludes 459 drivers of unknown gender.*



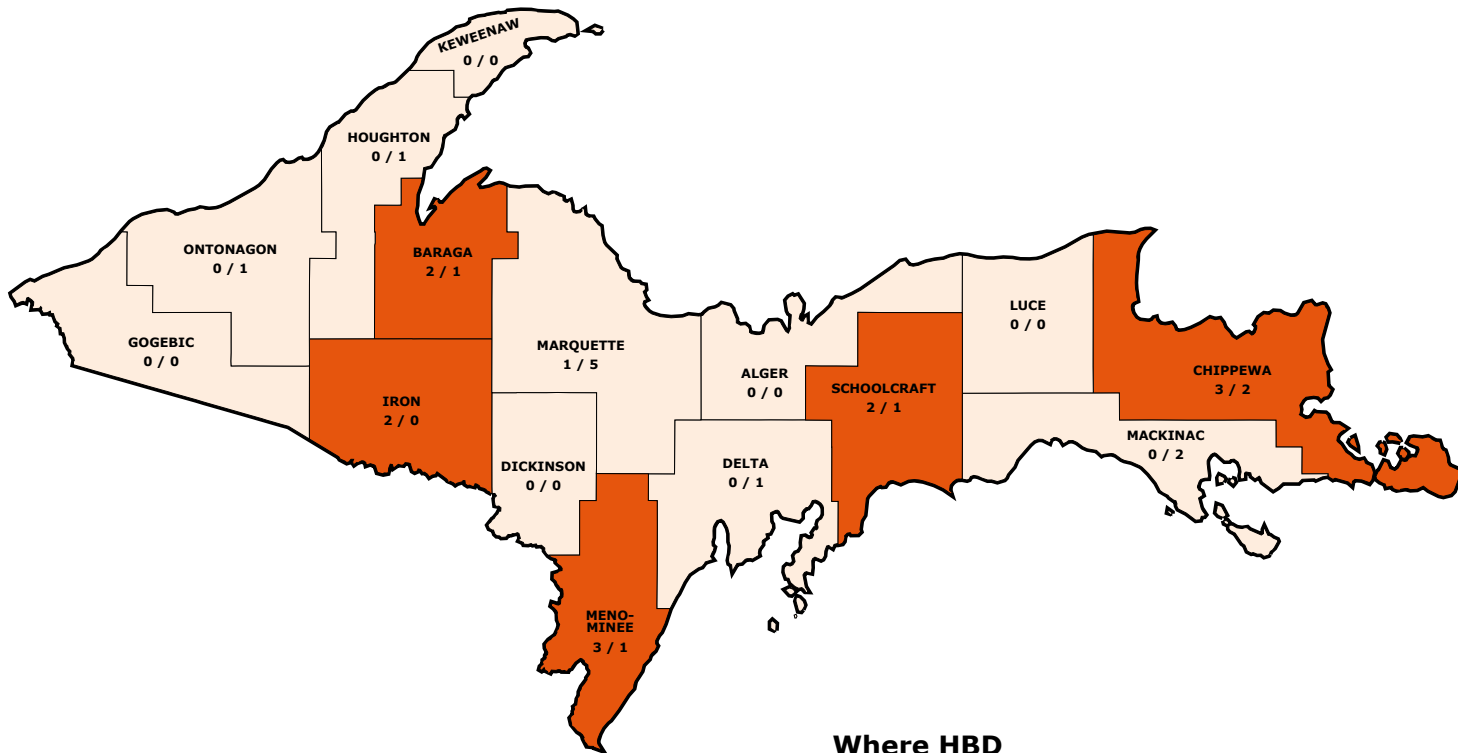
## UPPER PENINSULA FEMALE DRINKING DRIVERS BY AGE AND INJURY SEVERITY IN CRASH

AGE OF DRINKING DRIVER IN CRASH	FEMALE DRIVERS		FATAL		INJURY			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
13 years and under	0	0.0	0	0.0	0	0	0	0
14 years	0	0.0	0	0.0	0	0	0	0
15 years	0	0.0	0	0.0	0	0	0	0
16 years	0	0.0	0	0.0	0	0	0	0
17 years	0	0.0	0	0.0	0	0	0	0
18 years	2	2.2	0	0.0	1	0	1	0
19 years	3	3.3	0	0.0	1	1	0	1
20 years	3	3.3	0	0.0	0	1	0	2
21 - 24 years	9	9.8	1	33.3	1	1	3	3
25 - 34 years	17	18.5	1	33.3	0	5	2	9
35 - 44 years	30	32.6	0	0.0	7	6	5	12
45 - 54 years	15	16.3	1	33.3	2	1	1	10
55 - 64 years	8	8.7	0	0.0	0	2	0	6
65 - 69 years	3	3.3	0	0.0	0	0	0	3
70 - 74 years	1	1.1	0	0.0	0	1	0	0
75 - 79 years	1	1.1	0	0.0	0	0	0	1
80 - 84 years	0	0.0	0	0.0	0	0	0	0
85 - 89 years	0	0.0	0	0.0	0	0	0	0
90 years and over	0	0.0	0	0.0	0	0	0	0
Unknown	0	0.0	0	0.0	0	0	0	0
<b>TOTAL</b>	<b>92**</b>	<b>100.0</b>	<b>3</b>	<b>100.0</b>	<b>12</b>	<b>18</b>	<b>12</b>	<b>47</b>

The female drinking driver age group 35 to 44 years experienced the highest number of injury crashes and property damage only crashes.

*\*\*Note: This table excludes one driver of unknown gender.*

# TRAFFIC FATALITIES WITH DRINKING INVOLVEMENT BY COUNTY



**Where HBD  
Traffic Fatalities Occured**

**A One-Year Comparision  
2020 = 13 / 2019 = 15**

