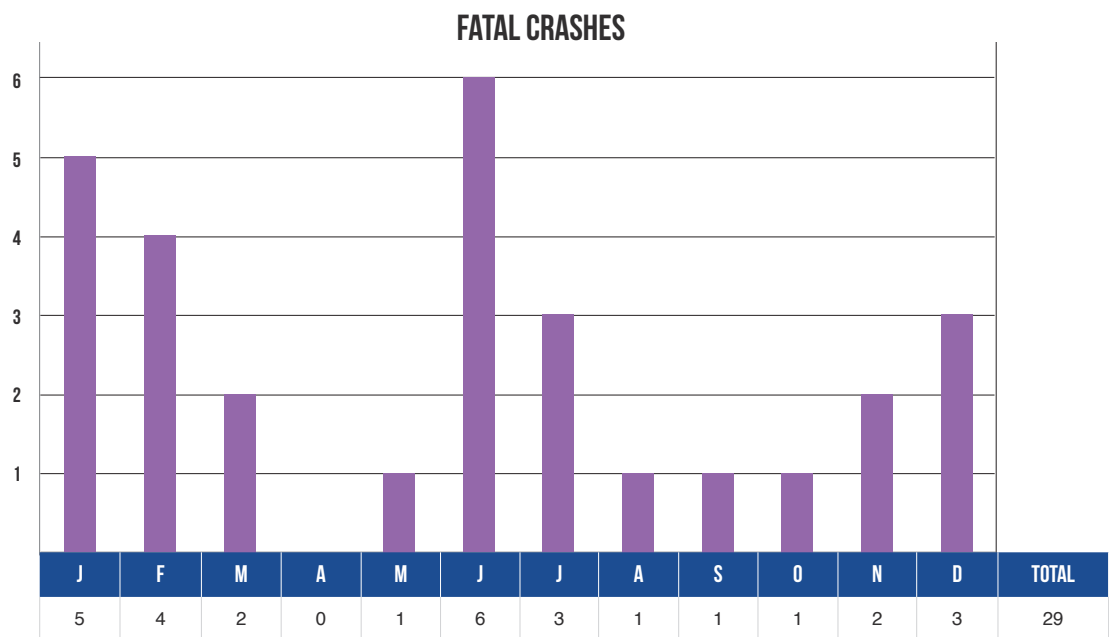
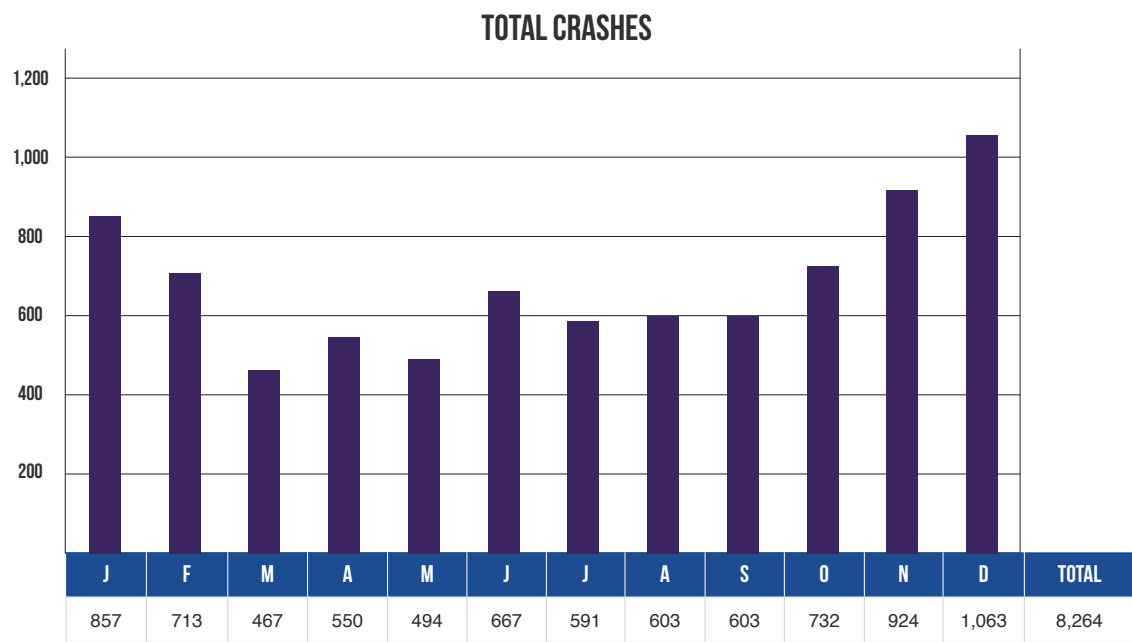
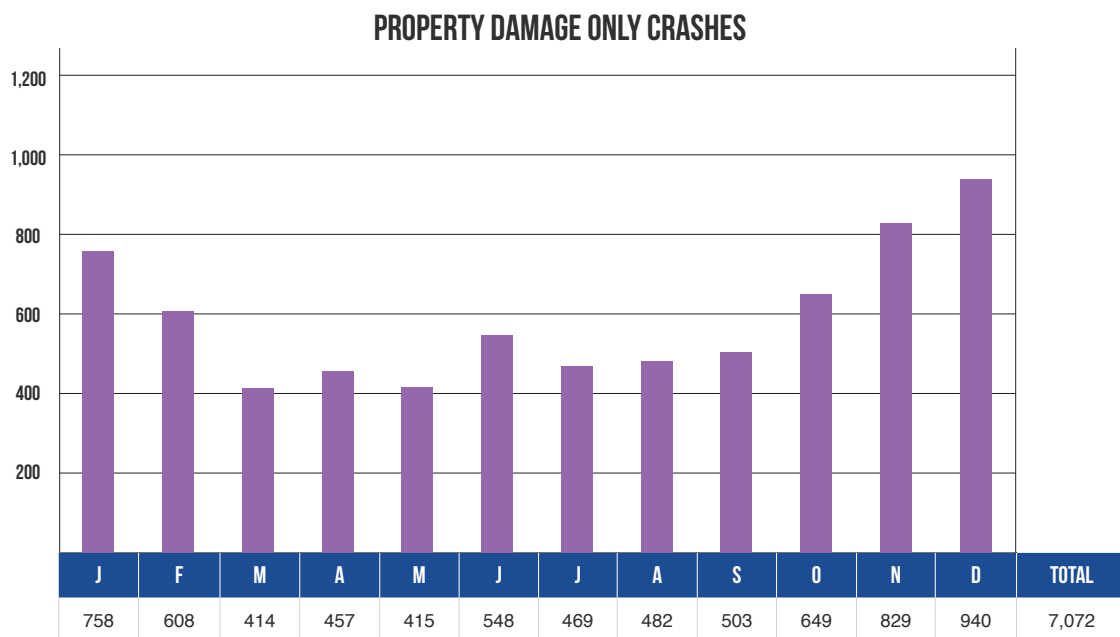
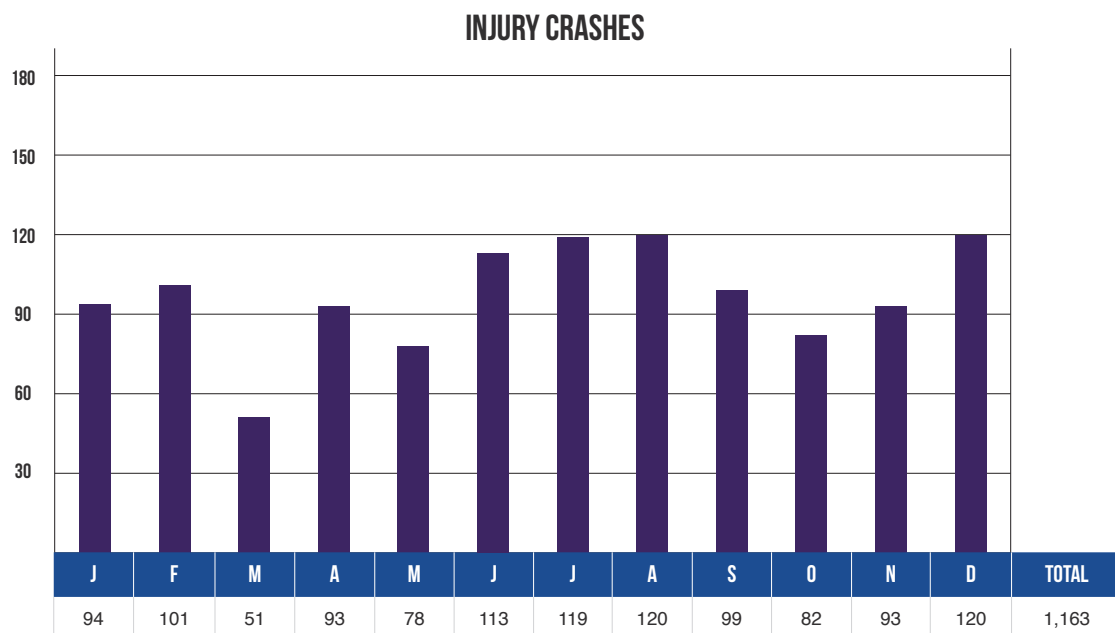


UPPER PENINSULA ALL CRASHES INJURY SEVERITY BY MONTH

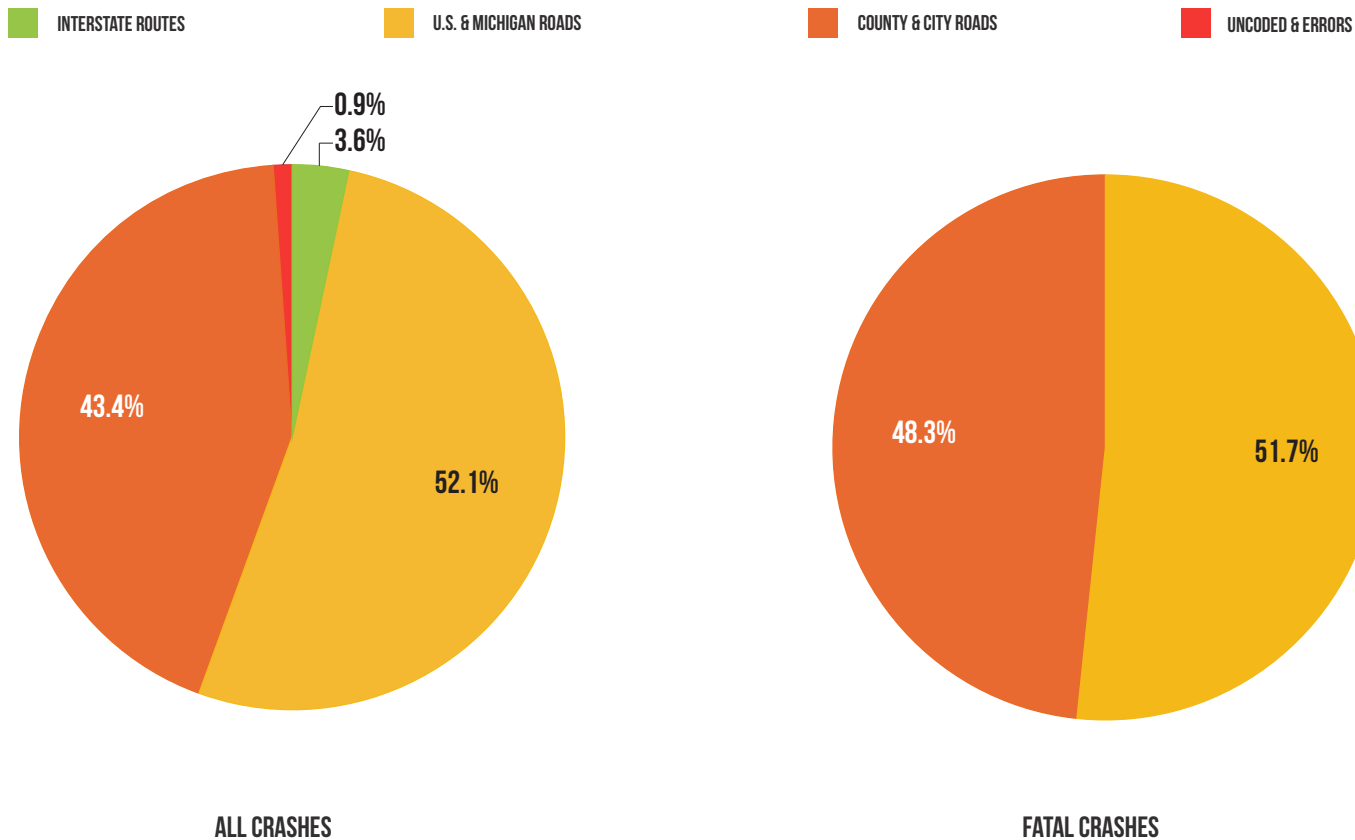


UPPER PENINSULA ALL CRASHES INJURY SEVERITY BY MONTH (CONTINUED)



UPPER PENINSULA CRASH EXPERIENCE BY HIGHWAY CLASS

HIGHWAY CLASS	ALL CRASHES	FATAL CRASHES	INJURY CRASHES	PROPERTY DAMAGE ONLY
Interstate Routes	297	0	46	251
U.S. & Michigan Roads	4,304	15	567	3,722
County & City Roads	3,589	14	528	3,047
Uncoded & Errors	74	0	22	52
TOTAL	8,264	29	1,163	7,072



The highest percentage of all crashes (52.1%), fatal crashes (51.7%), injury crashes (48.8%), and property damage only crashes (52.6%) occur on U.S. and Michigan roads.

UPPER PENINSULA CRASH EXPERIENCE BY CRASH TYPE

CRASH TYPE	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
Single Vehicle	4,918	59.5	17	58.6	94	206	236	4,365
Head On	90	1.1	2	6.9	14	13	19	42
Head On - Left Turn	111	1.3	1	3.4	7	18	17	68
Angle	1,009	12.2	5	17.2	19	60	148	777
Rear End	904	10.9	3	10.3	10	27	138	726
Rear End - Left Turn	100	1.2	0	0.0	5	2	11	82
Rear End - Right Turn	55	0.7	0	0.0	0	1	10	44
Sideswipe - Same Direction	418	5.1	0	0.0	5	7	26	380
Sideswipe - Opposite Direction	149	1.8	0	0.0	3	3	14	129
Backing	100	1.2	0	0.0	0	0	2	98
Other/Unknown	410	5.0	1	3.4	9	12	27	361
TOTAL	8,264	100.0	29	100.0	166	349	648	7,072

RELATIONSHIP TO ROADWAY

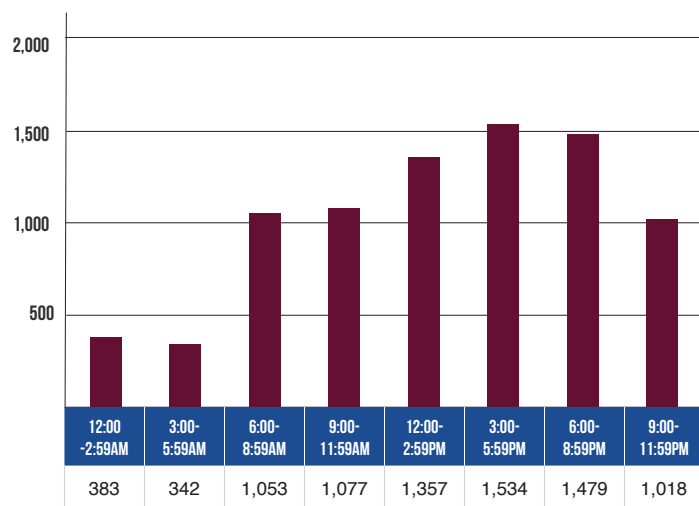
LOCATION OF FIRST IMPACT	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
On Road	6,466	78.2	17	58.6	103	203	476	5,667
Median	47	0.6	0	0.0	1	3	5	38
Shoulder	613	7.4	4	13.8	18	41	53	497
Outside of Shoulder/Curb	893	10.8	6	20.7	43	93	96	655
Gore	47	0.6	1	3.4	0	2	6	38
On-Street Parking	112	1.4	0	0.0	0	2	3	107
Off the Roadway	13	0.2	0	0.0	1	3	2	7
On the Sidewalk	8	0.1	0	0.0	0	0	3	5
In the Bicycle Lane	2	0.0	0	0.0	0	0	0	2
Other/Unknown	63	0.8	1	3.4	0	2	4	56
TOTAL	8,264	100.0	29	100.0	166	349	648	7,072

In the Upper Peninsula, only 10.8 percent of crashes occur outside of the shoulder/curb of the road, but these crashes account for 20.7 percent of the fatal crashes.

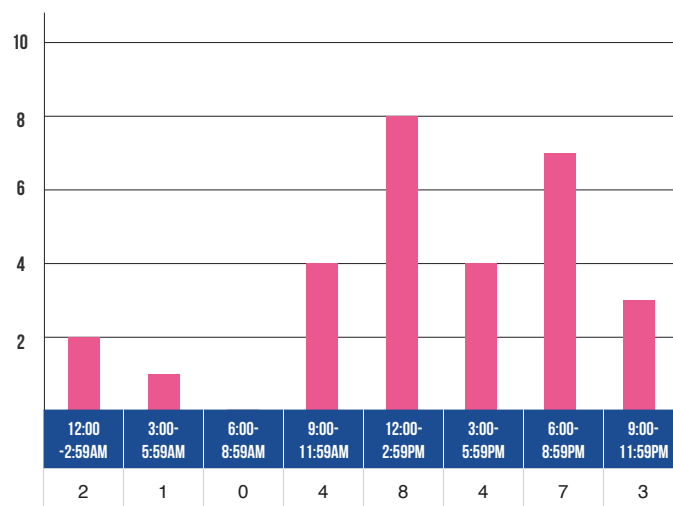
UPPER PENINSULA TIME AND SEVERITY

TIME OF DAY	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
12:00 AM - 2:59 AM	383	4.6	2	6.9	9	24	33	315
3:00 AM - 5:59 AM	342	4.1	1	3.4	4	23	25	289
6:00 AM - 8:59 AM	1,053	12.7	0	0.0	16	38	77	922
9:00 AM - 11:59 AM	1,077	13.0	4	13.8	20	35	95	923
12:00 PM - 2:59 PM	1,357	16.4	8	27.6	28	61	143	1,117
3:00 PM - 5:59 PM	1,534	18.6	4	13.8	35	79	152	1,264
6:00 PM - 8:59 PM	1,479	17.9	7	24.1	35	55	81	1,301
9:00 PM - 11:59 PM	1,018	12.3	3	10.3	19	32	42	922
Unknown	21	0.3	0	0.0	0	2	0	19
TOTAL	8,264	100.0	29	100.0	166	349	648	7,072

ALL CRASHES BY TIME OF DAY



FATAL CRASHES BY TIME OF DAY

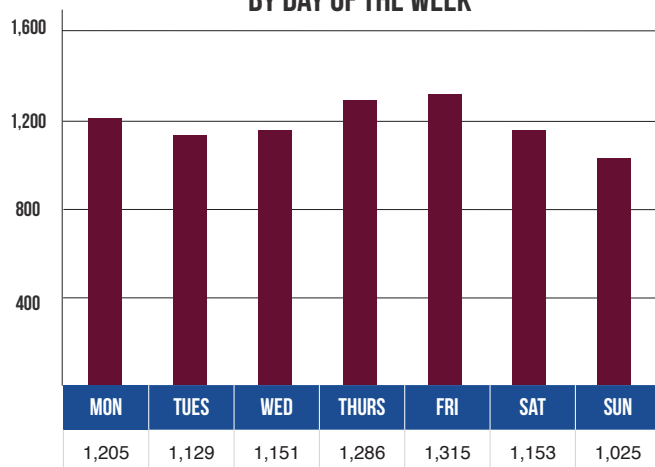


In the Upper Peninsula, crash frequencies peak in the early evening, then drop off until 6:00 AM (the morning rush hour). In 2016, the highest percentage of fatal crashes occurs during the 12:00 PM to 2:59 PM time period (27.6%).

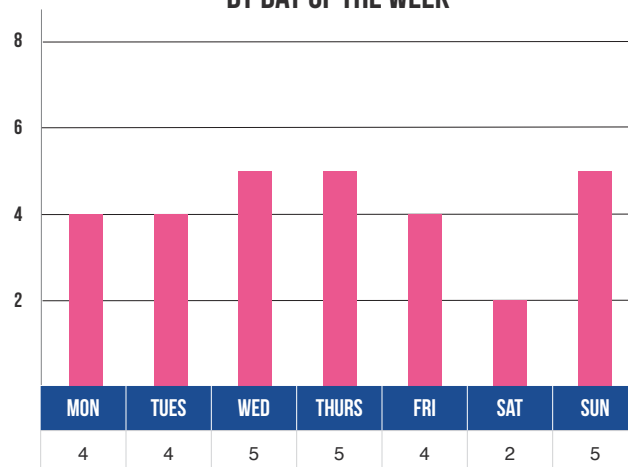
UPPER PENINSULA DAY OF WEEK

DAY OF WEEK	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
Monday	1,205	14.6	4	13.8	21	48	101	1,031
Tuesday	1,129	13.7	4	13.8	22	43	91	969
Wednesday	1,151	13.9	5	17.2	23	37	104	982
Thursday	1,286	15.6	5	17.2	23	44	81	1,133
Friday	1,315	15.9	4	13.8	25	62	114	1,110
Saturday	1,153	14.0	2	6.9	26	57	89	979
Sunday	1,025	12.4	5	17.2	26	58	68	868
TOTAL	8,264	100.0	29	100.0	166	349	648	7,072

**ALL CRASHES
BY DAY OF THE WEEK**



**FATAL CRASHES
BY DAY OF THE WEEK**

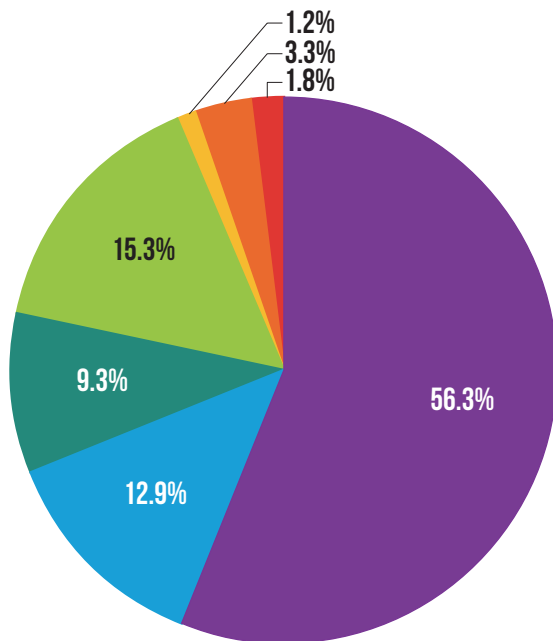


In the Upper Peninsula, crash frequencies are the highest on Friday (1,315). Wednesday, Thursday, and Sunday have the highest number of fatal crashes (5).

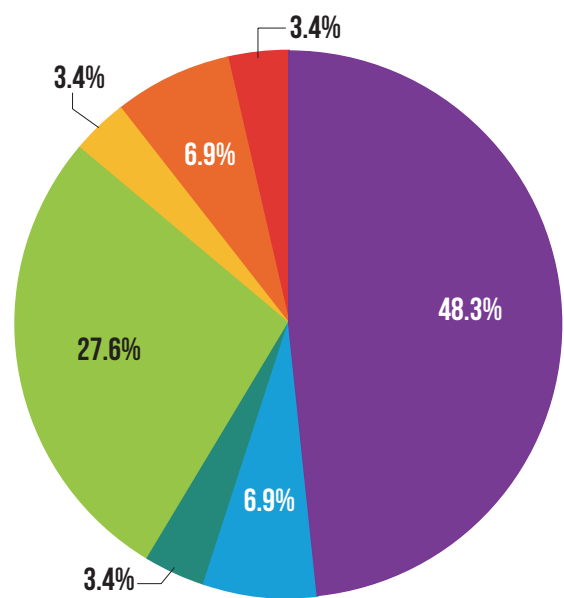
UPPER PENINSULA ROAD CONDITION

ROAD SURFACE CONDITION	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
Dry	4,655	56.3	14	48.3	114	213	347	3,967
Wet	1,058	12.8	2	6.9	18	47	88	903
Ice	770	9.3	1	3.4	8	28	79	654
Snow	1,261	15.3	8	27.6	15	34	88	1,116
Mud, Dirt, Gravel	88	1.1	1	3.4	8	10	12	57
Slush	269	3.3	2	6.9	2	13	29	223
Debris	4	0.0	0	0.0	1	0	0	3
Water (Standing/Moving)	5	0.1	0	0.0	0	1	0	4
Sand	8	0.1	0	0.0	0	2	0	6
Oily	0	0.0	0	0.0	0	0	0	0
Other/Unknown	146	1.8	1	3.4	0	1	5	139
TOTAL	8,264	100.0	29	100.0	166	349	648	7,072

■ DRY
 ■ WET/WATER
 ■ ICE
 ■ SNOW
 ■ MUD/SAND
 ■ SLUSH
 ■ DEBRIS
 ■ OILY
 ■ OTHER/UNKNOWN



ALL CRASHES



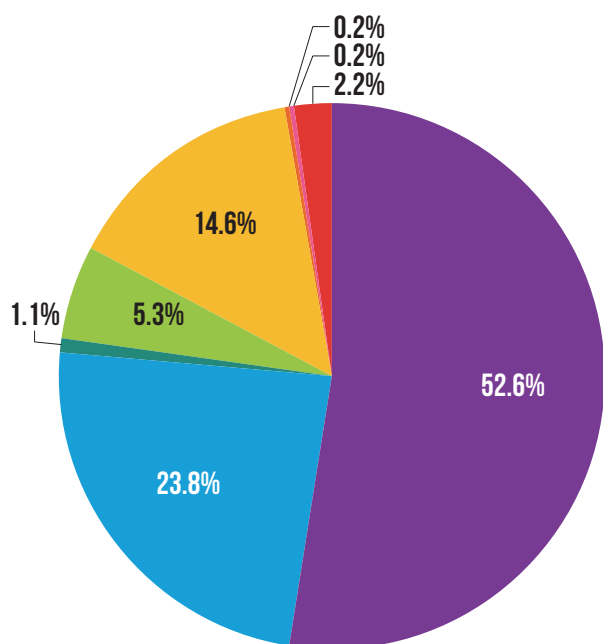
FATAL CRASHES

In the Upper Peninsula, the highest percentage of all crashes (56.3%), fatal crashes (48.3%), injury crashes (58.0%), and property damage only crashes (56.1%) occur on dry roads.

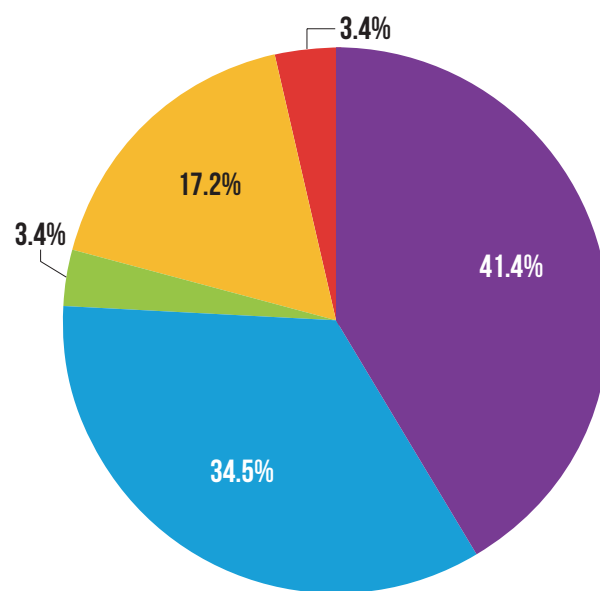
UPPER PENINSULA WEATHER CONDITION

WEATHER CONDITION	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
Clear	4,350	52.6	12	41.4	108	210	335	3,685
Cloudy	1,966	23.8	10	34.5	32	63	151	1,710
Fog	90	1.1	0	0.0	3	3	8	76
Rain	434	5.3	1	3.4	11	29	38	355
Snow	1,109	13.4	5	17.2	5	38	96	965
Severe Wind	16	0.2	0	0.0	1	1	3	11
Sleet/Hail	17	0.2	0	0.0	0	0	3	14
Blowing Snow	101	1.2	0	0.0	5	1	10	85
Blowing Sand	2	0.0	0	0.0	0	0	0	2
Smoke	0	0.0	0	0.0	0	0	0	0
Other/Unknown	179	2.2	1	3.4	1	4	4	169
TOTAL	8,264	100.0	29	100.0	166	349	648	7,072

■ CLEAR
 ■ CLOUDY
 ■ FOG/SMOKE
 ■ RAIN
 ■ SNOW/BLOWING SNOW
 ■ SEVERE WIND/BLOWING SAND
 ■ SLEET/HAIL
 ■ OTHER/UNKNOWN



ALL CRASHES

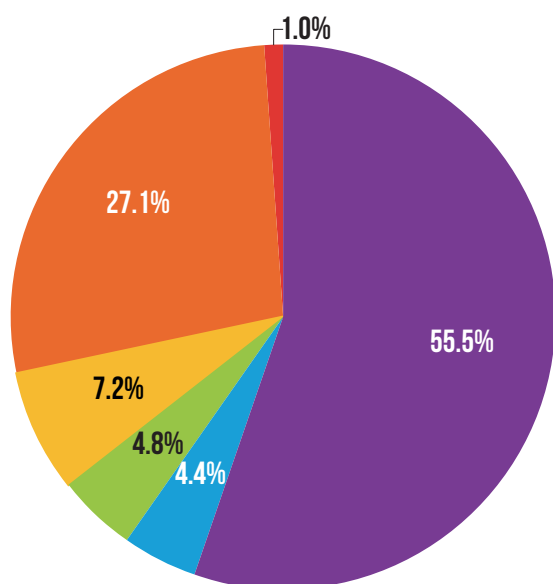


FATAL CRASHES

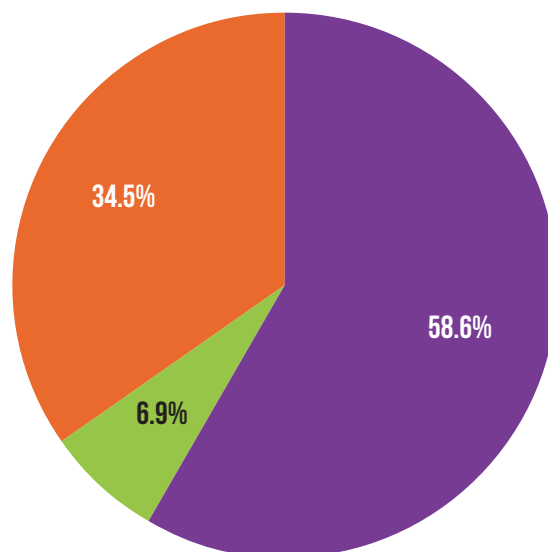
In the Upper Peninsula, the highest percentage of all crashes (52.6%), fatal crashes (41.4%), injury crashes (56.1%), and property damage only crashes (52.1%) occur during clear weather conditions.

UPPER PENINSULA LIGHT CONDITION

LIGHT CONDITION	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
Daylight	4,589	55.5	17	58.6	112	223	457	3,780
Dawn	364	4.4	0	0.0	4	12	21	327
Dusk	395	4.8	2	6.9	6	9	18	360
Dark – Lighted	593	7.2	0	0.0	13	33	56	491
Dark – Unlighted	2,239	27.1	10	34.5	31	71	93	2,034
Other/Unknown	84	1.0	0	0.0	0	1	3	80
TOTAL	8,264	100.0	29	100.0	166	349	648	7,072



ALL CRASHES



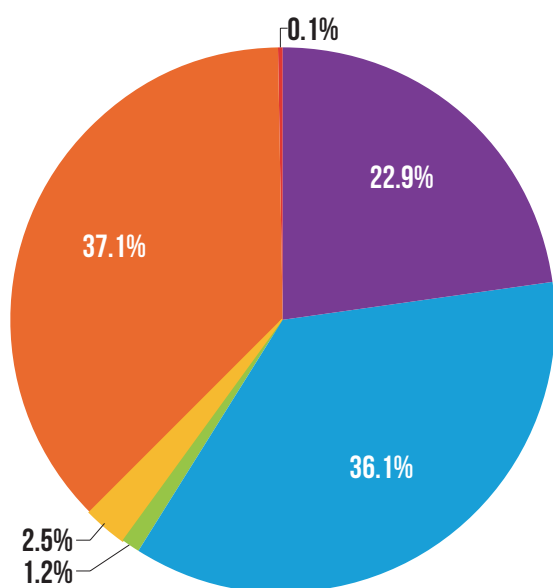
FATAL CRASHES

In the Upper Peninsula, the highest percentage of all crashes (55.5%), fatal crashes (58.6%), injury crashes (68.1%), and property damage only crashes (53.5%) occur during daylight hours.

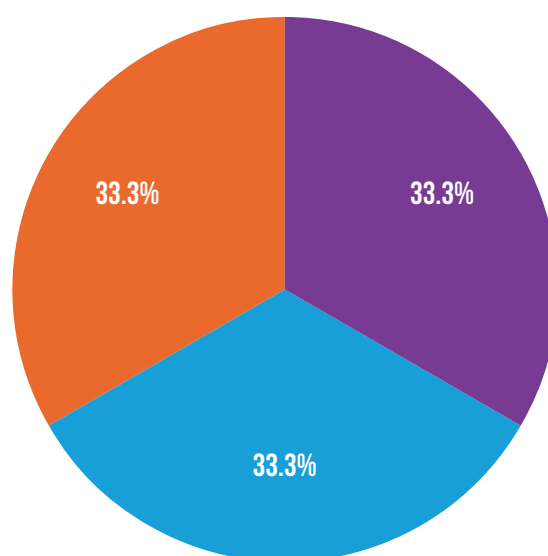
UPPER PENINSULA INTERSECTION CRASHES BY TRAFFIC CONTROL TYPE

TRAFFIC CONTROL TYPE	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
Signal	514	22.9	2	33.3	7	29	91	385
Stop Sign	810	36.1	2	33.3	17	45	118	628
Stop with Flashing Beacon	27	1.2	0	0.0	0	3	8	16
Yield Sign	56	2.5	0	0.0	1	1	11	43
None of These	831	37.1	2	33.3	19	43	86	681
Unknown	3	0.1	0	0.0	0	0	0	3
TOTAL	2,241	100.0	6	100.0	44	121	314	1,756

■ SIGNAL
 ■ STOP SIGN
 ■ STOP WITH FLASHING BEACON
 ■ YIELD SIGN
 ■ NONE
 ■ UNKNOWN



ALL CRASHES



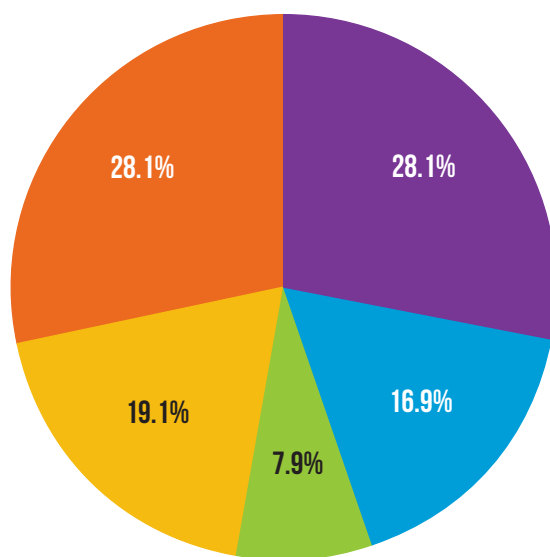
FATAL CRASHES

Compared to other intersection crashes, Upper Peninsula intersections with stop signs have the highest percentage of all crashes (36.1%) and injury crashes (37.6%).

UPPER PENINSULA CONSTRUCTION ZONE CRASHES

CONSTRUCTION ZONE TYPE	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
CONSTRUCTION/MAINTENANCE	Indicates roadway construction, maintenance, or repair. The building, maintenance, or repair of the road itself and roadway-related features (e.g., overhead signs, signals).							
Lane Closure	25	28.1	0	0.0	1	2	3	19
Lane Shift/Crossover	15	16.9	0	0.0	0	0	2	13
Work on Shoulder/Median	7	7.9	0	0.0	0	0	0	7
Intermittent/Moving Work	17	19.1	0	0.0	0	1	1	15
Other	25	28.1	0	0.0	0	0	3	22
Unknown	0	0.0	0	0.0	0	0	0	0
TOTAL	89	100.0	0	0.0	1	3	9	76

LANE CLOSURE
 LANE SHIFT/CROSSOVER
 WORK ON SHOULDER/MEDIAN
 INTERMITTENT/MOVING WORK
 OTHER
 UNKNOWN



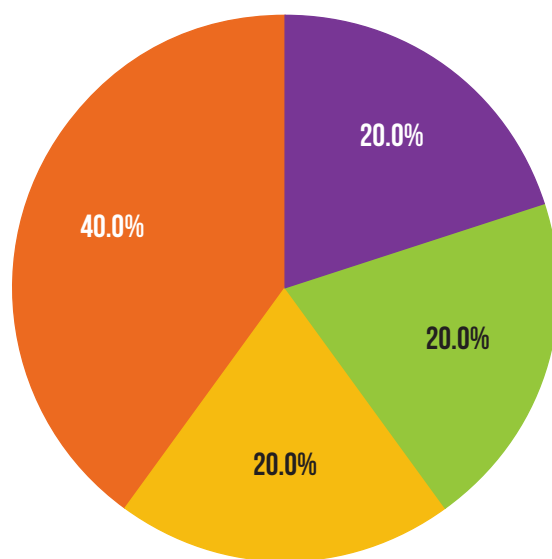
ALL CRASHES

For crashes taking place in construction/maintenance zones, the highest percentage of all crashes occur in closed lanes or other construction zone types (28.1%). Injury crashes (46.2%) occur most frequently in closed lanes in construction zones. Property damage only crashes (28.9%) occur most frequently in other construction zone types.

UPPER PENINSULA CONSTRUCTION ZONE CRASHES

CONSTRUCTION ZONE TYPE	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
UTILITY	Indicates work on facilities other than the roadway such as telephone, electrical, cable television, water, or sewer.							
Lane Closure	1	20.0	0	0.0	0	0	0	1
Lane Shift/Crossover	0	0.0	0	0.0	0	0	0	0
Work on Shoulder/Median	1	20.0	0	0.0	0	0	0	1
Intermittent/Moving Work	1	20.0	0	0.0	0	0	0	1
Other	2	40.0	0	0.0	0	0	1	1
Unknown	0	0.0	0	0.0	0	0	0	0
TOTAL	5	100.0	0	0.0	0	0	1	4

LANE CLOSURE
 LANE SHIFT/CROSSOVER
 WORK ON SHOULDER/MEDIAN
 INTERMITTENT/MOVING WORK
 OTHER
 UNKNOWN



ALL CRASHES

For crashes taking place in utility construction zones, the highest percentage of all crashes (40.0%) and injury crashes (100.0%) occur in other utility construction zone types. Property damage only crashes occur equally (25.0%) in closed lanes, shoulders, moving, and other utility construction zone types.