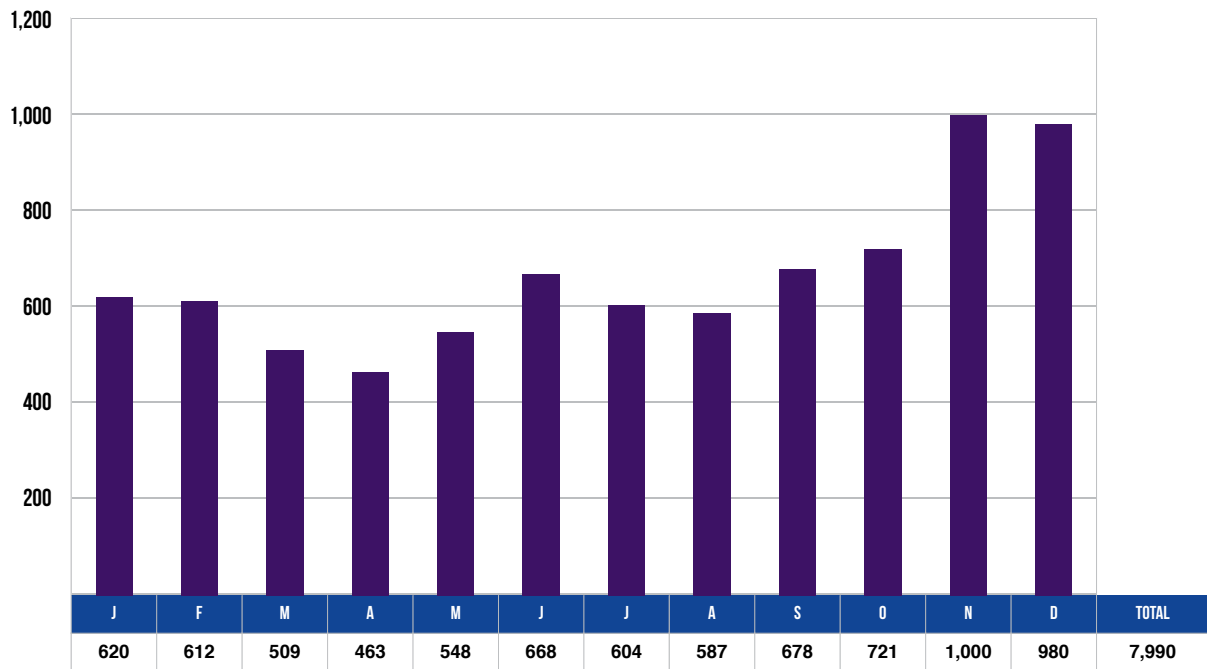
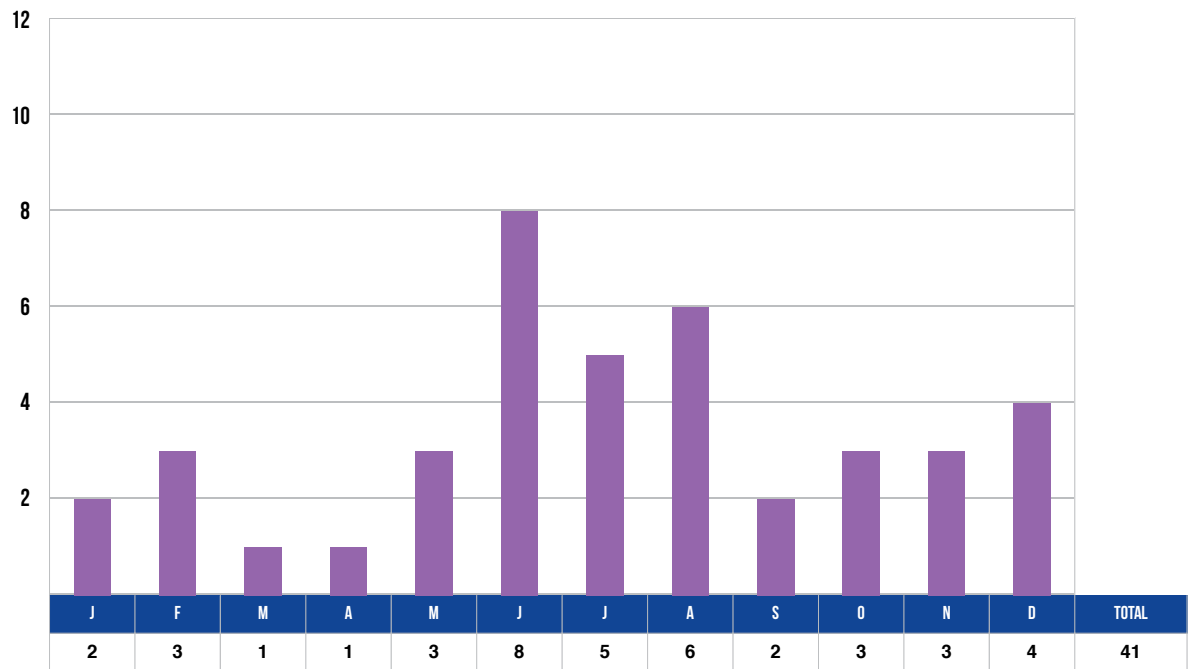


UPPER PENINSULA ALL CRASHES INJURY SEVERITY BY MONTH

TOTAL CRASHES

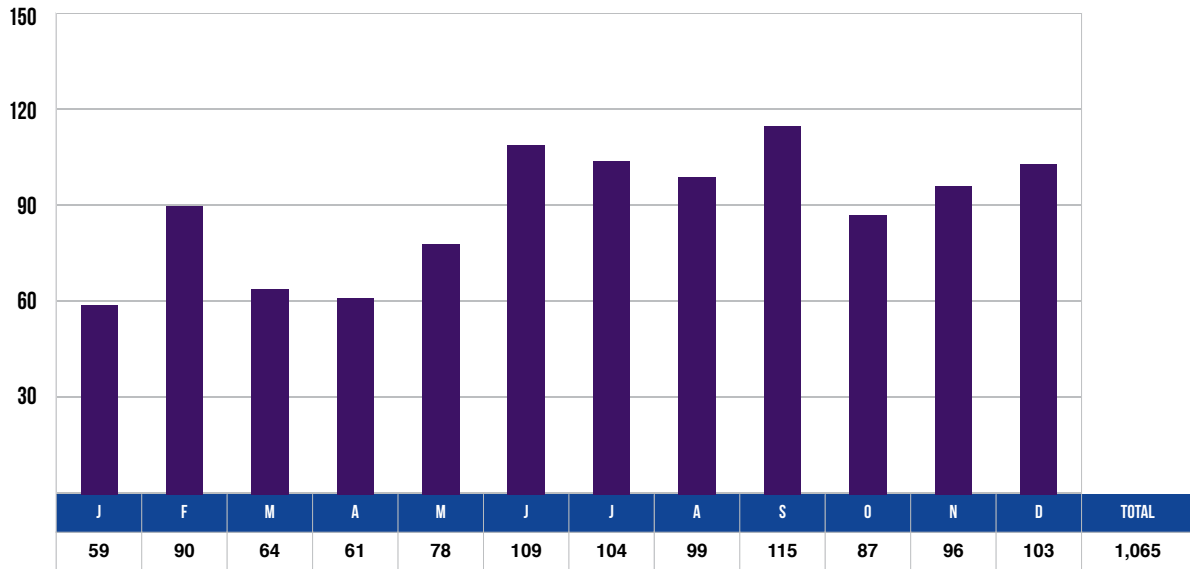


FATAL CRASHES

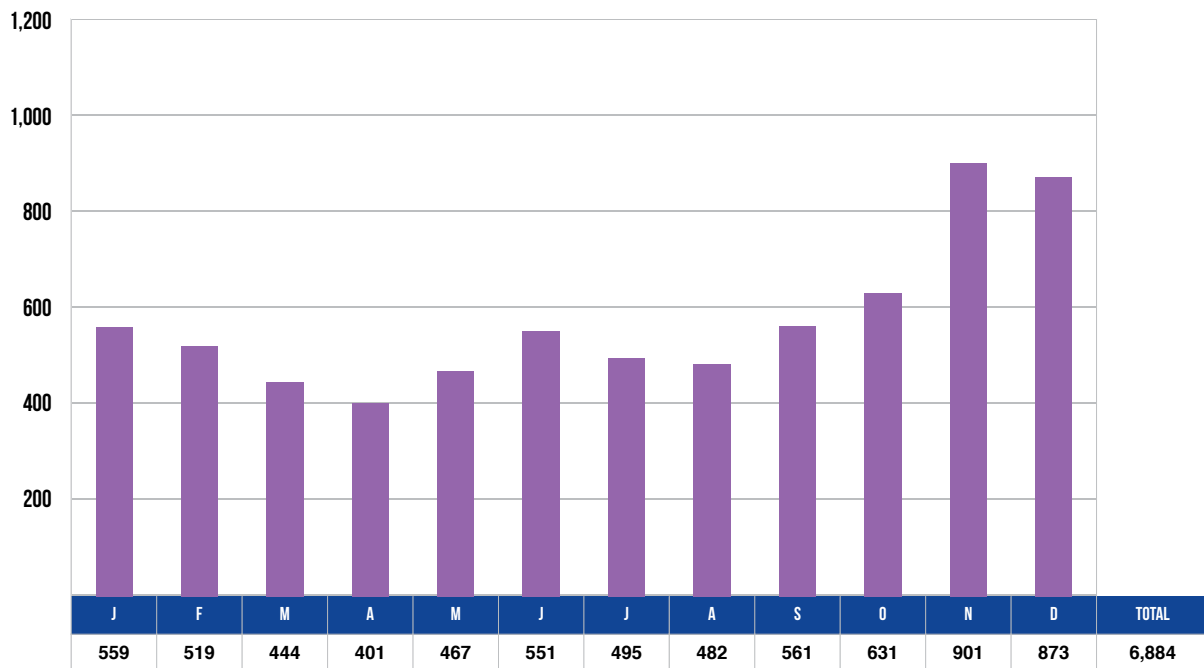


UPPER PENINSULA ALL CRASHES INJURY SEVERITY BY MONTH (CONTINUED)

INJURY CRASHES



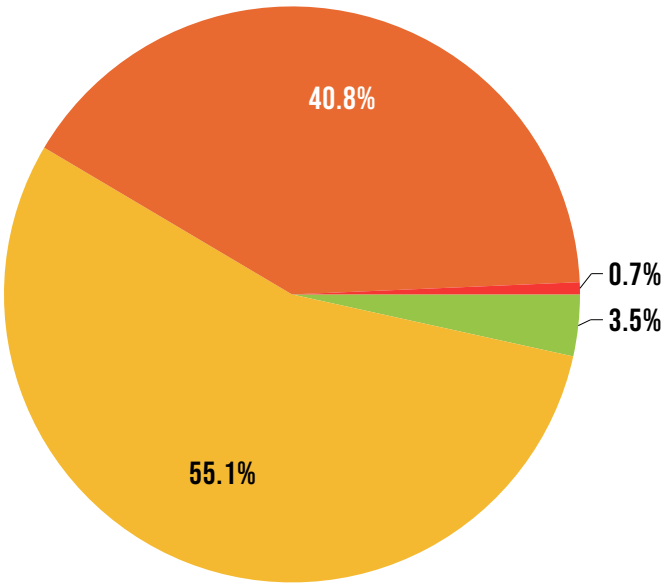
PROPERTY DAMAGE ONLY CRASHES



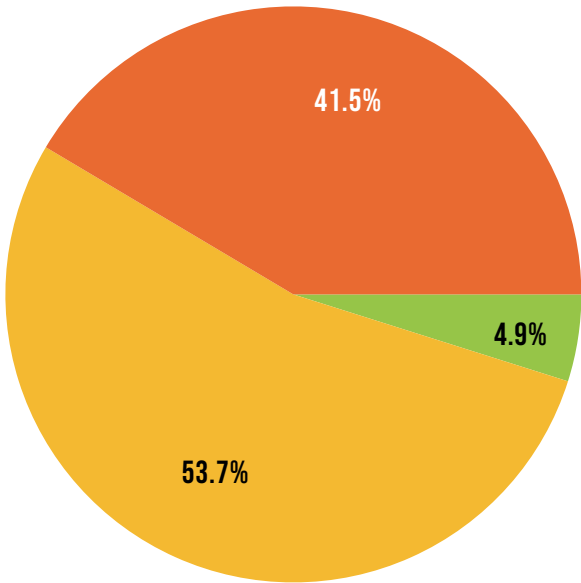
UPPER PENINSULA CRASH EXPERIENCE BY HIGHWAY CLASS

HIGHWAY CLASS	ALL CRASHES	FATAL CRASHES	INJURY CRASHES	PROPERTY DAMAGE ONLY
Interstate Routes	276	2	37	237
U.S. & Michigan Roads	4,399	22	552	3,825
County & City Roads	3,261	17	467	2,777
Uncoded & Errors	54	0	9	45

INTERSTATE ROUTES U.S. & MICHIGAN ROADS COUNTY & CITY ROADS UNCODED & ERRORS



ALL CRASHES



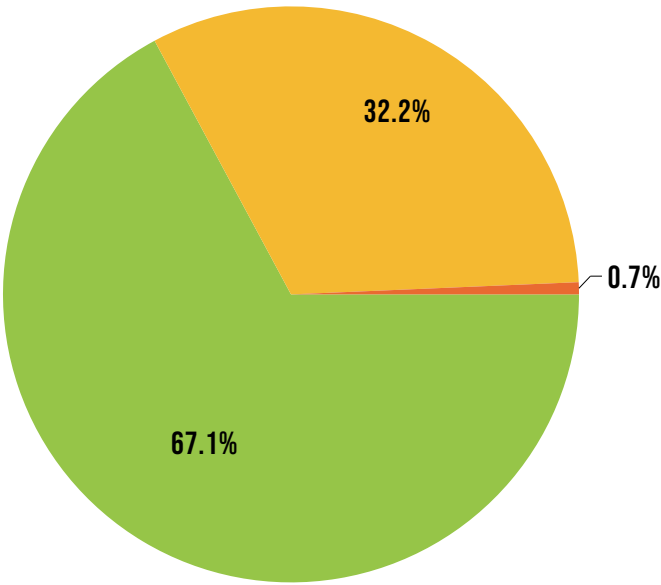
FATAL CRASHES

The highest percentage of all crashes (55.1%), fatal crashes (53.7%), injury crashes (51.8%), and property damage only crashes (55.6%) occurred on U.S. and Michigan roads.

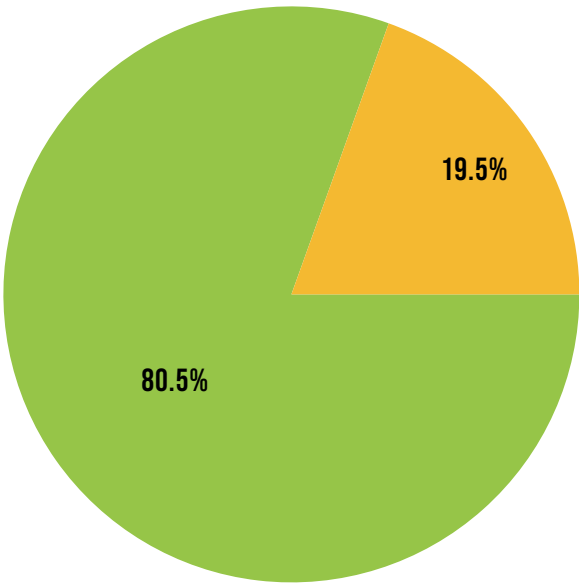
UPPER PENINSULA CRASH EXPERIENCE BY RURAL/URBAN AREA

RURAL/URBAN	ALL CRASHES	FATAL CRASHES	INJURY CRASHES	PROPERTY DAMAGE ONLY
Rural	5,365	33	653	4,679
Urban	2,571	8	403	2,160
Uncoded & Errors	54	0	9	45

■ RURAL ■ URBAN ■ UNCODED & ERRORS



ALL CRASHES



FATAL CRASHES

The highest percentage of all crashes (67.1%), fatal crashes (80.5%), injury crashes (61.3%), and property damage only crashes (68.0%) occurred in rural areas.

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	5,035	63.0	17	41.5	102	185	225	4,506
Head On	69	0.9	7	17.1	9	15	15	23
Head On – Left Turn	119	1.5	0	0.0	16	13	19	71
Angle	770	9.6	7	17.1	34	47	111	571
Rear End	745	9.3	4	9.8	12	37	106	586
Rear End – Left Turn	59	0.7	0	0.0	3	5	9	42
Rear End – Right Turn	42	0.5	0	0.0	0	1	3	38
Sideswipe – Same Direction	469	5.9	1	2.4	6	12	18	432
Sideswipe – Opposite Directions	129	1.6	1	2.4	1	6	8	113
Backing	251	3.1	0	0.0	0	0	2	249
Other	226	2.8	4	9.8	11	12	21	178
Unknown	76	1.0	0	0.0	1	0	0	75
Uncoded & Errors	0	0.0	0	0.0	0	0	0	0
TOTAL	7,990	100.0	41	100.0	195	333	537	6,884

RELATIONSHIP TO ROADWAY

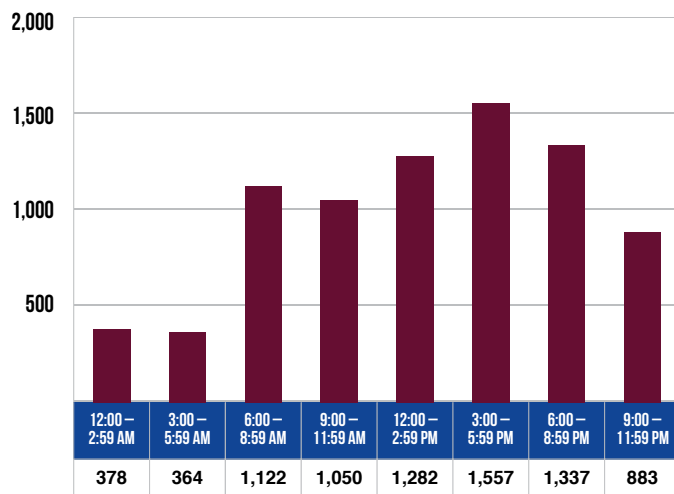
LOCATION OF FIRST IMPACT	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
On Road	6,708	84.0	30	73.2	147	235	405	5,891
Median	22	0.3	0	0.0	0	1	3	18
Shoulder	395	4.9	5	12.2	13	25	45	307
Outside of Shoulder/Curb	617	7.7	5	12.2	33	64	77	438
Gore	26	0.3	0	0.0	1	1	0	24
On-Street Parking	151	1.9	0	0.0	0	4	4	143
Off the Roadway	0	0.0	0	0.0	0	0	0	0
On the Sidewalk	9	0.1	0	0.0	0	0	1	8
In the Bicycle Lane	1	0.0	0	0.0	0	0	0	1
Other/Unknown	61	0.8	1	2.4	1	3	2	54
TOTAL	7,990	100.0	41	100.0	195	333	537	6,884

In the Upper Peninsula, only 7.7 percent of crashes occur outside of the shoulder/curb of the road, but these crashes account for 12.2 percent of the fatal crashes.

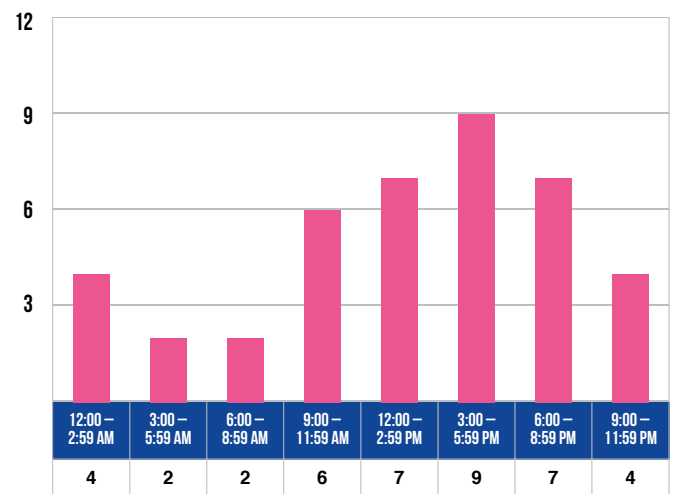
UPPER PENINSULA TIME AND SEVERITY

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	378	4.7	4	9.8	14	19	28	313
3:00 AM – 5:59 AM	364	4.6	2	4.9	7	12	17	326
6:00 AM – 8:59 AM	1,122	14.0	2	4.9	15	31	57	1,017
9:00 AM – 11:59 AM	1,050	13.1	6	14.6	32	40	79	893
12:00 PM – 2:59 PM	1,282	16.0	7	17.1	38	72	104	1,061
3:00 PM – 5:59 PM	1,557	19.5	9	22.0	52	84	149	1,263
6:00 PM – 8:59 PM	1,337	16.7	7	17.1	25	46	66	1,193
9:00 PM – 11:59 PM	883	11.1	4	9.8	12	29	37	801
Unknown	17	0.2	0	0.0	0	0	0	17
TOTAL	7,990	100.0	41	100.0	195	333	537	6,884

**ALL CRASHES
BY TIME OF DAY**



**FATAL CRASHES
BY TIME OF DAY**

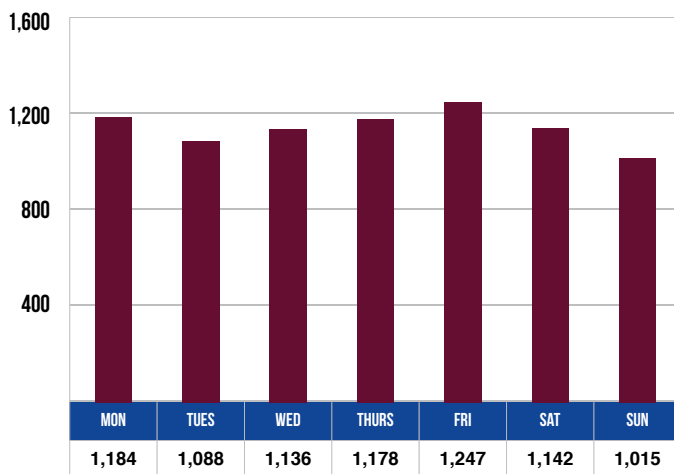


In the Upper Peninsula, crash frequencies peak in the late afternoon, then drop off until 6:00 AM (the morning rush hour). In 2021, fatal crashes were more prevalent in the PM hours than the AM hours, with the highest concentration (9) occurring during the 3:00 PM to 5:59 PM time period.

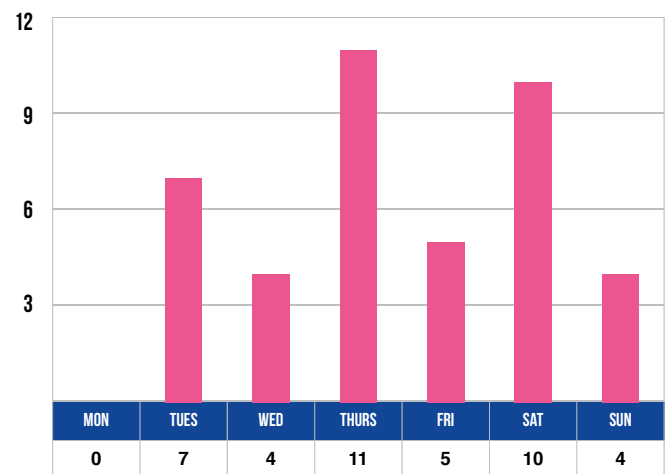
UPPER PENINSULA DAY OF WEEK

DAY OF WEEK	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
Monday	1,184	14.8	0	0.0	26	47	67	1,044
Tuesday	1,088	13.6	7	17.1	27	38	74	942
Wednesday	1,136	14.2	4	9.8	24	45	79	984
Thursday	1,178	14.7	11	26.8	29	51	85	1,002
Friday	1,247	15.6	5	12.2	38	54	83	1,067
Saturday	1,142	14.3	10	24.4	33	53	74	972
Sunday	1,015	12.7	4	9.8	18	45	75	873
TOTAL	7,990	100.0	41	100.0	195	333	537	6,884

**ALL CRASHES
BY DAY OF WEEK**



**FATAL CRASHES
BY DAY OF WEEK**

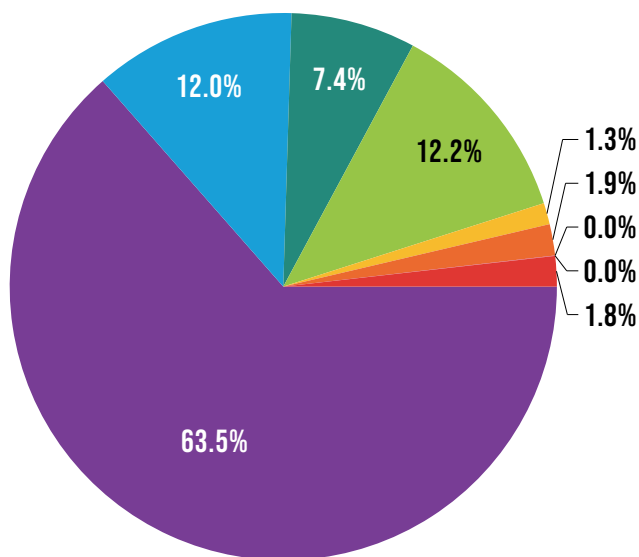


In the Upper Peninsula, overall crash frequencies are the highest on Friday (1,247), but Thursday had the highest number of fatal crashes (11).

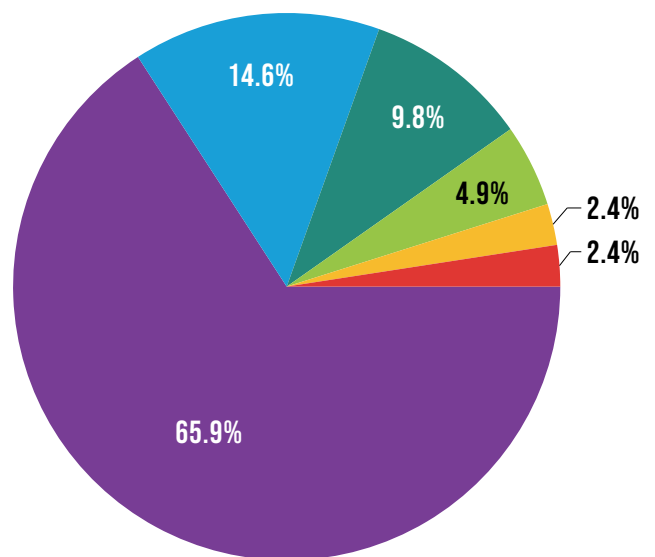
UPPER PENINSULA ROAD CONDITION

ROAD SURFACE CONDITION	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
Dry	5,076	63.5	27	65.9	130	212	325	4,382
Wet	952	11.9	6	14.6	22	33	56	835
Ice	589	7.4	4	9.8	7	27	46	505
Snow	976	12.2	2	4.9	19	35	73	847
Mud, Dirt, Gravel	97	1.2	1	2.4	9	14	16	57
Slush	148	1.9	0	0.0	5	9	18	116
Debris	1	0.0	0	0.0	0	0	0	1
Water (standing/moving)	3	0.0	0	0.0	1	0	0	2
Sand	4	0.1	0	0.0	0	0	0	4
Oily	1	0.0	0	0.0	0	1	0	0
Other	7	0.1	0	0.0	1	0	1	5
Unknown	136	1.7	1	2.4	1	2	2	130
Uncoded & Errors	0	0.0	0	0.0	0	0	0	0
TOTAL	7,990	100.0	41	100.0	195	333	537	6,884

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



ALL CRASHES



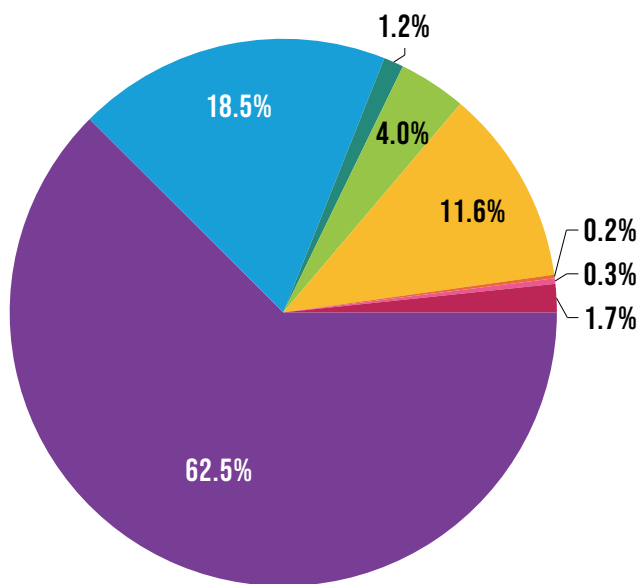
FATAL CRASHES

In the Upper Peninsula, the highest percentage of all crashes (63.5%), fatal crashes (65.9%), injury crashes (62.6%), and property damage only crashes (63.7%) occur on dry roads.

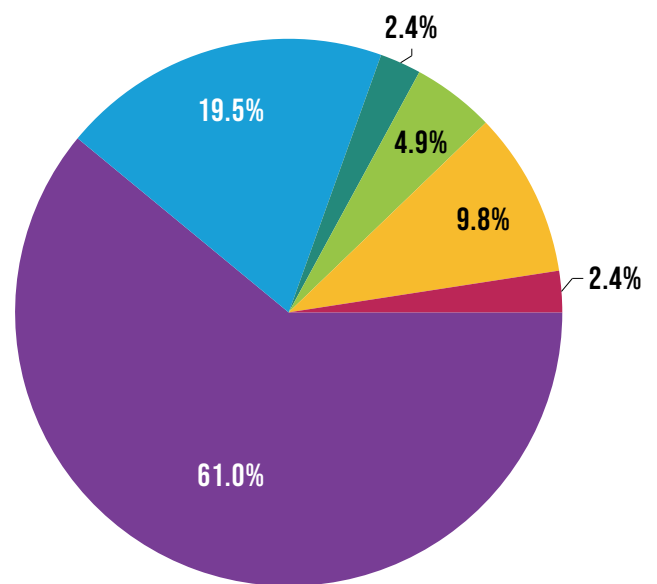
UPPER PENINSULA WEATHER CONDITION

WEATHER CONDITION	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
Clear	4,992	62.5	25	61.0	137	213	332	4,285
Cloudy	1,482	18.5	8	19.5	35	63	100	1,276
Fog	93	1.2	1	2.4	3	2	8	79
Rain	320	4.0	2	4.9	12	15	22	269
Snow	819	10.3	3	7.3	6	27	65	718
Severe Crosswinds	17	0.2	0	0.0	0	1	1	15
Sleet/Hail	26	0.3	0	0.0	1	2	3	20
Blowing Snow	107	1.3	1	2.4	0	9	3	94
Blowing Sand, Soil, Dirt	0	0.0	0	0.0	0	0	0	0
Smoke	1	0.0	0	0.0	0	0	0	1
Unknown	133	1.7	1	2.4	1	1	3	127
TOTAL	7,990	100.0	41	100.0	195	333	537	6,884

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



ALL CRASHES



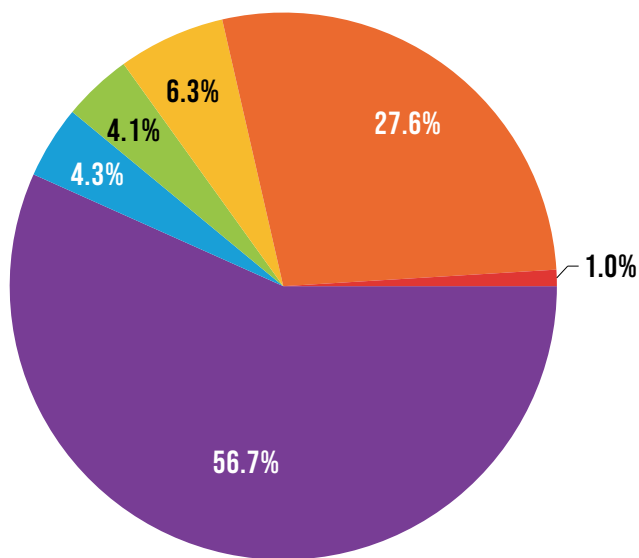
FATAL CRASHES

In the Upper Peninsula, the highest percentage of all crashes (62.5%), fatal crashes (61.0%), injury crashes (64.0%), and property damage only crashes (62.2%) occur during clear weather conditions.

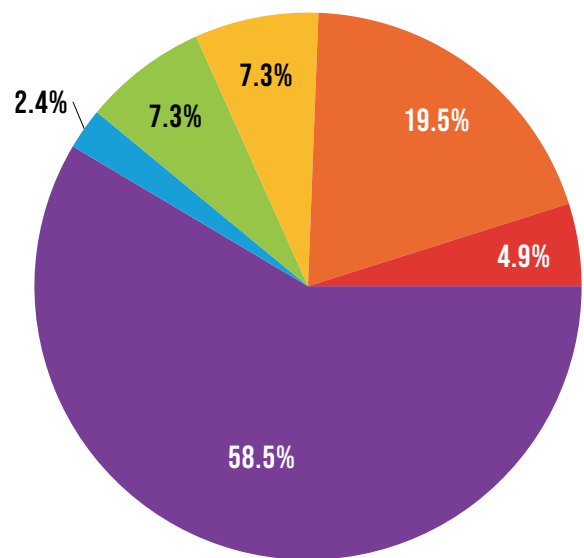
UPPER PENINSULA LIGHT CONDITION

LIGHT CONDITION	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
Daylight	4,530	56.7	24	58.5	137	233	390	3,746
Dawn	343	4.3	1	2.4	5	6	16	315
Dusk	327	4.1	3	7.3	7	8	21	288
Dark – Lighted	506	6.3	3	7.3	13	22	32	436
Dark – Unlighted	2,207	27.6	8	19.5	32	64	77	2,026
Other	3	0.0	0	0.0	0	0	0	3
Unknown	74	0.9	2	4.9	1	0	1	70
TOTAL	7,990	100.0	41	100.0	195	333	537	6,884

■ DAYLIGHT
 ■ DAWN
 ■ DUSK
 ■ DARK – LIGHTED
 ■ DARK – UNLIGHTED
 ■ OTHER/UNKNOWN



ALL CRASHES



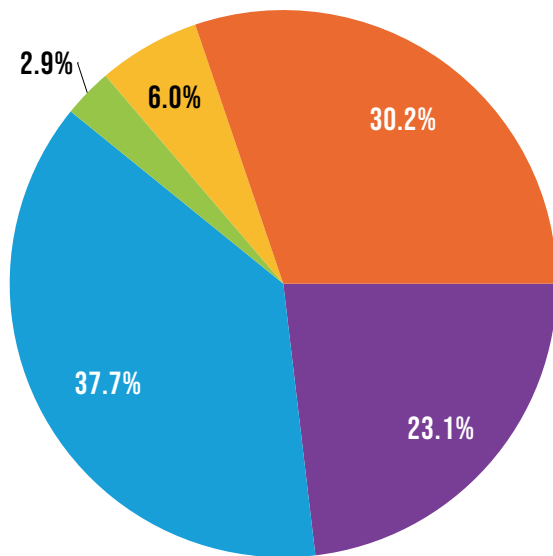
FATAL CRASHES

In the Upper Peninsula, the highest percentage of all crashes (56.7%), fatal crashes (58.5%), injury crashes (71.4%), and property damage only crashes (54.4%) occur during daylight hours.

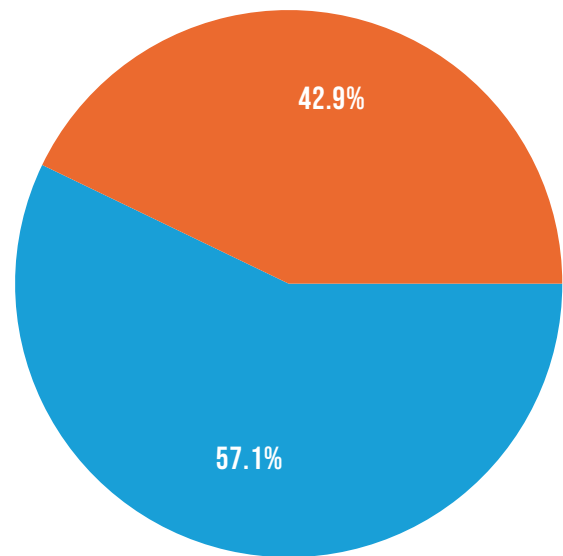
UPPER PENINSULA INTERSECTION CRASHES BY TRAFFIC CONTROL TYPE

TRAFFIC CONTROL TYPE	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
Signal	398	23.1	0	0.0	17	21	68	292
Stop Sign	649	37.7	4	57.1	25	45	73	502
Stop with Flashing Beacon	50	2.9	0	0.0	2	1	7	40
Yield Sign	104	6.0	0	0.0	1	1	10	92
None	520	30.2	3	42.9	17	27	55	418
Uncoded & Errors	0	0.0	0	0.0	0	0	0	0
TOTAL	1,721	100.0	7	100.0	62	95	213	1,344

■ SIGNAL
 ■ STOP SIGN
 ■ STOP WITH FLASHING BEACON
 ■ YIELD SIGN
 ■ NONE
 ■ UNCODED & ERRORS



ALL CRASHES



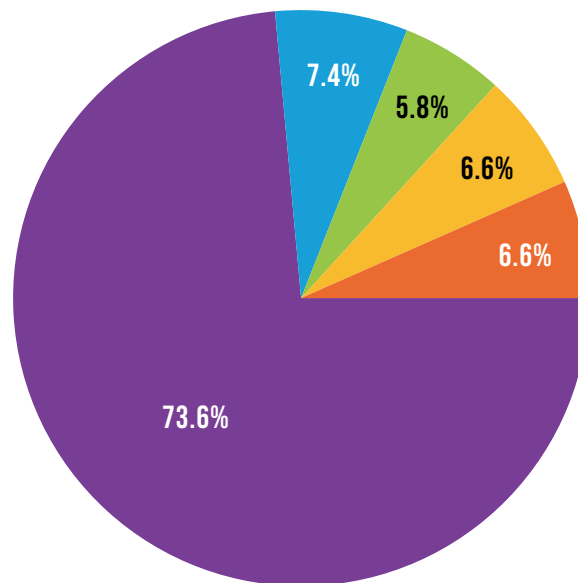
FATAL CRASHES

Compared to other intersection crashes, Upper Peninsula intersections with stop signs have the highest percentage of all crashes (37.7%), fatal crashes (57.1%), injury crashes (38.6%), and property damage only crashes (37.4%).

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	89	73.6	1	50.0	0	10	14	64
Lane Shift/Crossover	9	7.4	0	0.0	0	1	2	6
Work on Shoulder/Median	7	5.8	1	50.0	0	0	0	6
Intermittent/Moving Work	8	6.6	0	0.0	0	1	0	7
Other	8	6.6	0	0.0	1	1	0	6
Uncoded & Errors	0	0.0	0	0.0	0	0	0	0
TOTAL	121	100.0	2	100.0	1	13	16	89

LANE CLOSURE
 LANE SHIFT/CROSSOVER
 WORK ON SHOULDER/MEDIAN
 INTERMITTENT/MOVING WORK
 OTHER
 UNCODED & ERRORS



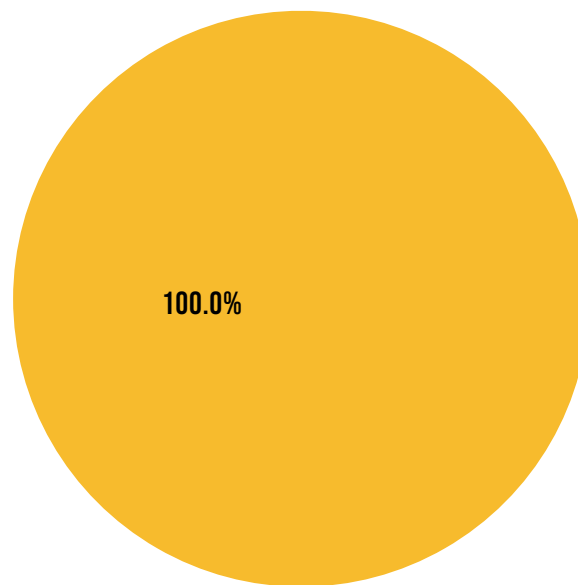
ALL CRASHES

For crashes taking place in construction/maintenance zones, the highest percentage of all crashes (73.6%), injury crashes (80.0%), and property damage only crashes (71.9%) occur in lane closure situations.

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	0	0.0	0	0.0	0	0	0	0
Lane Shift/Crossover	0	0.0	0	0.0	0	0	0	0
Work on Shoulder/Median	0	0.0	0	0.0	0	0	0	0
Intermittent/Moving Work	1	100.0	0	0.0	0	0	0	1
Other	0	0.0	0	0.0	0	0	0	0
Uncoded & Errors	0	0.0	0	0.0	0	0	0	0
TOTAL	1	100.0	0	0.0	0	0	0	1

LANE CLOSURE
 LANE SHIFT/CROSSOVER
 WORK ON SHOULDER/MEDIAN
 INTERMITTENT/MOVING WORK
 OTHER
 UNCODED & ERRORS



ALL CRASHES

One crash occurred in a utility construction zone in the Upper Peninsula in 2021 and it was a property damage only crash.