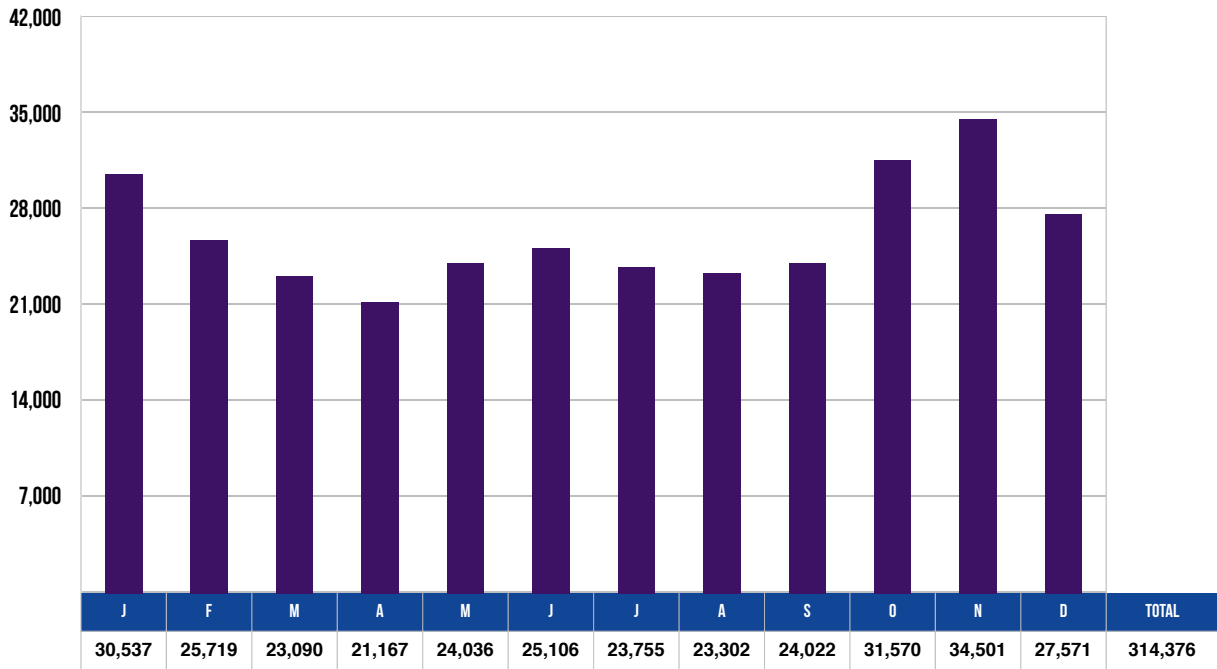
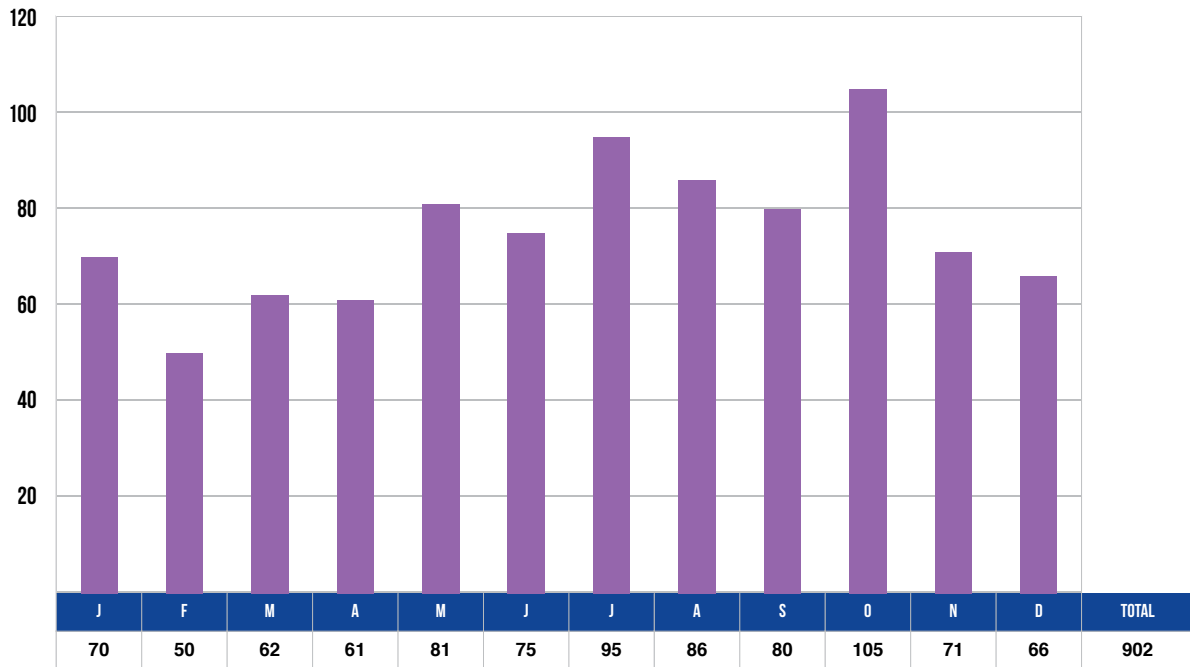


ALL CRASHES INJURY SEVERITY BY MONTH

TOTAL CRASHES

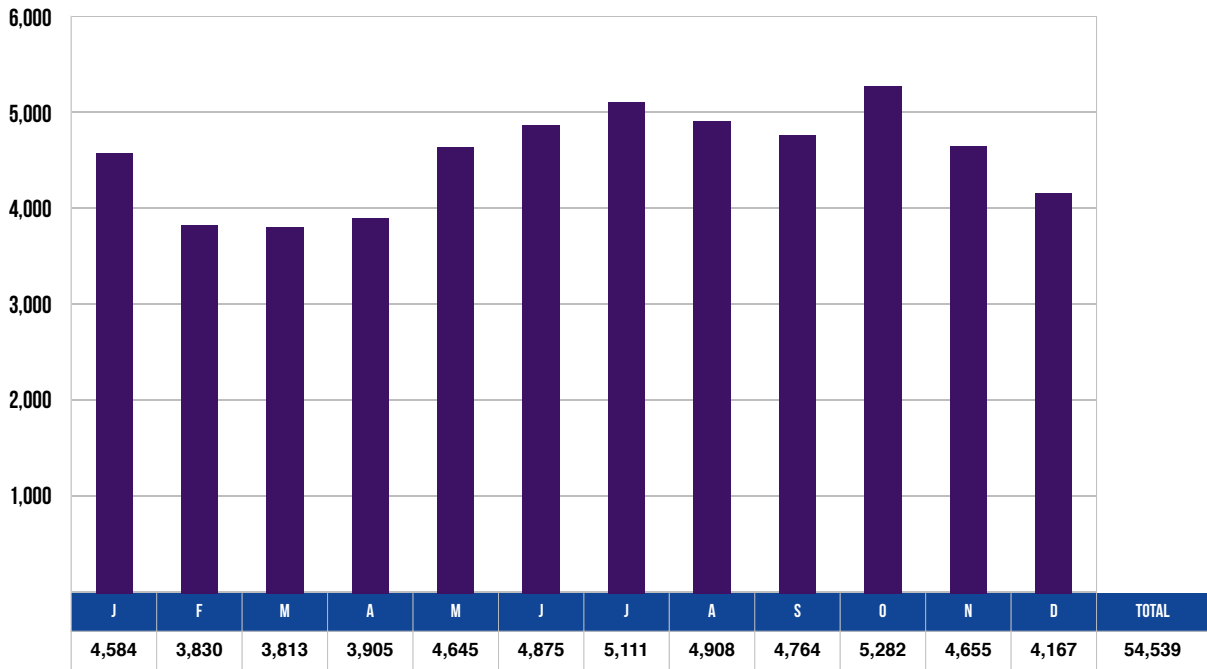


FATAL CRASHES

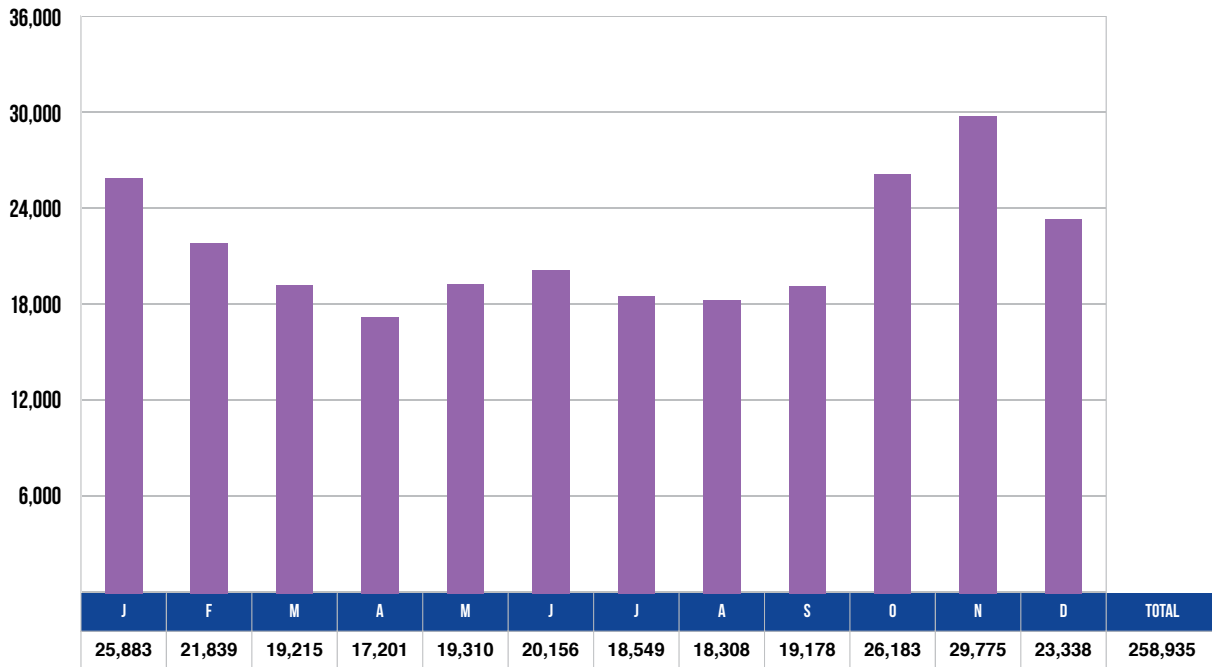


ALL CRASHES INJURY SEVERITY BY MONTH (CONTINUED)

INJURY CRASHES

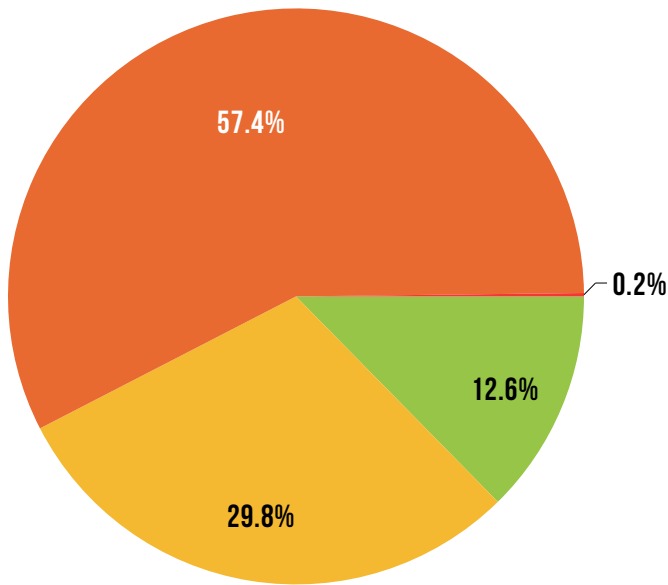


PROPERTY DAMAGE ONLY CRASHES

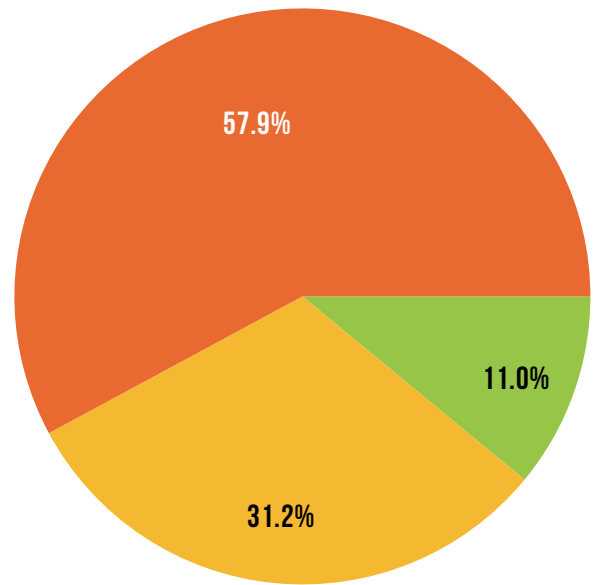


HIGHWAY CLASS

HIGHWAY CLASS	ALL CRASHES	FATAL CRASHES	INJURY CRASHES	PROPERTY DAMAGE ONLY
Interstate Routes	39,731	99	7,213	32,419
U.S. & Michigan Roads	93,642	281	16,433	76,928
County & City Roads	180,413	522	30,795	149,096
Uncoded & Errors	590	0	98	492



ALL CRASHES



FATAL CRASHES

The highest percentage of all crashes (57.4%), fatal crashes (57.9%), injury crashes (56.5%), and property damage only crashes (57.6%) occur on county and city roads.

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	109,398	34.8	445	49.3	1,937	5,044	7,053	94,919
Head On	3,474	1.1	114	12.6	269	489	646	1,956
Head On – Left Turn	7,164	2.3	38	4.2	273	986	1,628	4,239
Angle	46,839	14.9	166	18.4	996	3,925	8,367	33,385
Rear End	78,094	24.8	57	6.3	539	3,111	11,599	62,788
Rear End – Left Turn	2,619	0.8	3	0.3	45	166	403	2,002
Rear End – Right Turn	2,323	0.7	0	0.0	11	62	203	2,047
Sideswipe – Same Direction	37,519	11.9	18	2.0	177	672	2,137	34,515
Sideswipe – Opposite Direction	5,508	1.8	9	1.0	52	234	450	4,763
Backing	7,443	2.4	0	0.0	3	22	113	7,305
Other/Unknown	13,995	4.5	52	5.8	386	1,003	1,538	11,016
TOTAL	314,376	100.0	902	100.0	4,688	15,714	34,137	258,935

RELATIONSHIP TO ROADWAY

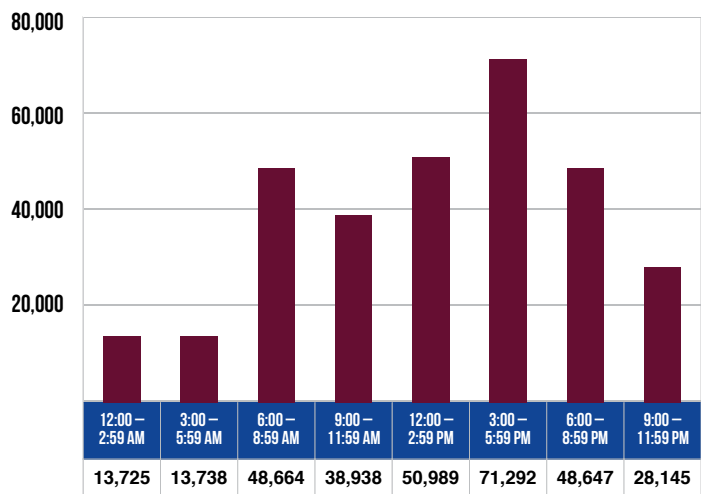
LOCATION OF FIRST IMPACT	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
On Road	278,203	88.5	688	76.3	3,751	13,118	30,357	230,289
Median	2,493	0.8	8	0.9	44	161	277	2,003
Shoulder	9,759	3.1	49	5.4	252	623	1,010	7,825
Outside of Shoulder/Curb	18,147	5.8	150	16.6	558	1,590	2,160	13,689
Gore	557	0.2	3	0.3	23	46	74	411
On-Street Parking	3,887	1.2	0	0.0	18	66	107	3,696
Off the Roadway	1	0.0	0	0.0	0	0	0	1
On the Sidewalk	391	0.1	1	0.1	15	69	77	229
In the Bicycle Lane	52	0.0	0	0.0	5	10	8	29
Other/Unknown	886	0.3	3	0.3	22	31	67	763
TOTAL	314,376	100.0	902	100.0	4,688	15,714	34,137	258,935

Only 5.8 percent of crashes occur outside the shoulder of the road, but these crashes account for 16.6 percent of the fatal crashes.

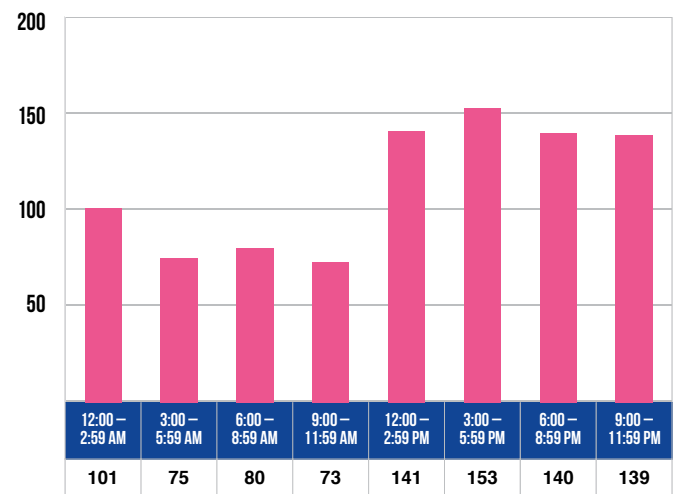
TIME AND SEVERITY

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	13,725	4.4	101	11.2	392	904	1,377	10,951
3:00 AM – 5:59 AM	13,738	4.4	75	8.3	239	629	1,095	11,700
6:00 AM – 8:59 AM	48,664	15.5	80	8.9	487	1,802	4,369	41,926
9:00 AM – 11:59 AM	38,938	12.4	73	8.1	500	1,995	4,518	31,852
12:00 PM – 2:59 PM	50,989	16.2	141	15.6	759	2,743	6,473	40,873
3:00 PM – 5:59 PM	71,292	22.7	153	17.0	1,032	3,731	8,805	57,571
6:00 PM – 8:59 PM	48,647	15.5	140	15.5	746	2,369	4,856	40,536
9:00 PM – 11:59 PM	28,145	9.0	139	15.4	531	1,533	2,635	23,307
Unknown	238	0.1	0	0.0	2	8	9	219
TOTAL	314,376	100.0	902	100.0	4,688	15,714	34,137	258,935

ALL CRASHES BY TIME OF DAY



FATAL CRASHES BY TIME OF DAY

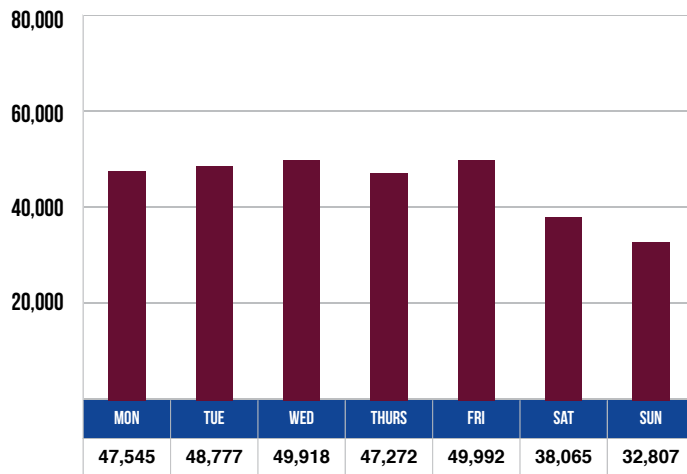


Crash frequencies peak in the late afternoon, then drop off steadily until 6:00 AM (the morning rush hour). Fatal crash frequencies rise with the frequency of other crashes, but continue at a high rate well into the early morning hours. In 2019, the highest percentage of fatal crashes occurred during the 3:00 PM to 5:59 PM time period (17.0%).

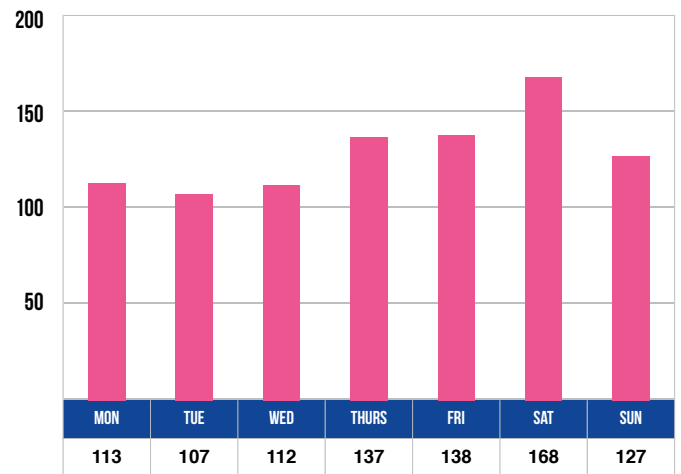
DAY OF WEEK

DAY OF WEEK	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
Monday	47,545	15.1	113	12.5	621	2,187	5,175	39,449
Tuesday	48,777	15.5	107	11.9	644	2,306	5,459	40,261
Wednesday	49,918	15.9	112	12.4	662	2,344	5,450	41,350
Thursday	47,272	15.0	137	15.2	641	2,319	5,197	38,978
Friday	49,992	15.9	138	15.3	717	2,460	5,301	41,376
Saturday	38,065	12.1	168	18.6	739	2,219	4,107	30,832
Sunday	32,807	10.4	127	14.1	664	1,879	3,448	26,689
TOTAL	314,376	100.0	902	100.0	4,688	15,714	34,137	258,935

ALL CRASHES BY DAY OF WEEK



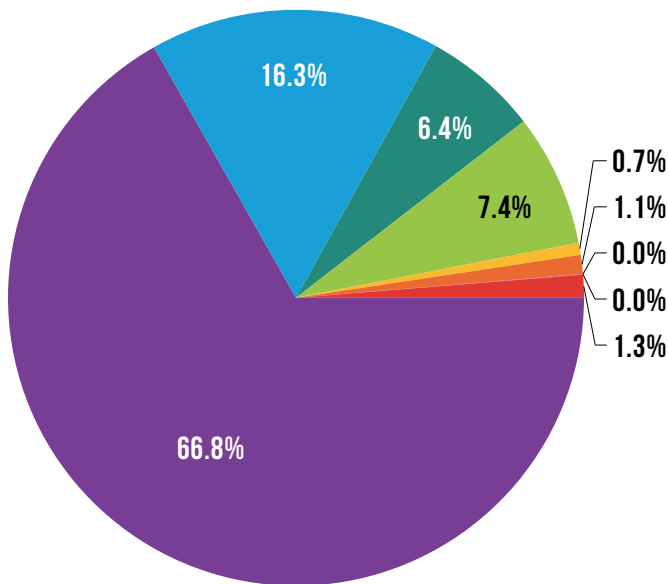
FATAL CRASHES BY DAY OF WEEK



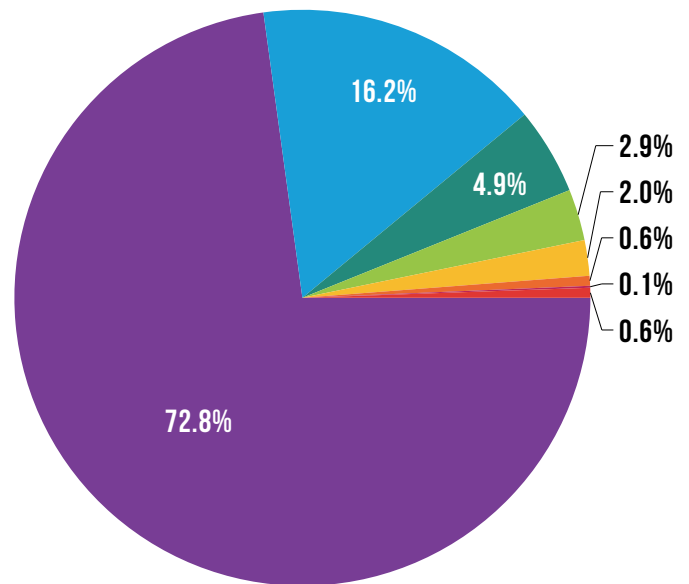
Crash frequencies are higher Monday through Friday than on the weekend. Saturday (168) has the highest number of fatal crashes.

ROAD CONDITION

ROAD SURFACE CONDITION	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
Dry	209,981	66.8	657	72.8	3,397	11,408	23,425	171,094
Wet	50,925	16.2	146	16.2	659	2,473	6,161	41,486
Ice	20,266	6.4	44	4.9	224	711	1,940	17,347
Snow	23,346	7.4	26	2.9	233	652	1,873	20,562
Mud, Dirt, Gravel	2,099	0.7	18	2.0	100	236	195	1,550
Slush	3,329	1.1	5	0.6	39	137	374	2,774
Debris	89	0.0	0	0.0	3	4	4	78
Water (Standing/Flowing)	223	0.1	0	0.0	6	11	25	181
Sand	41	0.0	0	0.0	10	5	6	20
Oily	53	0.0	1	0.1	0	4	7	41
Other/Unknown	4,024	1.3	5	0.6	17	73	127	3,802
TOTAL	314,376	100.0	902	100.0	4,688	15,714	34,137	258,935



ALL CRASHES



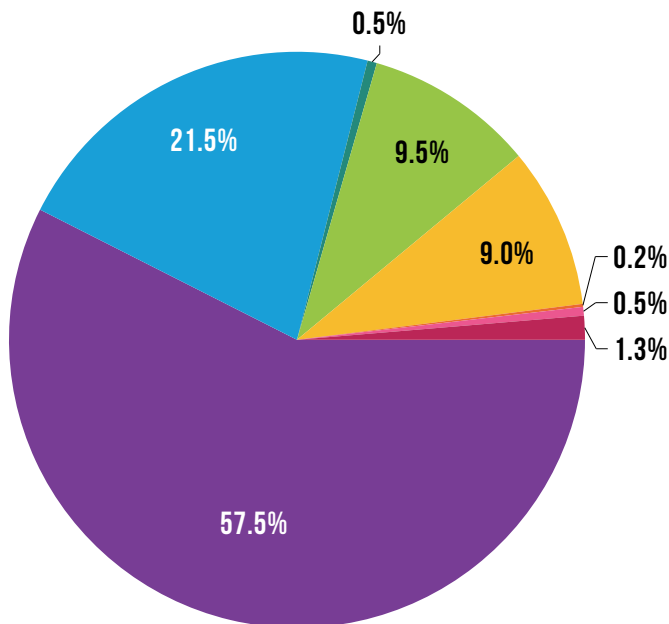
FATAL CRASHES

The highest percentage of all crashes (66.8%), fatal crashes (72.8%), injury crashes (70.1%), and property damage only crashes (66.1%) occur on dry roads.

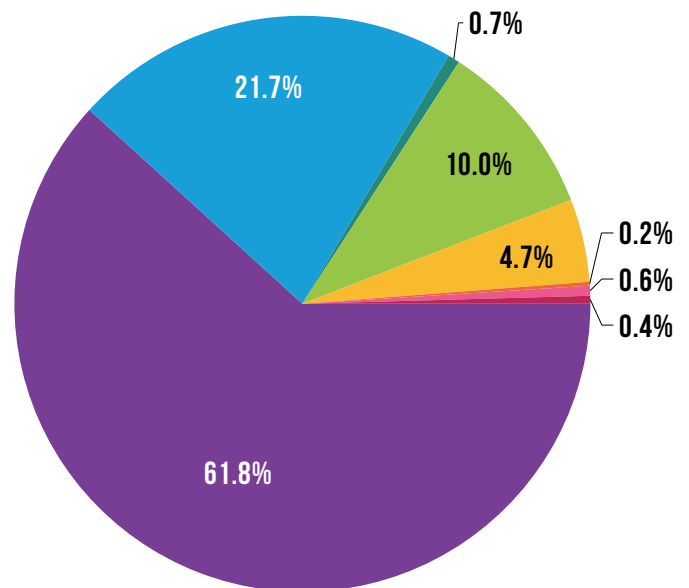
WEATHER CONDITION

WEATHER CONDITION	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
Clear	180,644	57.5	557	61.8	3,035	9,841	19,641	147,570
Cloudy	67,540	21.5	196	21.7	919	3,261	7,699	55,465
Fog	1,624	0.5	6	0.7	25	69	119	1,405
Rain	29,895	9.5	90	10.0	388	1,514	3,779	24,124
Snow	25,135	8.0	40	4.4	237	747	2,258	21,853
Severe Crosswinds	518	0.2	2	0.2	4	22	47	443
Sleet/Hail	1,539	0.5	5	0.6	23	89	181	1,241
Blowing Snow	3,240	1.0	2	0.2	36	107	291	2,804
Blowing Sand, Soil, Dirt	8	0.0	0	0.0	0	0	0	8
Smoke	35	0.0	0	0.0	1	0	2	32
Other/Unknown	4,198	1.3	4	0.4	20	64	120	3,990
TOTAL	314,376	100.0	902	100.0	4,688	15,714	34,137	258,935

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



ALL CRASHES

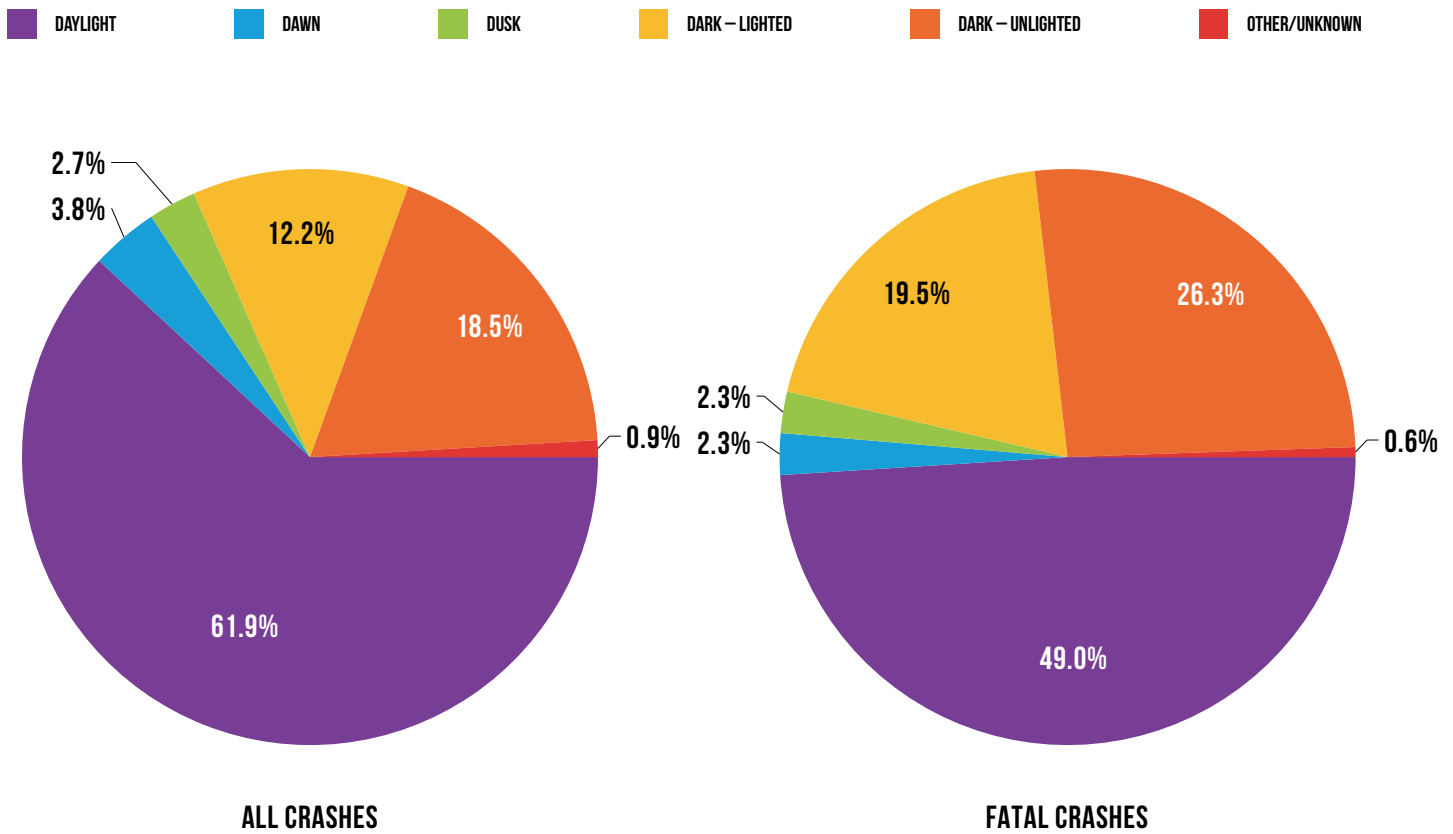


FATAL CRASHES

The highest percentage of all crashes (57.5%), fatal crashes (61.8%), injury crashes (59.6%), and property damage only crashes (57.0%) occur during clear weather conditions.

LIGHT CONDITION

LIGHT CONDITION	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
Daylight	194,699	61.9	442	49.0	2,870	10,453	23,885	157,049
Dawn	11,901	3.8	21	2.3	105	372	824	10,579
Dusk	8,403	2.7	21	2.3	111	403	749	7,119
Dark – Lighted	38,205	12.2	176	19.5	763	2,369	5,091	29,806
Dark – Unlighted	58,213	18.5	237	26.3	833	2,082	3,511	51,550
Other/Unknown	2,955	0.9	5	0.6	6	35	77	2,832
TOTAL	314,376	100.0	902	100.0	4,688	15,714	34,137	258,935

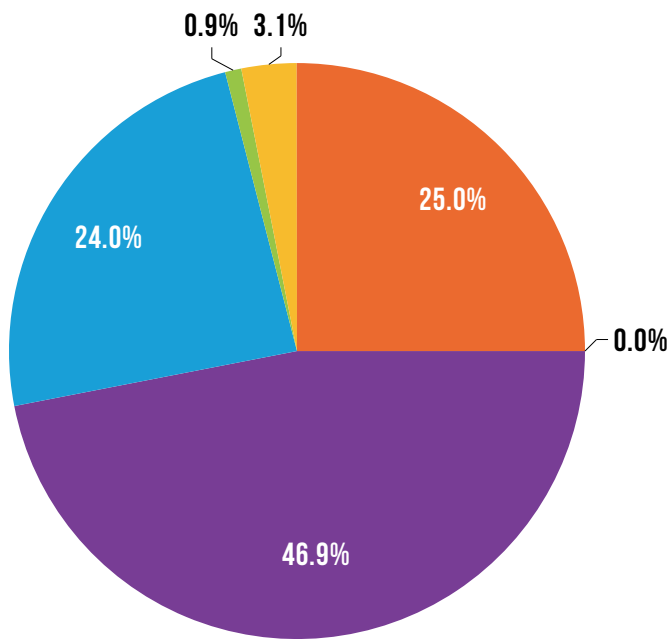


The highest percentage of all crashes (61.9%) , fatal crashes (49.0%), injury crashes (68.2%), and property damage only crashes (60.7%) occur during daylight hours.

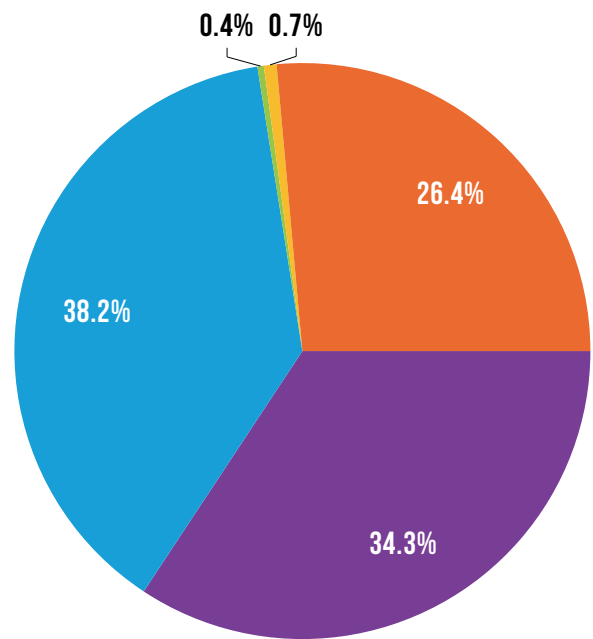
INTERSECTION CRASHES BY TRAFFIC CONTROL TYPE

TRAFFIC CONTROL TYPE	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
Signal	45,621	46.9	96	34.3	672	2,885	7,461	34,507
Stop Sign	23,368	24.0	107	38.2	543	1,674	3,622	17,422
Stop with Flashing Beacon	887	0.9	1	0.4	38	100	156	592
Yield Sign	3,000	3.1	2	0.7	36	131	360	2,471
None	24,310	25.0	74	26.4	443	1,431	3,043	19,319
Unknown	2	0.0	0	0.0	0	0	0	2
TOTAL	97,188	100.0	280	100.0	1,732	6,221	14,642	74,313

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



ALL CRASHES



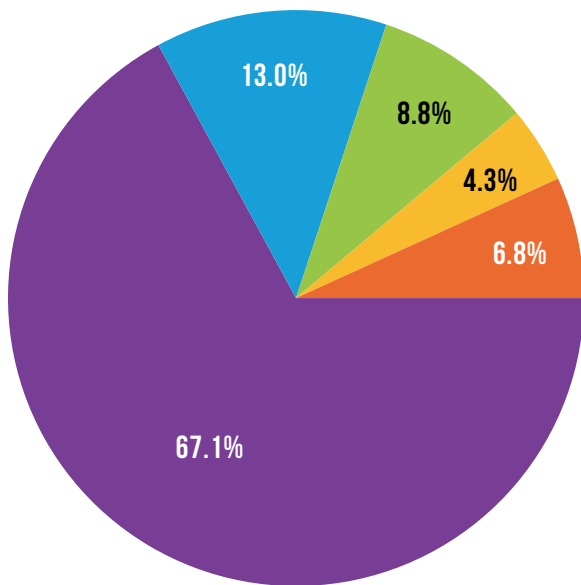
FATAL CRASHES

Compared to other intersection crashes, intersections with signals have the highest percentage of all crashes (46.9%), injury crashes (48.8%), and property damage only crashes (46.4%). Intersections with stop signs have the highest percentage of fatal crashes (38.2%).

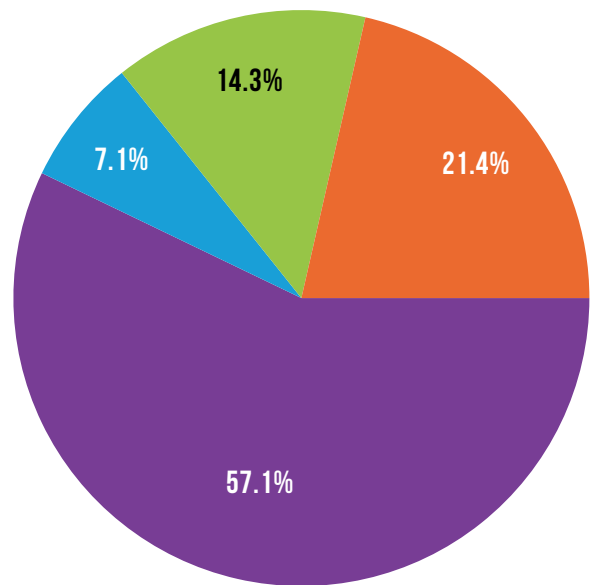
CONSTRUCTION ZONE CRASHES

CONSTRUCTION ZONE TYPE	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
CONSTRUCTION/MAINTENANCE	<i>Indicates roadway construction, maintenance, or repair. The building, maintenance, or repair of the road itself and roadway-related features (e.g., overhead signs, signals).</i>							
Lane Closure	3,754	67.1	8	57.1	44	189	477	3,036
Lane Shift/Crossover	728	13.0	1	7.1	9	35	77	606
Work on Shoulder/Median	494	8.8	2	14.3	11	27	58	396
Intermittent/Moving Work	240	4.3	0	0.0	3	14	27	196
Other	381	6.8	3	21.4	7	18	48	305
Unknown	0	0.0	0	0.0	0	0	0	0
TOTAL	5,597	100.0	14	100.0	74	283	687	4,539

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



ALL CRASHES



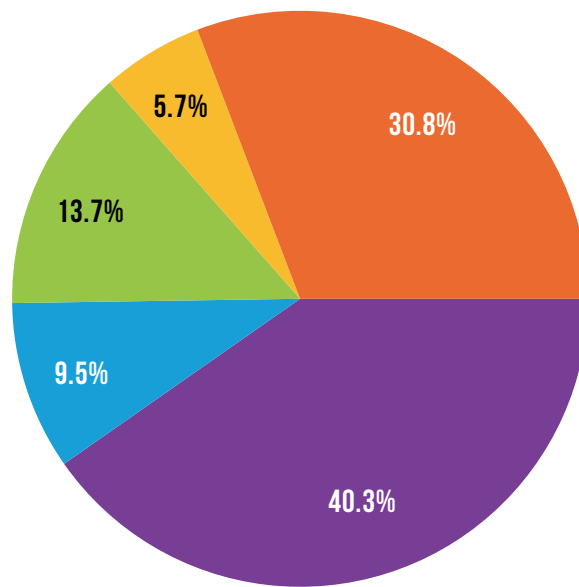
FATAL CRASHES

The highest percentage of all crashes (67.1%), injury crashes (68.0%), and property damage only crashes (66.9%) occur in closed lanes in construction/maintenance zones.

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	<i>Indicates work on facilities other than the roadway such as telephone, electrical, cable television, water, or sewer.</i>							
Lane Closure	85	40.3	2	100.0	0	4	14	65
Lane Shift/Crossover	20	9.5	0	0.0	0	1	3	16
Work on Shoulder/Median	29	13.7	0	0.0	1	3	2	23
Intermittent/Moving Work	12	5.7	0	0.0	0	0	1	11
Other	65	30.8	0	0.0	1	0	9	55
Unknown	0	0.0	0	0.0	0	0	0	0
TOTAL	211	100.0	2	100.0	2	8	29	170

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



ALL CRASHES

The highest percentage of all crashes (40.3%), injury crashes (46.2%), and property damage crashes (38.2%) in utility construction zones occurred when the work zone activity was a lane closure.