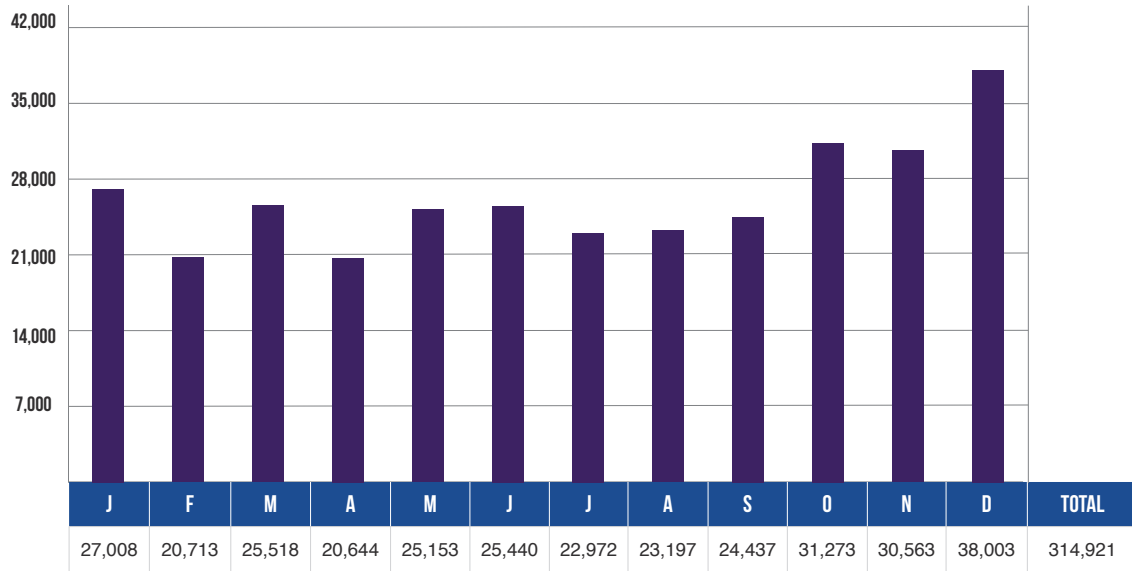
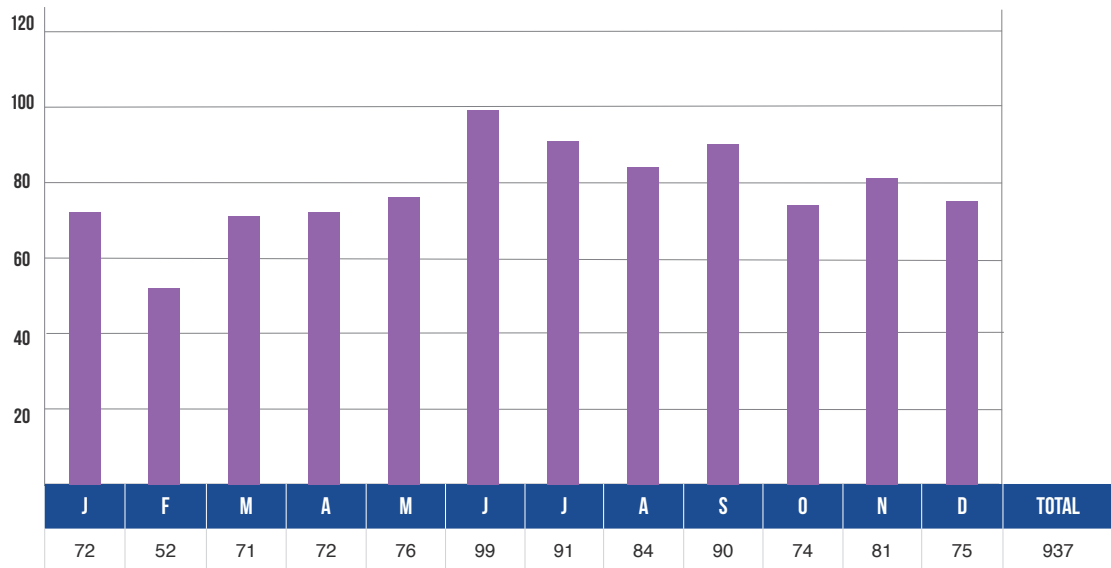


ALL CRASHES INJURY SEVERITY BY MONTH

TOTAL CRASHES

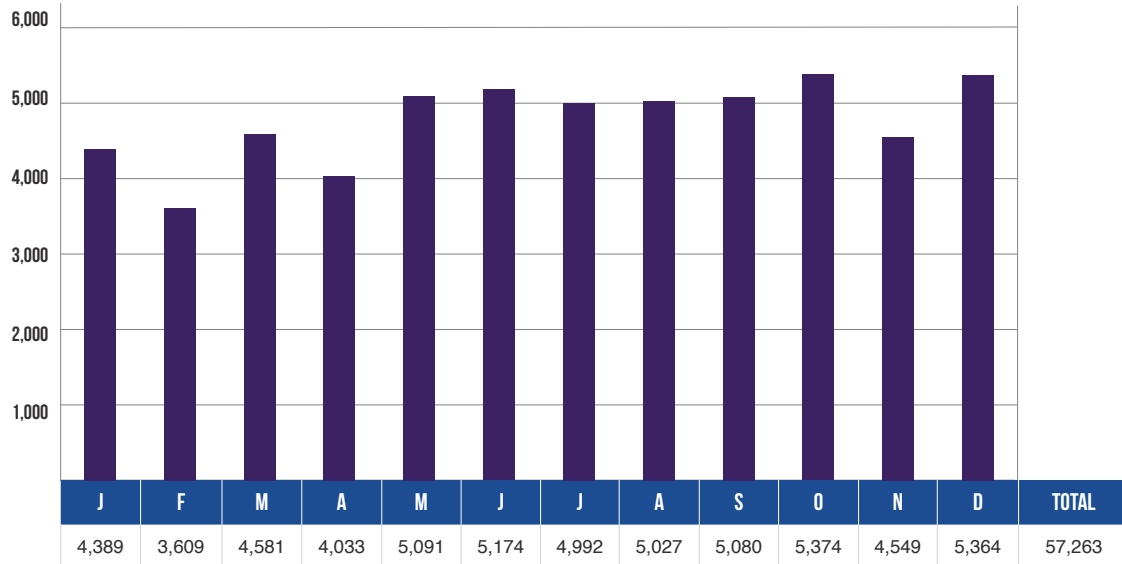


FATAL CRASHES

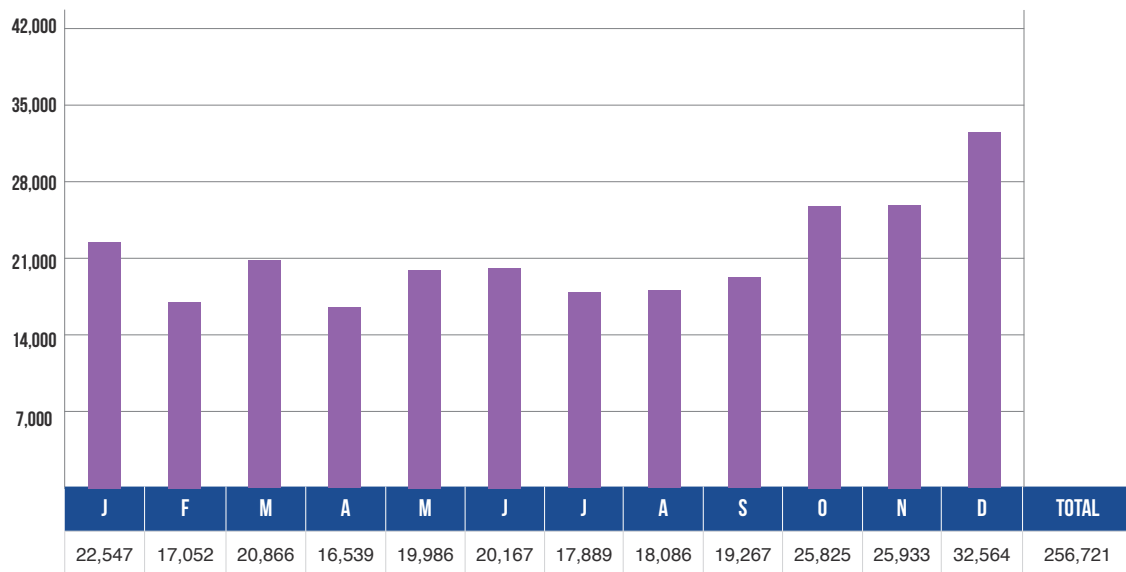


ALL CRASHES INJURY SEVERITY BY MONTH (CONTINUED)

INJURY CRASHES

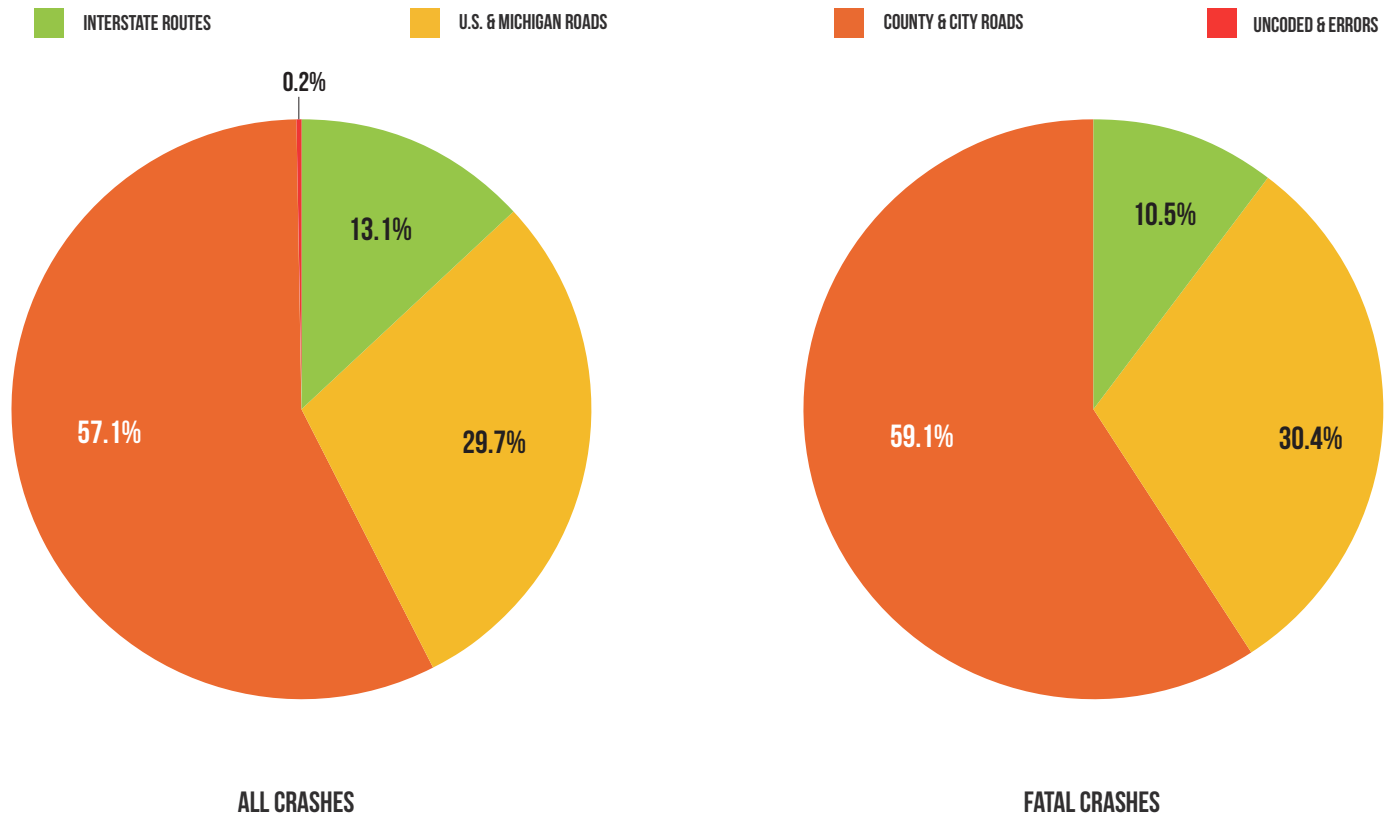


PROPERTY DAMAGE ONLY CRASHES



HIGHWAY CLASS

HIGHWAY CLASS	ALL CRASHES	FATAL CRASHES	INJURY CRASHES	PROPERTY DAMAGE ONLY
Interstate Routes	41,179	98	7,644	33,437
U.S. & Michigan Roads	93,563	285	16,934	76,344
County & City Roads	179,667	554	32,593	146,520
Uncoded & Errors	512	0	92	420



The highest percentage of all crashes (58.3%), fatal crashes (57.8%), injury crashes (57.4%), and property damage only crashes (58.5%) 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	106,901	33.9	449	47.9	2,133	5,739	7,401	91,179
Head On	3,414	1.1	100	10.7	298	494	648	1,874
Head On - Left Turn	7,601	2.4	33	3.5	253	1,038	1,765	4,512
Angle	45,633	14.5	171	18.2	1,028	3,654	7,987	32,793
Rear End	82,035	26.0	78	8.3	586	3,085	12,671	65,615
Rear End - Left Turn	3,152	1.0	7	0.7	52	209	552	2,332
Rear End - Right Turn	2,520	0.8	0	0.0	12	70	263	2,175
Sideswipe - Same Direction	36,119	11.5	22	2.3	164	704	2,136	33,093
Sideswipe - Opposite Direction	5,493	1.7	8	0.9	77	216	478	4,714
Backing	5,703	1.8	0	0.0	3	31	80	5,589
Other/Unknown	16,350	5.2	69	7.4	429	1,116	1,891	12,845
TOTAL	314,921	100.0	937	100.0	5,035	16,356	35,872	256,721

RELATIONSHIP TO ROADWAY

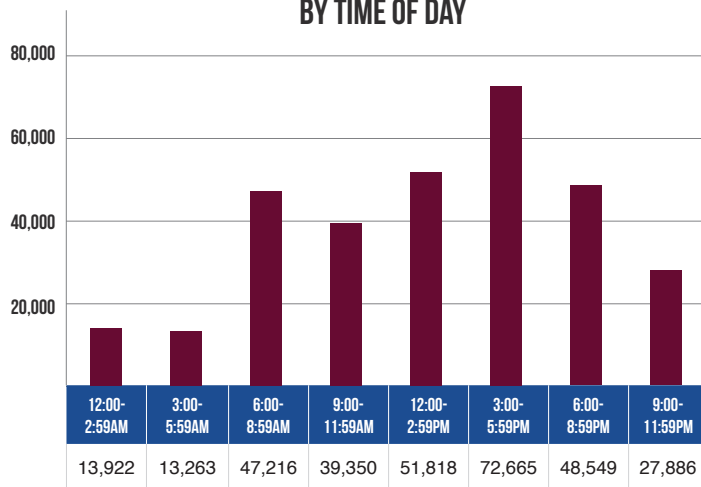
LOCATION OF FIRST IMPACT	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
On Road	274,001	87.0	694	74.1	3,877	13,098	31,446	224,886
Median	3,006	1.0	12	1.3	58	188	334	2,414
Shoulder	11,102	3.5	55	5.9	288	794	1,240	8,725
Outside of Shoulder/Curb	21,108	6.7	159	17.0	701	2,011	2,470	15,767
Gore	792	0.3	9	1.0	25	77	112	569
On-Street Parking	3,269	1.0	2	0.2	16	38	80	3,133
Off the Roadway	74	0.0	0	0.0	9	11	6	48
On the Sidewalk	423	0.1	2	0.2	28	77	85	231
In the Bicycle Lane	57	0.0	0	0.0	2	11	6	38
Other/Unknown	1,089	0.3	4	0.4	31	51	93	910
TOTAL	314,921	100.0	937	100.0	5,035	16,356	35,872	256,721

Only 6.7 percent of crashes occur outside the shoulder of the road, but these crashes account for 17.0 percent of the fatal crashes.

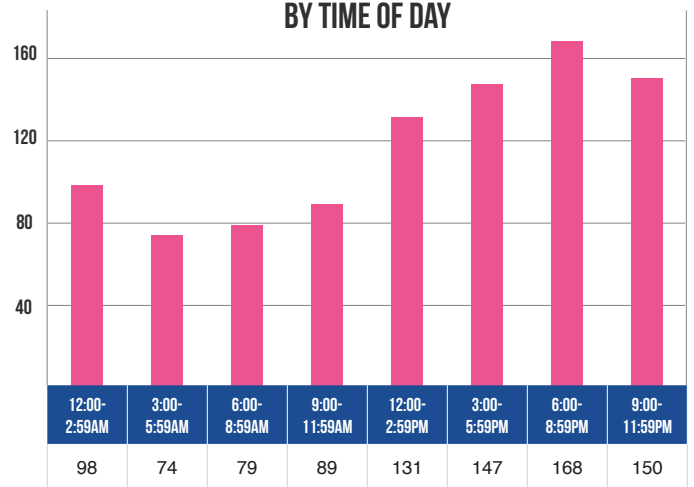
TIME AND SEVERITY

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	13,922	4.4	98	10.5	404	983	1,445	10,992
3:00 AM - 5:59 AM	13,263	4.2	74	7.9	264	602	1,023	11,300
6:00 AM - 8:59 AM	47,216	15.0	79	8.4	489	1,882	4,591	40,175
9:00 AM - 11:59 AM	39,350	12.5	89	9.5	563	2,032	4,689	31,977
12:00 PM - 2:59 PM	51,818	16.5	131	14.0	830	2,996	6,927	40,934
3:00 PM - 5:59 PM	72,665	23.1	147	15.7	1,109	3,822	9,576	58,011
6:00 PM - 8:59 PM	48,549	15.4	168	17.9	809	2,488	4,975	40,109
9:00 PM - 11:59 PM	27,886	8.9	150	16.0	565	1,547	2,635	22,989
Unknown	252	0.1	1	0.1	2	4	11	234
TOTAL	314,921	100.0	937	100.0	5,035	16,356	35,872	256,721

**ALL CRASHES
BY TIME OF DAY**



**FATAL CRASHES
BY TIME OF DAY**

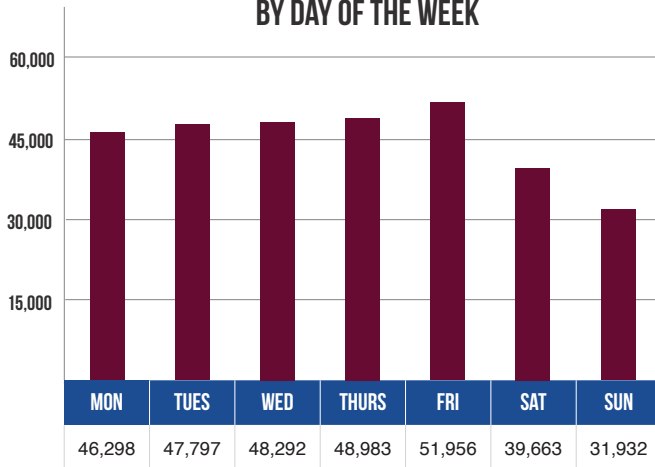


Crash frequencies peak in the late afternoon, then drop off steadily until 6:00 AM (the morning rush hour). Fatal crash frequencies rise with the frequency of other crashes, but continue at a high rate well into the early morning hours. In 2017, the highest percentage of fatal crashes occurs during the 3:00 PM to 5:59 PM time period (17.4%).

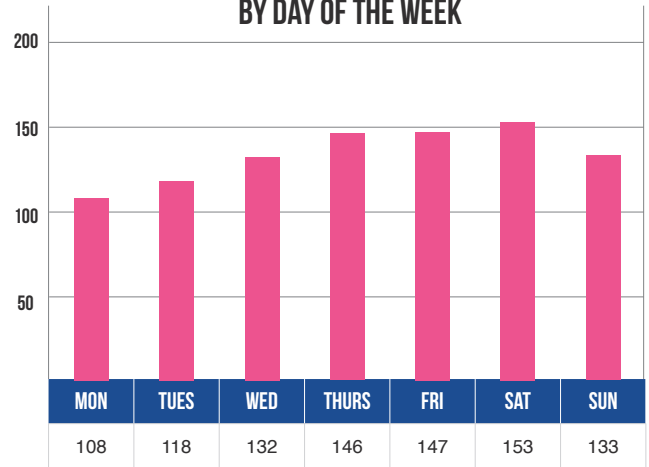
DAY OF WEEK

DAY OF WEEK	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
Monday	46,298	14.7	108	11.5	638	2,298	5,410	37,844
Tuesday	47,797	15.2	118	12.6	654	2,337	5,537	39,151
Wednesday	48,292	15.3	132	14.1	675	2,324	5,463	39,698
Thursday	48,983	15.6	146	15.6	680	2,416	5,691	40,050
Friday	51,956	16.5	147	15.7	789	2,648	5,942	42,430
Saturday	39,663	12.6	153	16.3	851	2,334	4,308	32,017
Sunday	31,932	10.1	133	14.2	748	1,999	3,521	25,531
TOTAL	314,921	100.0	937	100.0	5,035	16,356	35,872	256,721

**ALL CRASHES
BY DAY OF THE WEEK**



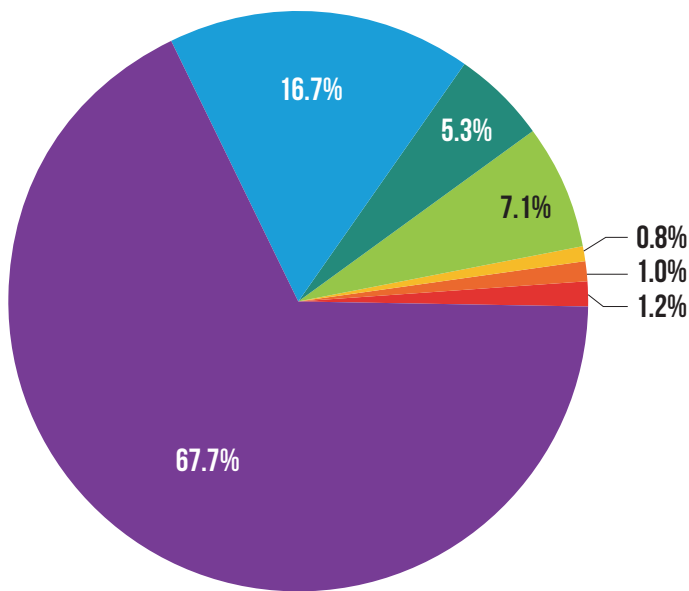
**FATAL CRASHES
BY DAY OF THE WEEK**



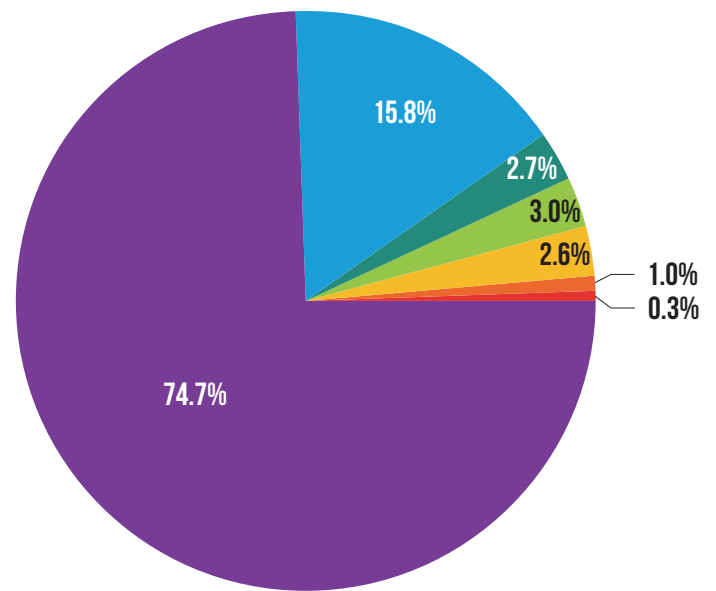
Crash frequencies are higher Monday through Friday than on the weekend. Friday (147) and Saturday (153) have the highest number of fatal crashes.

ROAD CONDITION

ROAD SURFACE CONDITION	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
Dry	213,324	67.7	700	74.7	3,695	11,911	25,053	171,965
Wet	52,698	16.7	148	15.8	705	2,506	6,538	42,801
Ice	16,571	5.3	25	2.7	192	696	1,702	13,956
Snow	22,444	7.1	28	3.0	218	726	1,826	19,646
Mud, Dirt, Gravel	2,535	0.8	24	2.6	134	284	255	1,838
Slush	3,209	1.0	9	1.0	50	138	331	2,681
Debris	117	0.0	0	0.0	2	8	9	98
Water (Standing/Flowing)	217	0.1	0	0.0	7	15	28	167
Sand	52	0.0	0	0.0	9	8	3	32
Oily	42	0.0	0	0.0	4	4	5	29
Other/Unknown	3,712	1.2	3	0.3	19	60	122	3,508
TOTAL	314,921	100.0	937	100.0	5,035	16,356	35,872	256,721



ALL CRASHES



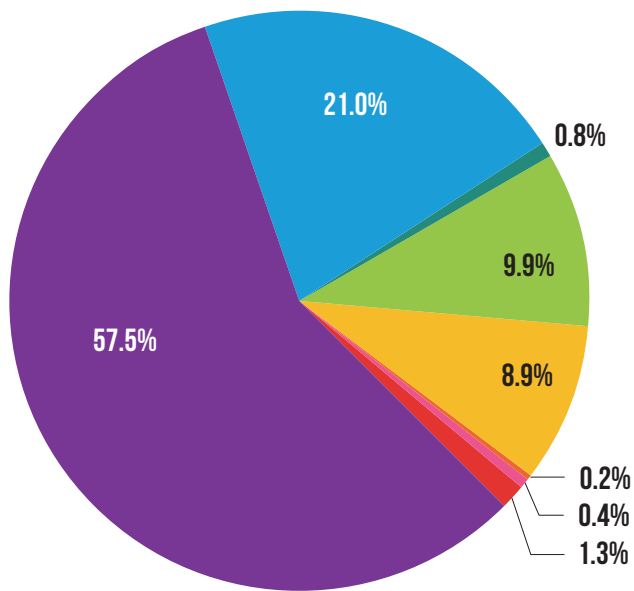
FATAL CRASHES

The highest percentage of all crashes (67.7%), fatal crashes (74.7%), injury crashes (71.0%), and property damage only crashes (66.9%) occur on dry roads.

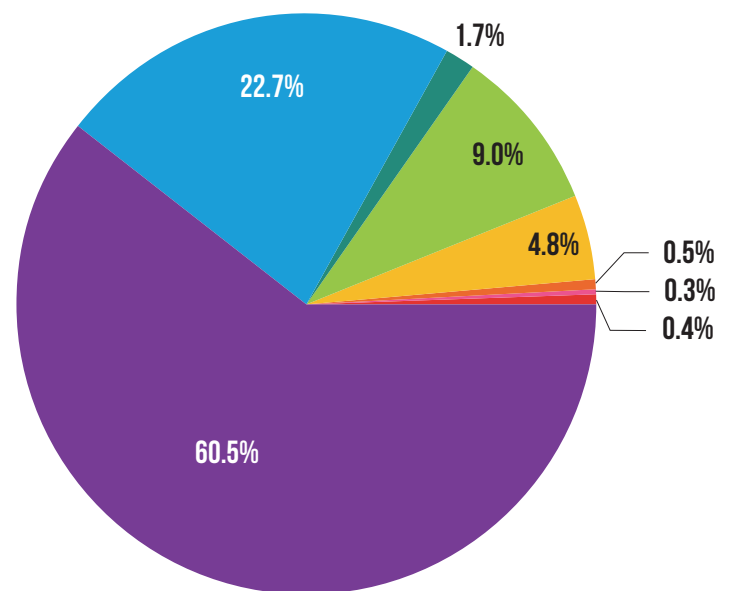
WEATHER CONDITION

WEATHER CONDITION	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
Clear	181,126	57.5	567	60.5	3,257	10,349	20,856	146,097
Cloudy	66,045	21.0	213	22.7	939	3,194	7,872	53,827
Fog	2,540	0.8	16	1.7	61	124	240	2,099
Rain	31,194	9.9	84	9.0	419	1,532	4,036	25,123
Snow	25,654	8.1	39	4.2	269	902	2,340	22,104
Severe Wind	684	0.2	5	0.5	9	24	56	590
Sleet/Hail	1,124	0.4	3	0.3	15	53	133	920
Blowing Snow	2,521	0.8	6	0.6	40	113	220	2,142
Blowing Sand	41	0.0	0	0.0	1	1	4	35
Smoke	34	0.0	0	0.0	1	1	1	31
Other/Unknown	3,958	1.3	4	0.4	24	63	114	3,753
TOTAL	314,921	100.0	937	100.0	5,035	16,356	35,872	256,721

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



ALL CRASHES



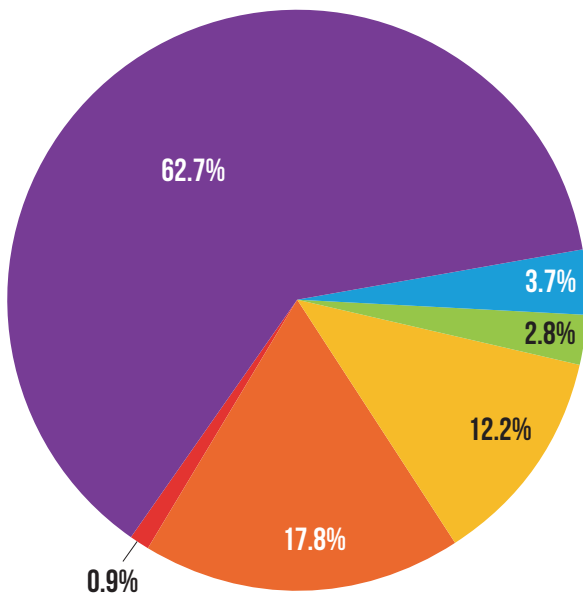
FATAL CRASHES

The highest percentage of all crashes (57.5%), fatal crashes (60.5%), injury crashes (60.2%), and property damage only crashes (56.9%) occur during clear weather conditions.

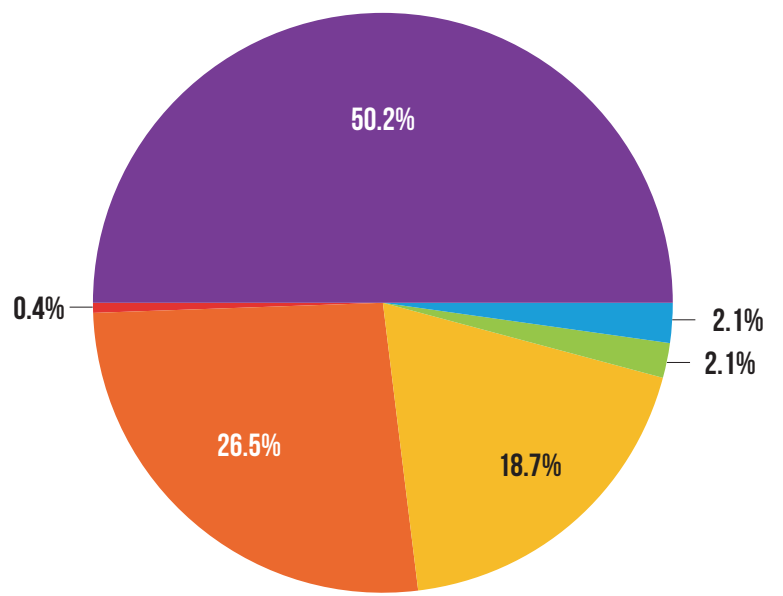
LIGHT CONDITION

LIGHT CONDITION	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
Daylight	197,388	62.7	470	50.2	3,131	10,985	25,486	157,316
Dawn	11,732	3.7	20	2.1	104	389	870	10,349
Dusk	8,750	2.8	20	2.1	132	402	840	7,356
Dark – Lighted	38,340	12.2	175	18.7	770	2,303	5,122	29,970
Dark – Unlighted	55,966	17.8	248	26.5	888	2,246	3,482	49,102
Other/Unknown	2,745	0.9	4	0.4	10	31	72	2,628
TOTAL	314,921	100.0	937	100.0	5,035	16,356	35,872	256,721

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



ALL CRASHES



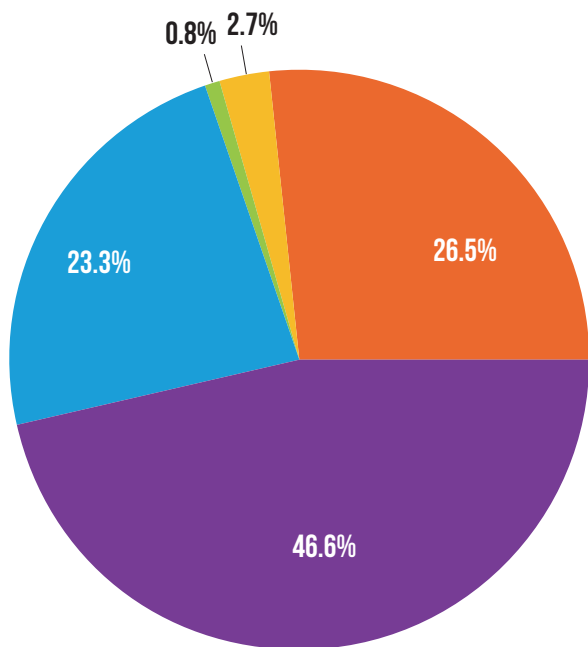
FATAL CRASHES

The highest percentage of all crashes (62.7%) , fatal crashes (50.2%), injury crashes (69.2%), and property damage only crashes (61.3%) occur during daylight hours.

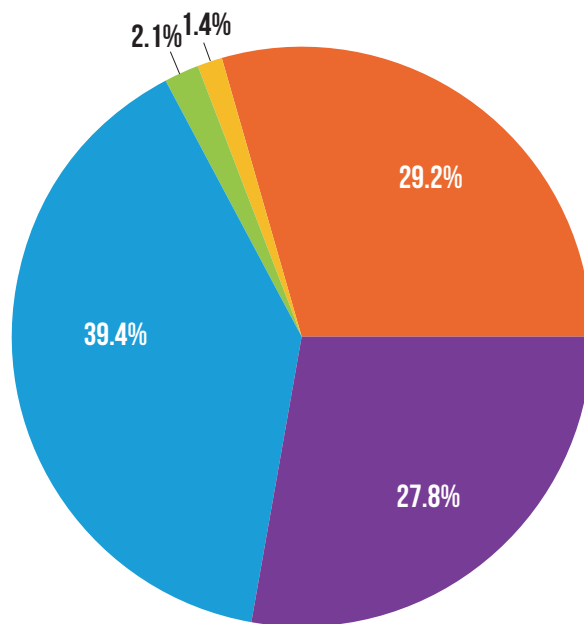
INTERSECTION CRASHES BY TRAFFIC CONTROL TYPE

TRAFFIC CONTROL TYPE	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
Signal	48,333	46.6	79	27.8	699	3,162	7,980	36,413
Stop Sign	24,181	23.3	112	39.4	609	1,814	3,820	17,826
Stop with Flashing Beacon	840	0.8	6	2.1	30	80	154	570
Yield Sign	2,842	2.7	4	1.4	40	123	363	2,312
None of These	27,490	26.5	83	29.2	544	1,675	3,663	21,525
Unknown	18	0.0	0	0.0	1	1	5	11
TOTAL	103,704	100.0	284	100.0	1,923	6,855	15,985	78,657

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



ALL CRASHES



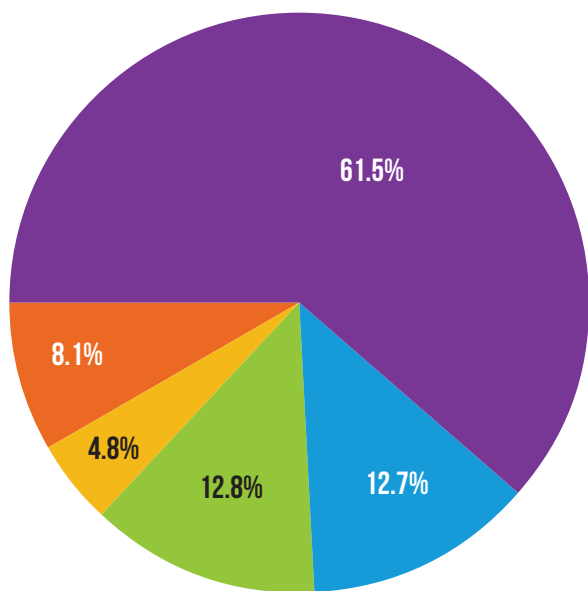
FATAL CRASHES

Compared to other intersection crashes, intersections with signals have the highest percentage of all crashes (46.6%), injury crashes (47.8%), and property damage only crashes (46.7%). Intersections with stop signs have the highest percentage of fatal crashes (46.3%).

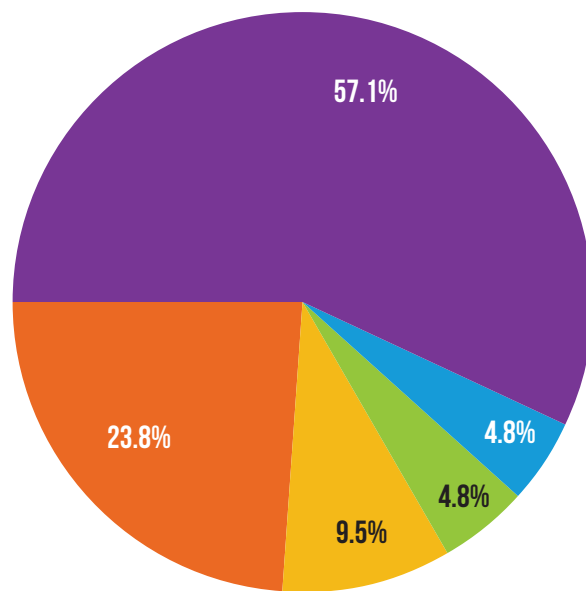
CONSTRUCTION ZONE CRASHES

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	2,502	61.5	12	57.1	39	91	353	2,007
Lane Shift/Crossover	515	12.7	1	4.8	6	21	52	435
Work on Shoulder/Median	522	12.8	1	4.8	6	28	54	433
Intermittent/Moving Work	194	4.8	2	9.5	1	12	22	157
Other	330	8.1	5	23.8	6	14	45	260
Unknown	2	0.0	0	0.0	0	0	1	1
TOTAL	4,065	100.0	21	100.0	58	166	527	3,293

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



ALL CRASHES



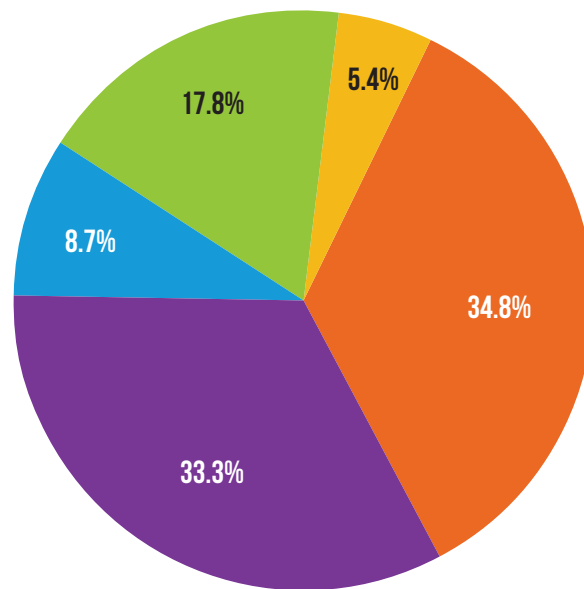
FATAL CRASHES

The highest percentage of all crashes (61.5%), injury crashes (64.3%), and property damage only crashes (60.9%) 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	92	33.3	1	50.0	0	6	12	73
Lane Shift/Crossover	24	8.7	0	0.0	0	2	2	20
Work on Shoulder/Median	49	17.8	0	0.0	1	5	6	37
Intermittent/Moving Work	15	5.4	0	0.0	0	2	0	13
Other	96	34.8	1	50.0	2	6	13	74
Unknown	0	0.0	0	0.0	0	0	0	0
TOTAL	276	100.0	2	100.0	3	21	33	217

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



ALL CRASHES

The highest percentage of all crashes (34.8%) and property damage crashes (34.1%) in utility construction zones occurred in other situations. The highest percentage of property damage only crashes (50.0%) occurred in closed lanes and other situations.