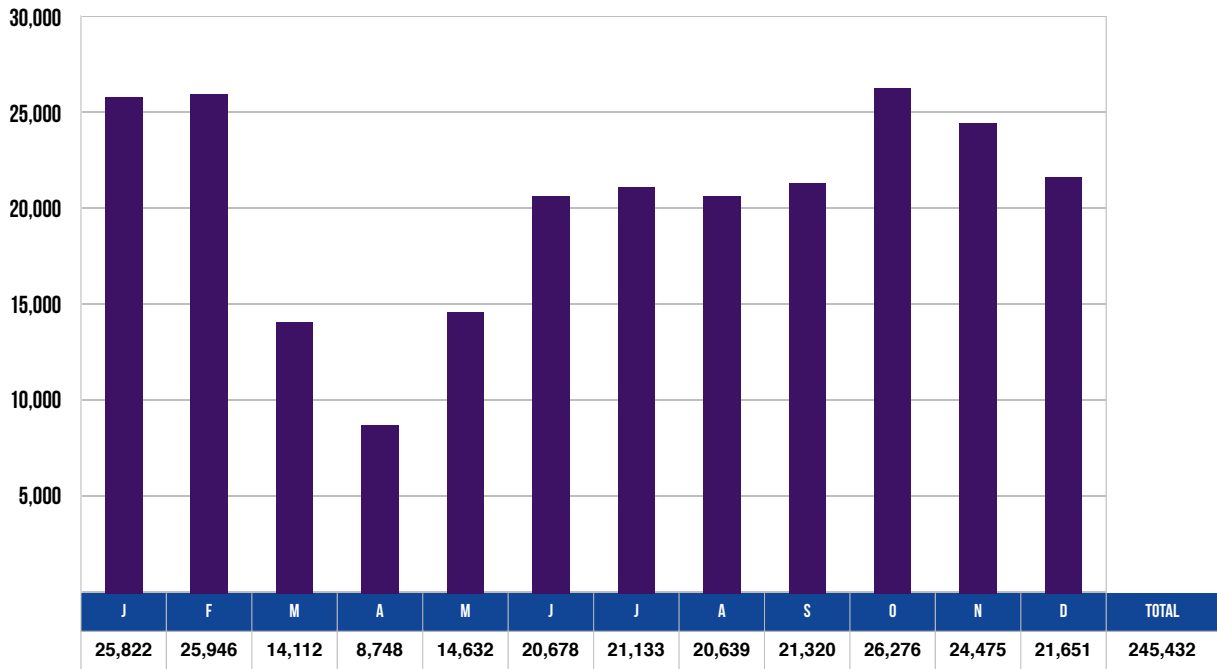
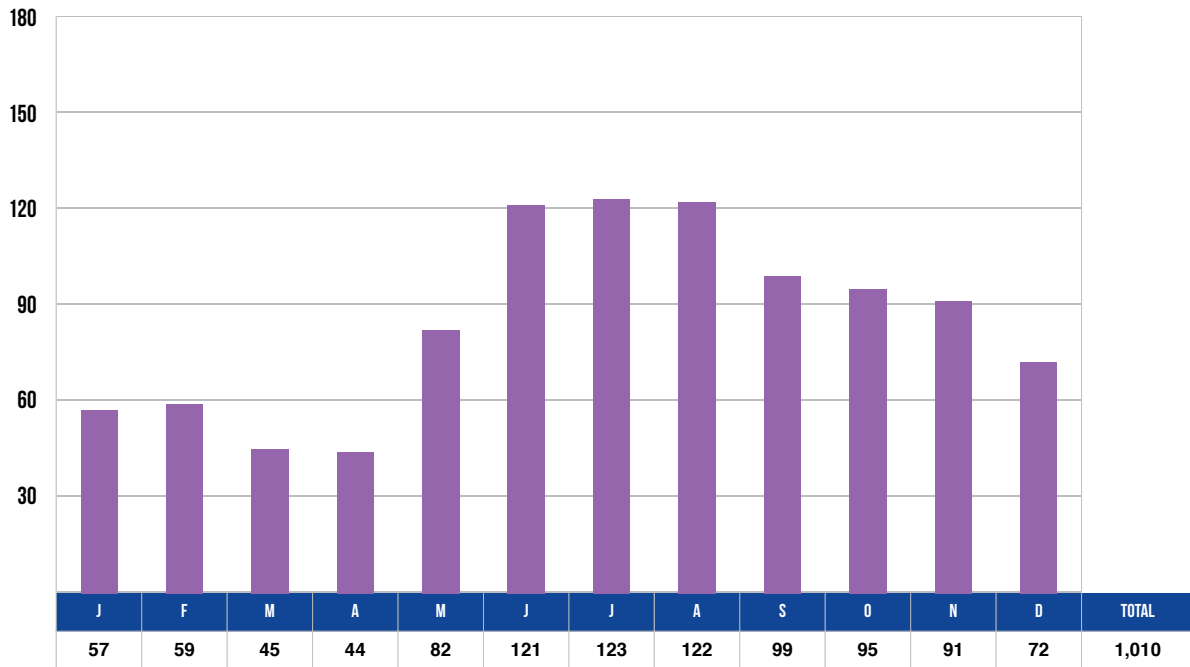


ALL CRASHES INJURY SEVERITY BY MONTH

TOTAL CRASHES

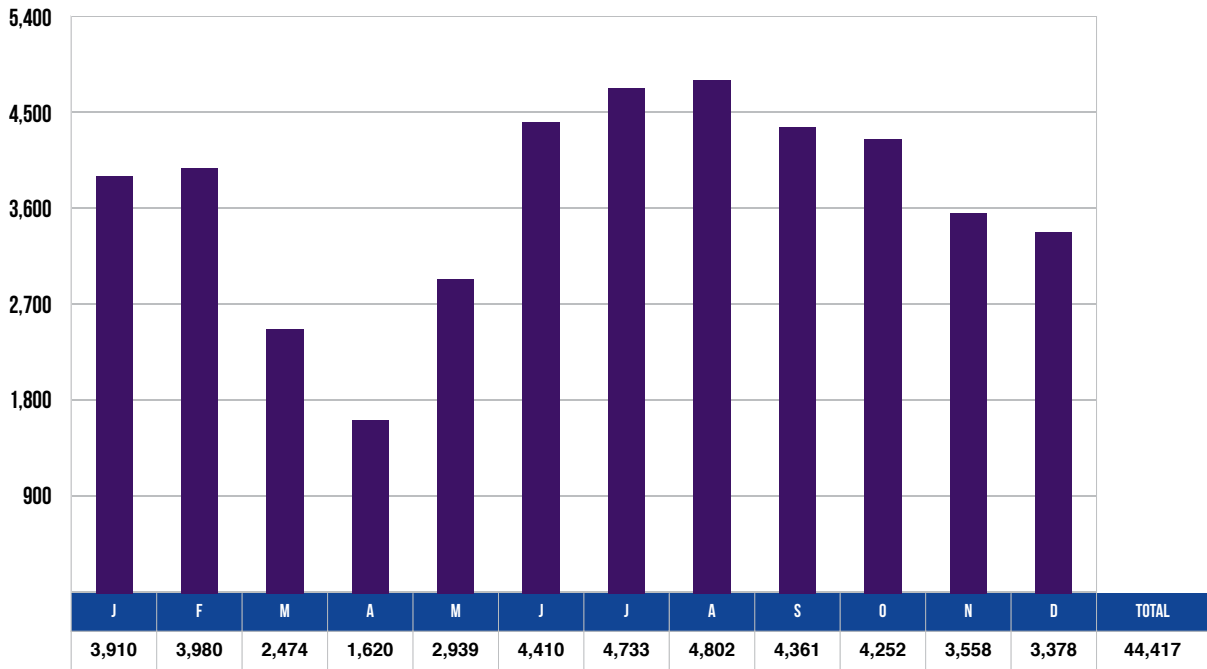


FATAL CRASHES

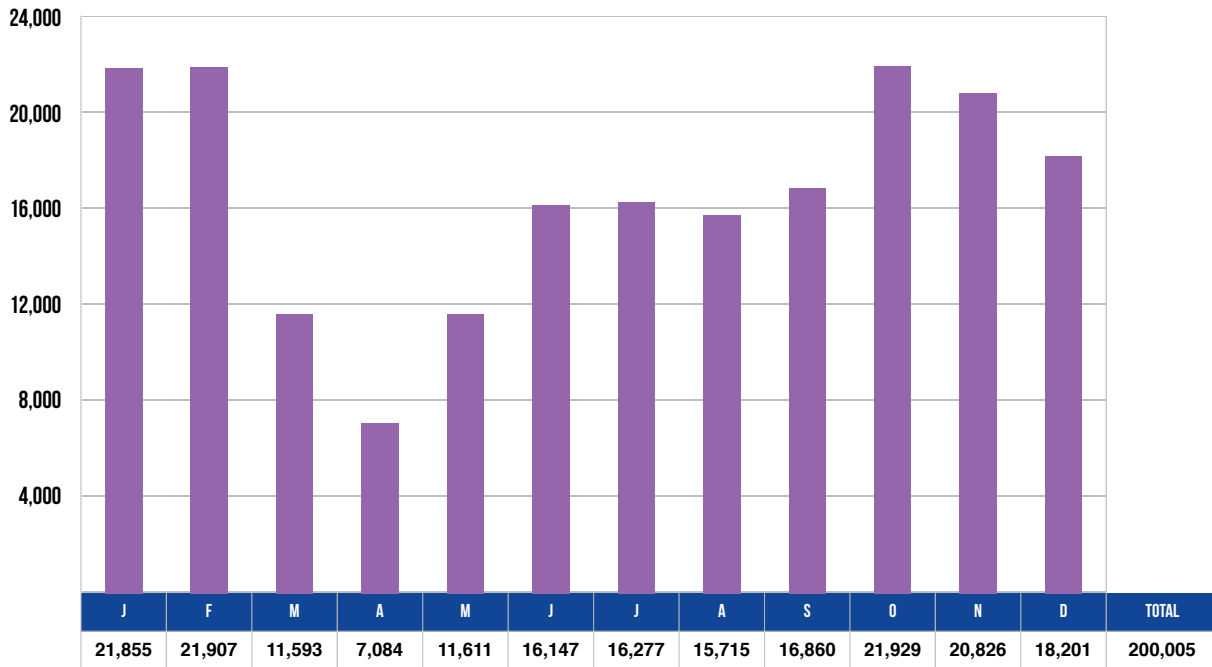


ALL CRASHES INJURY SEVERITY BY MONTH (CONTINUED)

INJURY CRASHES

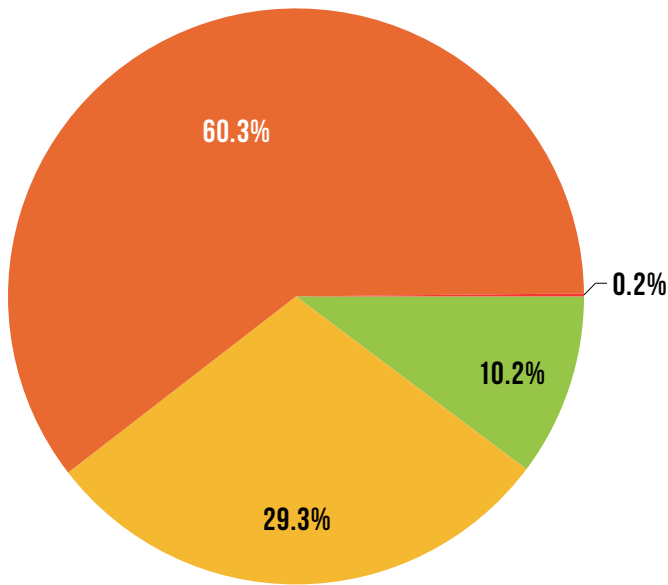


PROPERTY DAMAGE ONLY CRASHES

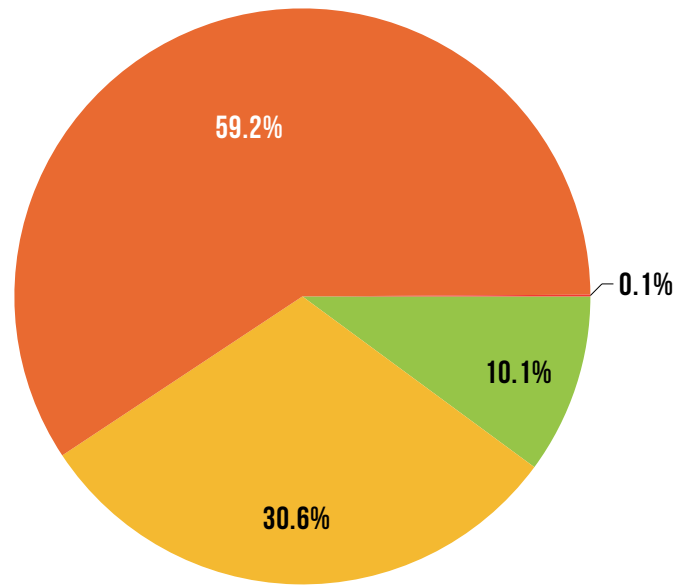


HIGHWAY CLASS

HIGHWAY CLASS	ALL CRASHES	FATAL CRASHES	INJURY CRASHES	PROPERTY DAMAGE ONLY
Interstate Routes	25,143	102	4,748	20,293
U.S. & Michigan Roads	71,860	309	13,023	58,528
County & City Roads	148,022	598	26,581	120,843
Uncoded & Errors	407	1	65	341



ALL CRASHES



FATAL CRASHES

The highest percentage of all crashes (60.3%), fatal crashes (59.2%), injury crashes (59.8%), and property damage only crashes (60.4%) 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	96,821	39.4	515	51.0	1,950	4,834	6,236	83,286
Head On	3,109	1.3	105	10.4	260	459	582	1,703
Head On – Left Turn	5,566	2.3	43	4.3	243	776	1,269	3,235
Angle	36,778	15.0	190	18.8	961	3,442	6,876	25,309
Rear End	50,776	20.7	74	7.3	475	2,324	7,388	40,515
Rear End – Left Turn	1,906	0.8	3	0.3	27	124	300	1,452
Rear End – Right Turn	1,492	0.6	1	0.1	4	41	171	1,275
Sideswipe – Same Direction	27,586	11.2	21	2.1	159	661	1,688	25,057
Sideswipe – Opposite Directions	4,542	1.9	16	1.6	54	237	400	3,835
Backing	5,857	2.4	0	0.0	9	24	109	5,715
Other	8,708	3.5	38	3.8	311	793	1,071	6,495
Unknown	2,291	0.9	4	0.4	31	47	81	2,128
Uncoded & Errors	0	0.0	0	0.0	0	0	0	0
TOTAL	245,432	100.0	1,010	100.0	4,484	13,762	26,171	200,005

RELATIONSHIP TO ROADWAY

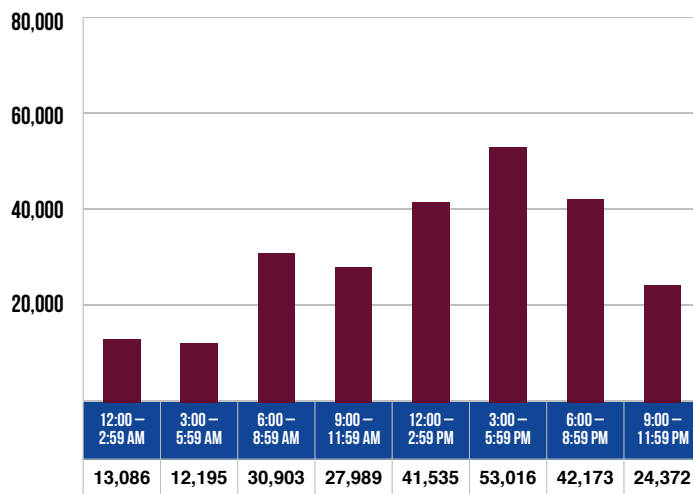
LOCATION OF FIRST IMPACT	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
On Road	216,530	88.2	760	75.2	3,600	11,383	23,046	177,741
Median	1,778	0.7	15	1.5	46	123	217	1,377
Shoulder	7,563	3.1	53	5.2	214	623	816	5,857
Outside of Shoulder/Curb	14,714	6.0	171	16.9	572	1,439	1,817	10,715
Gore	438	0.2	5	0.5	7	49	54	323
On-Street Parking	3,319	1.4	1	0.1	9	61	87	3,161
Off the Roadway	0	0.0	0	0.0	0	0	0	0
On the Sidewalk	318	0.1	4	0.4	14	40	54	206
In the Bicycle Lane	37	0.0	1	0.1	3	8	13	12
Other/Unknown	735	0.3	0	0.0	19	36	67	613
TOTAL	245,432	100.0	1,010	100.0	4,484	13,762	26,171	200,005

Only 6.0 percent of crashes occur outside the shoulder of the road, but these crashes account for 16.9 percent of the fatal crashes.

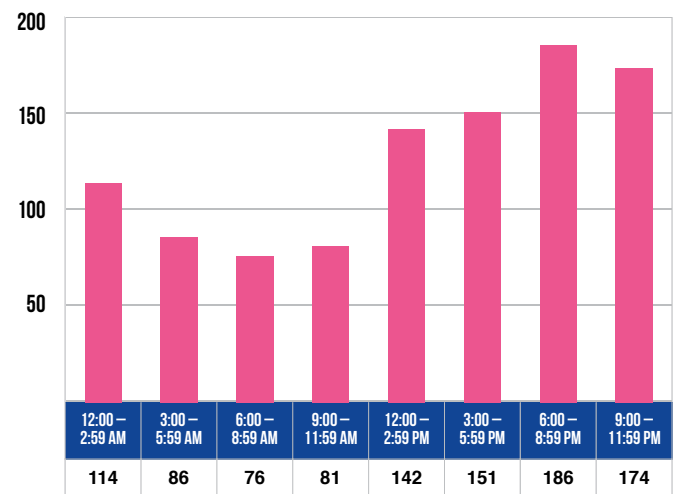
TIME AND SEVERITY

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	13,086	5.3	114	11.3	430	871	1,401	10,270
3:00 AM – 5:59 AM	12,195	5.0	86	8.5	205	580	936	10,388
6:00 AM – 8:59 AM	30,903	12.6	76	7.5	325	1,189	2,434	26,879
9:00 AM – 11:59 AM	27,989	11.4	81	8.0	411	1,600	3,160	22,737
12:00 PM – 2:59 PM	41,535	16.9	142	14.1	763	2,583	5,341	32,706
3:00 PM – 5:59 PM	53,016	21.6	151	15.0	935	3,219	6,440	42,271
6:00 PM – 8:59 PM	42,173	17.2	186	18.4	809	2,327	4,041	34,810
9:00 PM – 11:59 PM	24,372	9.9	174	17.2	602	1,388	2,411	19,797
Unknown	163	0.1	0	0.0	4	5	7	147
TOTAL	245,432	100.0	1,010	100.0	4,484	13,762	26,171	200,005

**ALL CRASHES
BY TIME OF DAY**



**FATAL CRASHES
BY TIME OF DAY**

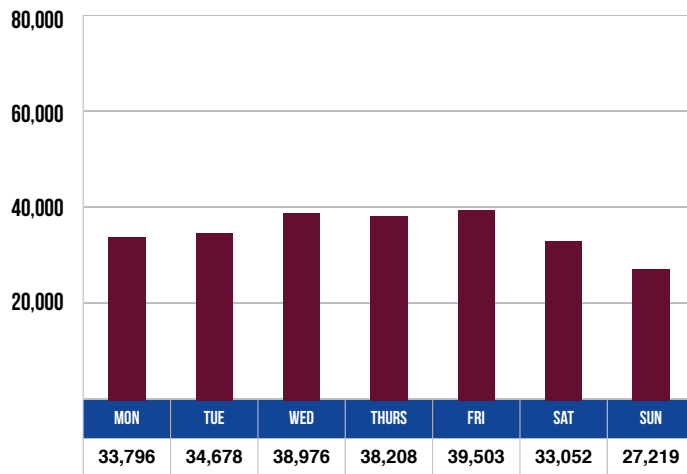


Crash frequencies peak in the late afternoon, then drop off steadily until 6:00 AM (the morning rush hour). Fatal crash frequencies rise with the frequency of other crashes, but continue at a high rate well into the early morning hours. In 2020, the highest percentage of fatal crashes occurred during the 6:00 PM to 8:59 PM time period (18.4%).

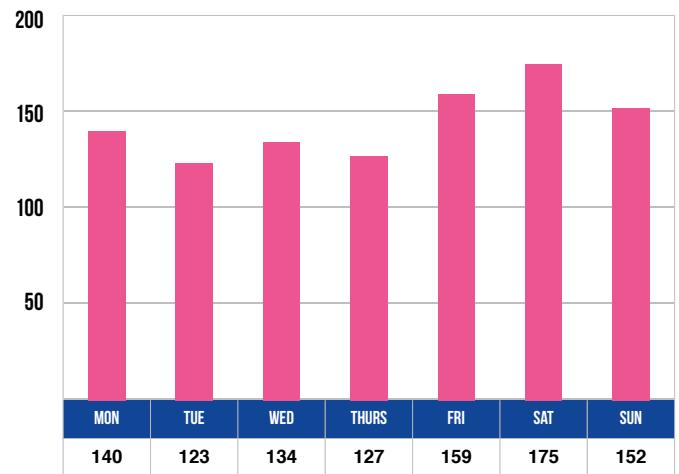
DAY OF WEEK

DAY OF WEEK	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
Monday	33,796	13.8	140	13.9	565	1,777	3,556	27,758
Tuesday	34,678	14.1	123	12.2	558	1,892	3,645	28,460
Wednesday	38,976	15.9	134	13.3	631	2,033	4,174	32,004
Thursday	38,208	15.6	127	12.6	601	2,040	4,099	31,341
Friday	39,503	16.1	159	15.7	706	2,161	4,254	32,223
Saturday	33,052	13.5	175	17.3	737	2,063	3,492	26,585
Sunday	27,219	11.1	152	15.0	686	1,796	2,951	21,634
TOTAL	245,432	100.0	1,010	100.0	4,484	13,762	26,171	200,005

ALL CRASHES BY DAY OF WEEK



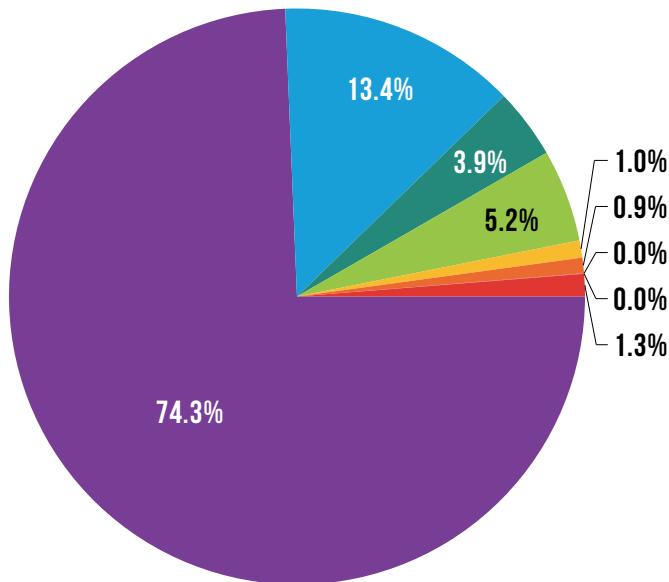
FATAL CRASHES BY DAY OF WEEK



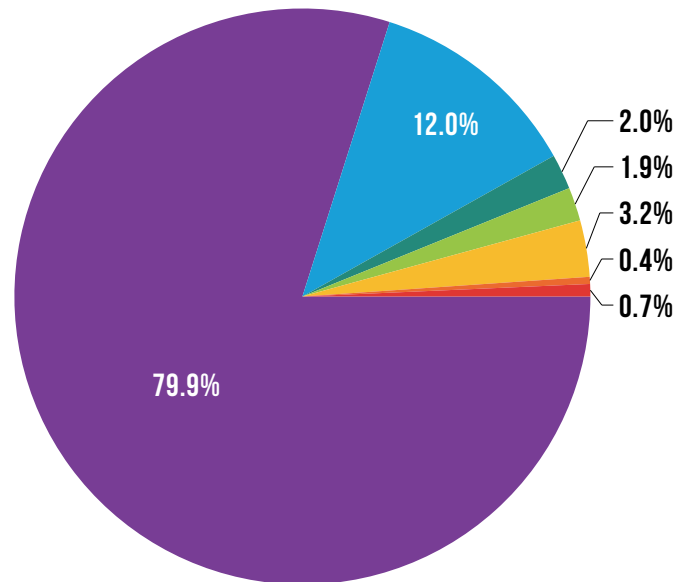
Crash frequencies are higher Monday through Friday than on the weekend. Saturday (175) has the highest number of fatal crashes.

ROAD CONDITION

ROAD SURFACE CONDITION	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
Dry	182,472	74.3	807	79.9	3,597	10,796	19,670	147,602
Wet	32,691	13.3	120	11.9	472	1,691	3,865	26,543
Ice	9,662	3.9	20	2.0	109	414	950	8,169
Snow	12,745	5.2	19	1.9	110	438	1,106	11,072
Mud, Dirt, Gravel	2,324	0.9	32	3.2	131	263	215	1,683
Slush	2,133	0.9	4	0.4	33	93	226	1,777
Debris	45	0.0	0	0.0	5	4	1	35
Water (Standing/Flowing)	200	0.1	1	0.1	3	11	28	157
Sand	44	0.0	0	0.0	7	7	2	28
Oily	30	0.0	0	0.0	0	3	6	21
Other	78	0.0	2	0.2	3	11	12	50
Unknown	3,008	1.2	5	0.5	14	31	90	2,868
TOTAL	245,432	100.0	1,010	100.0	4,484	13,762	26,171	200,005



ALL CRASHES



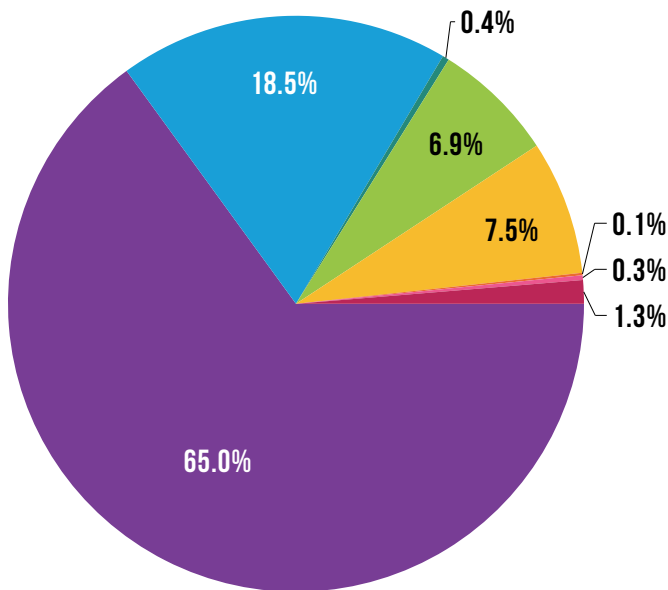
FATAL CRASHES

The highest percentage of all crashes (74.3%), fatal crashes (79.9%), injury crashes (76.7%), and property damage only crashes (73.8%) occur on dry roads.

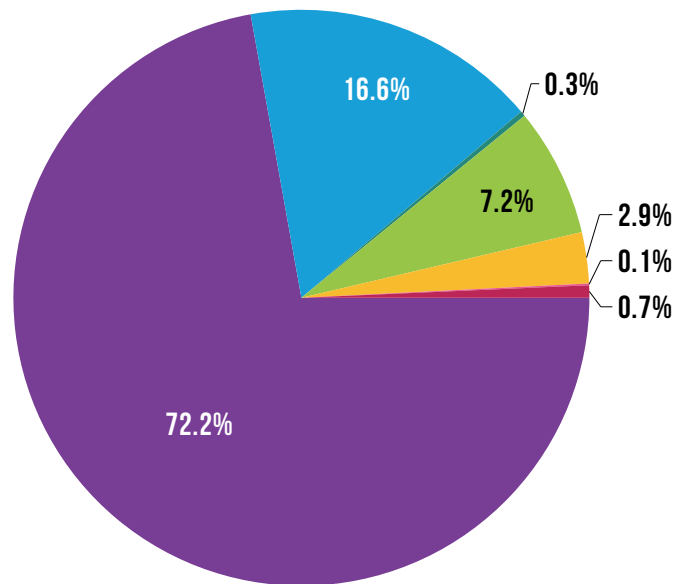
WEATHER CONDITION

WEATHER CONDITION	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
Clear	159,506	65.0	729	72.2	3,285	9,631	17,074	128,787
Cloudy	45,495	18.5	168	16.6	729	2,381	4,874	37,343
Fog	895	0.4	3	0.3	16	42	87	747
Rain	16,818	6.9	73	7.2	251	903	2,082	13,509
Snow	17,195	7.0	25	2.5	165	647	1,718	14,640
Severe Crosswinds	314	0.1	0	0.0	4	12	33	265
Sleet/Hail	652	0.3	1	0.1	10	39	79	523
Blowing Snow	1,294	0.5	4	0.4	13	68	124	1,085
Blowing Sand, Soil, Dirt	19	0.0	0	0.0	0	1	3	15
Smoke	13	0.0	0	0.0	1	0	3	9
Unknown	3,231	1.3	7	0.7	10	38	94	3,082
TOTAL	245,432	100.0	1,010	100.0	4,484	13,762	26,171	200,005

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



ALL CRASHES

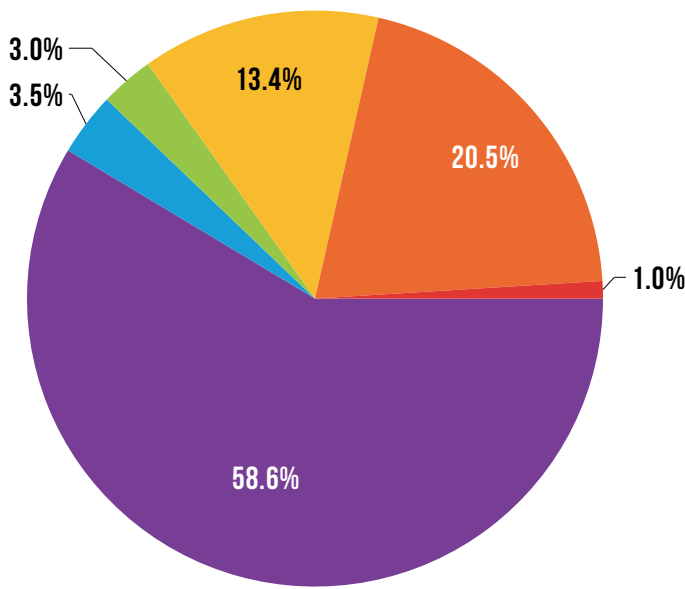


FATAL CRASHES

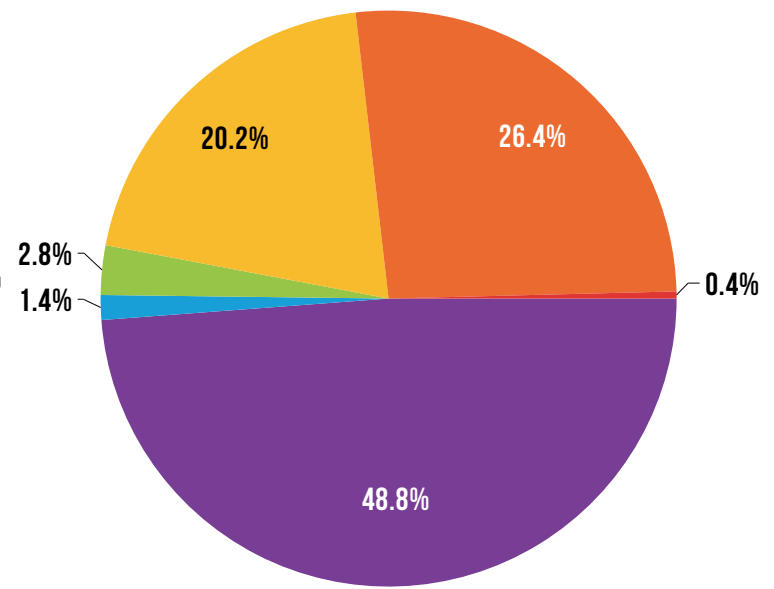
The highest percentage of all crashes (65.0%), fatal crashes (72.2%), injury crashes (67.5%), and property damage only crashes (64.4%) occur during clear weather conditions.

LIGHT CONDITION

LIGHT CONDITION	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
Daylight	143,816	58.6	493	48.8	2,672	9,069	17,503	114,079
Dawn	8,699	3.5	14	1.4	77	276	578	7,754
Dusk	7,365	3.0	28	2.8	132	390	698	6,117
Dark – Lighted	32,895	13.4	204	20.2	805	2,156	4,360	25,370
Dark – Unlighted	50,256	20.5	267	26.4	791	1,850	2,965	44,383
Other	69	0.0	1	0.1	0	1	7	60
Unknown	2,332	1.0	3	0.3	7	20	60	2,242
TOTAL	245,432	100.0	1,010	100.0	4,484	13,762	26,171	200,005



ALL CRASHES



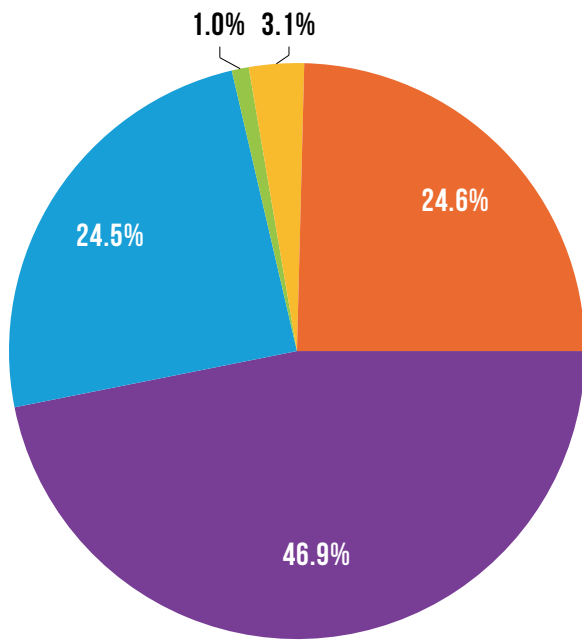
FATAL CRASHES

The highest percentage of all crashes (58.6%), fatal crashes (48.8%), injury crashes (65.8%), and property damage only crashes (57.0%) occur during daylight hours.

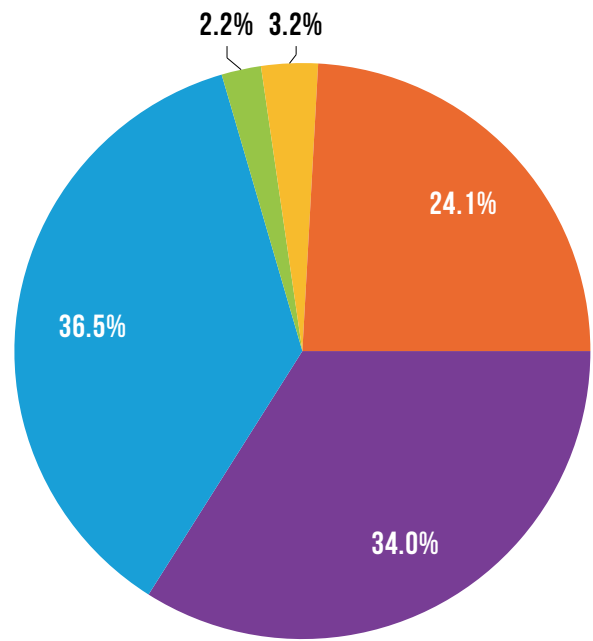
INTERSECTION CRASHES BY TRAFFIC CONTROL TYPE

TRAFFIC CONTROL TYPE	ALL CRASHES		FATAL CRASHES		INJURY CRASHES			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
Signal	35,182	46.9	107	34.0	611	2,658	5,864	25,942
Stop Sign	18,385	24.5	115	36.5	543	1,562	2,930	13,235
Stop with Flashing Beacon	717	1.0	7	2.2	29	63	135	483
Yield Sign	2,316	3.1	10	3.2	38	107	344	1,817
None	18,464	24.6	76	24.1	386	1,240	2,363	14,399
Uncoded & Errors	0	0.0	0	0.0	0	0	0	0
TOTAL	75,064	100.0	315	100.0	1,607	5,630	11,636	55,876

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



ALL CRASHES



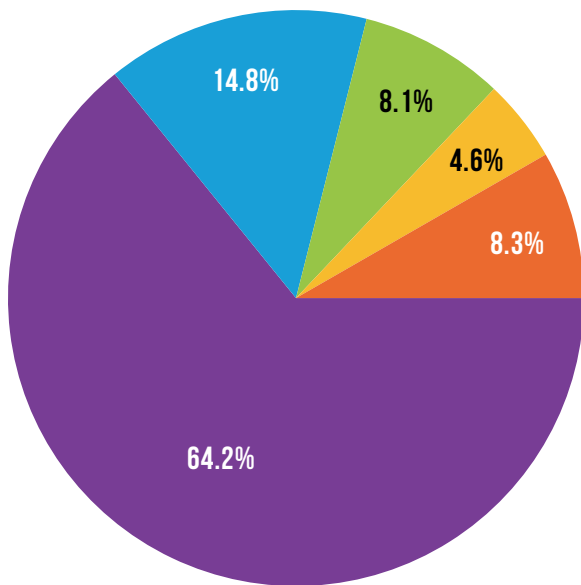
FATAL CRASHES

Compared to other intersection crashes, intersections with signals have the highest percentage of all crashes (46.9%), injury crashes (48.4%), and property damage only crashes (46.4%). Intersections with stop signs have the highest percentage of fatal crashes (36.5%).

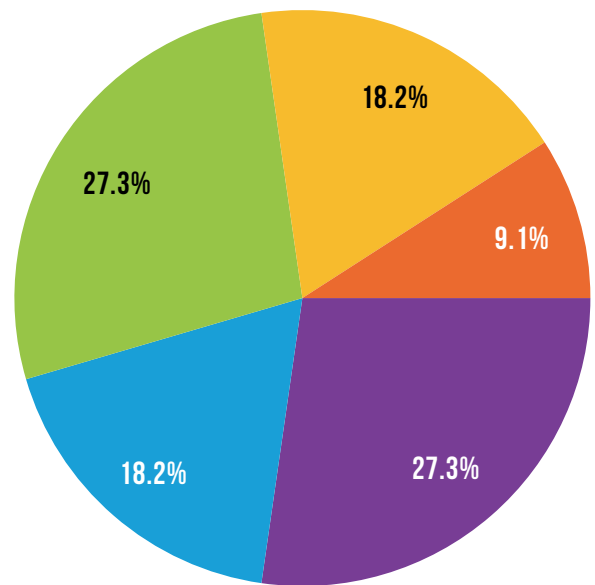
CONSTRUCTION ZONE CRASHES

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	2,466	64.2	3	27.3	29	123	337	1,974
Lane Shift/Crossover	568	14.8	2	18.2	6	30	70	460
Work on Shoulder/Median	312	8.1	3	27.3	9	19	33	248
Intermittent/Moving Work	178	4.6	2	18.2	1	10	15	150
Other	319	8.3	1	9.1	11	21	30	256
Uncoded & Errors	0	0.0	0	0.0	0	0	0	0
TOTAL	3,843	100.0	11	100.0	56	203	485	3,088

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



ALL CRASHES



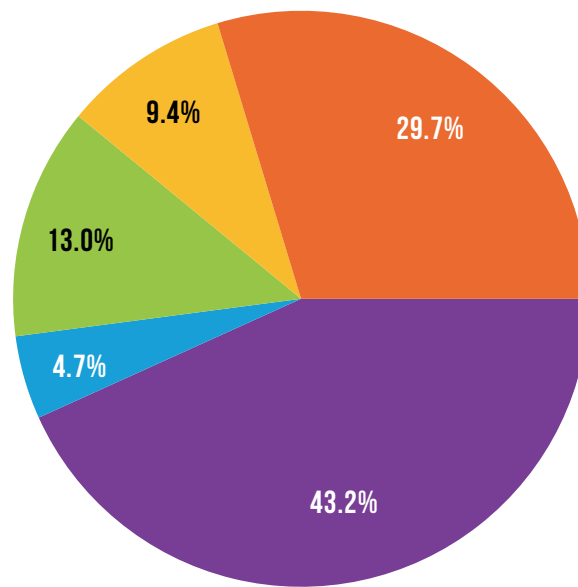
FATAL CRASHES

The highest percentage of all crashes (64.2%), fatal crashes (27.3%), injury crashes (65.7%), and property damage only crashes (63.9%) 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	83	43.2	0	0.0	4	9	7	63
Lane Shift/Crossover	9	4.7	0	0.0	0	1	1	7
Work on Shoulder/Median	25	13.0	0	0.0	0	2	4	19
Intermittent/Moving Work	18	9.4	0	0.0	0	0	1	17
Other	57	29.7	0	0.0	3	3	9	42
Uncoded & Errors	0	0.0	0	0.0	0	0	0	0
TOTAL	192	100.0	0	0.0	7	15	22	148

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



ALL CRASHES

The highest percentage of all crashes (43.2%), injury crashes (45.5%), and property damage crashes (42.6%) in utility construction zones occurred when the work zone activity was a lane closure.