







ROADWAY INJURY EXPERIENCE FOR PERSONS WHO HAD BEEN DRINKING AND/OR USING DRUGS

VEHICLE	SEVERITY	TOTAL	CRASHES INVOLVING DRINKING, NOT DRUGS		CRASHES INVOLVING DRUGS, NOT DRINKING		CRASHES INVOLVING DRINKING AND DRUGS		TOTAL CRASHES INVOLVING DRINKING AND/OR DRUGS	
			Operator in Crash	Operator Drinking	Operator in Crash	Operator Drugs	Operator in Crash	Operator Drinking and Drugs	Operator in Crash	Operator Drinking and/or Drugs
 BICYCLISTS	Total*	1,501	45	32	8	4	1	0	54	36
	Killed	21	1	1	3	2	0	0	4	3**
	Injured	1,129	40	28	5	2	1	0	46	30
 DRIVERS	Total*	535,721	12,947	8,416	2,227	1,369	1,886	1,179	17,060	10,964
	Killed	631	114	100	76	55	80	67	270	222**
	Injured	54,103	3,350	2,502	785	575	660	476	4,795	3,553
 MOTORCYCLISTS	Total*	3,083	250	217	37	27	38	30	325	274
	Killed	122	25	23	14	8	11	11	50	42**
	Injured	2,176	203	180	23	19	26	19	252	218
 ORV/ATV RIDERS	Total*	360	66	63	0	0	5	5	71	68
	Killed	7	4	4	0	0	0	0	4	4**
	Injured	235	37	36	0	0	4	4	41	40
 PEDESTRIANS	Total*	2,403	230	174	31	10	38	27	299	211
	Killed	149	34	23	14	9	20	14	68	46**
	Injured	1,910	178	140	15	1	18	13	211	154
 SNOWMOBILERS	Total*	163	18	18	0	0	1	1	19	19
	Killed	8	2	2	0	0	1	1	3	3**
	Injured	105	14	14	0	0	0	0	14	14

*Total does include property damage only crashes

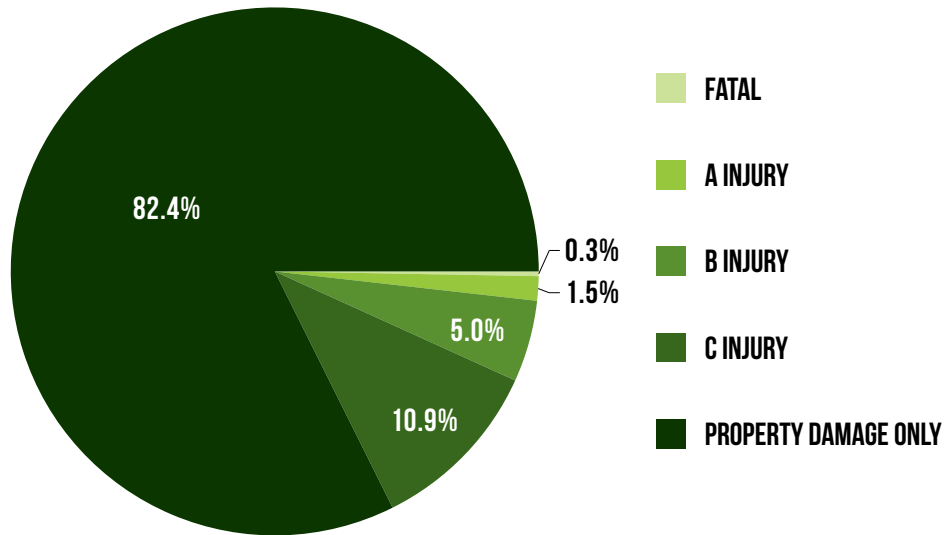
**There were three bicyclists, 222 drivers, 42 motorcyclists, four ORV/ATV riders, 46 pedestrians, and three snowmobilers who were killed and coded as drinking and/or using drugs by the police officer.

DRIVER DRINKING AND/OR USING DRUGS AND INJURY SEVERITY IN CRASH BY AGE

AGE OF DRIVER IN CRASH	ALL CRASHES				FATAL				INJURY			
	Drinking Only	Drugs Only	Both	Total	Drinking Only	Drugs Only	Both	Total	Drinking Only	Drugs Only	Both	Total
13 years and under	0	0	0	0	0	0	0	0	0	0	0	0
14 years	0	0	0	0	0	0	0	0	0	0	0	0
15 years	4	4	1	9	0	0	0	0	1	4	1	6
16 years	17	15	1	33	0	0	0	0	8	5	1	14
17 years	29	28	7	64	1	0	0	1	12	13	5	30
18 years	60	41	14	115	2	7	2	11	25	17	5	47
19 years	111	42	21	174	2	5	1	8	42	16	8	66
20 years	160	47	33	240	2	5	2	9	68	26	23	117
21 - 24 years	1,137	161	172	1,470	14	19	14	47	446	67	77	590
25 - 34 years	2,699	425	376	3,500	40	32	22	94	1,009	200	190	1,399
35 - 44 years	1,680	286	234	2,200	38	19	21	78	631	138	100	869
45 - 54 years	1,208	167	178	1,553	23	12	10	45	454	88	76	618
55 - 64 years	932	128	113	1,173	23	12	7	42	364	65	53	482
65 - 69 years	209	19	13	241	8	3	1	12	73	7	9	89
70 - 74 years	111	13	10	134	2	0	0	2	48	8	4	60
75 - 79 years	55	5	2	62	1	0	0	1	19	2	1	22
80 - 84 years	10	3	2	15	0	1	0	1	5	2	1	8
85 - 89 years	4	2	1	7	0	1	0	1	2	0	1	3
90 years and over	4	2	0	6	0	0	0	0	2	0	0	2
Unknown	1	0	1	2	0	0	0	0	0	0	0	0
Total	8,431	1,388	1,179	10,998	156	116	80	352	3,209	658	555	4,422

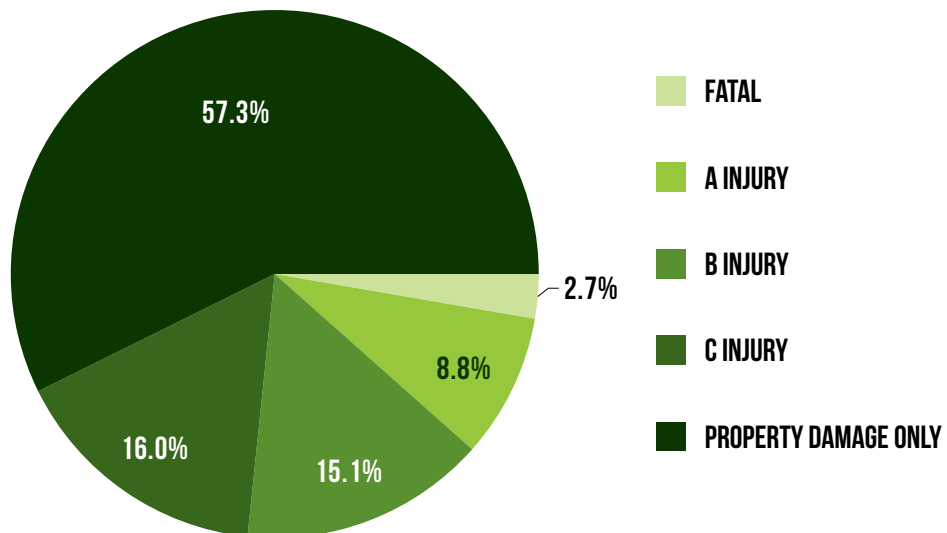
The driver age group 25 to 34 years represents the highest number of drinking and/or drug use in total crashes, injury crashes, and fatal crashes.

ALL CRASHES BY INJURY SEVERITY



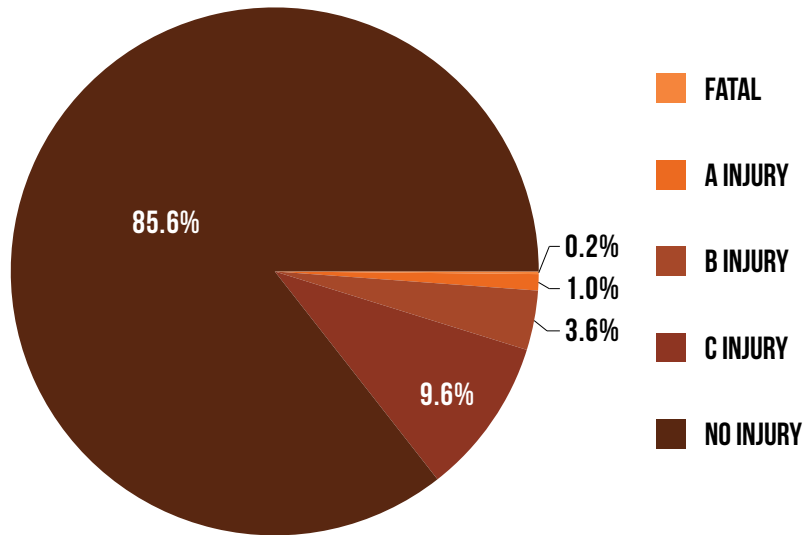
The majority of crashes do not involve injury (82.4%). Possible (C) injury crashes represent about 62% of those that do involve injury.

HAD-BEEN-DRINKING CRASHES BY INJURY SEVERITY



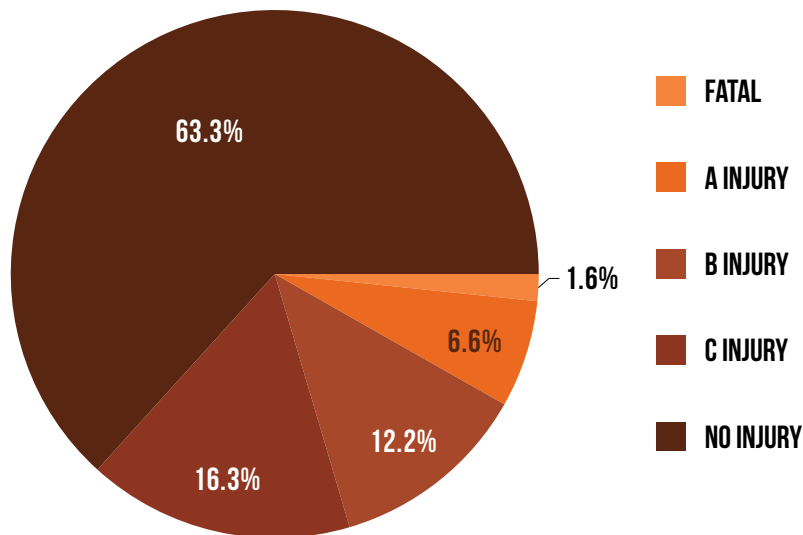
The problem of the drinking driver, pedestrian, and/or cyclist is seen by comparing the two charts on this page. For all had-been-drinking crashes, injury levels are greater, and a fatality in the crash is about nine times more likely when one of the crash-involved operators is reported as had-been-drinking (HBD).

DEATH & INJURY FOR CRASH INVOLVED OCCUPANTS



The majority of occupants involved in crashes are not injured (85.6%). About 67% percent of those who are injured receive only possible (C) injuries.

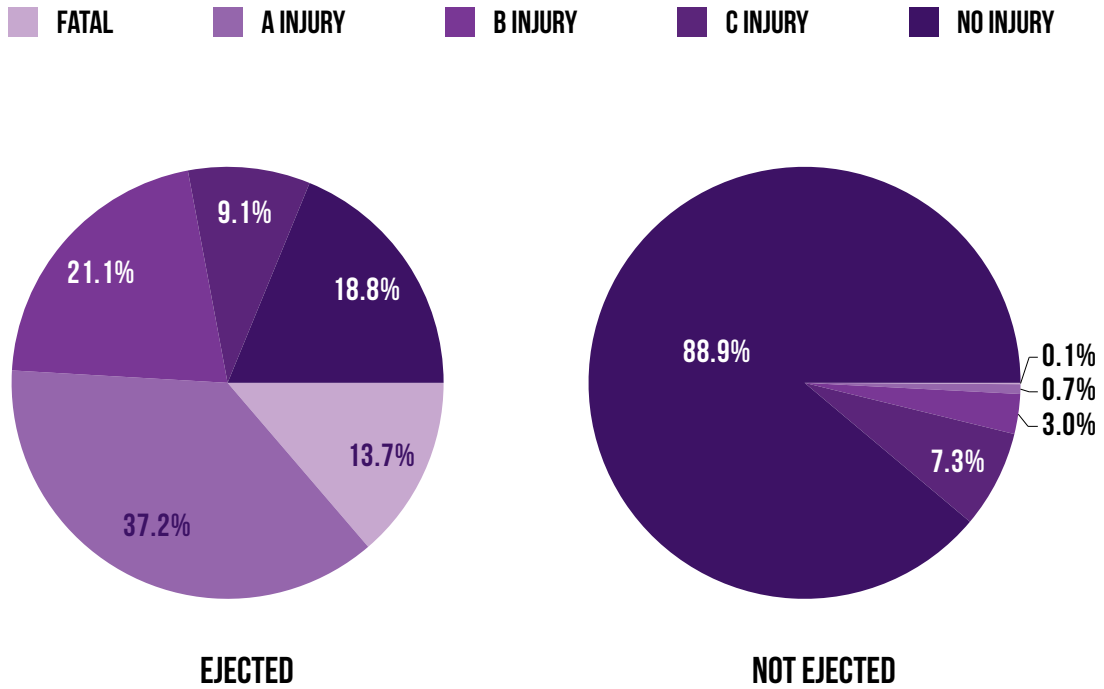
OCCUPANTS IN HAD-BEEN-DRINKING CRASHES



Crashes involving drinking tend to be more serious than nondrinking crashes. The percentage of occupant fatalities is about ten times higher than in all crashes and the incapacitating injury level (A) is about seven times higher.

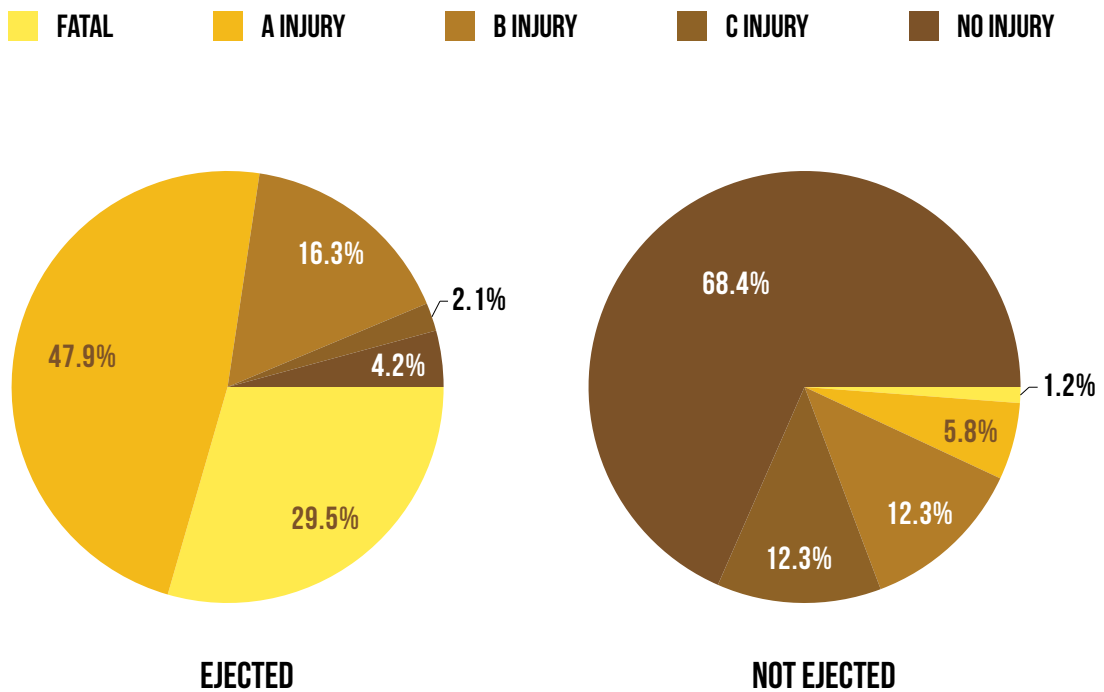
Note: Occupants include all drivers plus all injured or killed persons in or on a motor vehicle.

ALL DRIVERS INJURY SEVERITY - EJECTED VS. NOT EJECTED



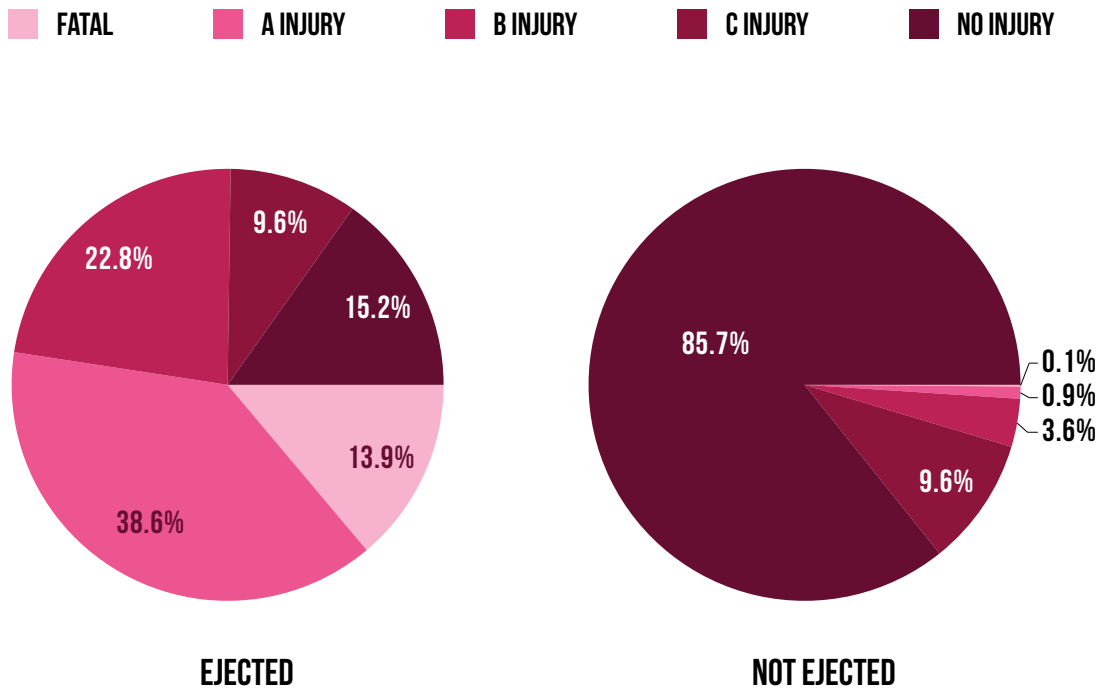
As shown by the two charts above, death and injury are much more likely when drivers are ejected from vehicles.

HAD-BEEN-DRINKING DRIVERS INJURY SEVERITY - EJECTED VS. NOT EJECTED



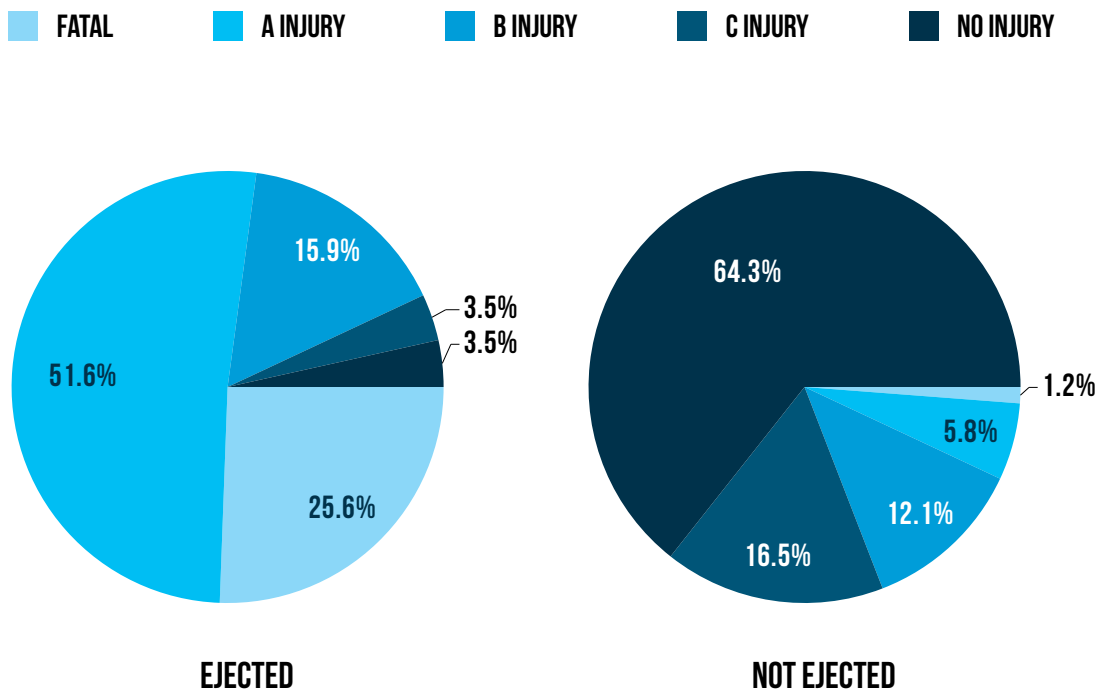
When compared to the charts above, the had-been-drinking charts demonstrate that injury severity is much worse for drivers reported to be drinking in both ejected and non-ejected events.

ALL OCCUPANTS OF CRASHES INJURY SEVERITY - EJECTED VS. NOT EJECTED.



As shown by the two charts above, death and injury are much more likely when occupants are ejected from vehicles.

OCCUPANTS OF HAD-BEEN-DRINKING CRASHES INJURY SEVERITY - EJECTED VS. NOT EJECTED

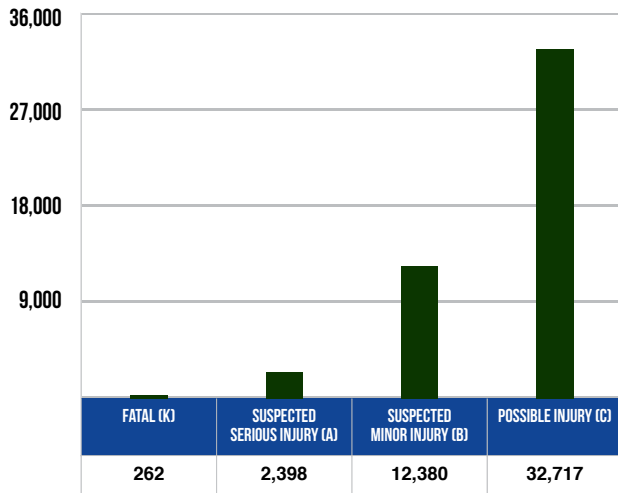


When compared to the charts above, the charts of occupants of had-been-drinking crashes demonstrate that injury severity is much worse for occupants in a crash where drinking is reported in both ejected and non-ejected events.

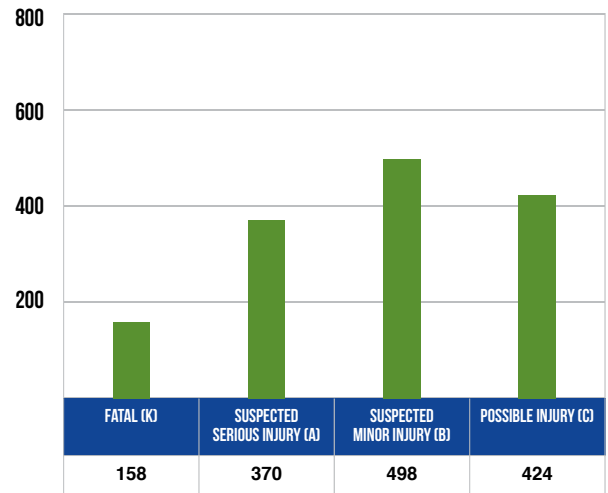
Note: Occupants include all drivers plus all injured or killed persons in or on a motor vehicle.

INJURY SEVERITY & BELT USE BY DRIVER INJURY

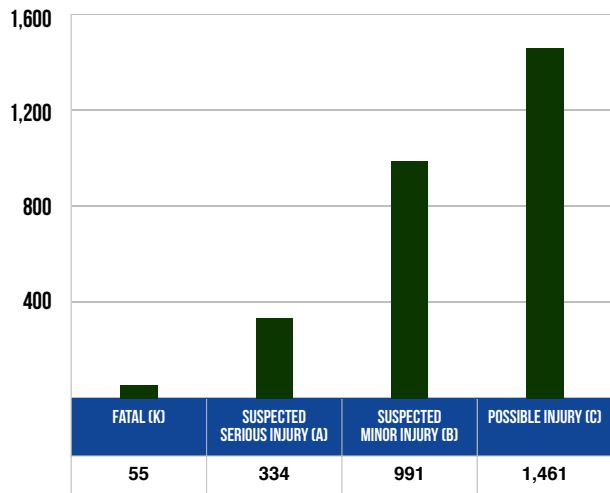
ALL CRASHES-BELTS USED



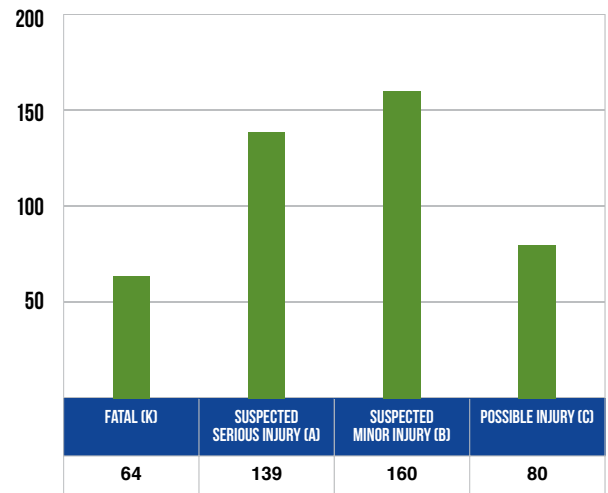
ALL CRASHES-BELTS NOT USED



HAD-BEEN DRINKING CRASHES-BELTS USED



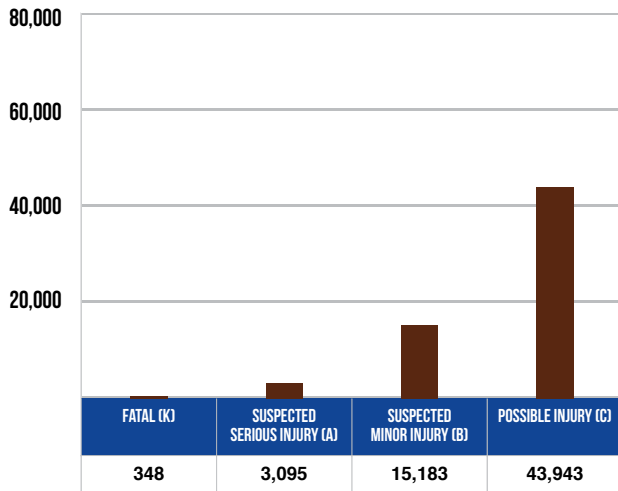
HAD-BEEN DRINKING CRASHES-BELTS NOT USED



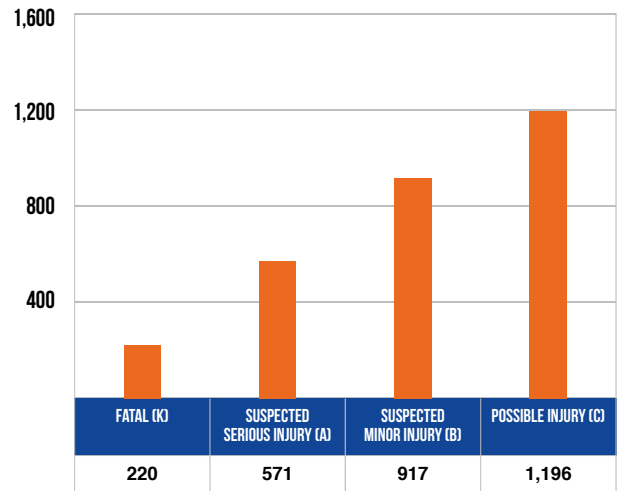
Note: "Belts Used" represents shoulder belts only used, lap belts only used, both lap and shoulder belts used, and restraint failure. "Belts Not Used" represents no belts available and no belts used.

INJURY SEVERITY & RESTRAINT USE BY OCCUPANT INJURY

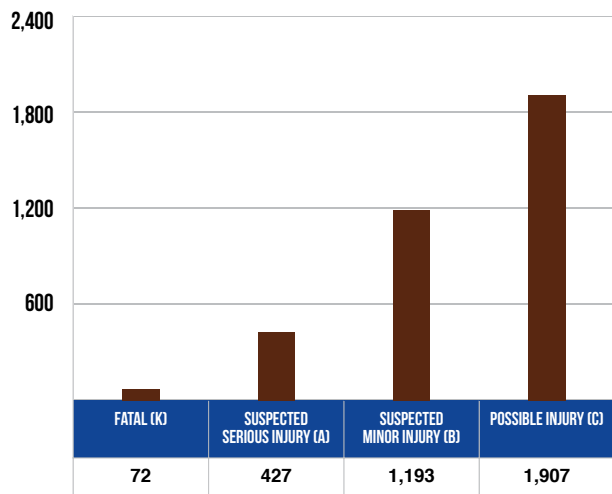
ALL CRASHES - RESTRAINTS USED



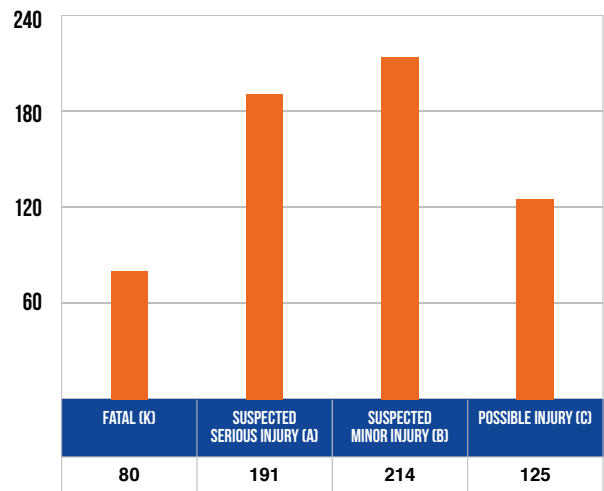
ALL CRASHES - RESTRAINTS NOT USED



HAD-BEEN-DRINKING CRASHES - RESTRAINTS USED



HAD-BEEN-DRINKING CRASHES - RESTRAINTS NOT USED

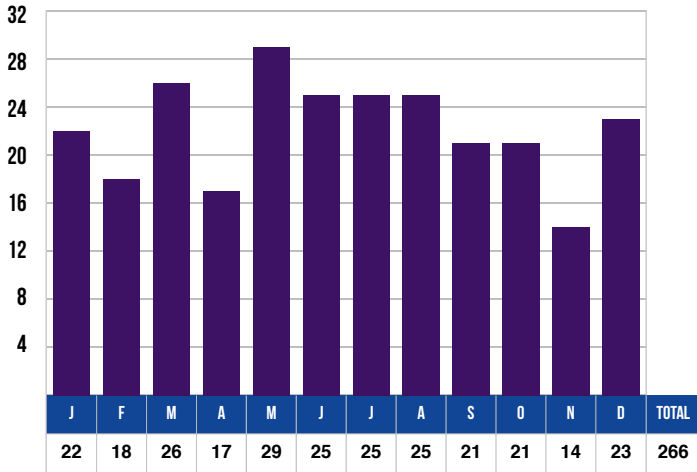


Note: "Restraints Used" represents shoulder belts only used, lap belts only used, both lap and shoulder belts used, child restraints used, and restraint failure. "Restraints Not Used" represents no belts available; no belts used; and child restraint not used, unavailable, or improper use.

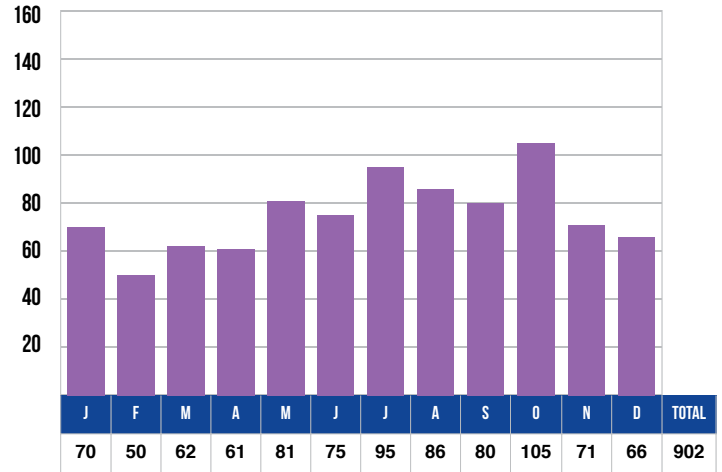
Note: Occupants include all drivers plus all injured or killed persons in or on a motor vehicle.

ALCOHOL INVOLVMENT IN FATAL CRASHES

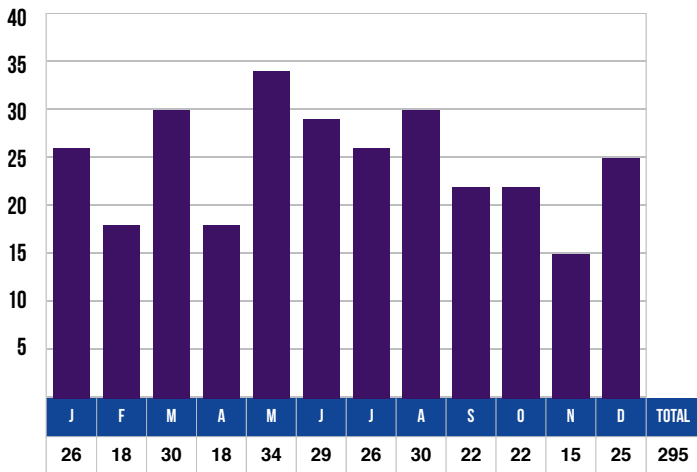
HAD-BEEN-DRINKING FATAL CRASHES BY MONTH



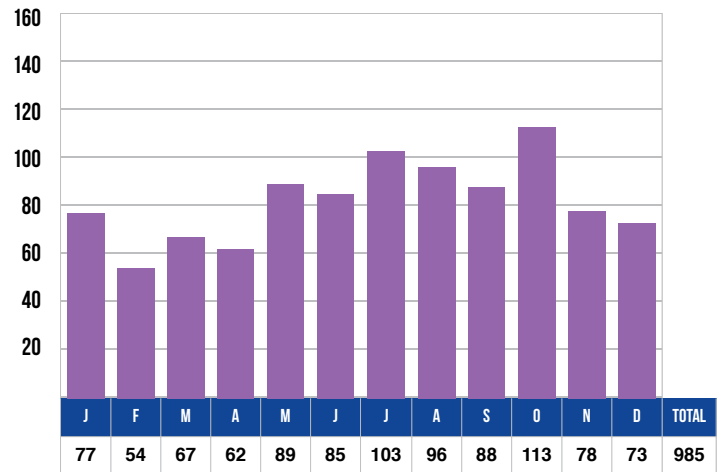
TOTAL FATAL CRASHES BY MONTH



ALCOHOL-INVOLVED FATALITIES BY MONTH



TOTAL FATALITIES BY MONTH

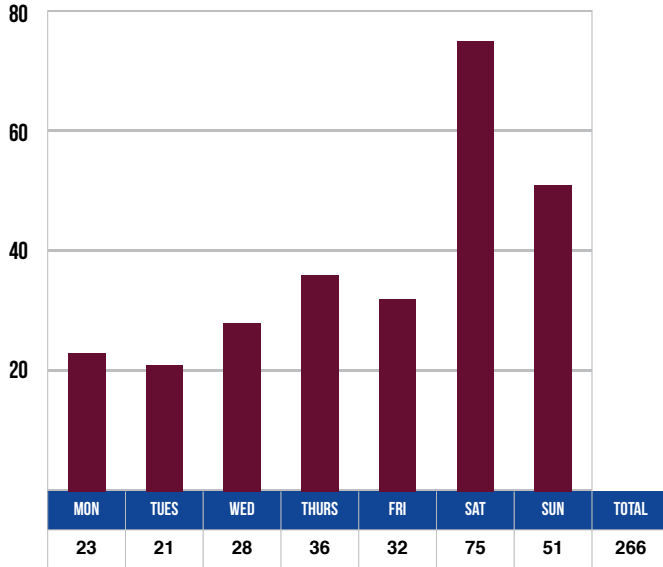


Had-been-drinking fatal crashes were highest in number during the month of May. The number of total fatal crashes (total of non-had-been-drinking and had-been-drinking fatal crashes) reached the highest level in October.

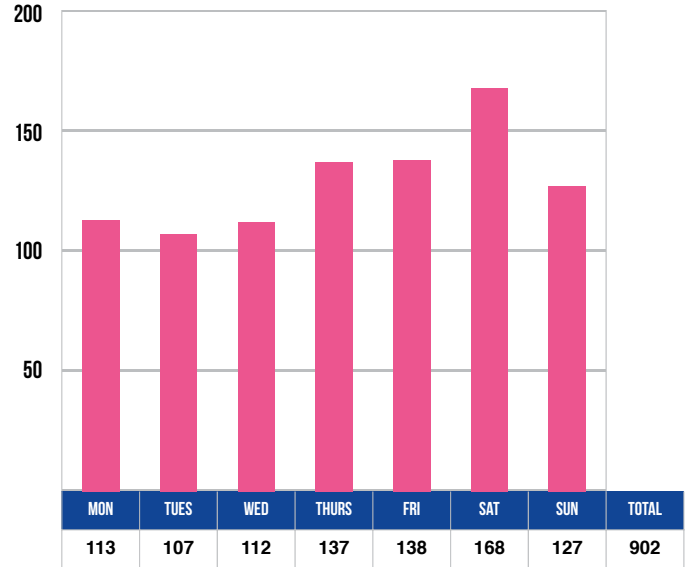
Note: An alcohol-involved fatality is any person killed in a had-been-drinking crash.

ALCOHOL INVOLVMENT IN FATAL CRASHES (CONTINUED)

HAD-BEEN-DRINKING FATAL CRASHES BY DAY OF THE WEEK

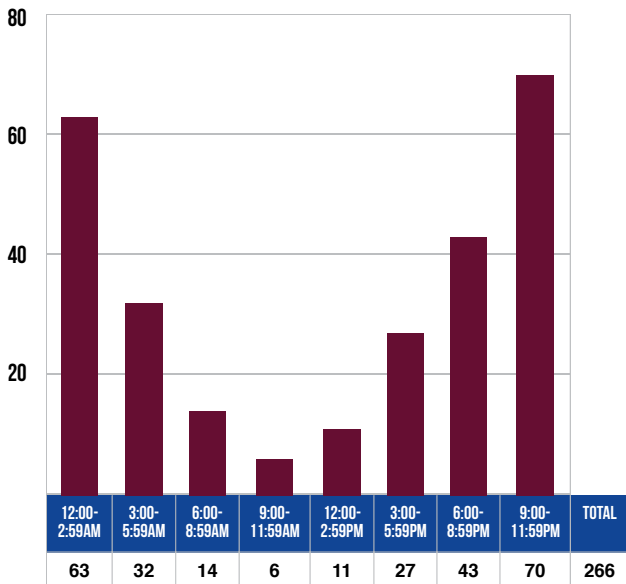


TOTAL FATAL CRASHES BY DAY OF THE WEEK

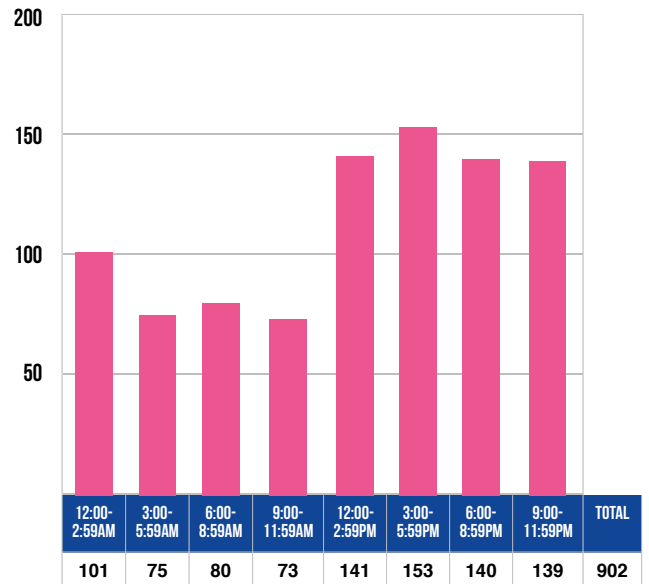


Saturday had the highest number of HBD fatal crashes (75) and also the highest proportion (44.6%) of drinking-related fatal crashes in 2019.

HAD-BEEN-DRINKING FATAL CRASHES BY TIME OF DAY



TOTAL FATAL CRASHES BY TIME OF DAY

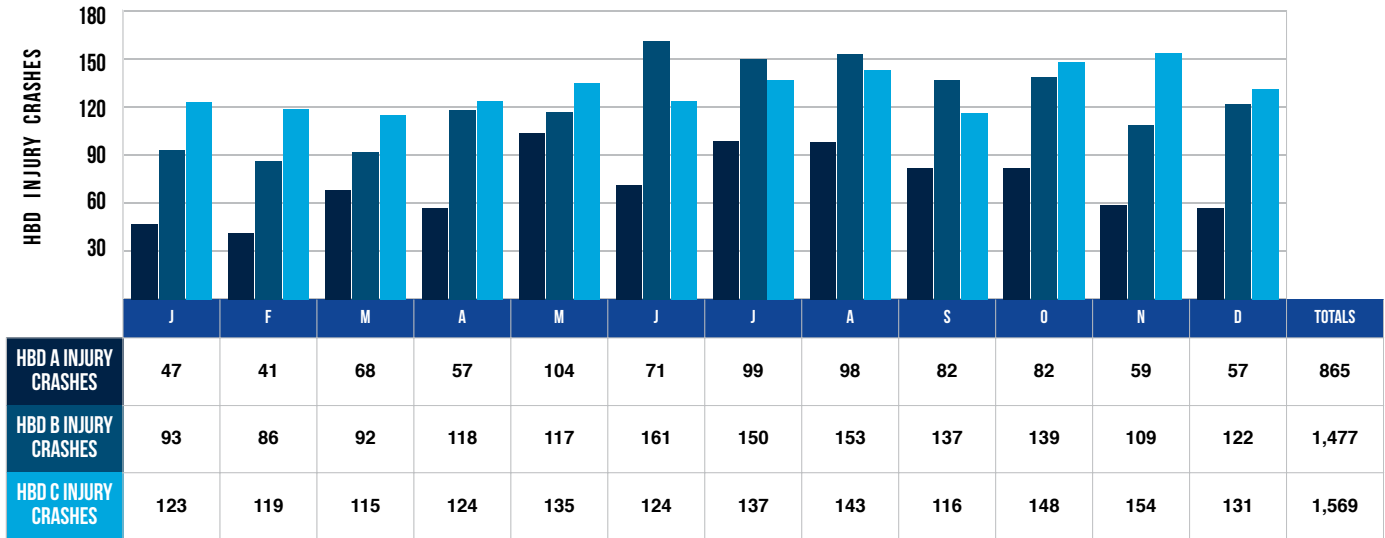


The 9:00 PM to midnight time period had the highest number of HBD fatal crashes (70), while the midnight to 3:00 AM time period had the greatest proportion (62.4%) of drinking-related fatal crashes in 2019.

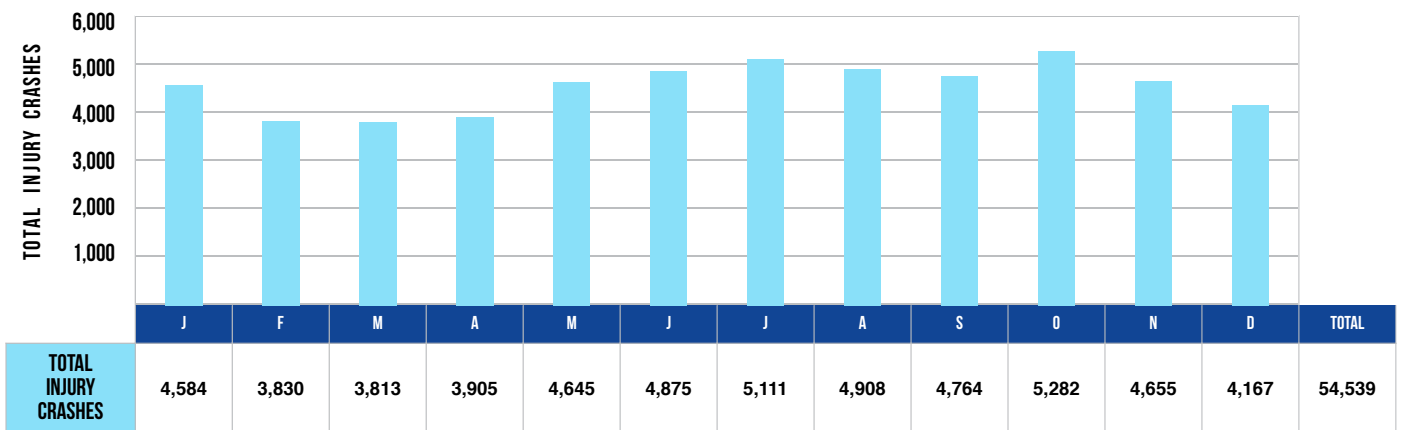
Note: These charts exclude crashes where time of day was unknown.

ALCOHOL INVOLVEMENT IN INJURY CRASHES

HAD-BEEN-DRINKING INJURY CRASHES BY MONTH



TOTAL INJURY CRASHES BY MONTH

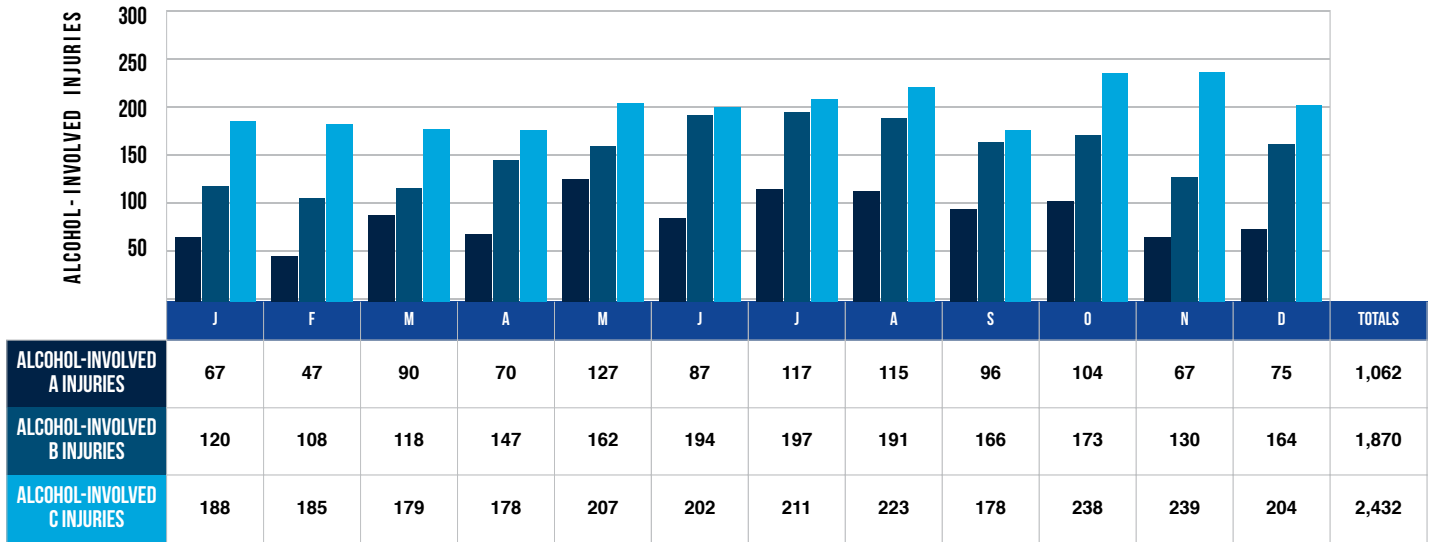


Alcohol involvement in injury crashes is an important indicator of the alcohol-impaired driving problem. In 2019, the highest number of had-been-drinking injury crashes occurred in August with 394. The highest proportion of had-been-drinking injury crashes occurred in August with 8.0 percent of the injury crashes involving alcohol.

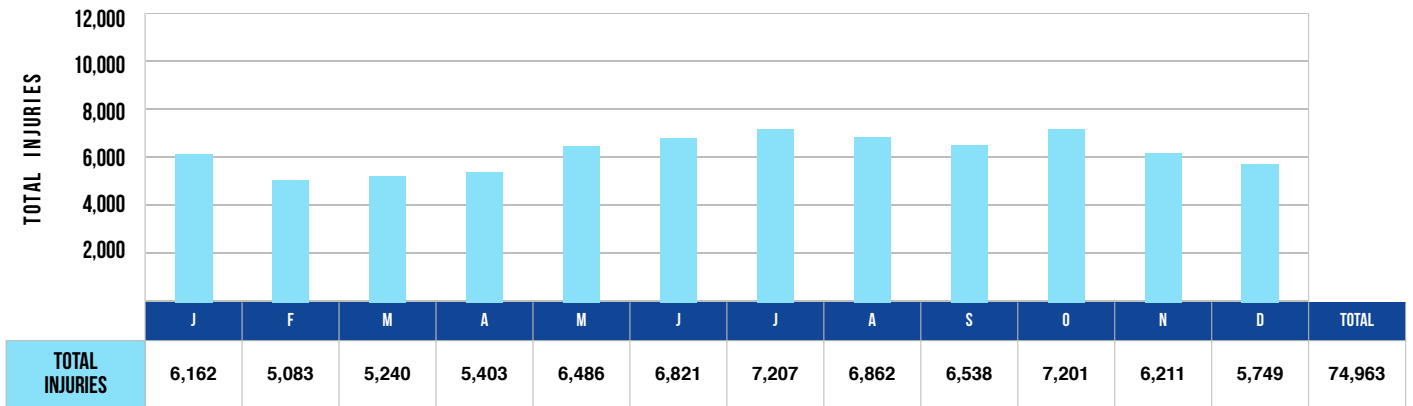
Note: An alcohol-involved injury is any person injured in a had-been-drinking crash.

ALCOHOL INVOLVEMENT IN INJURY CRASHES (CONTINUED)

ALCOHOL-INVOLVED INJURIES BY MONTH



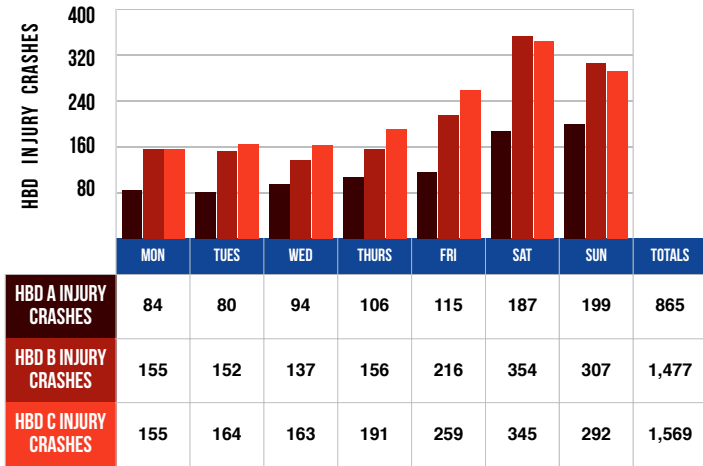
TOTAL INJURIES BY MONTH



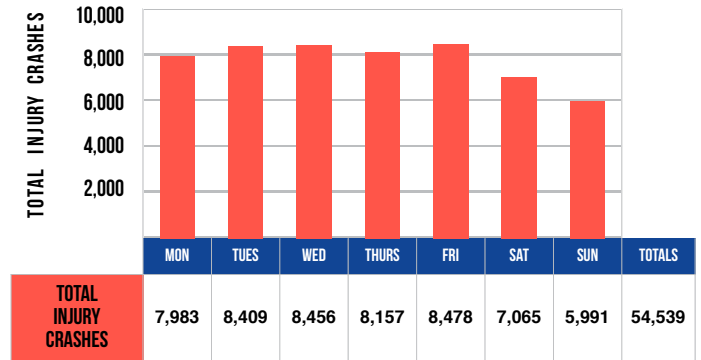
Note: An alcohol-involved injury is any person injured in a had-been-drinking crash.

ALCOHOL INVOLVEMENT IN INJURY CRASHES (CONTINUED)

HAD-BEEN-DRINKING INJURY CRASHES BY DAY OF THE WEEK

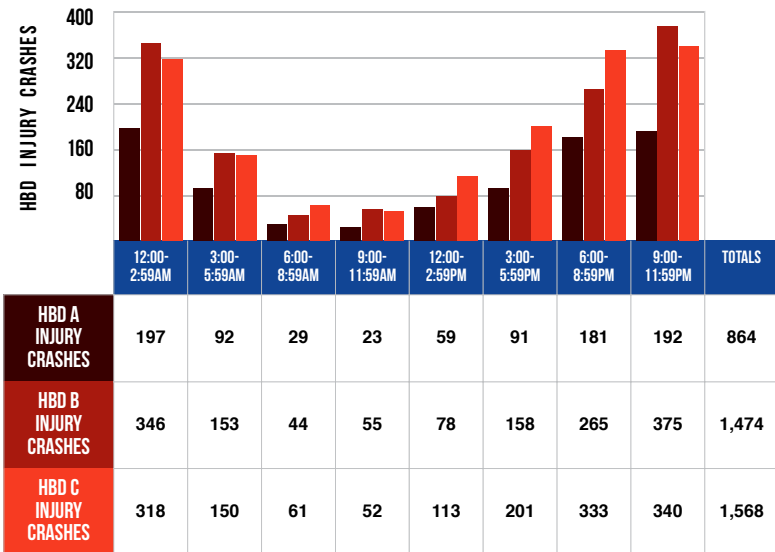


TOTAL INJURY CRASHES BY DAY OF THE WEEK

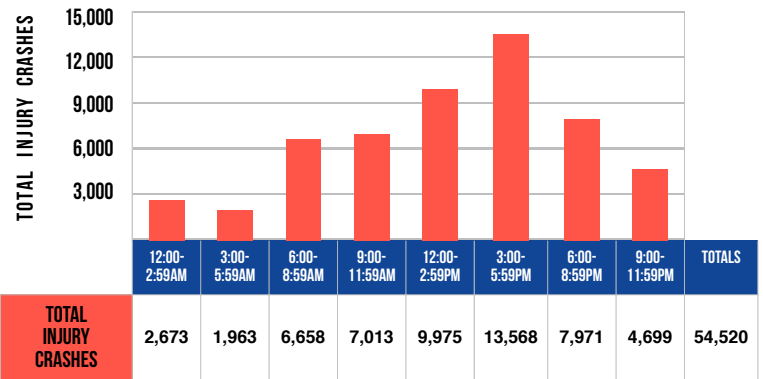


Had-been-drinking injury crashes follow the same basic trends as total crashes during the work week, but the weekend sees a dramatic increase in the proportion of had-been-drinking injury crashes to total injury crashes.

HAD-BEEN-DRINKING INJURY CRASHES BY TIME OF DAY



TOTAL INJURY CRASHES BY TIME OF DAY



Total injury crash frequencies peak in the hours between 3:00 PM and 5:59 PM, while had-been-drinking injury crash frequencies peak between 9:00 PM and 11:59 PM (a particularly hazardous travel period). These frequencies exclude 19 injury crashes (including five had-been-drinking injury crashes) where time of day was unknown.

MALE DRIVERS BY AGE AND INJURY SEVERITY IN CRASH

AGE OF DRIVER IN CRASH	MALE DRIVERS		FATAL		INJURY			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
13 years and under	43	0.0	3	0.3	7	14	5	14
14 years	66	0.0	0	0.0	6	10	5	45
15 years	321	0.1	3	0.3	7	39	35	237
16 years	3,804	1.4	1	0.1	51	219	443	3,090
17 years	5,194	1.9	9	0.9	66	303	615	4,201
18 years	6,417	2.3	20	2.0	93	382	756	5,166
19 years	6,622	2.4	20	2.0	99	427	778	5,298
20 years	6,588	2.4	28	2.8	113	393	785	5,269
21 - 24 years	26,120	9.5	84	8.3	471	1,468	3,214	20,883
25 - 34 years	57,529	20.9	200	19.7	1,004	3,304	6,835	46,186
35 - 44 years	44,310	16.1	172	16.9	767	2,301	5,267	35,803
45 - 54 years	43,137	15.7	146	14.4	820	2,168	4,990	35,013
55 - 64 years	39,757	14.4	164	16.1	697	2,069	4,695	32,132
65 - 69 years	12,531	4.6	52	5.1	244	678	1,472	10,085
70 - 74 years	9,039	3.3	24	2.4	159	527	1,082	7,247
75 - 79 years	5,836	2.1	40	3.9	101	344	707	4,644
80 - 84 years	3,046	1.1	28	2.8	49	207	369	2,393
85 - 89 years	1,483	0.5	13	1.3	26	127	198	1,119
90 years and over	576	0.2	7	0.7	14	41	92	422
Unknown	2,761	1.0	2	0.2	16	81	274	2,388
TOTAL	275,180**	100.0	1,016	100.0	4,810	15,102	32,617	221,635

The male driver age group 25 to 34 years experienced the highest number of fatal crashes as well as the highest number of injury crashes and property damage only crashes.

***Note: This table excludes 44,267 drivers of unknown gender.*

MALE DRINKING DRIVERS BY AGE AND INJURY SEVERITY IN CRASH

AGE OF DRINKING DRIVER IN CRASH	MALE DRIVERS		FATAL		INJURY			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
13 years and under	0	0.0	0	0.0	0	0	0	0
14 years	0	0.0	0	0.0	0	0	0	0
15 years	3	0.0	0	0.0	0	0	1	2
16 years	13	0.2	0	0.0	2	2	3	6
17 years	27	0.4	1	0.5	4	6	2	14
18 years	50	0.7	4	2.0	4	8	8	26
19 years	93	1.4	1	0.5	8	18	9	57
20 years	138	2.0	3	1.5	14	31	19	71
21 - 24 years	924	13.5	19	9.7	82	140	149	534
25 - 34 years	2,150	31.3	49	25.0	196	324	322	1,259
35 - 44 years	1,352	19.7	55	28.1	125	178	218	776
45 - 54 years	969	14.1	27	13.8	114	135	143	550
55 - 64 years	812	11.8	25	12.8	63	130	135	459
65 - 69 years	169	2.5	9	4.6	15	23	29	93
70 - 74 years	103	1.5	2	1.0	9	16	19	57
75 - 79 years	47	0.7	1	0.5	2	5	9	30
80 - 84 years	9	0.1	0	0.0	2	1	3	3
85 - 89 years	5	0.1	0	0.0	0	0	3	2
90 years and over	4	0.1	0	0.0	0	0	2	2
Unknown	1	0.0	0	0.0	0	0	0	1
TOTAL	6,869**	100.0	196	100.0	640	1,017	1,074	3,942

The male drinking driver age group 25 to 34 years experienced the highest number of total, injury, and property damage only crashes. The male drinking driver age group 35 to 44 years experienced the greatest number of fatal crashes.

***Note: This table excludes one unknown gender drinking driver.*

FEMALE DRIVERS BY AGE AND INJURY SEVERITY IN CRASH

AGE OF DRIVER IN CRASH	FEMALE DRIVERS		FATAL		INJURY			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
13 years and under	16	0.0	0	0.0	2	3	2	9
14 years	49	0.0	0	0.0	1	5	5	38
15 years	270	0.1	2	0.5	7	25	34	202
16 years	3,581	1.7	5	1.3	30	201	467	2,878
17 years	4,661	2.2	3	0.8	51	267	654	3,686
18 years	5,370	2.5	11	2.9	74	321	717	4,247
19 years	5,660	2.6	11	2.9	62	328	784	4,475
20 years	5,683	2.6	11	2.9	75	297	831	4,469
21 - 24 years	22,487	10.4	38	10.2	271	1,275	3,085	17,818
25 - 34 years	46,538	21.5	80	21.4	595	2,585	6,616	36,662
35 - 44 years	35,483	16.4	61	16.3	421	1,934	4,998	28,069
45 - 54 years	32,670	15.1	47	12.6	405	1,689	4,512	26,017
55 - 64 years	28,192	13.0	46	12.3	317	1,436	3,958	22,435
65 - 69 years	9,297	4.3	6	1.6	115	480	1,220	7,476
70 - 74 years	6,590	3.0	19	5.1	99	424	843	5,205
75 - 79 years	4,152	1.9	15	4.0	77	259	581	3,220
80 - 84 years	2,369	1.1	6	1.6	46	162	344	1,811
85 - 89 years	1,177	0.5	8	2.1	21	88	177	883
90 years and over	413	0.2	3	0.8	9	40	47	314
Unknown	1,616	0.7	2	0.5	3	43	177	1,391
TOTAL	216,274**	100.0	374	100.0	2,681	11,862	30,052	171,305

The female driver age group 25 to 34 years experienced the highest number of fatal crashes as well as the highest number of injury crashes and property damage only crashes.

***Note: This table excludes 44,267 drivers of unknown gender.*

FEMALE DRINKING DRIVERS BY AGE AND INJURY SEVERITY IN CRASH

AGE OF DRINKING DRIVER IN CRASH	FEMALE DRIVERS		FATAL		INJURY			PROPERTY DAMAGE ONLY
	Number	% of Total	Number	% of Total	A	B	C	
13 years and under	0	0.0	0	0.0	0	0	0	0
14 years	0	0.0	0	0.0	0	0	0	0
15 years	2	0.1	0	0.0	0	1	0	1
16 years	5	0.2	0	0.0	0	2	0	3
17 years	9	0.3	0	0.0	1	2	2	4
18 years	24	0.9	0	0.0	2	4	4	14
19 years	39	1.4	2	5.0	2	7	6	22
20 years	55	2.0	1	2.5	3	11	13	27
21 - 24 years	385	14.1	9	22.5	29	59	64	224
25 - 34 years	925	33.8	13	32.5	60	142	155	555
35 - 44 years	562	20.5	4	10.0	37	81	92	348
45 - 54 years	417	15.2	6	15.0	17	53	68	273
55 - 64 years	233	8.5	5	12.5	13	32	44	139
65 - 69 years	53	1.9	0	0.0	2	4	9	38
70 - 74 years	18	0.7	0	0.0	1	4	3	10
75 - 79 years	10	0.4	0	0.0	0	3	1	6
80 - 84 years	3	0.1	0	0.0	0	0	0	3
85 - 89 years	0	0.0	0	0.0	0	0	0	0
90 years and over	0	0.0	0	0.0	0	0	0	0
Unknown	0	0.0	0	0.0	0	0	0	0
TOTAL	2,740**	100.0	40	100.0	167	405	461	1,667

The female drinking driver age group 25 to 34 years experienced the highest number of fatal crashes as well as the highest number of injury crashes and property damage only crashes.

***Note: This table excludes one unknown gender drinking driver.*

