



Office of Highway Safety Planning

2018

MTCF
Michigan Traffic
Crash Facts

Michigan Traffic Crash Facts

Reporting Criteria

Please pay particular attention to the wording when interpreting the three levels of data gathered for this report.

Crash

The Crash Level analyzes data related to crash events and returns one result per crash.

Examples: Time, weather, and location.

Units

The Units Level analyzes the experience of the units in the crash and returns one result per vehicle, driver, pedestrian, bicyclist, or train.

Examples: Vehicle type, driver condition, and unit events.

People

The People Level analyzes the experience of the people involved in the crash and returns one result per occupant/person/party.

Examples: Age, injury severity, and seat belt or helmet use.

KABCO Injury Indicator:

K = Killed

A = Suspected Serious Injury

B = Suspected Minor Injury

C = Possible Injury

O = No Injury

Property Damage Only (PDO)



Michigan Statewide County Summary



Sources:

The crashes in this report occurred on public roadways in Michigan and resulted in injuries, fatalities, or property damage (with \$1,000 as a reporting threshold). The information was gathered from Michigan Traffic Crash Report Forms (UD-10) submitted by local police departments, sheriff's offices, and the Michigan State Police. Other related information was obtained from the departments of Transportation, State, and Community Health.

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Statewide Experience

In 2018:

There were 534,223 drivers involved in 312,798 motor vehicle crashes in Michigan. Of those crashes, 905 were classified as fatal, resulting in 974 fatalities. An additional 75,838 persons were injured.

Michigan experienced the highest number of motor vehicle crashes (33,418) in November, the highest number of fatal crashes (122) and the highest number of persons killed (128) in August.

Michigan driver statistics indicate 6.4 percent of licensed drivers were age 16-20, and 10.2 percent of drivers in crashes were also in that age group.

2018 - Crashes and Injuries by Month

Month	Crashes				Persons	
	Total	Fatal	Injury	Property Damage Only (PDO)	Fatalities	Injuries
January	31,045	49	4,486	26,510	55	5,895
February	25,934	57	3,888	21,989	60	5,264
March	23,477	60	4,016	19,401	67	5,420
April	22,606	67	4,062	18,477	74	5,501
May	24,446	79	4,969	19,398	90	6,906
June	25,037	75	5,012	19,950	81	7,002
July	22,773	83	4,823	17,867	95	6,750
August	22,737	122	4,999	17,616	128	7,003
September	23,705	111	4,946	18,648	115	6,865
October	30,659	75	5,030	25,554	78	6,884
November	33,418	66	4,767	28,585	68	6,494
December	26,961	61	4,342	22,558	63	5,854
Total	312,798	905	55,340	256,553	974	75,838

2018 - Driver Statistics

Age Group	Statewide			Driver Rates	
	2018 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	1,904,719	50,746	768	4.0	151.3
16 - 20	662,469	463,330	54,530	823.1	1,176.9
21 - 24	559,419	454,350	49,415	883.3	1,087.6
25 - 64	5,152,704	4,728,005	326,933	634.5	691.5
65 +	1,716,604	1,525,734	54,621	318.2	358.0
Unknown	0	0	47,956	- -	- -
Total	9,995,915	7,222,165	534,223	534.4	739.7

2018 - Vehicles in Crashes

Vehicle Type	Motor Vehicles		Fatal Crashes		Injury Crashes	PDO Crashes
	Number of Vehicles	% of Total	Number	% of Total	Number	Number
Passenger car, SUV, van	438,195	82.0	1,016	67.3	85,268	351,911
Motor home	1,425	0.3	5	0.3	230	1,190
Pickup truck	58,811	11.0	197	13.1	10,061	48,553
Small truck under 10,000 lbs. GVWR	2,999	0.6	5	0.3	455	2,539
Motorcycle	2,728	0.5	134	8.9	2,004	590
Moped / goped	390	0.1	5	0.3	298	87
Go-cart / golf cart	39	0.0	1	0.1	16	22
Snowmobile	78	0.0	0	0.0	50	28
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	283	0.1	15	1.0	218	50
Other	2,104	0.4	4	0.3	318	1,782
Truck/bus over 10,000 lbs.	15,539	2.9	113	7.5	2,662	12,764
Unknown	11,632	2.2	14	0.9	1,258	10,360
Total	534,223	100.0	1,509	100.0	102,838	429,876

Michigan Statewide (continued)

5-Year Trend - Crashes by Month

Month	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
January	38,199	39	31,396	61	28,178	58	27,008	72	31,045	49
February	27,420	59	27,083	37	25,927	65	20,713	52	25,934	57
March	24,216	45	21,063	47	23,484	41	25,518	71	23,477	60
April	17,894	67	18,930	55	22,049	85	20,644	72	22,606	67
May	21,278	71	22,747	73	23,807	69	25,153	76	24,446	79
June	22,054	88	23,533	94	24,408	96	25,440	99	25,037	75
July	19,891	90	22,461	111	23,168	88	22,972	91	22,773	83
August	20,424	78	21,271	107	23,561	97	23,197	84	22,737	122
September	22,016	81	23,227	77	25,148	111	24,437	90	23,705	111
October	27,821	67	28,193	79	28,449	99	31,273	74	30,659	75
November	34,134	59	31,088	81	30,430	93	30,563	81	33,418	66
December	23,352	62	26,031	71	33,563	78	38,003	75	26,961	61
Total	298,699	806	297,023	893	312,172	980	314,921	937	312,798	905

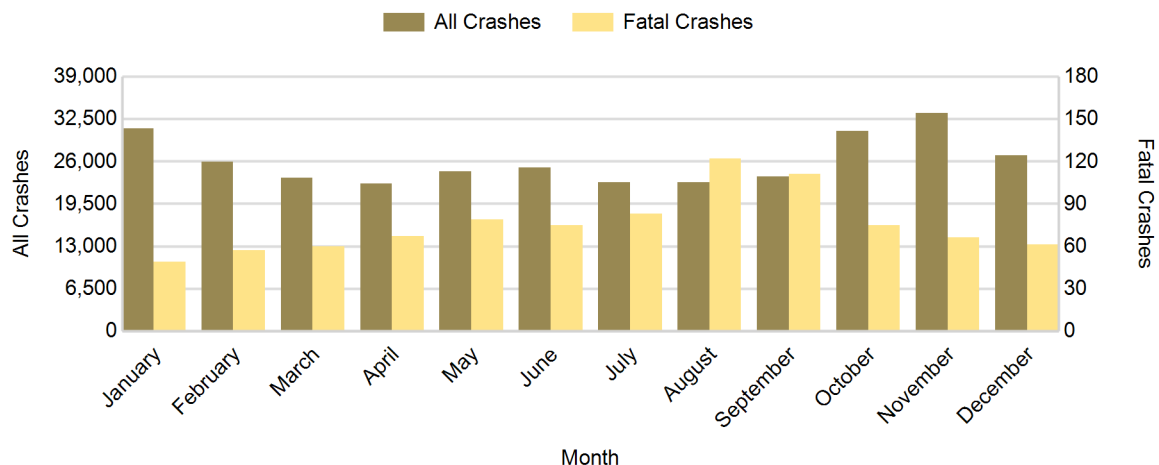
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

5-Year Trend - Crashes by Day of Week

Day	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Monday	41,813	101	43,061	104	44,099	125	46,298	108	47,534	115
Tuesday	45,135	101	44,588	104	46,988	122	47,797	118	48,534	117
Wednesday	48,131	96	46,205	129	49,018	123	48,292	132	47,113	113
Thursday	48,198	105	44,601	113	49,116	135	48,983	146	47,565	111
Friday	49,347 †	111	48,160 †	149	51,930 †	155	51,956 †	147	52,211 †	141
Saturday	36,385	162	39,739	159	38,945	174	39,663	153	38,628	151
Sunday	29,690	130	30,669	135	32,076	146	31,932	133	31,213	157
Total	298,699	806	297,023	893	312,172	980	314,921	937	312,798	905

Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred on the same day of the week

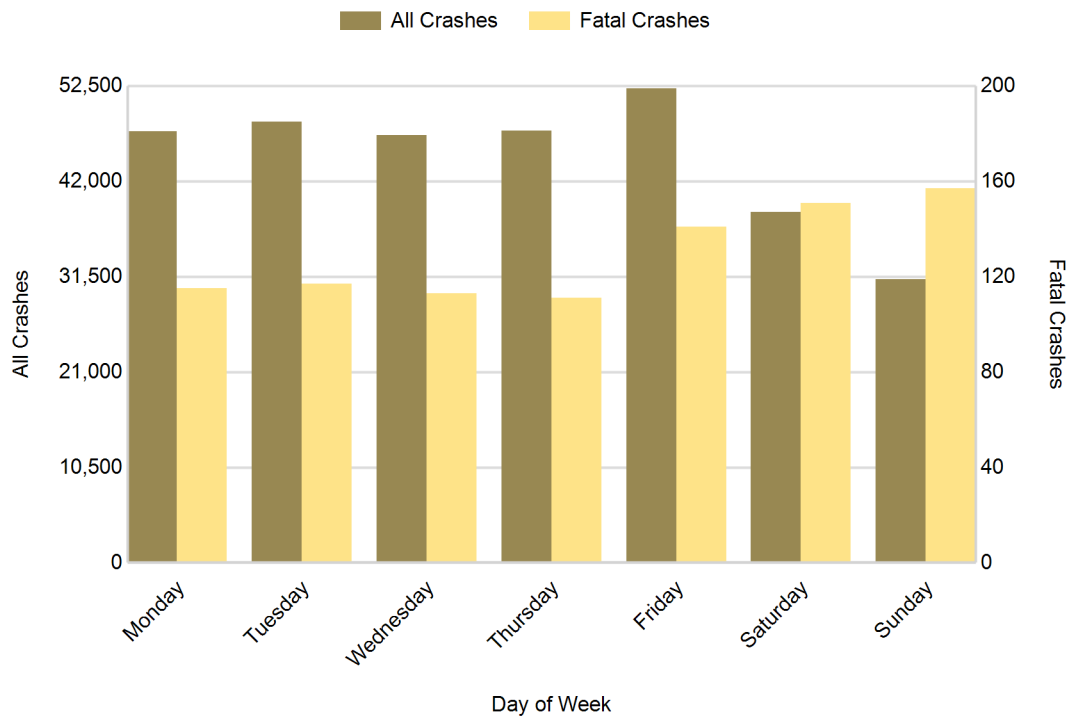
2018 Crashes by Month



2018 - Crashes by Day of Week

Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Monday	47,534	15.2	115	12.7	670	2,301	5,355	39,093
Tuesday	48,534	15.5	117	12.9	648	2,391	5,476	39,902
Wednesday	47,113	15.1	113	12.5	616	2,302	5,064	39,018
Thursday	47,565	15.2	111	12.3	645	2,329	5,339	39,141
Friday	52,211	16.7	141	15.6	698	2,622	5,887	42,863
Saturday	38,628	12.3	151	16.7	710	2,098	4,334	31,335
Sunday	31,213	10.0	157	17.3	673	1,802	3,380	25,201
Total	312,798	100.0	905	100.0	4,660	15,845	34,835	256,553

2018 Day of Week and Severity

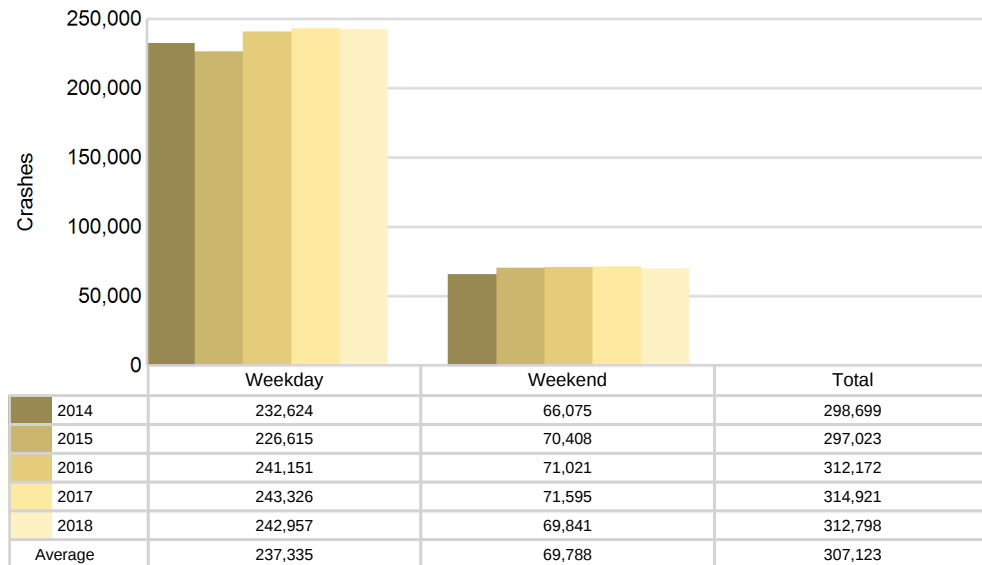


Michigan Statewide (continued)

5-Year Trend - Crashes by Weekday and Weekend

Portion of Week	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Weekday	232,624	514	226,615	599	241,151	660	243,326	651	242,957	597
Weekend	66,075	292	70,408	294	71,021	320	71,595	286	69,841	308
Total	298,699	806	297,023	893	312,172	980	314,921	937	312,798	905

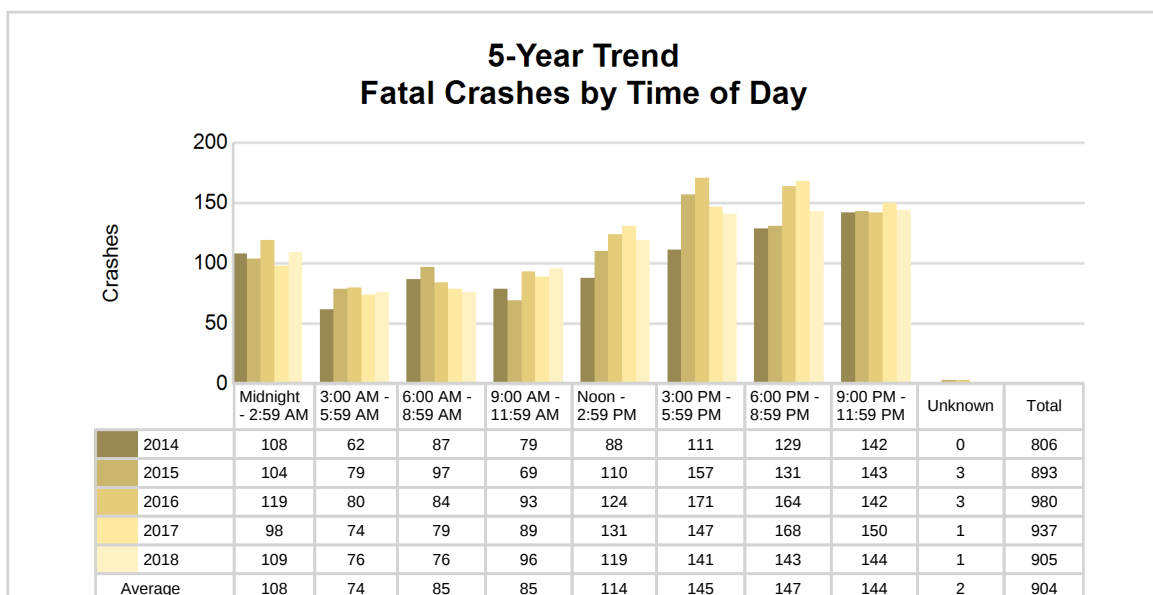
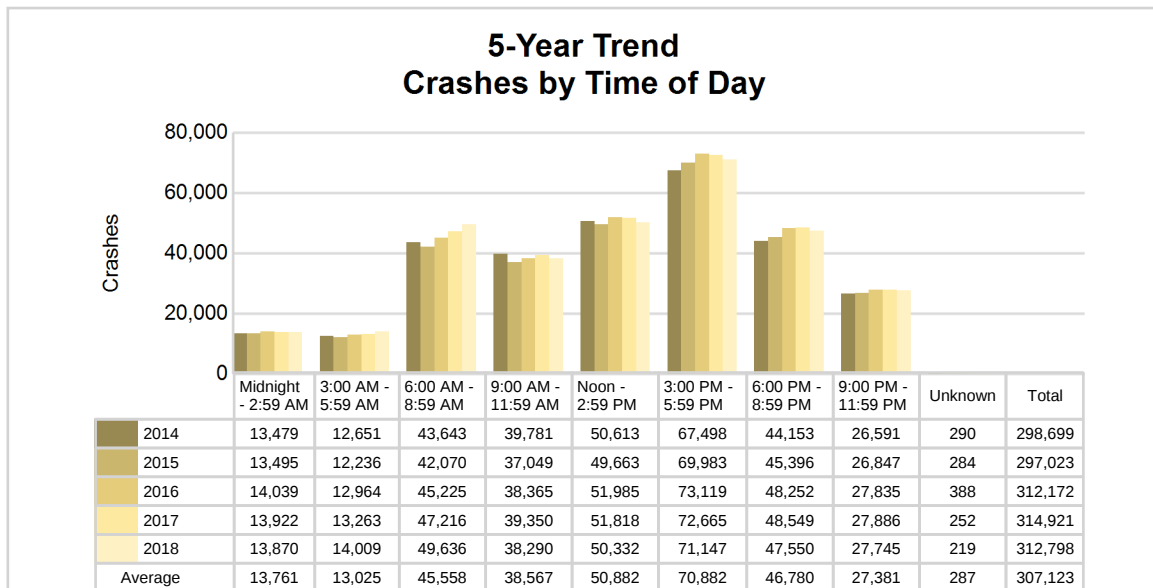
5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



5-Year Trend - Crashes by Time of Day

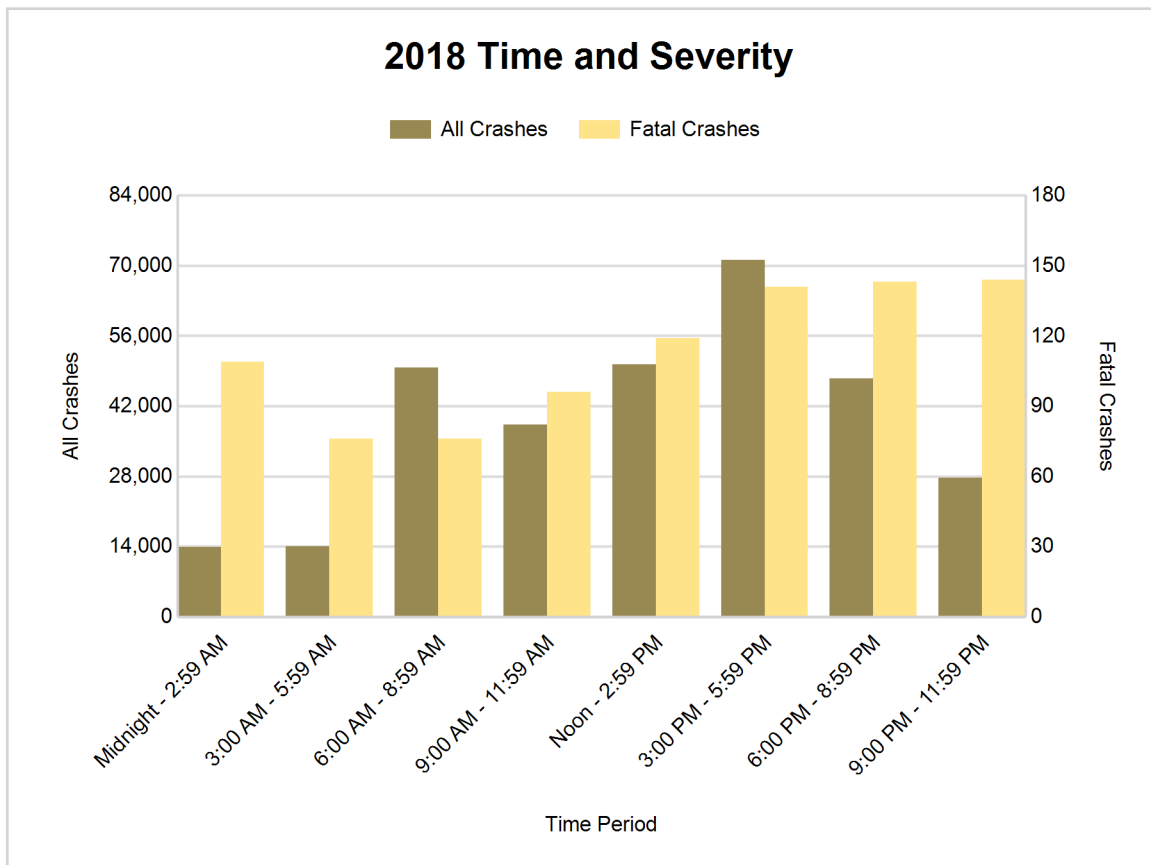
Time of Day	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	13,479	108	13,495	104	14,039	119	13,922	98	13,870	109
3:00 AM - 5:59 AM	12,651	62	12,236	79	12,964	80	13,263	74	14,009	76
6:00 AM - 8:59 AM	43,643	87	42,070	97	45,225	84	47,216	79	49,636	76
9:00 AM - 11:59 AM	39,781	79	37,049	69	38,365	93	39,350	89	38,290	96
Noon - 2:59 PM	50,613	88	49,663	110	51,985	124	51,818	131	50,332	119
3:00 PM - 5:59 PM	67,498 †	111	69,983 †	157	73,119 †	171	72,665 †	147	71,147 †	141
6:00 PM - 8:59 PM	44,153	129	45,396	131	48,252	164	48,549	168	47,550	143
9:00 PM - 11:59 PM	26,591	142	26,847	143	27,835	142	27,886	150	27,745	144
Unknown	290	0	284	3	388	3	252	1	219	1
Total	298,699	806	297,023	893	312,172	980	314,921	937	312,798	905

Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same time period



2018 - Time and Severity

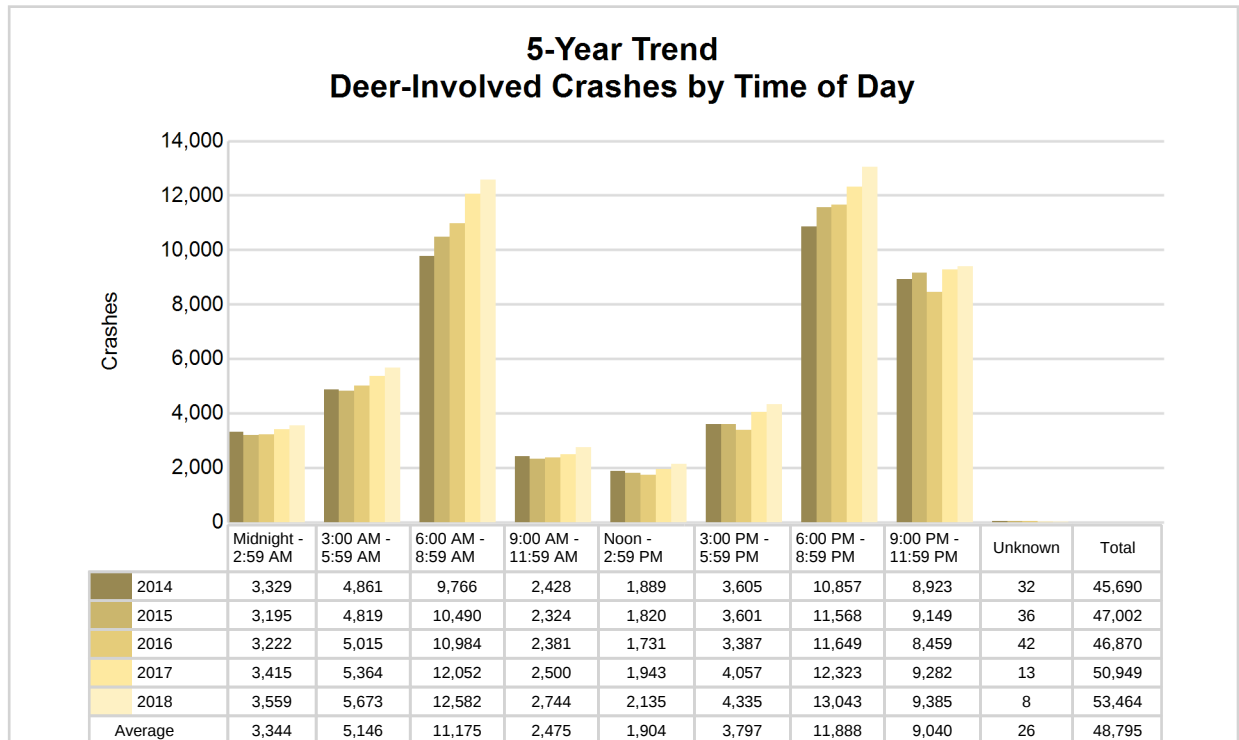
Time of Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Midnight - 2:59 AM	13,870	4.4	109	12.0	358	897	1,456	11,050
3:00 AM - 5:59 AM	14,009	4.5	76	8.4	281	694	1,080	11,878
6:00 AM - 8:59 AM	49,636	15.9	76	8.4	492	1,842	4,670	42,556
9:00 AM - 11:59 AM	38,290	12.2	96	10.6	538	1,911	4,492	31,253
Noon - 2:59 PM	50,332	16.1	119	13.1	730	2,872	6,595	40,016
3:00 PM - 5:59 PM	71,147	22.7	141	15.6	954	3,805	9,093	57,154
6:00 PM - 8:59 PM	47,550	15.2	143	15.8	712	2,412	4,770	39,513
9:00 PM - 11:59 PM	27,745	8.9	144	15.9	592	1,407	2,671	22,931
Unknown	219	0.1	1	0.1	3	5	8	202
Total	312,798	100.0	905	100.0	4,660	15,845	34,835	256,553

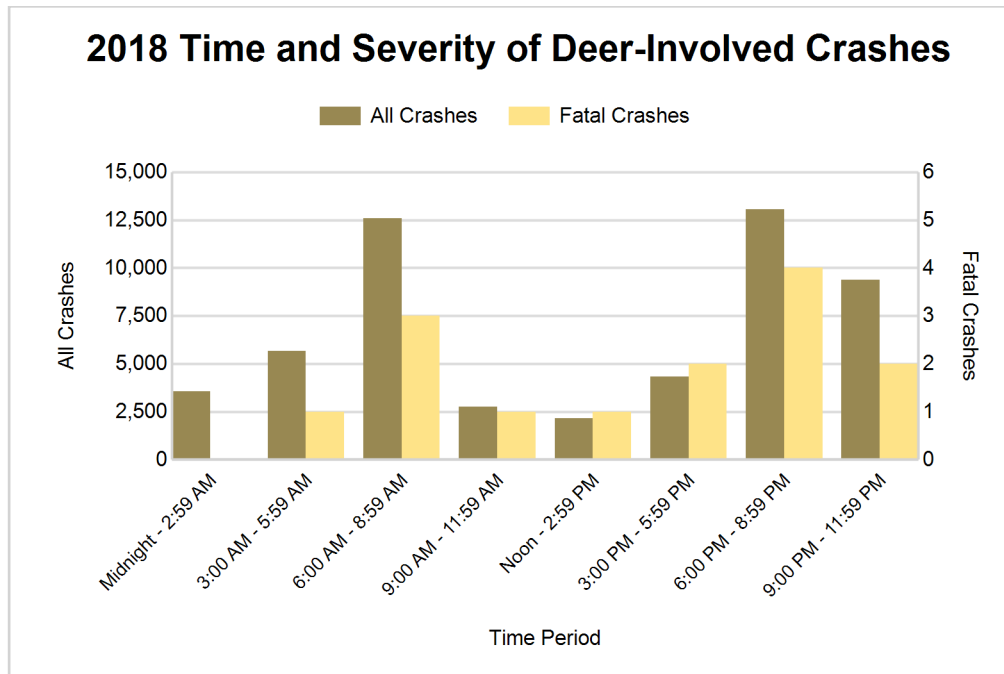


5-Year Trend - Deer-Involved Crashes by Time of Day

Time of Day	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	3,329	1	3,195	3	3,222	1	3,415	4	3,559	0
3:00 AM - 5:59 AM	4,861	0	4,819	1	5,015	0	5,364	1	5,673	1
6:00 AM - 8:59 AM	9,766	0	10,490	2	10,984	1	12,052	1	12,582	3
9:00 AM - 11:59 AM	2,428	0	2,324	0	2,381	0	2,500	0	2,744	1
Noon - 2:59 PM	1,889	1	1,820	0	1,731	1	1,943	1	2,135	1
3:00 PM - 5:59 PM	3,605	1	3,601	1	3,387	2	4,057	2	4,335	2
6:00 PM - 8:59 PM	10,857 †	1	11,568 †	2	11,649 †	2	12,323 †	5	13,043 †	4
9:00 PM - 11:59 PM	8,923	2	9,149	1	8,459	5	9,282	2	9,385	2
Unknown	32	0	36	0	42	0	13	0	8	0
Total	45,690	6	47,002	10	46,870	12	50,949	16	53,464	14

Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same time period

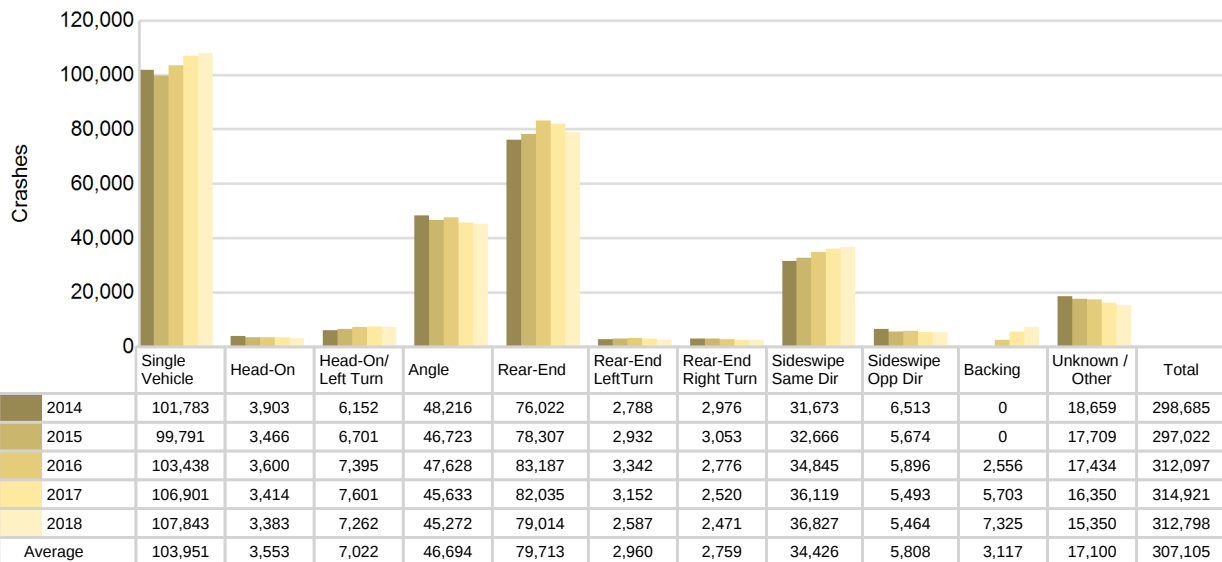




5-Year Trend - Crashes by Crash Type

Crash Type	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Single motor vehicle	101,783	411	99,791	465	103,438	494	106,901	449	107,843	420
Head-on	3,903	119	3,466	103	3,600	115	3,414	100	3,383	99
Head-on / left turn	6,152	25	6,701	28	7,395	50	7,601	33	7,262	34
Angle	48,216	136	46,723	137	47,628	189	45,633	171	45,272	156
Rear-end	76,022	47	78,307	66	83,187	73	82,035	78	79,014	82
Rear-end left turn	2,788	3	2,932	4	3,342	10	3,152	7	2,587	8
Rear-end right turn	2,976	0	3,053	0	2,776	1	2,520	0	2,471	1
Sideswipe same direction	31,673	15	32,666	16	34,845	11	36,119	22	36,827	15
Sideswipe opposite direction	6,513	5	5,674	13	5,896	16	5,493	8	5,464	11
Backing	0	0	0	0	2,556	0	5,703	0	7,325	2
Other / Unknown	18,659	45	17,709	61	17,434	21	16,350	69	15,350	77
Uncoded and Errors	14	0	1	0	75	0	0	0	0	0
Total	298,699	806	297,023	893	312,172	980	314,921	937	312,798	905

5-Year Trend Crashes by Crash Type



2018 - Reported Motor Vehicle Crashes by County

County	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Alcona	587	0	50	537	0	114	138	335	10	7	434	0	66
Alger	316	0	48	268	0	26	166	113	14	1	107	0	66
Allegan	3,794	15	565	3,214	284	594	729	2,184	172	44	1,160	16	764
Alpena	857	1	113	743	0	196	199	461	36	18	367	1	133
Antrim	925	2	105	818	0	199	194	526	28	8	497	2	143
Arenac	770	2	115	653	142	193	89	346	27	3	405	2	155
Baraga	323	2	29	292	0	148	63	111	6	3	193	2	36
Barry	1,581	7	199	1,375	0	0	638	941	46	12	724	8	276
Bay	3,078	11	595	2,472	359	188	959	1,571	135	36	561	11	781
Benzie	645	3	62	580	0	174	117	352	34	14	327	4	85
Berrien	4,641	18	779	3,844	1,020	449	964	2,201	174	34	938	20	1,074
Branch	1,613	3	168	1,442	157	328	105	1,023	34	8	860	3	254
Calhoun	4,480	14	636	3,830	1,122	0	1,171	2,181	136	62	1,104	14	872
Cass	1,517	8	258	1,251	0	190	456	869	73	24	520	9	358
Charlevoix	1,317	1	124	1,192	0	345	265	700	30	9	729	2	162
Cheboygan	1,081	1	129	951	248	58	262	507	22	3	579	1	164
Chippewa	924	4	127	793	216	0	277	422	30	8	338	5	160
Clare	1,121	8	162	951	0	358	212	550	31	16	516	9	229
Clinton	2,487	12	265	2,210	469	361	282	1,371	68	19	1,103	12	381
Crawford	592	2	92	498	181	24	157	227	22	7	288	2	113
Delta	1,237	4	155	1,078	0	484	204	546	35	20	562	4	216
Dickinson	851	2	110	739	0	311	235	303	24	13	457	3	138
Eaton	3,250	17	443	2,790	670	0	1,068	1,507	118	38	989	22	614
Emmet	1,533	3	179	1,351	3	512	155	859	61	16	625	4	238
Genesee	10,547	39	2,294	8,214	2,020	452	1,433	6,638	357	122	1,136	43	3,199
Gladwin	830	2	97	731	0	0	356	474	39	6	487	3	137
Gogebic	258	2	45	211	0	134	17	104	15	2	75	2	66
Grand Traverse	3,665	6	583	3,076	0	1,046	469	2,147	119	33	752	6	844
Gratiot	1,684	3	163	1,518	0	463	267	953	33	10	944	3	244
Hillsdale	1,646	11	190	1,445	0	235	393	1,018	44	19	854	12	267
Houghton	858	3	125	730	0	285	241	326	32	5	171	3	158

Michigan Statewide (continued)

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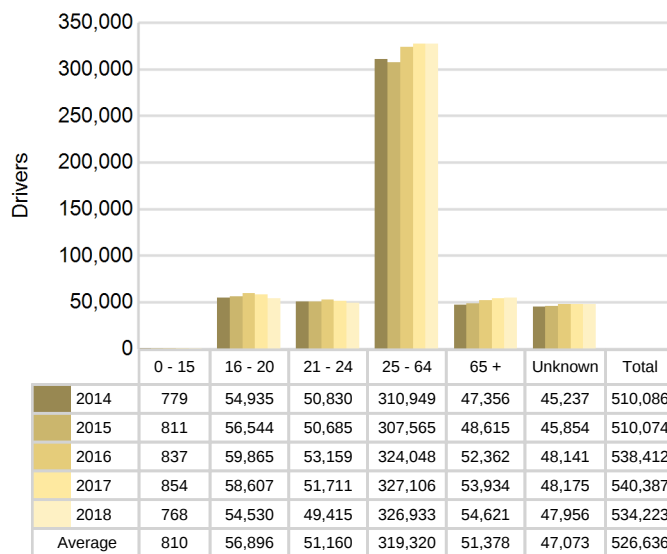
2018 - Reported Motor Vehicle Crashes by County (continued)

County	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Huron	1,521	2	136	1,383	0	0	613	908	33	5	1,029	2	168
Ingham	9,554	14	1,841	7,699	1,985	554	2,092	4,921	259	55	931	15	2,452
Ionia	1,736	5	273	1,458	394	0	543	798	60	24	539	5	363
Iosco	712	6	128	578	0	203	159	350	44	10	266	8	166
Iron	490	0	38	452	0	219	84	186	17	3	346	0	41
Isabella	2,712	6	355	2,351	0	655	384	1,667	68	17	1,094	7	519
Jackson	5,354	15	835	4,504	963	333	877	3,174	188	46	1,537	17	1,148
Kalamazoo	8,333	28	1,492	6,813	1,293	580	1,458	4,996	250	45	1,017	30	1,992
Kalkaska	620	5	83	532	0	136	171	313	21	6	280	5	106
Kent	22,307	61	4,028	18,218	2,585	2,297	4,572	12,833	855	167	1,837	65	5,453
Keweenaw	73	1	13	59	0	31	11	31	6	1	32	1	18
Lake	445	2	75	368	0	100	76	258	20	3	231	2	99
Lapeer	2,884	15	401	2,468	261	0	810	1,811	80	38	1,275	15	563
Leelanau	680	3	77	600	0	0	334	346	38	8	338	4	103
Lenawee	2,402	6	462	1,934	0	532	550	1,318	100	26	684	6	632
Livingston	4,995	12	768	4,215	1,008	732	666	2,584	201	65	842	13	1,024
Luce	181	0	29	152	0	0	99	80	7	1	92	0	36
Mackinac	633	5	53	575	117	195	162	158	18	4	376	5	71
Macomb	25,784	52	5,372	20,360	2,691	0	7,047	16,030	737	208	585	53	7,360
Manistee	969	4	99	866	0	245	213	511	24	8	536	4	134
Marquette	1,729	7	239	1,483	0	530	294	899	62	20	375	7	342
Mason	1,391	7	139	1,245	0	541	43	807	36	7	746	7	187
Mecosta	1,788	3	216	1,569	0	237	686	865	40	10	875	3	280
Menominee	361	1	88	272	0	143	46	172	24	6	80	1	122
Midland	2,755	8	381	2,366	0	405	473	1,877	73	16	949	8	524
Missaukee	697	1	74	622	0	0	237	460	18	3	406	1	104
Monroe	3,707	24	656	3,027	644	770	377	1,915	185	60	413	29	934
Montcalm	2,163	13	343	1,807	0	125	783	1,253	68	12	993	14	498
Montmorency	335	1	34	300	0	0	162	173	13	4	205	1	53
Muskegon	4,899	16	963	3,920	77	1,022	611	3,185	164	57	613	16	1,319
Newaygo	1,530	9	215	1,306	0	0	518	1,010	66	12	728	9	320
Oakland	40,814	53	7,558	33,203	6,973	2,392	7,017	24,395	1,058	279	1,851	54	10,105
Oceana	1,087	1	164	922	0	235	127	725	42	7	562	1	210
Ogemaw	775	4	86	685	120	0	237	413	19	9	411	4	141
Ontonagon	329	1	22	306	0	84	179	63	9	1	216	1	28
Osceola	1,224	3	141	1,080	0	401	177	646	39	8	719	4	177
Oscoda	245	2	30	213	0	0	136	108	7	2	133	2	48
Otsego	919	1	109	809	189	0	270	458	41	14	342	1	151
Ottawa	7,971	23	1,299	6,649	912	923	850	5,279	305	64	1,267	26	1,743
Presque Isle	659	1	41	617	0	122	230	306	15	3	507	1	56
Roscommon	799	3	141	655	125	90	228	352	31	5	310	3	223
Saginaw	5,374	25	989	4,360	574	0	1,873	2,922	193	57	985	26	1,396
St. Clair	3,726	16	657	3,053	799	0	664	2,255	135	36	851	16	931
St. Joseph	1,758	17	291	1,450	0	403	423	926	69	28	574	20	394
Sanilac	1,504	5	136	1,363	0	0	664	840	38	6	1,051	5	183
Schoolcraft	385	1	32	352	0	144	123	115	10	4	254	1	40
Shiawassee	2,179	8	302	1,869	305	0	640	1,232	70	11	970	8	393
Tuscola	1,706	10	232	1,464	0	0	621	1,083	86	22	844	11	322
Van Buren	2,211	10	364	1,837	545	0	491	1,172	93	25	714	12	484
Washtenaw	11,006	25	1,864	9,117	1,614	1,940	1,023	6,423	281	82	1,003	27	2,481
Wayne	54,072	153	11,796	42,123	9,144	3,402	10,083	31,426	1,422	396	413	164	16,578
Wexford	1,307	5	175	1,127	0	370	388	544	43	10	435	6	230
Total	312,798	905	55,340	256,553	40,209	28,958	63,876	179,438	9,786	2,636	53,464	974	75,838

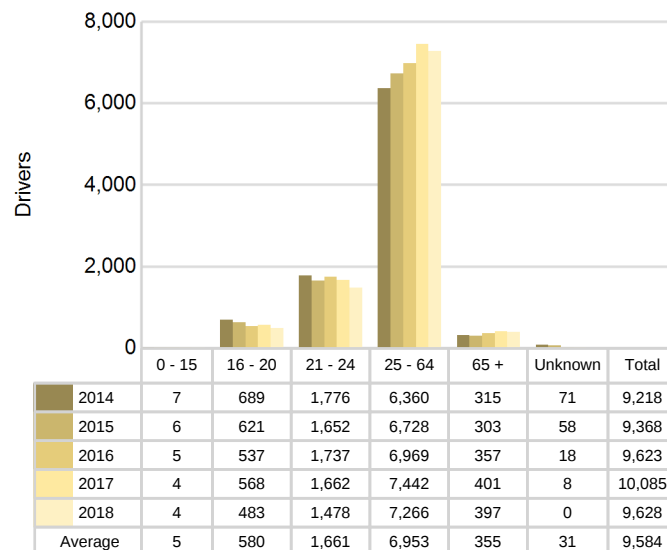
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

Driver Age	2014		2015		2016		2017		2018	
	Total Drivers in Crashes	Total Drivers Coded Drinking	Total Drivers in Crashes	Total Drivers Coded Drinking	Total Drivers in Crashes	Total Drivers Coded Drinking	Total Drivers in Crashes	Total Drivers Coded Drinking	Total Drivers in Crashes	Total Drivers Coded Drinking
0 - 15	779	7	811	6	837	5	854	4	768	4
16 - 20	54,935	689	56,544	621	59,865	537	58,607	568	54,530	483
21 - 24	50,830	1,776	50,685	1,652	53,159	1,737	51,711	1,662	49,415	1,478
25 - 64	310,949	6,360	307,565	6,728	324,048	6,969	327,106	7,442	326,933	7,266
65 +	47,356	315	48,615	303	52,362	357	53,934	401	54,621	397
Unknown	45,237	71	45,854	58	48,141	18	48,175	8	47,956	0
Total	510,086	9,218	510,074	9,368	538,412	9,623	540,387	10,085	534,223	9,628

5-Year Trend
Total Drivers in Crashes by Age



5-Year Trend
Total Drivers Coded Drinking by Age



2018 - Bodily Alcohol Concentration (BAC) Results Among All Vehicle Drivers in Alcohol-Involved Crashes by Age

Age Group	Drivers				BAC Result Range for Drivers Coded Drinking				
	Total Drivers in Alcohol-Involved Crashes	Total Drivers Tested in all Crashes	Total Drivers Coded Drinking, Tested	Total Drivers Coded Drinking	BAC = 0.00	BAC 0.01 g/dL to 0.07 g/dL	BAC 0.08 g/dL to 0.16 g/dL	BAC 0.17 g/dL and Above	BAC Not Reported
0 - 15	14	9	3	4	0	1	2	0	1
16 - 20	820	588	399	483	0	59	148	96	180
21 - 24	1,847	1,497	1,244	1,478	2	131	447	386	512
25 - 64	9,996	7,414	5,996	7,266	12	522	1,641	2,193	2,898
65 +	726	526	357	397	0	67	117	96	117
Unknown	1,224	6	0	0	0	0	0	0	0
Total	14,627	10,040	7,999	9,628	14	780	2,355	2,771	3,708

Notes: BAC measured in grams (g) per deciliter (dL).

BAC may not be reported if drivers are not tested or if the results are not available immediately (as in the case of a blood test).

A driver may be coded by the officer as drinking even though no test is administered.

Alcohol-Involved Crashes

In 2018, there were 14,627 drivers in alcohol-involved crashes; 9,628 (65.8%) of those drivers were coded as had-been-drinking by the officer on the crash form.

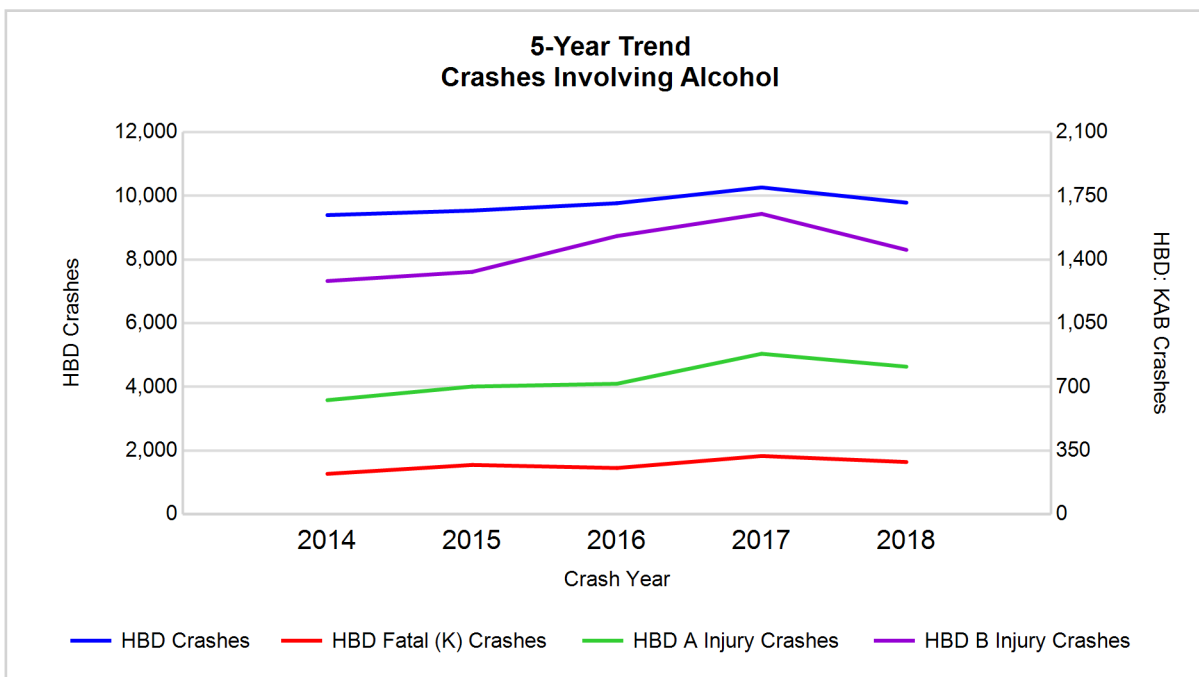
- 5,126 (53.2%) of the 9,628 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 2,771 (54.1%) of the 5,126 drivers had a BAC at or above 0.17 g/dL.
- 7,999 (83.1%) of the 9,628 drivers were coded as had-been-drinking and were tested for alcohol consumption.

5-Year Trend - Crashes Involving Alcohol

Year	All Crashes	HBD Crashes	% HBD	Fatal Crashes	HBD Fatal Crashes	% HBD	A Injury Crashes	HBD A Injury Crashes	% HBD	B Injury Crashes	HBD B Injury Crashes	% HBD
2014	298,699	9,396	3.1	806	222	27.5	4,045	627	15.5	12,910	1,282	9.9
2015	297,023	9,537	3.2	893	271	30.3	3,939	702	17.8	13,332	1,332	10.0
2016	312,172	9,769	3.1	980	254	25.9	4,565	717	15.7	15,561	1,529	9.8
2017	314,921	10,265	3.3	937	320	34.2	5,035	882	17.5	16,356	1,651	10.1
2018	312,798	9,786	3.1	905	287	31.7	4,660	811	17.4	15,845	1,453	9.2*

Note: * Indicates that the most recent year is the lowest number or percentage reported in the 5-year period in that column

** Indicates that the most recent year is the highest number or percentage reported in the 5-year period in that column



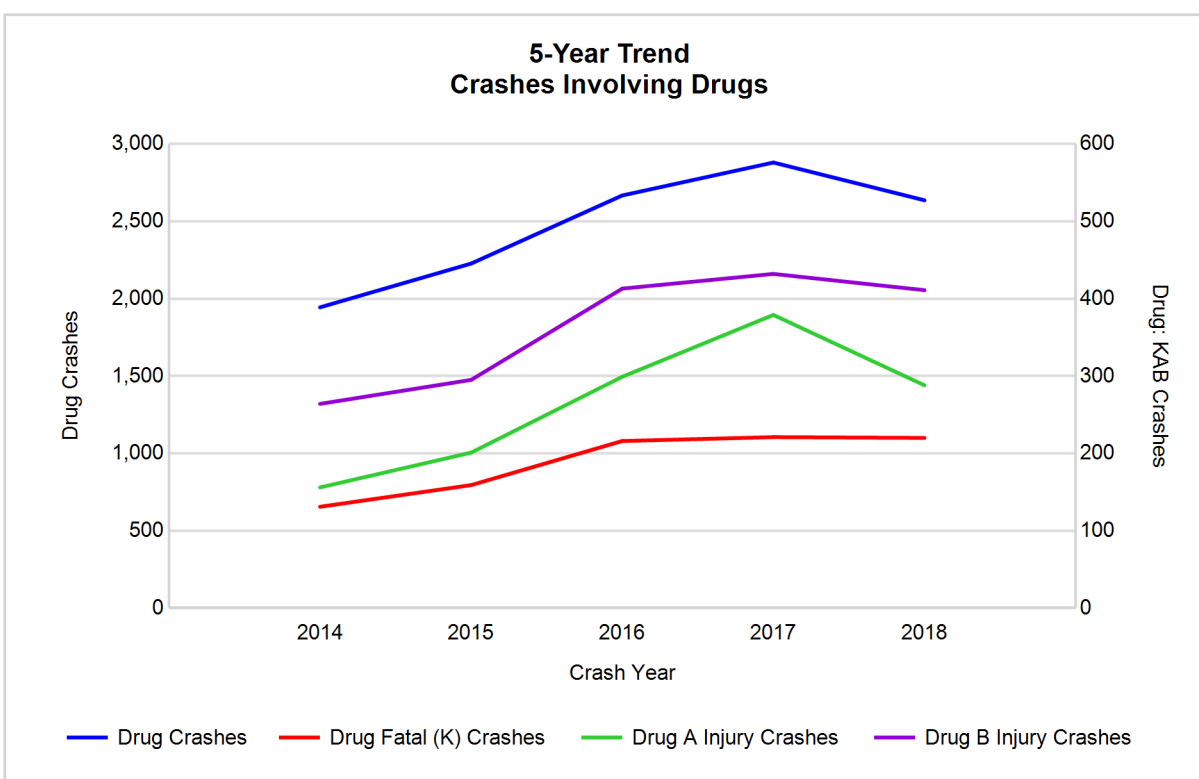
Note: Had-Been-Drinking (HBD)

5-Year Trend - Crashes Involving Drugs

Year	All Crashes	Drug Crashes	% Drug	Fatal Crashes	Drug Fatal Crashes	% Drug	A Injury Crashes	Drug A Injury Crashes	% Drug	B Injury Crashes	Drug B Injury Crashes	% Drug
2014	298,699	1,944	0.7	806	131	16.3	4,045	156	3.9	12,910	264	2.0
2015	297,023	2,227	0.7	893	159	17.8	3,939	201	5.1	13,332	295	2.2
2016	312,172	2,667	0.9	980	216	22.0	4,565	299	6.5	15,561	413	2.7
2017	314,921	2,880	0.9	937	221	23.6	5,035	379	7.5	16,356	432	2.6
2018	312,798	2,636	0.8	905	220	24.3**	4,660	288	6.2	15,845	411	2.6

Note: * Indicates that the most recent year is the lowest number or percentage reported in the 5-year period in that column

** Indicates that the most recent year is the highest number or percentage reported in the 5-year period in that column

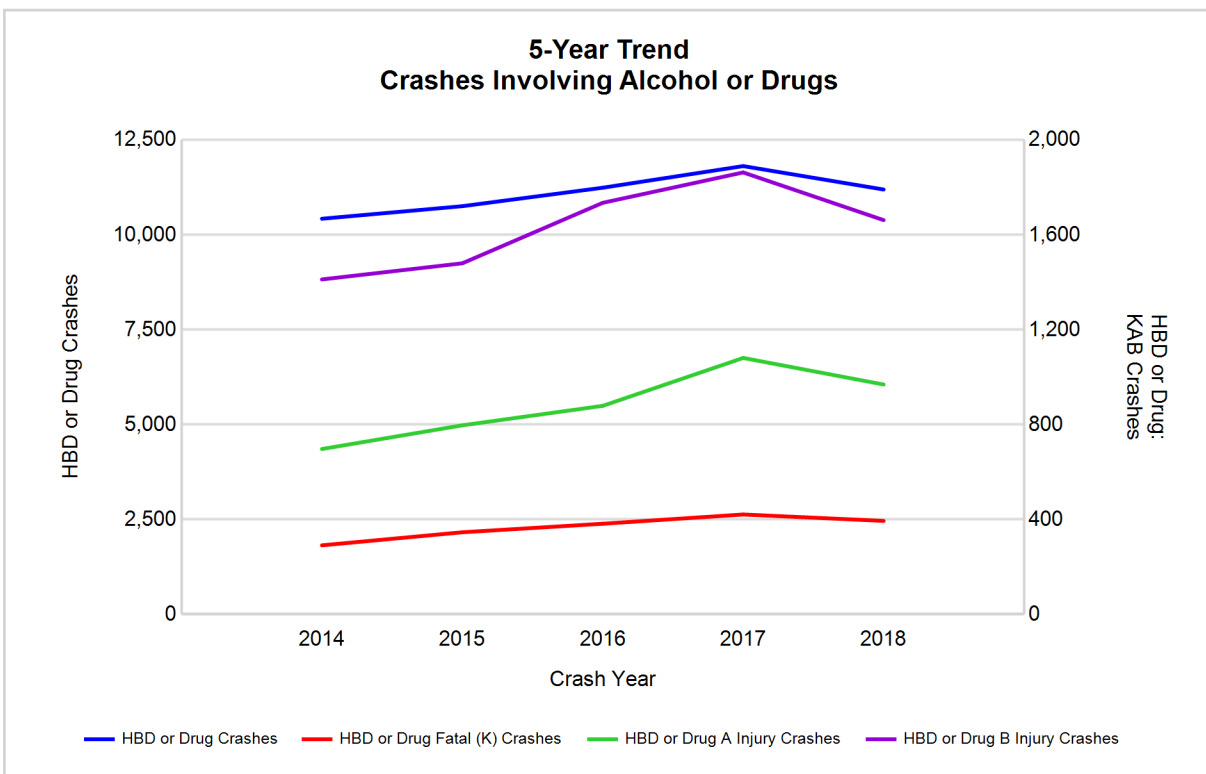


5-Year Trend - Crashes Involving Alcohol or Drugs

Year	All Crashes	HBD or Drug Crashes	% HBD or Drug	Fatal Crashes	HBD or Drug Fatal Crashes	% HBD or Drug	A Injury Crashes	HBD or Drug A Injury Crashes	% HBD or Drug	B Injury Crashes	HBD or Drug B Injury Crashes	% HBD or Drug
2014	298,699	10,424	3.5	806	291	36.1	4,045	697	17.2	12,910	1,412	10.9
2015	297,023	10,755	3.6	893	346	38.7	3,939	797	20.2	13,332	1,480	11.1
2016	312,172	11,241	3.6	980	382	39.0	4,565	879	19.3	15,561	1,735	11.1
2017	314,921	11,811	3.8	937	421	44.9	5,035	1,081	21.5	16,356	1,863	11.4
2018	312,798	11,194	3.6	905	394	43.5	4,660	969	20.8	15,845	1,662	10.5*

Note: * Indicates that the most recent year is the lowest number or percentage reported in the 5-year period in that column

** Indicates that the most recent year is the highest number or percentage reported in the 5-year period in that column



Note: Had-Been-Drinking (HBD)

2018 - Restraints Worn Among Vehicle Drivers and Injured Passengers by Vehicle Type

Vehicle Type	Total Occupants			Fatalities			A - Suspected Serious			B - Suspected Minor			C - Possible Injury			No Injury		
	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%
Passenger car, SUV, van	453,819	399,553	88.0	557	325	58.3	3,577	2,726	76.2	15,148	13,592	89.7	43,732	40,556	92.7	358,632	342,255	95.4
Motor home	1,466	1,286	87.7	2	2	100.0	9	6	66.7	50	42	84.0	99	92	92.9	1,218	1,144	93.9
Pickup truck	60,181	53,599	89.1	78	25	32.1	505	332	65.7	1,664	1,449	87.1	3,809	3,510	92.2	50,195	48,255	96.1
Small truck under 10,000 lbs. GVWR	3,051	2,599	85.2	1	0	0.0	13	9	69.2	65	54	83.1	148	134	90.5	2,544	2,401	94.4
Motorcycle	2,967	1,880	63.4	134	78	58.2	659	387	58.7	1,005	658	65.5	496	350	70.6	593	407	68.6
Moped / goped	408	102	25.0	5	0	0.0	58	16	27.6	161	43	26.7	90	26	28.9	68	17	25.0
Go-cart / golf cart	49	12	24.5	1	0	0.0	4	0	0.0	15	1	6.7	4	3	75.0	17	8	47.1
Snowmobile	81	79	97.5	0	0	0.0	20	20	100.0	15	15	100.0	15	15	100.0	31	29	93.5
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	348	120	34.5	15	8	53.3	97	32	33.0	95	34	35.8	66	27	40.9	65	19	29.2
Other	2,139	1,291	60.4	3	0	0.0	12	4	33.3	44	26	59.1	90	43	47.8	1,585	1,218	76.8
Truck/bus over 10,000 lbs.	15,946	14,213	89.1	12	5	41.7	74	49	66.2	288	184	63.9	667	427	64.0	14,152	13,544	95.7
Unknown	11,647	24	0.2	0	0	0.0	4	0	0.0	8	7	87.5	9	1	11.1	161	14	8.7
Total	552,102	474,758	86.0	808	443	54.8	5,032	3,581	71.2	18,558	16,105	86.8	49,225	45,184	91.8	429,261	409,311	95.4

Note: Restraint Use includes shoulder belt only used, lap belt only used, both lap and shoulder belts used, child restraint used, restraint failure, and helmet worn.

2018 - Restraints Worn Among Vehicle Drivers and Injured Passengers by Age

Age Group	Total Occupants			Fatalities			A - Suspected Serious			B - Suspected Minor			C - Possible Injury			No Injury		
	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%
0 - 15	5,293	4,465	84.4	23	14	60.9	162	95	58.6	950	725	76.3	3,522	3,097	87.9	620	534	86.1
16 - 20	57,113	54,108	94.7	58	29	50.0	561	375	66.8	2,429	2,131	87.7	5,616	5,122	91.2	48,218	46,436	96.3
21 - 24	50,862	47,521	93.4	85	40	47.1	494	312	63.2	1,996	1,681	84.2	4,544	4,123	90.7	43,491	41,359	95.1
25 - 64	334,393	314,538	94.1	469	232	49.5	3,231	2,302	71.2	10,799	9,327	86.4	29,855	27,419	91.8	288,190	275,164	95.5
65 +	56,477	54,101	95.8	173	128	74.0	582	497	85.4	2,380	2,241	94.2	5,655	5,415	95.8	47,456	45,802	96.5
Unknown	47,964	25	0.1	0	0	0.0	2	0	0.0	4	0	0.0	33	8	24.2	1,286	16	1.2
Total	552,102	474,758	86.0	808	443	54.8	5,032	3,581	71.2	18,558	16,105	86.8	49,225	45,184	91.8	429,261	409,311	95.4

Note: Restraint Use includes shoulder belt only used, lap belt only used, both lap and shoulder belts used, child restraint used, restraint failure, and helmet worn.

5-Year Trend - Restraint Use Among Drivers

Restraint Use	2014			2015			2016			2017			2018		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	1,974	8	263	1,936	10	275	1,186	5	169	831	5	177	694	5	112
Shoulder belt only used	964	1	101	925	0	100	2,001	2	249	2,205	2	296	1,814	1	253
Lap belt only used	1,657	3	178	1,737	6	173	1,344	1	164	1,033	2	118	854	3	130
Both lap & shoulder belts used	439,913	229	44,467	438,392	234	45,769	462,130	265	50,197	461,132	286	49,557	455,080	268	48,208
No belts used	3,321	133	1,157	3,402	142	1,195	3,289	140	1,276	2,951	145	1,263	2,697	143	1,196
Child restraint used	10	0	1	16	0	1	49	0	6	37	0	3	10	0	3
Child restraint not used, unavailable or improper use	22	0	1	16	0	3	6	0	0	0	0	0	0	0	0
Restraint failure	152	1	20	153	1	14	147	1	22	141	0	34	97	0	13
Restraint use unknown	31,315	52	1,722	31,010	54	2,017	49,590	83	2,077	61,069	75	2,503	62,917	77	2,740
Helmet worn	2,418	56	1,707	2,395	73	1,679	2,413	70	1,777	2,175	72	1,537	2,010	77	1,464
Helmet not worn	1,085	47	812	1,249	63	904	1,543	79	1,034	1,181	69	890	1,135	53	872
Helmet use unknown	261	10	116	293	10	128	294	12	153	203	11	111	196	6	119
Uncoded & errors	26,994	0	58	28,550	0	43	14,420	0	26	7,429	0	2	6,719	0	1
Total	510,086	540	50,603	510,074	593	52,301	538,412	658	57,150	540,387	667	56,491	534,223	633	55,111

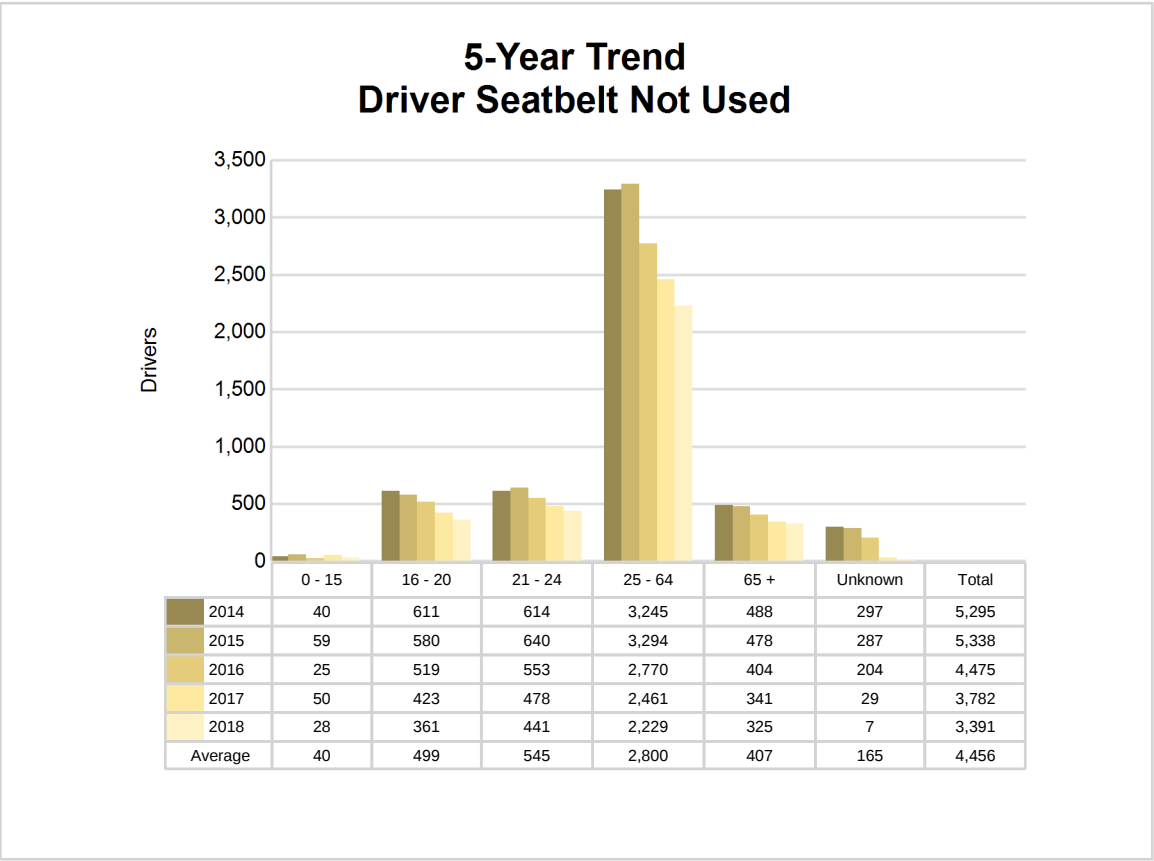
5-Year Trend - Restraint Use Among Drivers Coded Drinking

Restraint Use	2014			2015			2016			2017			2018		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	61	1	16	55	3	25	31	1	13	25	0	14	24	1	9
Shoulder belt only used	20	1	7	25	0	6	56	1	8	40	1	19	32	0	8
Lap belt only used	34	0	11	41	4	13	21	0	7	16	0	4	11	1	4
Both lap & shoulder belts used	6,795	35	1,632	6,897	37	1,723	7,086	29	1,973	7,287	55	2,019	6,984	41	1,937
No belts used	563	44	355	580	55	345	568	56	344	579	69	363	522	55	331
Child restraint used	0	0	0	0	0	0	1	0	0	3	0	0	0	0	0
Child restraint not used, unavailable or improper use	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Restraint failure	13	0	2	11	0	1	8	1	4	1	0	0	5	0	2
Restraint use unknown	1,418	15	373	1,434	15	412	1,509	21	417	1,818	29	510	1,773	32	521
Helmet worn	103	12	73	107	14	81	104	9	86	96	14	72	100	14	74
Helmet not worn	156	14	127	174	30	124	212	25	165	196	26	158	159	23	123
Helmet use unknown	18	2	12	18	2	13	15	3	11	19	5	11	16	0	11
Uncoded & errors	34	0	2	26	0	2	11	0	2	5	0	0	2	0	0
Total	9,218	124	2,610	9,368	160	2,745	9,623	146	3,030	10,085	199	3,170	9,628	167	3,020

5-Year Trend - Seatbelt Not Used Among Drivers by Age

Age Group	2014			2015			2016			2017			2018		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
0 - 15	40	1	8	59	1	20	25	0	9	50	0	24	28	0	9
16 - 20	611	18	198	580	13	194	519	14	208	423	12	191	361	12	164
21 - 24	614	18	203	640	15	214	553	16	217	478	30	216	441	18	202
25 - 64	3,245	80	883	3,294	95	915	2,770	81	883	2,461	88	902	2,229	95	852
65 +	488	24	114	478	28	117	404	34	125	341	20	107	325	23	81
Unknown	297	0	14	287	0	10	204	0	3	29	0	0	7	0	0
Total	5,295	141	1,420	5,338	152	1,470	4,475	145	1,445	3,782	150	1,440	3,391	148	1,308

Note: Seatbelt Not Used includes no belts available or no belts used.

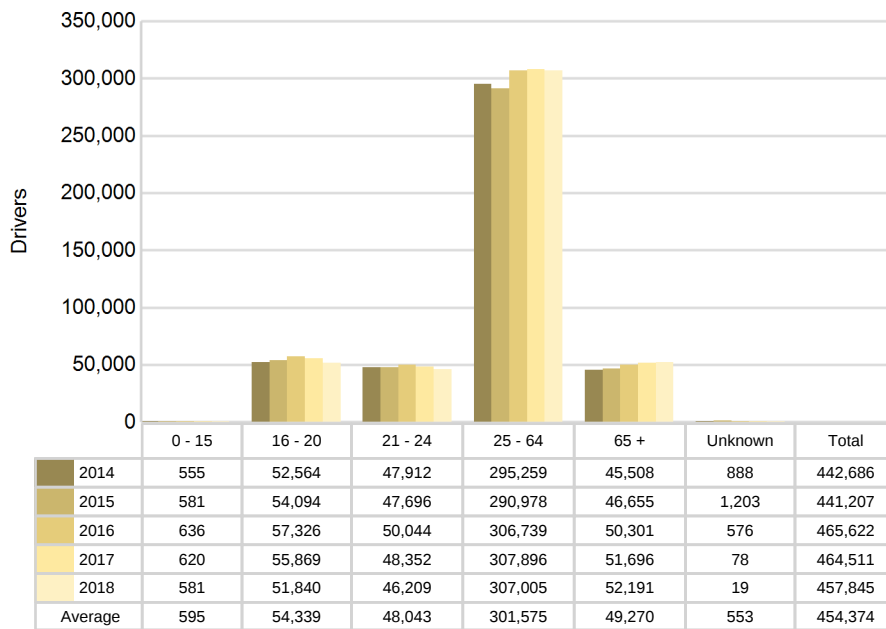


5-Year Trend - Seatbelt Used Among Drivers by Age

Age Group	2014			2015			2016			2017			2018		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
0 - 15	555	1	55	581	0	69	636	1	65	620	0	70	581	1	56
16 - 20	52,564	18	5,166	54,094	32	5,632	57,326	27	6,052	55,869	23	5,923	51,840	20	5,416
21 - 24	47,912	25	4,974	47,696	25	4,843	50,044	20	5,499	48,352	21	5,217	46,209	25	4,876
25 - 64	295,259	120	29,413	290,978	122	30,026	306,739	149	32,911	307,896	161	32,583	307,005	147	31,912
65 +	45,508	70	5,134	46,655	62	5,476	50,301	72	6,098	51,696	85	6,208	52,191	79	6,342
Unknown	888	0	24	1,203	0	10	576	0	7	78	0	4	19	0	2
Total	442,686	234	44,766	441,207	241	46,056	465,622	269	50,632	464,511	290	50,005	457,845	272	48,604

Note: Seatbelt Used includes shoulder belt only used, lap belt only used, both lap and shoulder belts used, and restraint failure.

5-Year Trend Driver Seatbelt Used



5-Year Trend - Drivers in Crashes by Hazardous Action

Hazardous Action	2014		2015		2016		2017		2018	
	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes
None	260,864	512	265,050	625	273,444	678	273,468	671	271,102	626
Speed too fast	37,714	160	29,896	195	32,052	194	31,143	161	31,239	182
Speed too slow	379	1	390	5	331	1	254	3	269	3
Failed to yield	43,800	87	44,058	93	46,694	108	46,812	102	46,846	100
Disregard traffic control	9,591	52	10,360	57	10,743	84	10,291	67	10,395	66
Drove wrong way	454	16	478	2	427	9	374	13	404	6
Drove left of center	2,532	62	2,431	56	2,561	55	2,446	58	2,456	60
Improper passing	2,560	6	2,515	8	2,676	11	2,779	8	2,853	7
Improper lane use	10,588	11	11,637	13	12,882	14	13,364	12	13,594	8
Improper turn	4,706	6	5,132	6	5,222	6	5,332	10	5,203	3
Improper/no signal	777	2	754	1	541	0	477	0	450	0
Improper backing	8,169	3	7,962	2	8,067	1	7,429	1	7,453	1
Unable to stop in assured clear distance	69,786	32	71,810	56	77,280	46	75,830	52	72,568	59
Other	17,750	80	16,823	79	17,270	78	17,012	67	16,814	70
Unknown	19,044	133	18,734	134	25,176	141	31,663	139	32,305	155
Reckless driving	2,393	44	2,667	47	2,663	56	2,564	73	2,291	64
Careless/negligent driving	12,470	65	13,739	97	13,883	78	12,775	81	11,998	91
Uncoded & errors	6,509	8	5,638	3	6,500	10	6,374	12	5,983	8
Total	510,086	1,280	510,074	1,479	538,412	1,570	540,387	1,530	534,223	1,509



The picture above represents all 2018 alcohol-involved fatal crashes in Michigan.

In 2018, there were 9,786 alcohol-involved crashes in Michigan:

- 287 K - Fatal Crashes
- 811 A - Suspected Serious Injury Crashes
- 1,453 B - Suspected Minor Injury Crashes
- 1,637 C - Possible Injury Crashes
- 5,598 O - Property Damage Only/No Injury Crashes

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