



2018

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

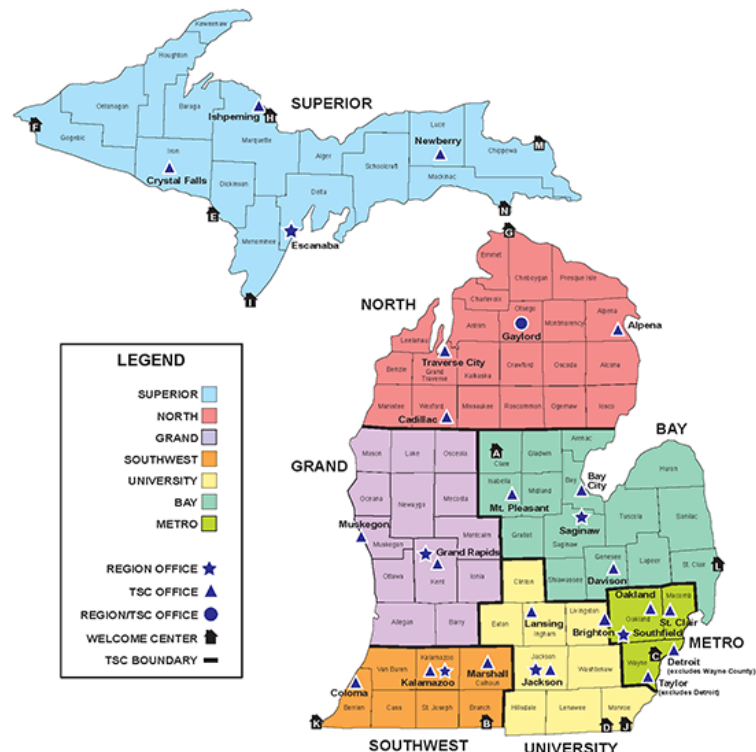
C = Possible Injury

O = No Injury

Property Damage Only (PDO)



Michigan Statewide MDOT Region 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

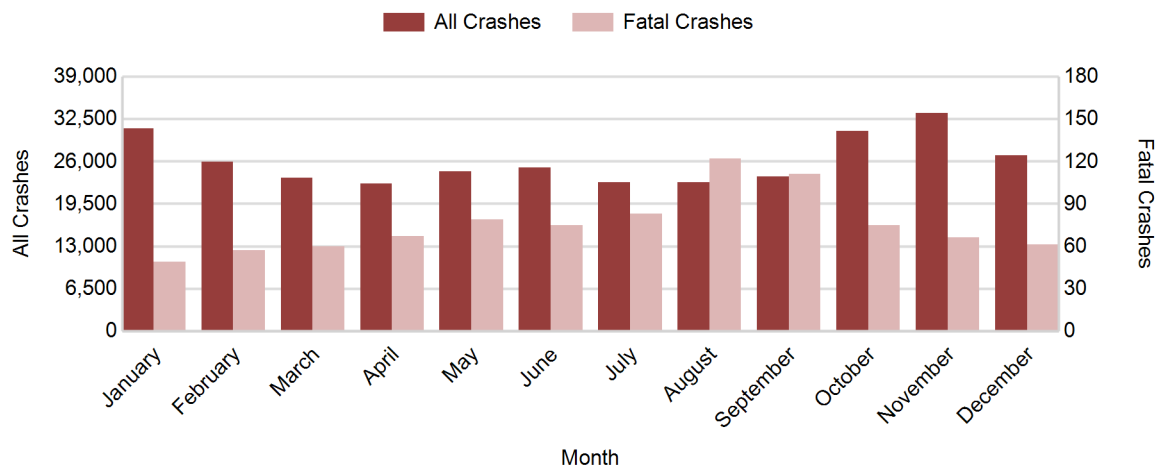
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

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 in the same month

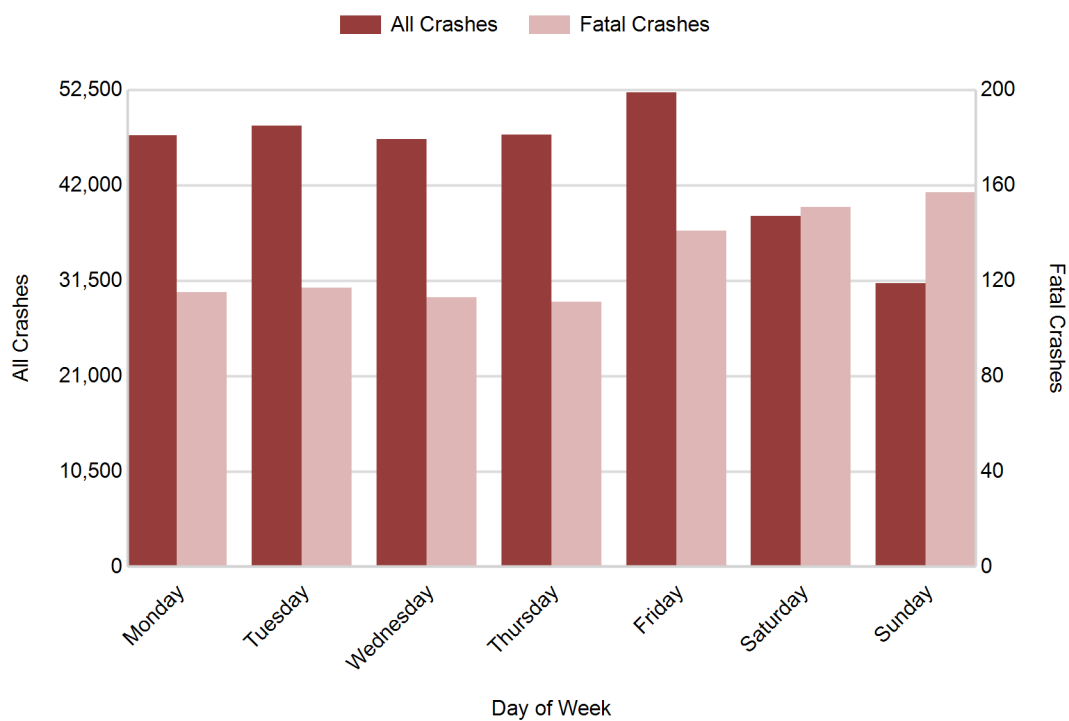
2018 Crashes by Month



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

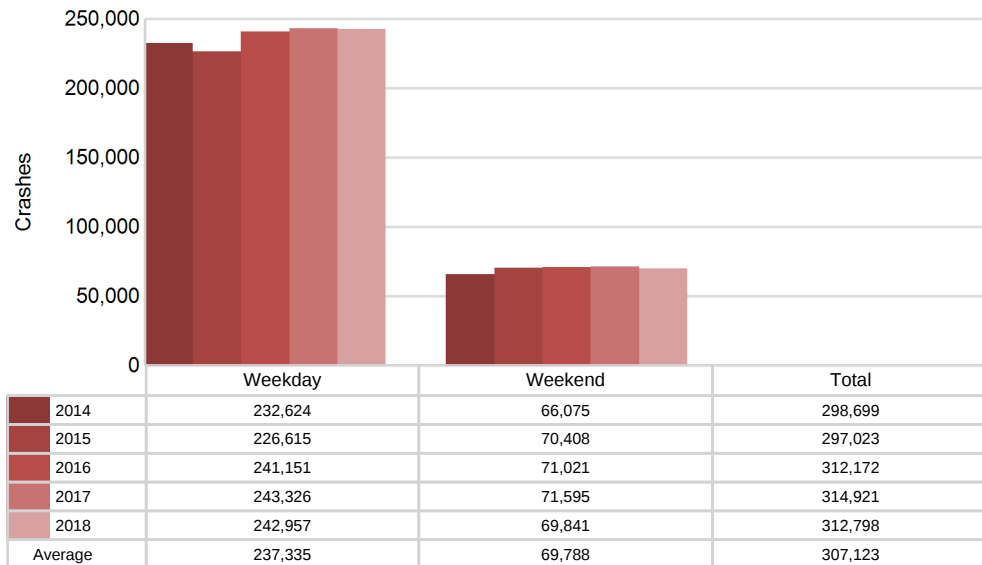


Michigan Statewide (continued)

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

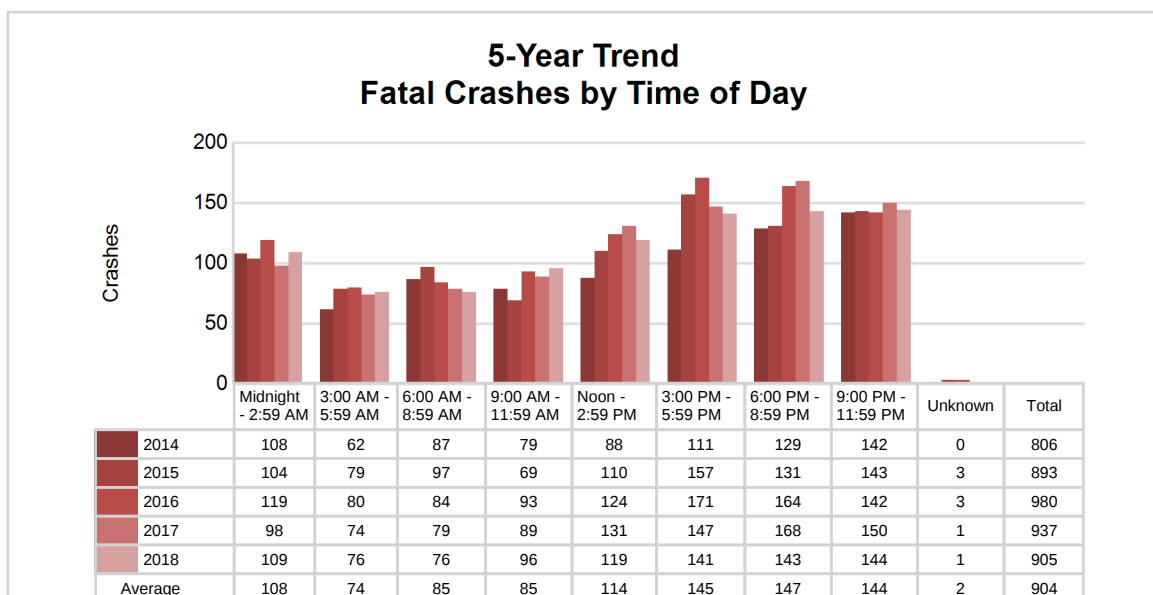
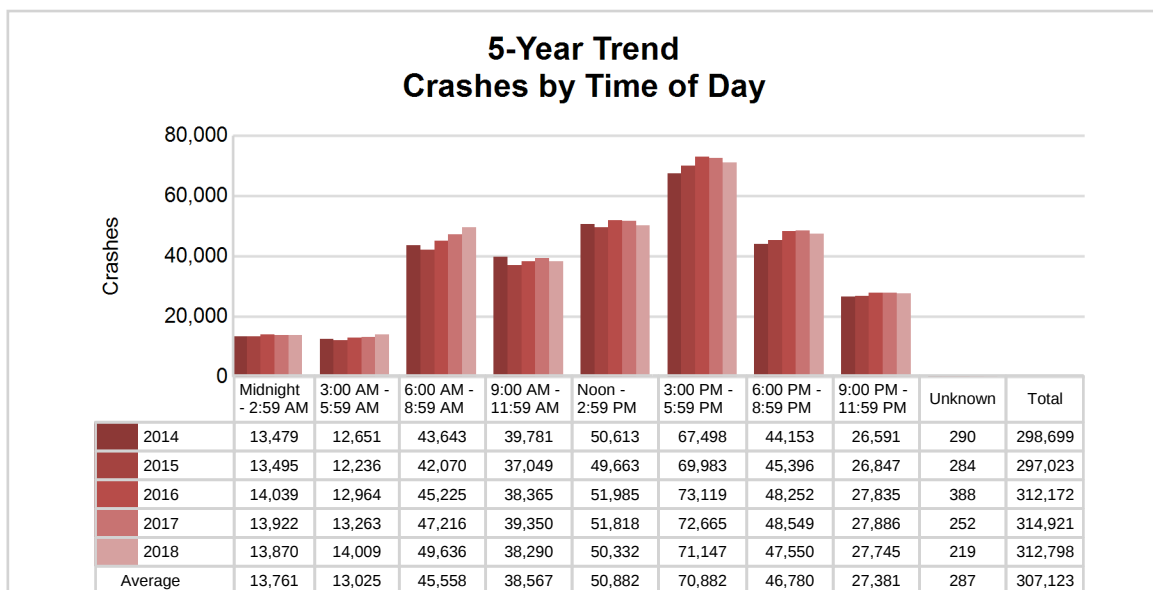
5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



5-Year Trend - Crashes by Time of Day

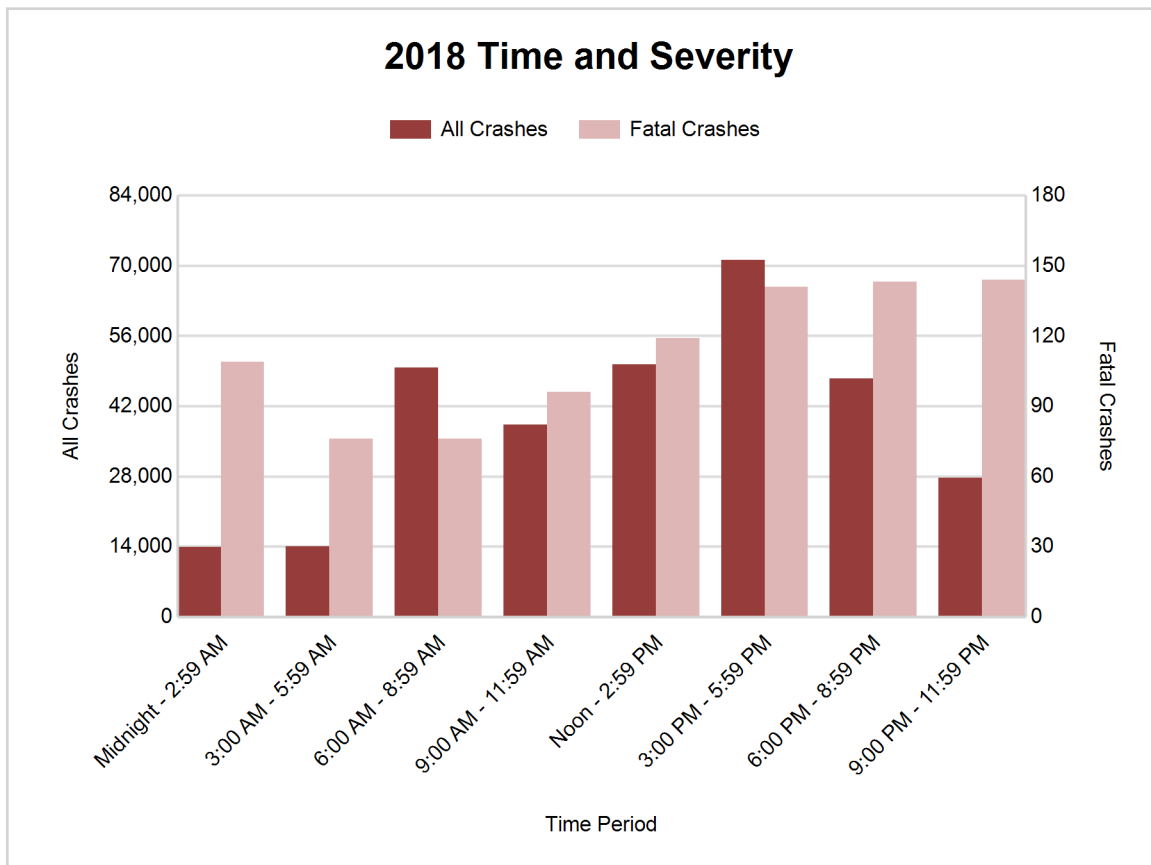
Time of Day	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	13,479	108	13,495	104	14,039	119	13,922	98	13,870	109
3:00 AM - 5:59 AM	12,651	62	12,236	79	12,964	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

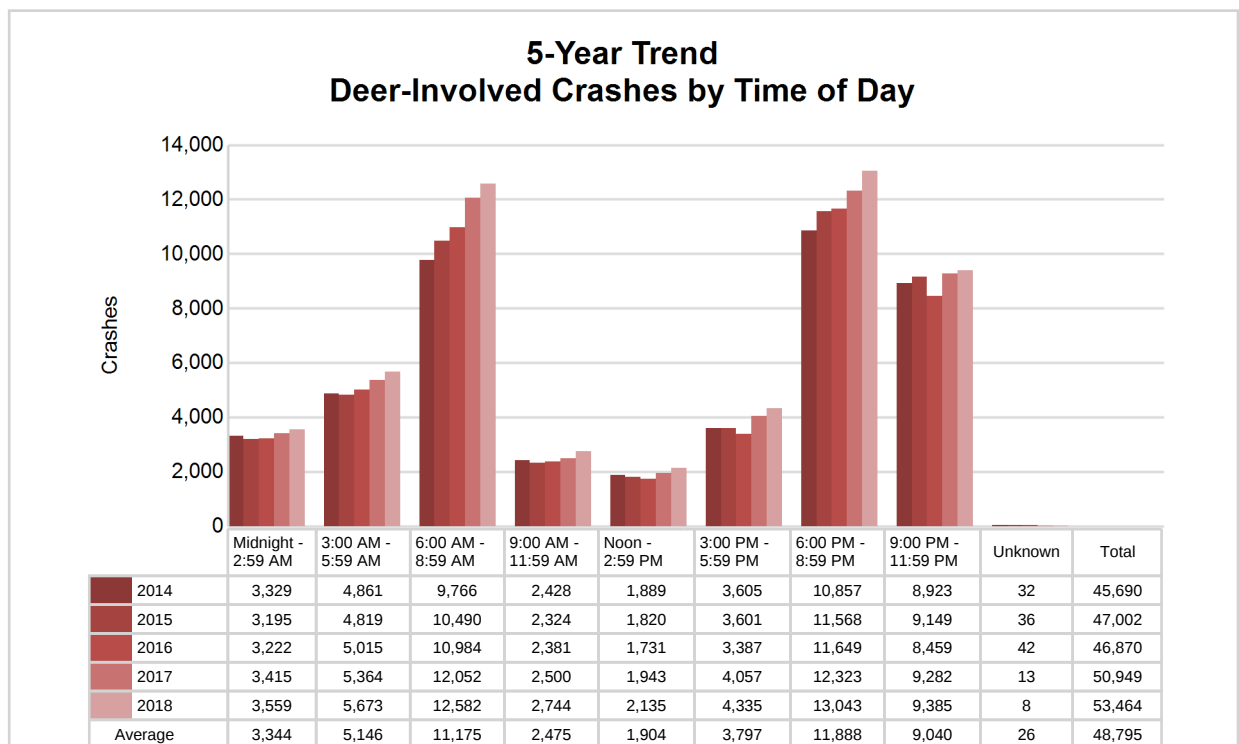
Time of Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Midnight - 2:59 AM	13,870	4.4	109	12.0	358	897	1,456	11,050
3:00 AM - 5:59 AM	14,009	4.5	76	8.4	281	694	1,080	11,878
6:00 AM - 8:59 AM	49,636	15.9	76	8.4	492	1,842	4,670	42,556
9:00 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

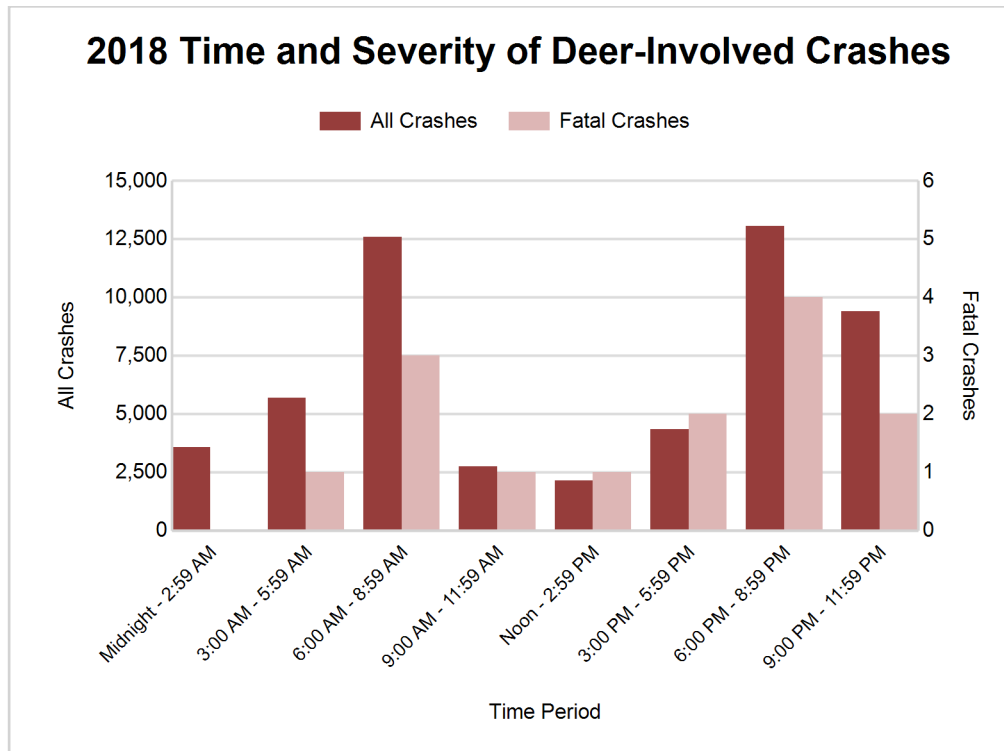


5-Year Trend - Deer-Involved Crashes by Time of Day

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



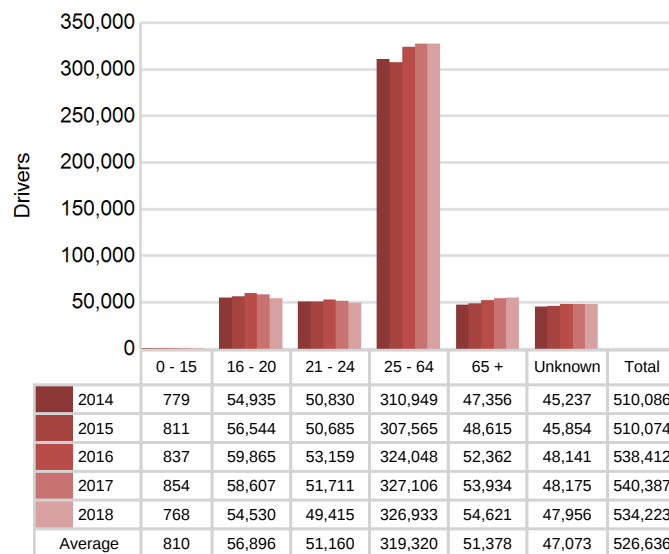
2018 - Reported Motor Vehicle Crashes by MDOT Region

MDOT Region	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
MDOT Region 1 - Bay	42,391	160	7,015	35,216	4,460	2,714	10,058	25,127	1,398	401	13,097	169	9,744
MDOT Region 2 - Grand	51,916	165	8,620	43,131	4,252	6,475	10,353	30,784	1,913	427	10,994	176	11,689
MDOT Region 3 - Metro	120,670	258	24,726	95,686	18,808	5,794	24,147	71,851	3,217	883	2,849	271	34,043
MDOT Region 4 - North	19,919	55	2,514	17,350	866	3,834	4,721	10,448	676	197	8,767	62	3,463
MDOT Region 5 - Southwest	24,553	98	3,988	20,467	4,137	1,950	5,068	13,368	829	226	5,727	108	5,428
MDOT Region 6 - Superior	8,948	33	1,153	7,762	333	2,734	2,201	3,629	309	92	3,674	35	1,538
MDOT Region 7 - University	44,401	136	7,324	36,941	7,353	5,457	7,328	24,231	1,444	410	8,356	153	9,933
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

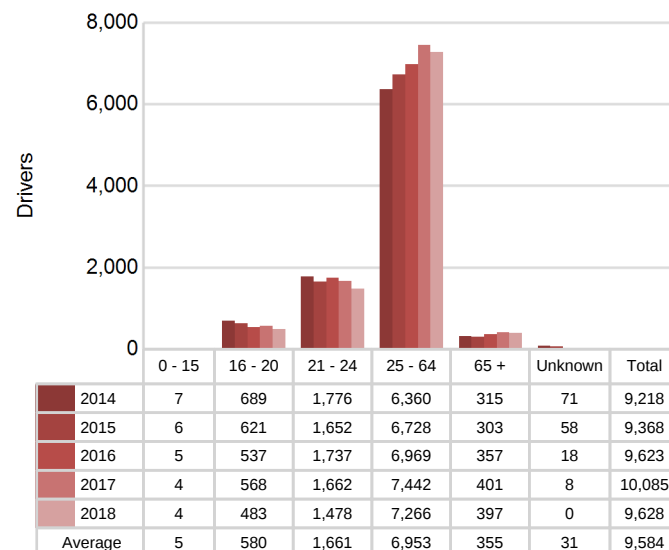
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

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.

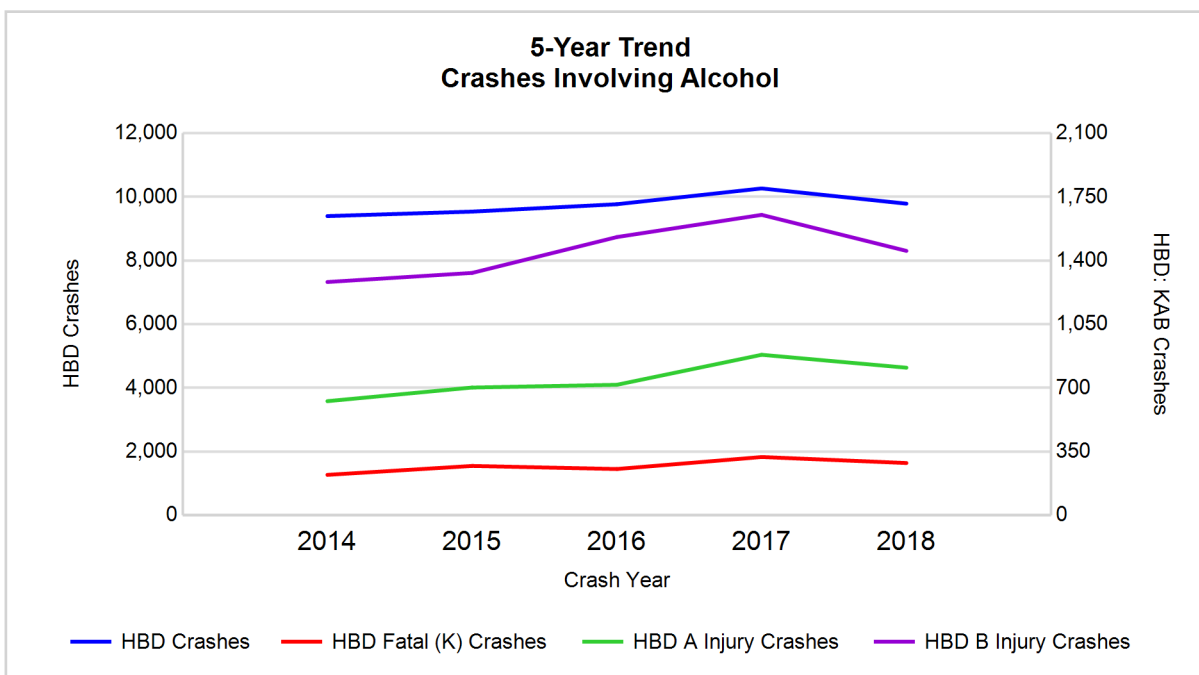
- 5,126 (53.2%) of the 9,628 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 2,771 (54.1%) of the 5,126 drivers had a BAC at or above 0.17 g/dL.
- 7,999 (83.1%) of the 9,628 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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



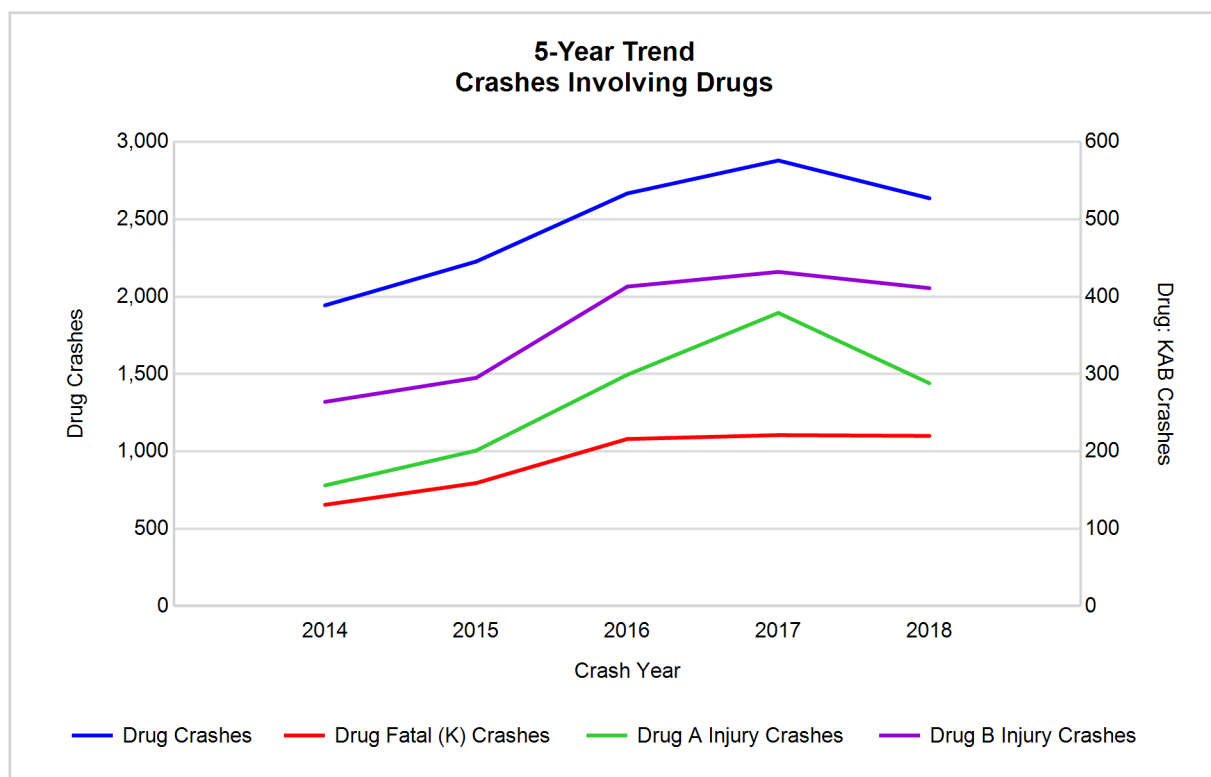
Note: Had-Been-Drinking (HBD)

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

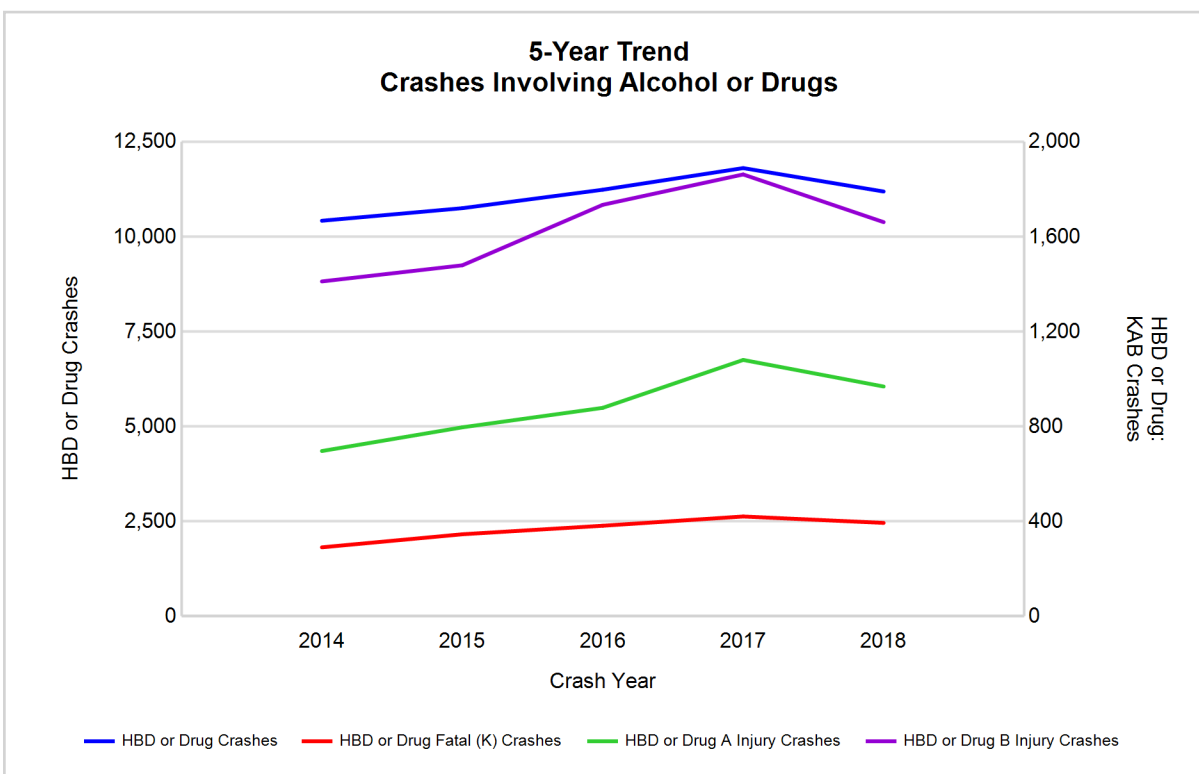


5-Year Trend - Crashes Involving Alcohol or Drugs

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

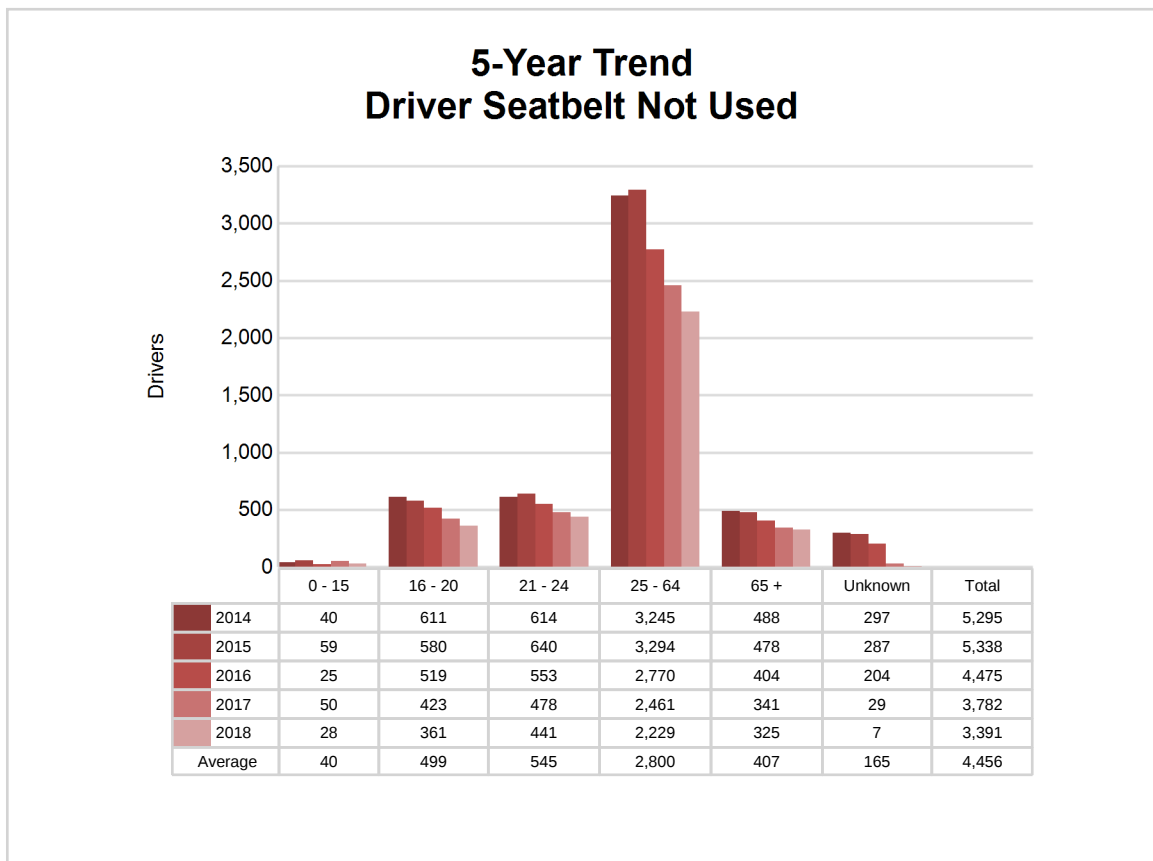
5-Year Trend - Restraint Use Among Drivers Coded Drinking

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

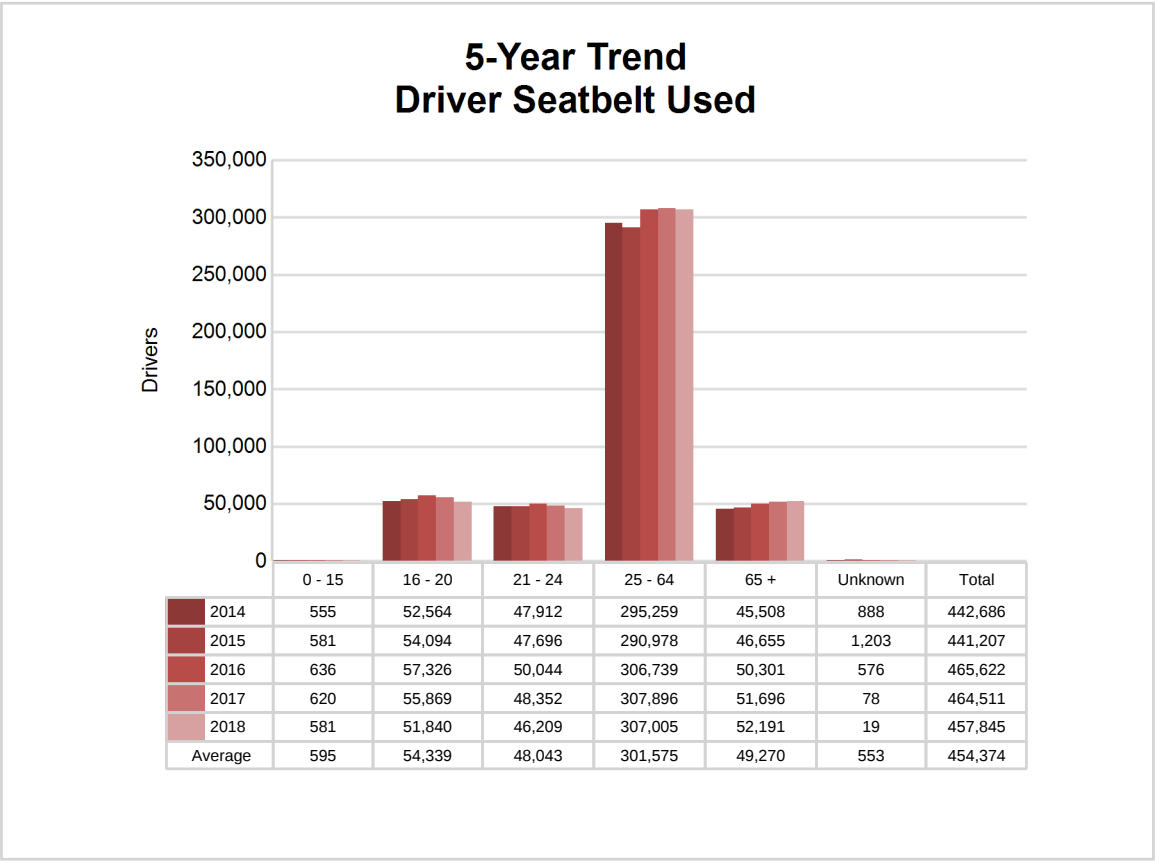
Note: Seatbelt Not Used includes no belts available or no belts used.



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 - 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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