



2017

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

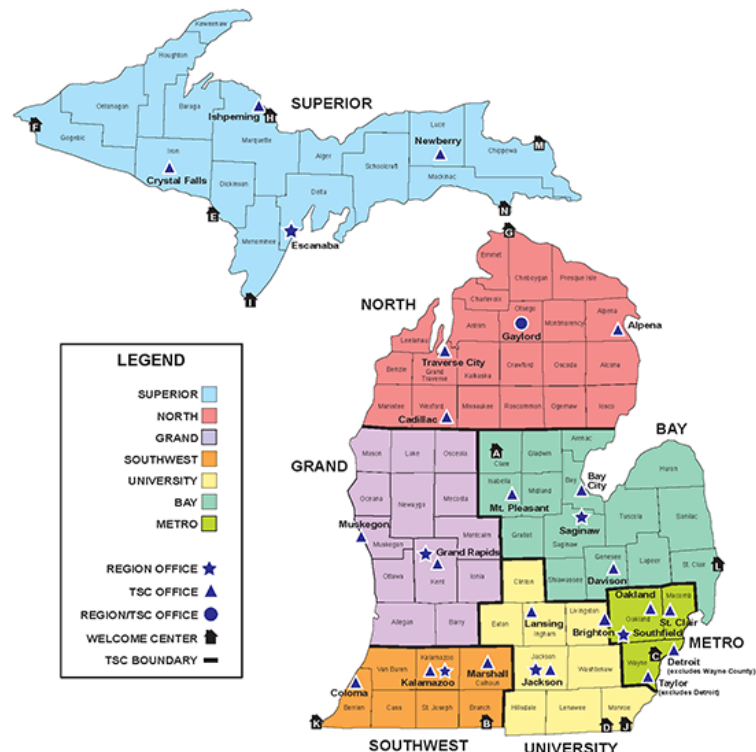
C = Possible Injury

O = No Injury

Property Damage Only (PDO)



Michigan Statewide 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 2017:

There were 540,387 drivers involved in 314,921 motor vehicle crashes in Michigan. Of those crashes, 937 were classified as fatal, resulting in 1,028 fatalities. An additional 78,394 persons were injured.

Michigan experienced the highest number of motor vehicle crashes (38,003) in December, the highest number of fatal crashes (99) and the highest number of persons killed (105) in June.

Michigan driver statistics indicate 6.5 percent of licensed drivers were age 16-20, and 10.8 percent of drivers in crashes were also in that age group.

2017 - Crashes and Injuries by Month

Month	Crashes				Persons	
	Total	Fatal	Injury	Property Damage Only (PDO)	Fatalities	Injuries
January	27,008	72	4,389	22,547	82	5,938
February	20,713	52	3,609	17,052	60	4,848
March	25,518	71	4,581	20,866	79	6,267
April	20,644	72	4,033	16,539	81	5,629
May	25,153	76	5,091	19,986	86	7,052
June	25,440	99	5,174	20,167	105	7,186
July	22,972	91	4,992	17,889	98	6,861
August	23,197	84	5,027	18,086	85	6,949
September	24,437	90	5,080	19,267	102	7,029
October	31,273	74	5,374	25,825	82	7,345
November	30,563	81	4,549	25,933	87	6,167
December	38,003	75	5,364	32,564	81	7,123
Total	314,921	937	57,263	256,721	1,028	78,394

2017 - Driver Statistics

Age Group	Statewide			Driver Rates	
	2017 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	1,910,519	49,583	854	4.5	172.2
16 - 20	669,932	469,757	58,607	874.8	1,247.6
21 - 24	567,005	462,279	51,711	912.0	1,118.6
25 - 64	5,147,659	4,739,140	327,106	635.4	690.2
65 +	1,667,196	1,479,627	53,934	323.5	364.5
Unknown	0	0	48,175	- -	- -
Total	9,962,311	7,200,386	540,387	542.4	750.5

2017 - 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	444,817	82.3	1,040	68.0	88,365	355,412
Motor home	1,521	0.3	6	0.4	267	1,248
Pickup truck	59,444	11.0	190	12.4	10,421	48,833
Small truck under 10,000 lbs. GVWR	3,575	0.7	9	0.6	595	2,971
Motorcycle	2,964	0.5	133	8.7	2,105	726
Moped / goped	417	0.1	6	0.4	348	63
Go-cart / golf cart	46	0.0	2	0.1	18	26
Snowmobile	119	0.0	5	0.3	75	39
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	347	0.1	23	1.5	248	76
Other	2,266	0.4	8	0.5	341	1,917
Truck/bus over 10,000 lbs.	13,416	2.5	96	6.3	2,437	10,883
Unknown	11,455	2.1	12	0.8	1,131	10,312
Total	540,387	100.0	1,530	100.0	106,351	432,506

Michigan Statewide (continued)

5-Year Trend - Crashes by Month

Month	2013		2014		2015		2016		2017	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
January	27,420	66	38,199	39	31,396	61	28,178	58	27,008	72
February	25,779	50	27,420	59	27,083	37	25,927	65	20,713	52
March	20,714	53	24,216	45	21,063	47	23,484	41	25,518	71
April	19,245	47	17,894	67	18,930	55	22,049	85	20,644	72
May	22,206	73	21,278	71	22,747	73	23,807	69	25,153	76
June	21,745	72	22,054	88	23,533	94	24,408	96	25,440	99
July	20,875	99	19,891	90	22,461	111	23,168	88	22,972	91
August	20,353	94	20,424	78	21,271	107	23,561	97	23,197	84
September	21,850	98	22,016	81	23,227	77	25,148	111	24,437	90
October	27,165	85	27,821	67	28,193	79	28,449	99	31,273	74
November	30,460	88	34,134	59	31,088	81	30,430	93	30,563	81
December	31,249	56	23,352	62	26,031	71	33,563	78	38,003	75
Total	289,061	881	298,699	806	297,023	893	312,172	980	314,921	937

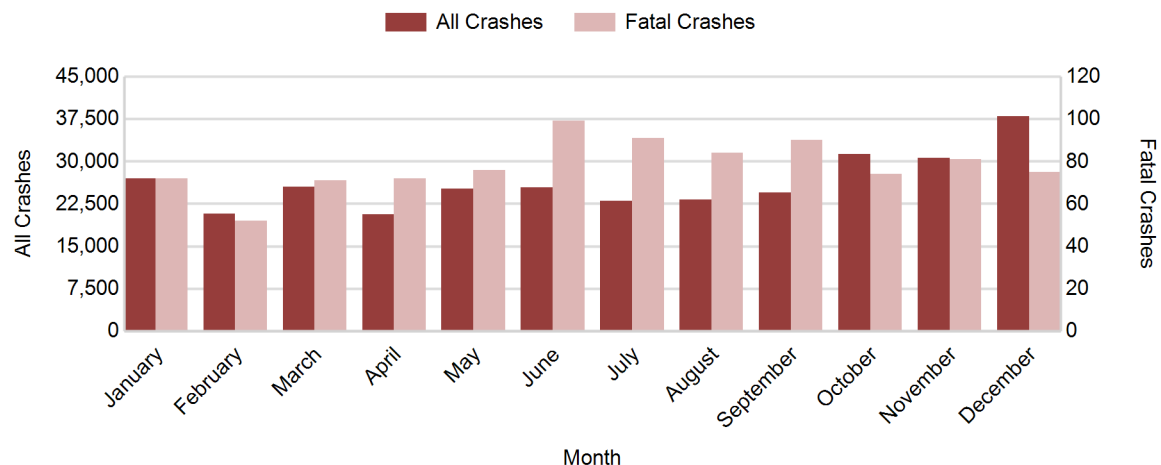
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

5-Year Trend - Crashes by Day of Week

Day	2013		2014		2015		2016		2017	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Monday	42,567	111	41,813	101	43,061	104	44,099	125	46,298	108
Tuesday	43,699	102	45,135	101	44,588	104	46,988	122	47,797	118
Wednesday	43,870	113	48,131	96	46,205	129	49,018	123	48,292	132
Thursday	44,778	115	48,198	105	44,601	113	49,116	135	48,983	146
Friday	46,473 †	147	49,347 †	111	48,160 †	149	51,930 †	155	51,956 †	147
Saturday	38,234	166	36,385	162	39,739	159	38,945	174	39,663	153
Sunday	29,440	127	29,690	130	30,669	135	32,076	146	31,932	133
Total	289,061	881	298,699	806	297,023	893	312,172	980	314,921	937

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

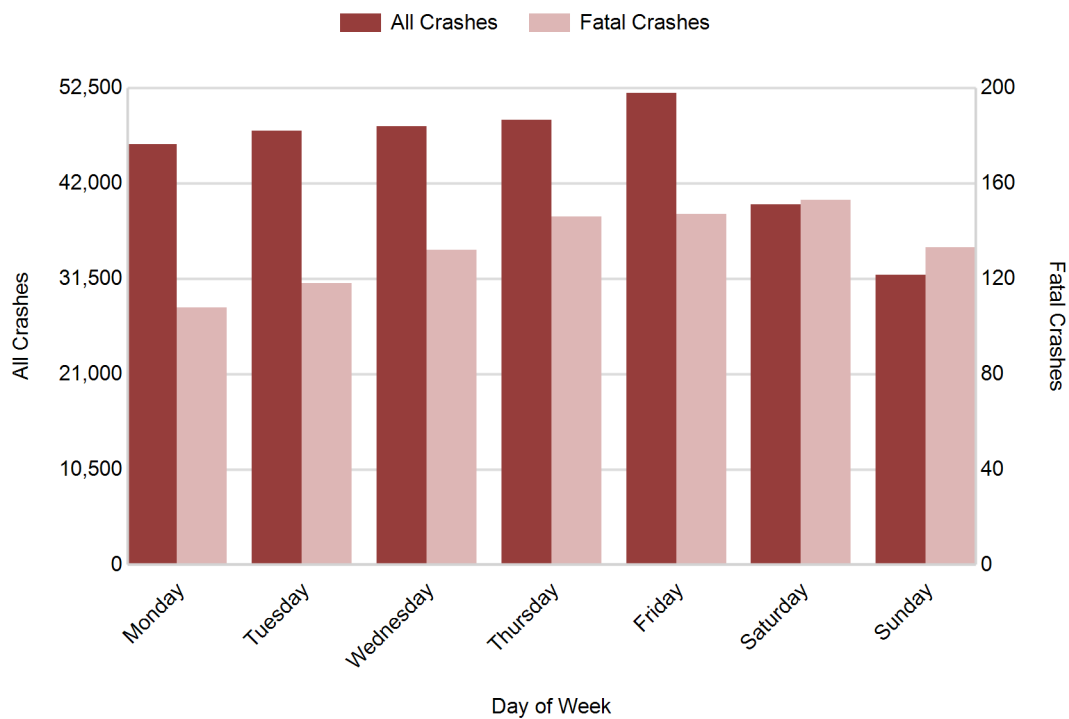
2017 Crashes by Month



2017 - 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	46,298	14.7	108	11.5	638	2,298	5,410	37,844
Tuesday	47,797	15.2	118	12.6	654	2,337	5,537	39,151
Wednesday	48,292	15.3	132	14.1	675	2,324	5,463	39,698
Thursday	48,983	15.6	146	15.6	680	2,416	5,691	40,050
Friday	51,956	16.5	147	15.7	789	2,648	5,942	42,430
Saturday	39,663	12.6	153	16.3	851	2,334	4,308	32,017
Sunday	31,932	10.1	133	14.2	748	1,999	3,521	25,531
Total	314,921	100.0	937	100.0	5,035	16,356	35,872	256,721

2017 Day of Week and Severity

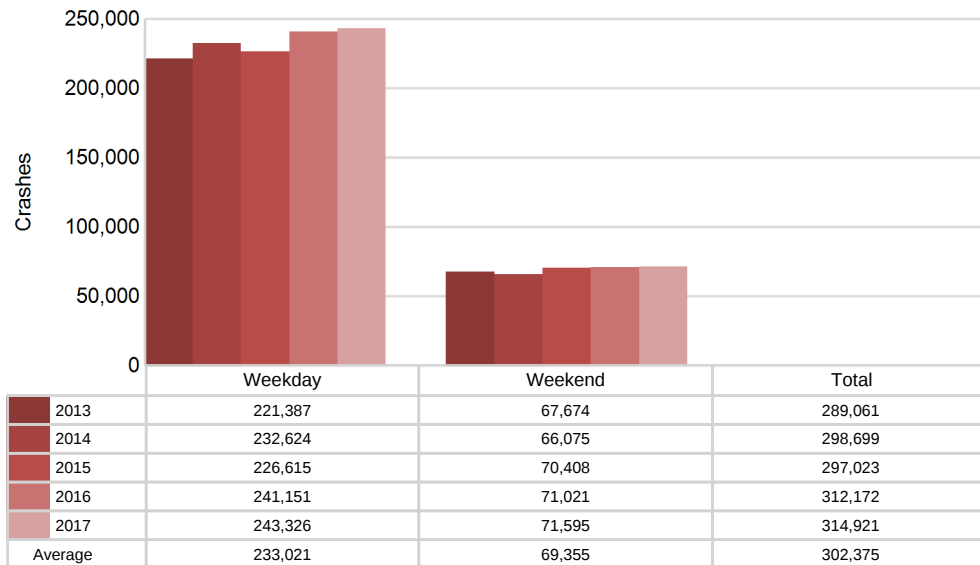


Michigan Statewide (continued)

5-Year Trend - Crashes by Weekday and Weekend

Portion of Week	2013		2014		2015		2016		2017	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Weekday	221,387	588	232,624	514	226,615	599	241,151	660	243,326	651
Weekend	67,674	293	66,075	292	70,408	294	71,021	320	71,595	286
Total	289,061	881	298,699	806	297,023	893	312,172	980	314,921	937

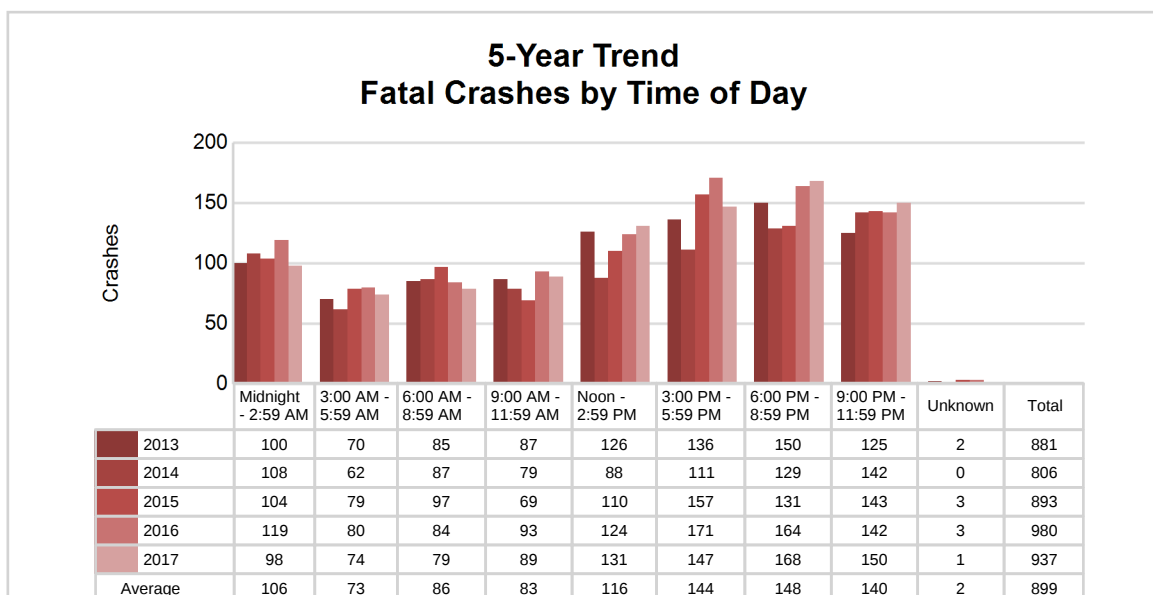
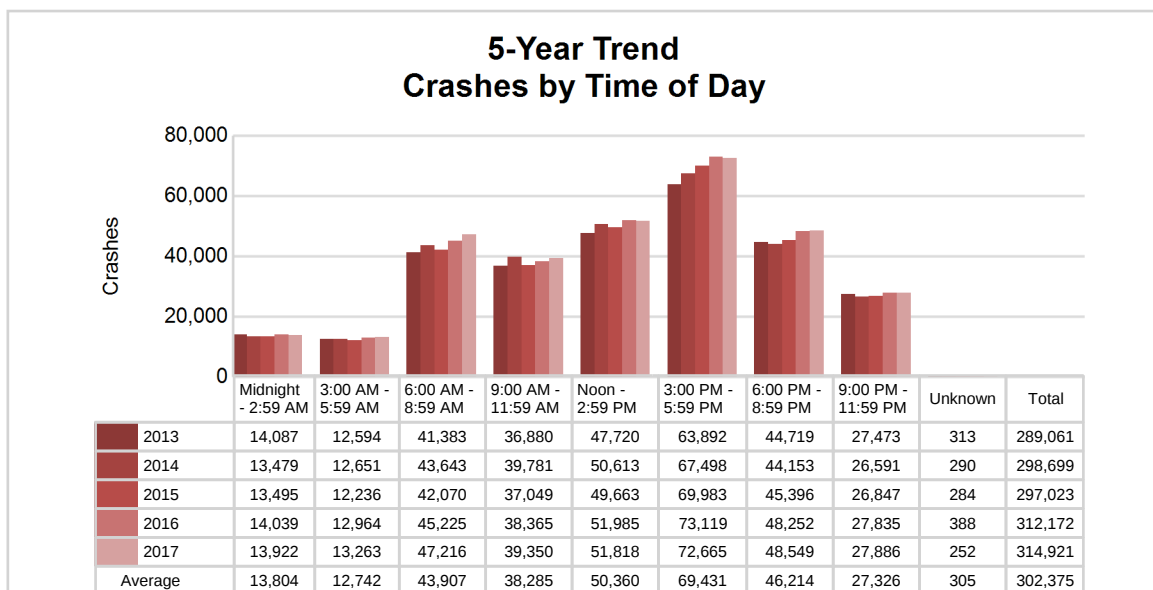
5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



5-Year Trend - Crashes by Time of Day

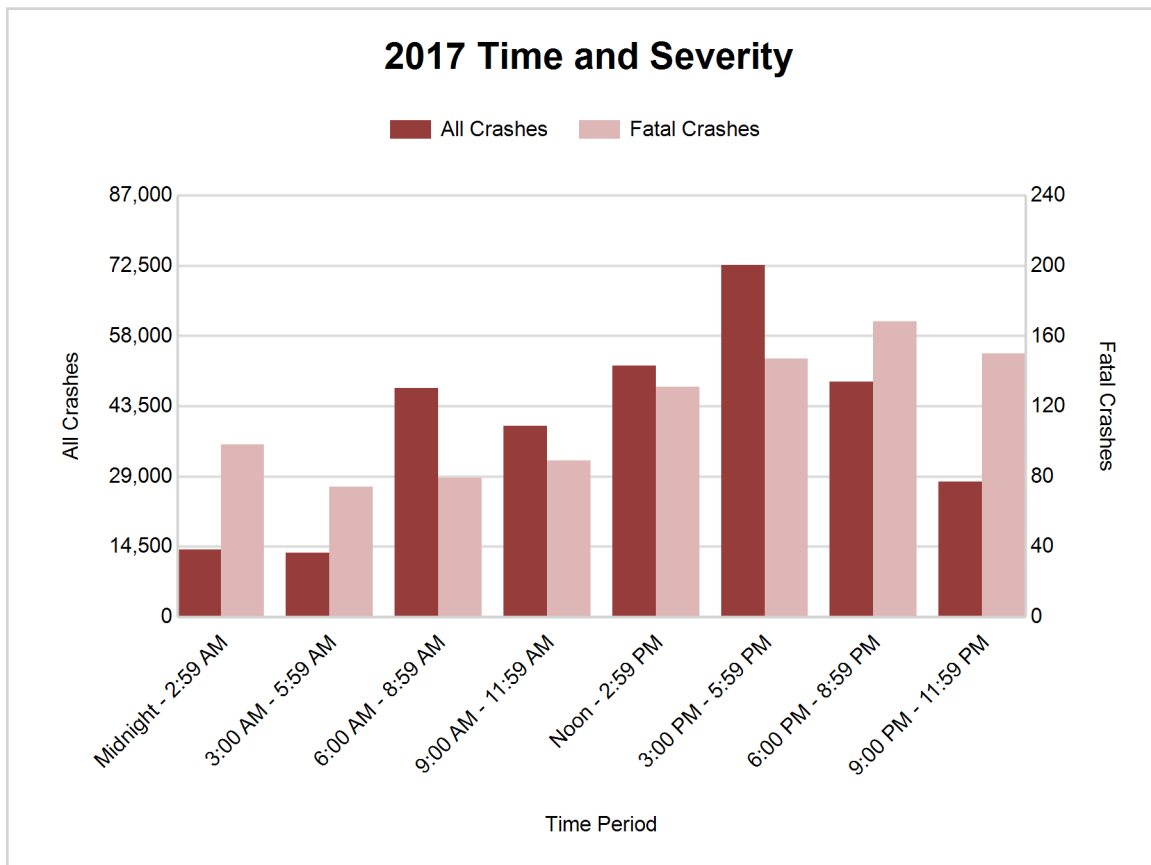
Time of Day	2013		2014		2015		2016		2017	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	14,087	100	13,479	108	13,495	104	14,039	119	13,922	98
3:00 AM - 5:59 AM	12,594	70	12,651	62	12,236	79	12,964	80	13,263	74
6:00 AM - 8:59 AM	41,383	85	43,643	87	42,070	97	45,225	84	47,216	79
9:00 AM - 11:59 AM	36,880	87	39,781	79	37,049	69	38,365	93	39,350	89
Noon - 2:59 PM	47,720	126	50,613	88	49,663	110	51,985	124	51,818	131
3:00 PM - 5:59 PM	63,892 †	136	67,498 †	111	69,983 †	157	73,119 †	171	72,665 †	147
6:00 PM - 8:59 PM	44,719	150	44,153	129	45,396	131	48,252	164	48,549	168
9:00 PM - 11:59 PM	27,473	125	26,591	142	26,847	143	27,835	142	27,886	150
Unknown	313	2	290	0	284	3	388	3	252	1
Total	289,061	881	298,699	806	297,023	893	312,172	980	314,921	937

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



2017 - Time and Severity

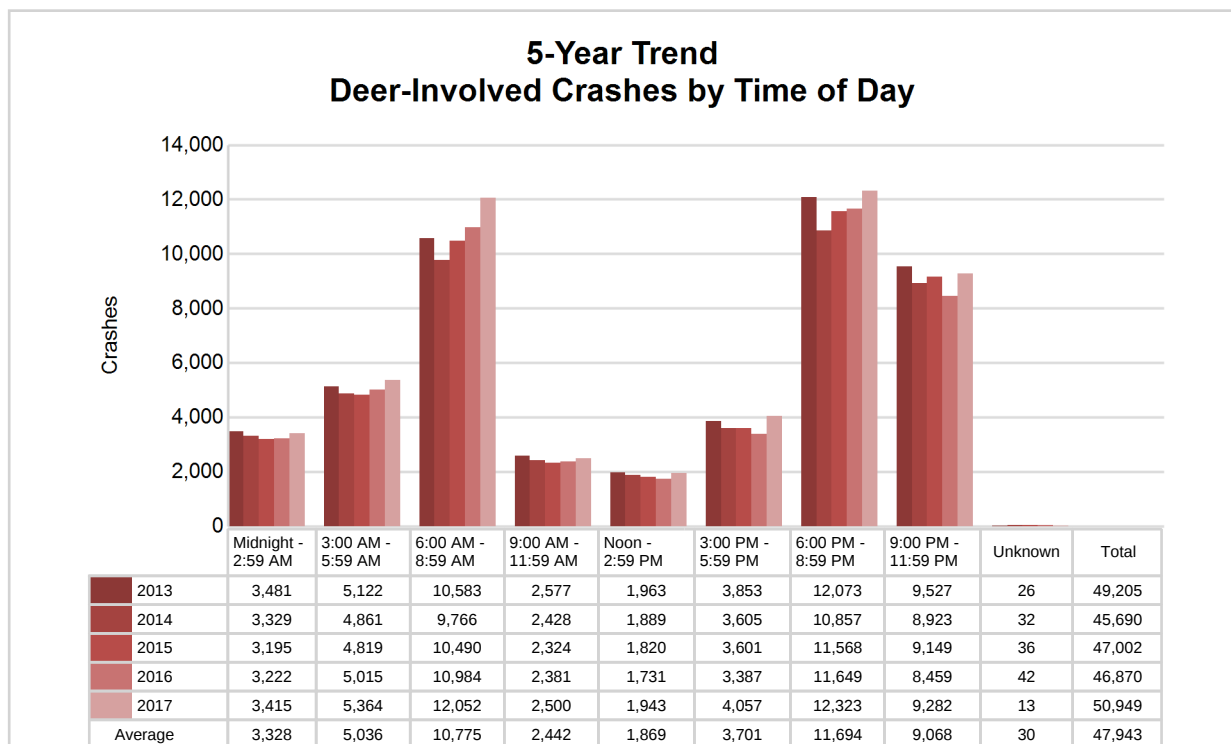
Time of Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Midnight - 2:59 AM	13,922	4.4	98	10.5	404	983	1,445	10,992
3:00 AM - 5:59 AM	13,263	4.2	74	7.9	264	602	1,023	11,300
6:00 AM - 8:59 AM	47,216	15.0	79	8.4	489	1,882	4,591	40,175
9:00 AM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

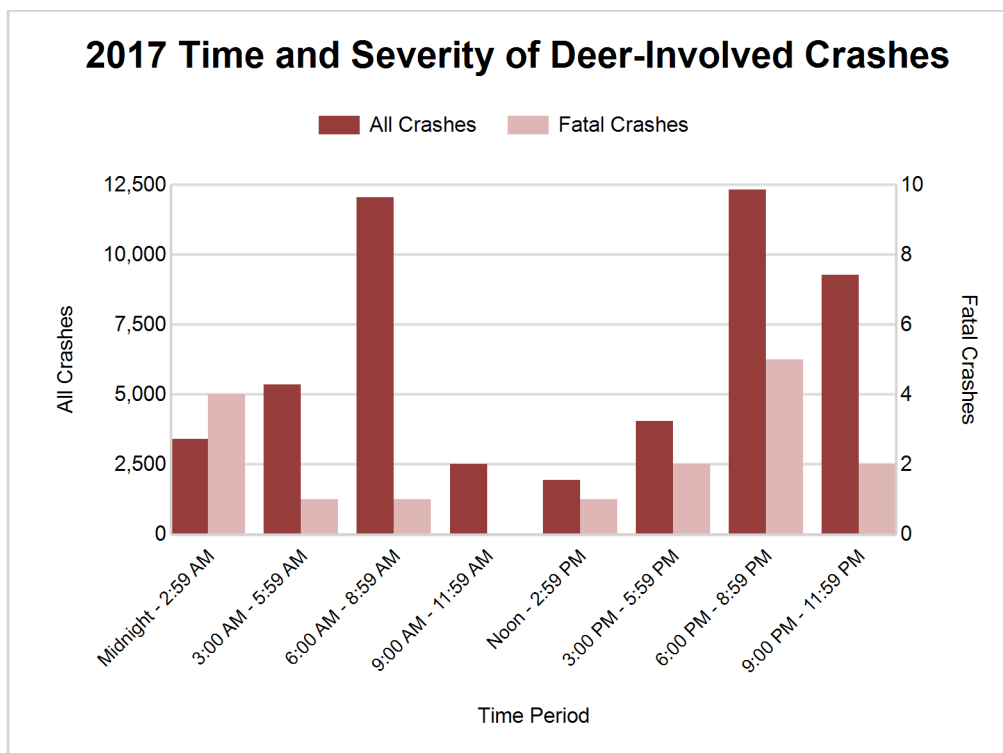


5-Year Trend - Deer-Involved Crashes by Time of Day

Time of Day	2013		2014		2015		2016		2017	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	3,481	1	3,329	1	3,195	3	3,222	1	3,415	4
3:00 AM - 5:59 AM	5,122	1	4,861	0	4,819	1	5,015	0	5,364	1
6:00 AM - 8:59 AM	10,583	1	9,766	0	10,490	2	10,984	1	12,052	1
9:00 AM - 11:59 AM	2,577	0	2,428	0	2,324	0	2,381	0	2,500	0
Noon - 2:59 PM	1,963	0	1,889	1	1,820	0	1,731	1	1,943	1
3:00 PM - 5:59 PM	3,853	1	3,605	1	3,601	1	3,387	2	4,057	2
6:00 PM - 8:59 PM	12,073 †	5	10,857 †	1	11,568 †	2	11,649 †	2	12,323 †	5
9:00 PM - 11:59 PM	9,527	3	8,923	2	9,149	1	8,459	5	9,282	2
Unknown	26	0	32	0	36	0	42	0	13	0
Total	49,205	12	45,690	6	47,002	10	46,870	12	50,949	16

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



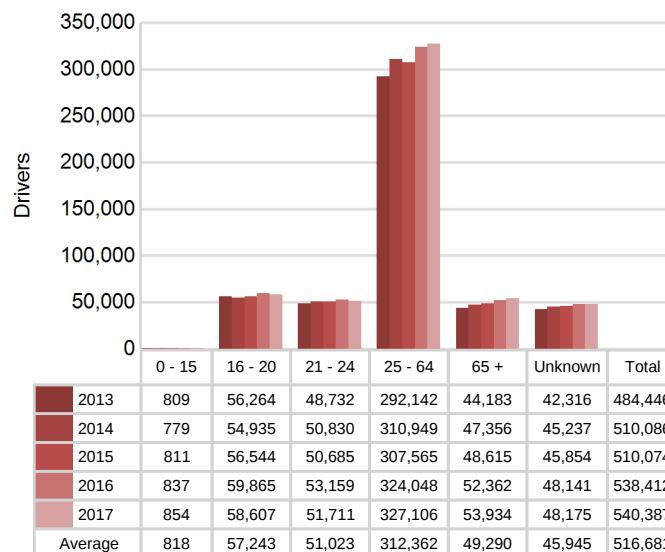

2017 - Reported Motor Vehicle Crashes by MDOT Region

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	42,593	160	7,432	35,001	4,191	2,615	10,297	25,425	1,499	439	12,637	170	10,384
MDOT Region 2 - Grand	52,478	181	8,650	43,647	4,648	6,664	10,357	30,749	2,040	467	10,381	194	11,812
MDOT Region 3 - Metro	122,088	254	25,492	96,342	19,721	6,192	24,147	71,889	3,106	971	2,790	270	34,906
MDOT Region 4 - North	19,820	59	2,677	17,084	919	3,696	4,658	10,476	735	183	8,377	66	3,683
MDOT Region 5 - Southwest	24,345	103	4,186	20,056	4,340	1,929	5,053	12,974	945	290	5,194	121	5,724
MDOT Region 6 - Superior	9,542	35	1,234	8,273	380	2,808	2,322	3,941	365	94	3,973	39	1,654
MDOT Region 7 - University	44,055	145	7,592	36,318	6,980	5,339	7,486	24,213	1,575	436	7,597	168	10,231
Total	314,921	937	57,263	256,721	41,179	29,243	64,320	179,667	10,265	2,880	50,949	1,028	78,394

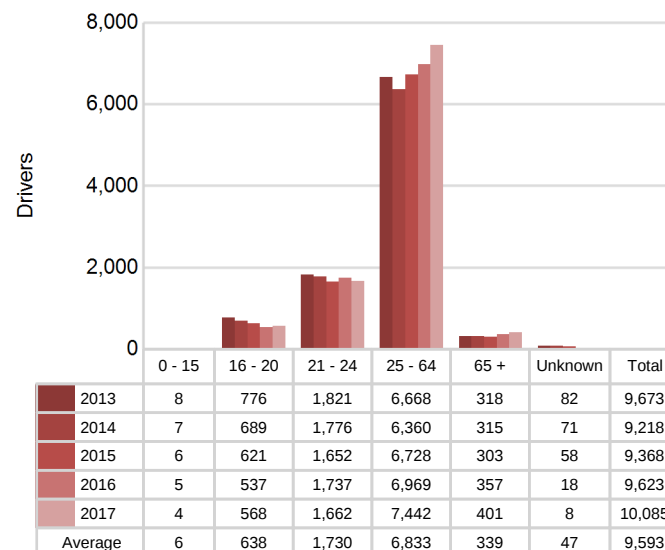
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

Driver Age	2013		2014		2015		2016		2017	
	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	809	8	779	7	811	6	837	5	854	4
16 - 20	56,264	776	54,935	689	56,544	621	59,865	537	58,607	568
21 - 24	48,732	1,821	50,830	1,776	50,685	1,652	53,159	1,737	51,711	1,662
25 - 64	292,142	6,668	310,949	6,360	307,565	6,728	324,048	6,969	327,106	7,442
65 +	44,183	318	47,356	315	48,615	303	52,362	357	53,934	401
Unknown	42,316	82	45,237	71	45,854	58	48,141	18	48,175	8
Total	484,446	9,673	510,086	9,218	510,074	9,368	538,412	9,623	540,387	10,085

**5-Year Trend
Total Drivers in Crashes by Age**



**5-Year Trend
Total Drivers Coded Drinking by Age**



2017 - 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	11	6	3	4	0	2	0	1	1
16 - 20	926	753	475	568	16	71	158	91	232
21 - 24	2,106	1,626	1,396	1,662	24	165	455	370	648
25 - 64	10,215	7,347	6,029	7,442	94	539	1,637	1,967	3,205
65 +	717	544	347	401	5	47	91	93	165
Unknown	1,172	2	1	8	0	0	0	0	8
Total	15,147	10,278	8,251	10,085	139	824	2,341	2,522	4,259

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 2017, there were 15,147 drivers in alcohol-involved crashes; 10,085 (66.6%) of those drivers were coded as had-been-drinking by the officer on the crash form.

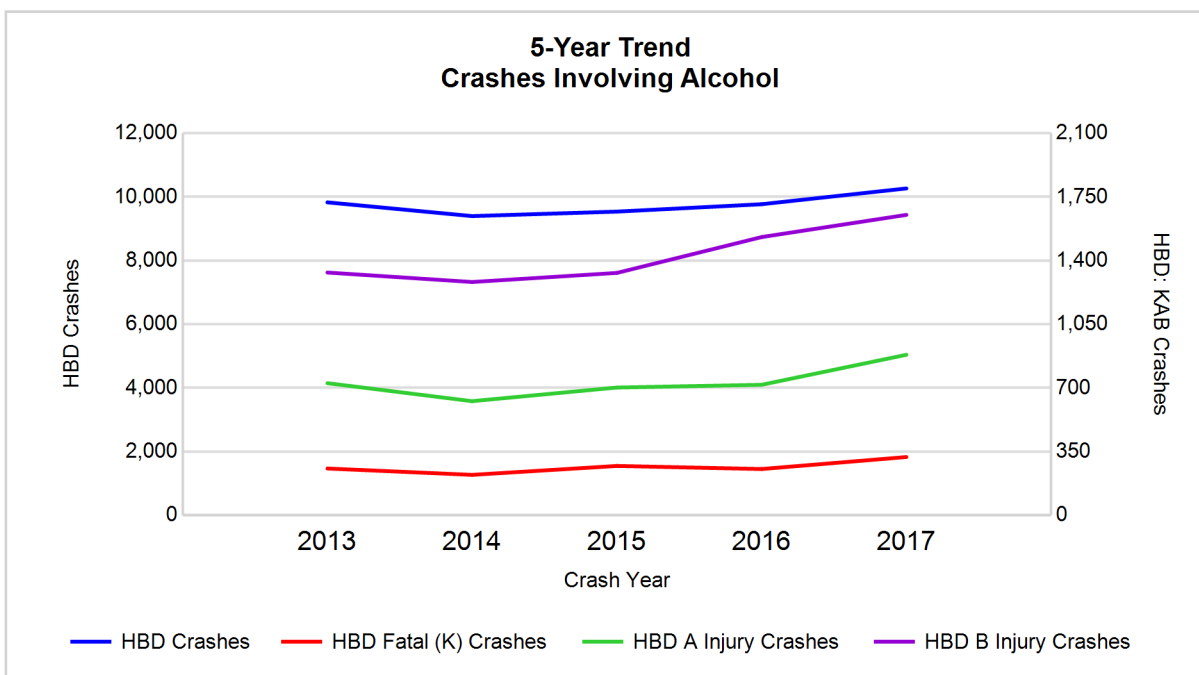
- 4,863 (48.2%) of the 10,085 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 2,522 (51.9%) of the 4,863 drivers had a BAC at or above 0.17 g/dL.
- 8,251 (81.8%) of the 10,085 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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
2013	289,061	9,828	3.4	881	257	29.2	4,311	726	16.8	13,163	1,334	10.1
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

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



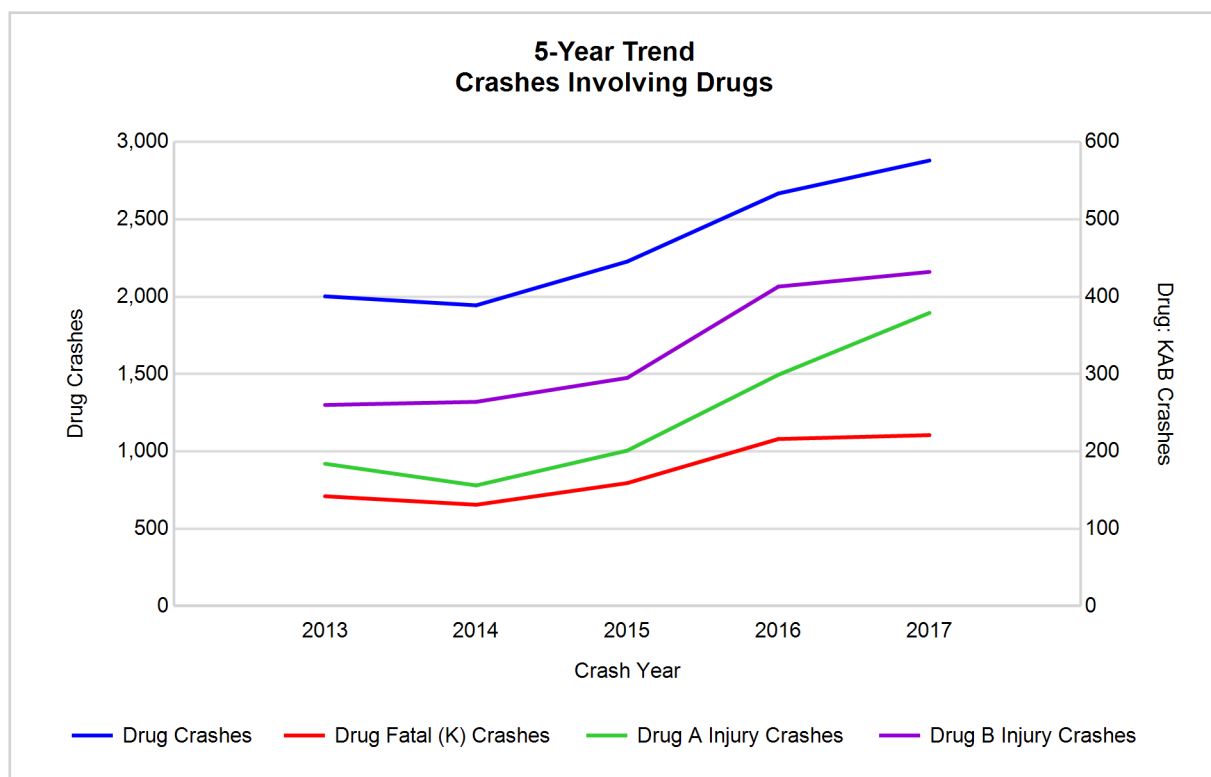
Note: Had-Been-Drinking (HBD)

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
2013	289,061	2,002	0.7	881	142	16.1	4,311	184	4.3	13,163	260	2.0
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

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

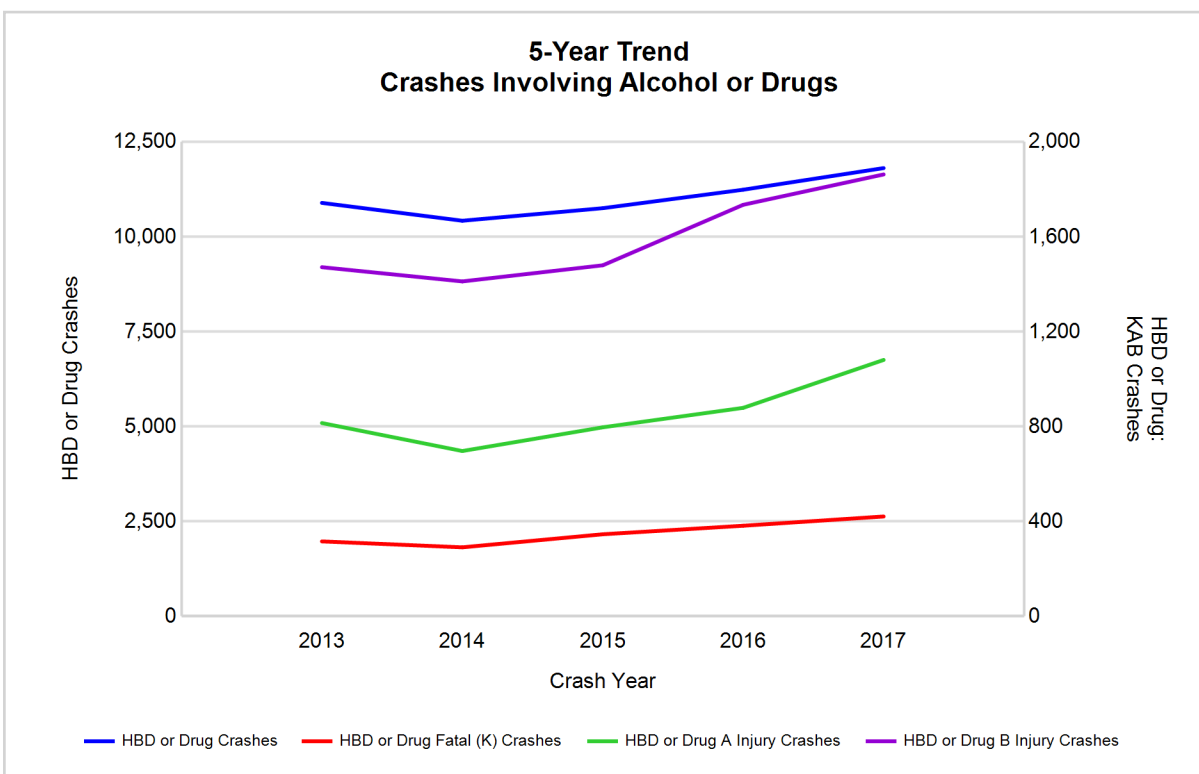


5-Year Trend - Crashes Involving Alcohol or Drugs

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
2013	289,061	10,894	3.8	881	316	35.9	4,311	815	18.9	13,163	1,472	11.2
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**

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)

2017 - 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	461,296	407,142	88.3	580	321	55.3	3,886	3,004	77.3	15,534	14,023	90.3	45,027	42,064	93.4	363,204	347,458	95.7
Motor home	1,588	1,413	89.0	6	3	50.0	17	11	64.7	68	56	82.4	127	117	92.1	1,288	1,225	95.1
Pickup truck	60,879	54,644	89.8	74	31	41.9	539	386	71.6	1,830	1,590	86.9	3,706	3,477	93.8	50,847	49,097	96.6
Small truck under 10,000 lbs. GVWR	3,642	3,107	85.3	2	0	0.0	22	17	77.3	82	74	90.2	185	161	87.0	3,031	2,854	94.2
Motorcycle	3,182	2,031	63.8	137	72	52.6	684	392	57.3	994	665	66.9	560	404	72.1	732	498	68.0
Moped / goped	434	122	28.1	6	1	16.7	82	16	19.5	163	59	36.2	111	26	23.4	58	20	34.5
Go-cart / golf cart	56	13	23.2	2	0	0.0	8	1	12.5	9	0	0.0	5	1	20.0	25	11	44.0
Snowmobile	122	101	82.8	4	3	75.0	37	35	94.6	18	15	83.3	19	16	84.2	37	30	81.1
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	417	131	31.4	21	2	9.5	118	30	25.4	114	35	30.7	56	19	33.9	92	45	48.9
Other	2,312	1,459	63.1	4	0	0.0	23	8	34.8	56	23	41.1	102	56	54.9	1,727	1,371	79.4
Truck/bus over 10,000 lbs.	13,769	12,325	89.5	12	7	58.3	65	41	63.1	198	143	72.2	617	359	58.2	12,277	11,771	95.9
Unknown	11,467	108	0.9	1	0	0.0	2	1	50.0	5	5	100.0	17	10	58.8	195	88	45.1
Total	559,164	482,596	86.3	849	440	51.8	5,483	3,942	71.9	19,071	16,688	87.5	50,532	46,710	92.4	433,513	414,468	95.6

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.

2017 - 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	5,616	4,862	86.6	27	13	48.1	214	157	73.4	978	827	84.6	3,711	3,308	89.1	669	556	83.1
16 - 20	61,424	58,343	95.0	66	31	47.0	672	455	67.7	2,752	2,387	86.7	5,969	5,491	92.0	51,699	49,944	96.6
21 - 24	53,359	49,870	93.5	95	33	34.7	599	413	68.9	2,151	1,801	83.7	4,935	4,437	89.9	45,273	43,156	95.3
25 - 64	334,707	315,778	94.3	492	247	50.2	3,335	2,362	70.8	10,934	9,545	87.3	30,228	28,052	92.8	287,798	275,350	95.7
65 +	55,854	53,646	96.0	169	116	68.6	659	553	83.9	2,249	2,123	94.4	5,652	5,411	95.7	46,877	45,390	96.8
Unknown	48,204	97	0.2	0	0	0.0	4	2	50.0	7	5	71.4	37	11	29.7	1,197	72	6.0
Total	559,164	482,596	86.3	849	440	51.8	5,483	3,942	71.9	19,071	16,688	87.5	50,532	46,710	92.4	433,513	414,468	95.6

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	2013			2014			2015			2016			2017		
	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	1,979	8	303	1,974	8	263	1,936	10	275	1,186	5	169	831	5	177
Shoulder belt only used	851	3	91	964	1	101	925	0	100	2,001	2	249	2,205	2	296
Lap belt only used	1,280	2	133	1,657	3	178	1,737	6	173	1,344	1	164	1,033	2	118
Both lap & shoulder belts used	418,752	248	43,824	439,913	229	44,467	438,392	234	45,769	462,130	265	50,197	461,132	286	49,557
No belts used	3,277	142	1,225	3,321	133	1,157	3,402	142	1,195	3,289	140	1,276	2,951	145	1,263
Child restraint used	18	0	1	10	0	1	16	0	1	49	0	6	37	0	3
Child restraint not used, unavailable or improper use	17	0	1	22	0	1	16	0	3	6	0	0	0	0	0
Restraint failure	116	0	17	152	1	20	153	1	14	147	1	22	141	0	34
Restraint use unknown	29,298	65	1,631	31,315	52	1,722	31,010	54	2,017	49,590	83	2,077	61,069	75	2,503
Helmet worn	2,637	71	1,861	2,418	56	1,707	2,395	73	1,679	2,413	70	1,777	2,175	72	1,537
Helmet not worn	1,124	70	829	1,085	47	812	1,249	63	904	1,543	79	1,034	1,181	69	890
Helmet use unknown	207	8	90	261	10	116	293	10	128	294	12	153	203	11	111
Uncoded & errors	24,890	0	44	26,994	0	58	28,550	0	43	14,420	0	26	7,429	0	2
Total	484,446	617	50,050	510,086	540	50,603	510,074	593	52,301	538,412	658	57,150	540,387	667	56,491

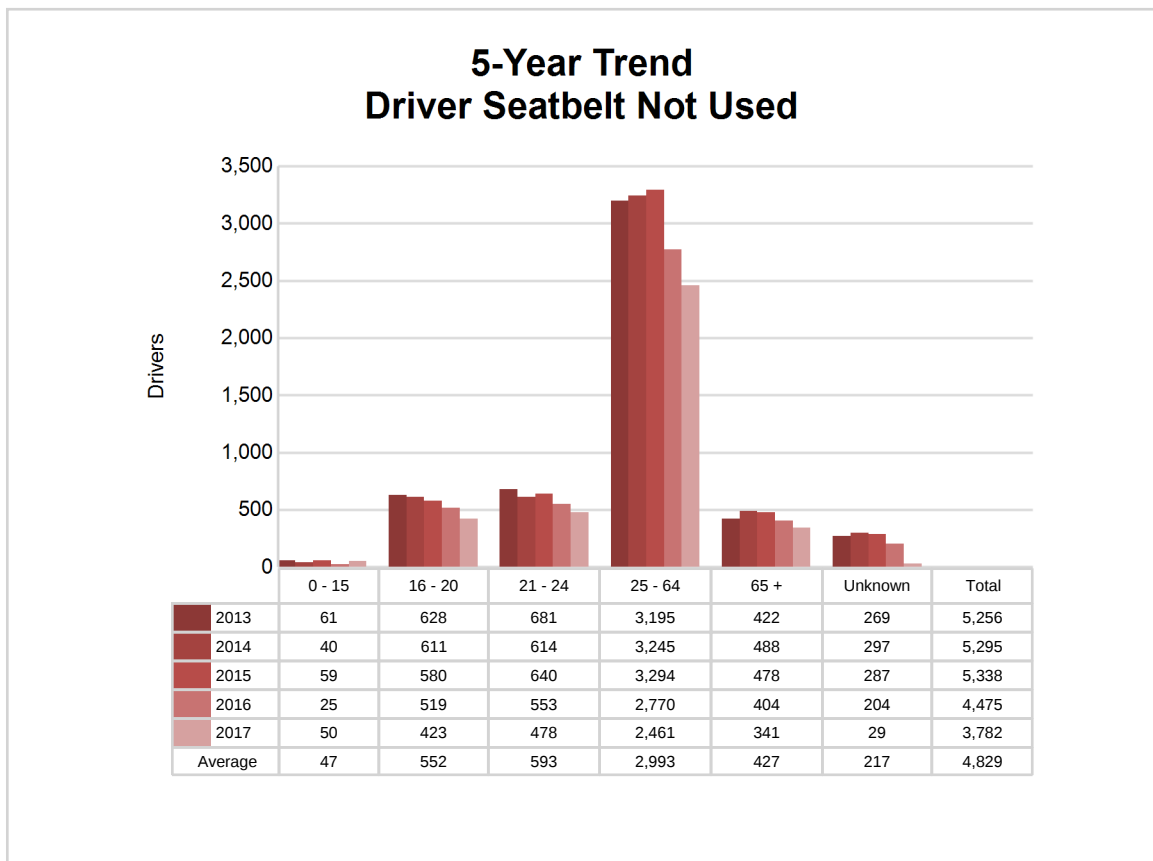
5-Year Trend - Restraint Use Among Drivers Coded Drinking

Restraint Use	2013			2014			2015			2016			2017		
	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	66	1	34	61	1	16	55	3	25	31	1	13	25	0	14
Shoulder belt only used	36	0	11	20	1	7	25	0	6	56	1	8	40	1	19
Lap belt only used	20	0	6	34	0	11	41	4	13	21	0	7	16	0	4
Both lap & shoulder belts used	7,110	43	1,809	6,795	35	1,632	6,897	37	1,723	7,086	29	1,973	7,287	55	2,019
No belts used	592	60	342	563	44	355	580	55	345	568	56	344	579	69	363
Child restraint used	0	0	0	0	0	0	0	0	0	1	0	0	3	0	0
Child restraint not used, unavailable or improper use	1	0	1	3	0	0	0	0	0	1	0	0	0	0	0
Restraint failure	7	0	3	13	0	2	11	0	1	8	1	4	1	0	0
Restraint use unknown	1,512	14	410	1,418	15	373	1,434	15	412	1,509	21	417	1,818	29	510
Helmet worn	113	12	80	103	12	73	107	14	81	104	9	86	96	14	72
Helmet not worn	168	29	121	156	14	127	174	30	124	212	25	165	196	26	158
Helmet use unknown	12	0	9	18	2	12	18	2	13	15	3	11	19	5	11
Uncoded & errors	36	0	1	34	0	2	26	0	2	11	0	2	5	0	0
Total	9,673	159	2,827	9,218	124	2,610	9,368	160	2,745	9,623	146	3,030	10,085	199	3,170

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

Age Group	2013			2014			2015			2016			2017		
	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	61	0	14	40	1	8	59	1	20	25	0	9	50	0	24
16 - 20	628	11	228	611	18	198	580	13	194	519	14	208	423	12	191
21 - 24	681	15	252	614	18	203	640	15	214	553	16	217	478	30	216
25 - 64	3,195	99	917	3,245	80	883	3,294	95	915	2,770	81	883	2,461	88	902
65 +	422	25	107	488	24	114	478	28	117	404	34	125	341	20	107
Unknown	269	0	10	297	0	14	287	0	10	204	0	3	29	0	0
Total	5,256	150	1,528	5,295	141	1,420	5,338	152	1,470	4,475	145	1,445	3,782	150	1,440

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

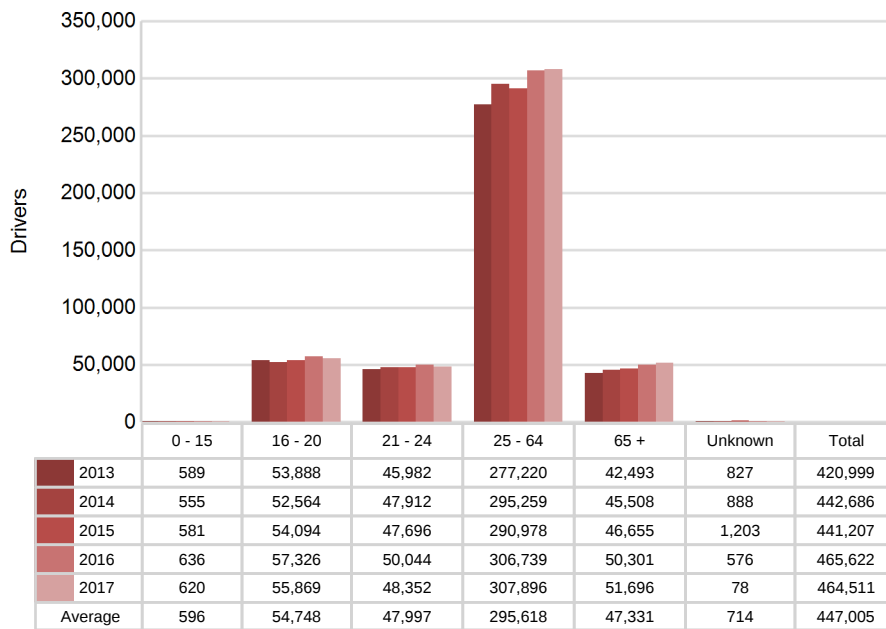


5-Year Trend - Seatbelt Used Among Drivers by Age

Age Group	2013			2014			2015			2016			2017		
	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	589	1	56	555	1	55	581	0	69	636	1	65	620	0	70
16 - 20	53,888	28	5,562	52,564	18	5,166	54,094	32	5,632	57,326	27	6,052	55,869	23	5,923
21 - 24	45,982	17	4,945	47,912	25	4,974	47,696	25	4,843	50,044	20	5,499	48,352	21	5,217
25 - 64	277,220	118	28,444	295,259	120	29,413	290,978	122	30,026	306,739	149	32,911	307,896	161	32,583
65 +	42,493	89	5,036	45,508	70	5,134	46,655	62	5,476	50,301	72	6,098	51,696	85	6,208
Unknown	827	0	22	888	0	24	1,203	0	10	576	0	7	78	0	4
Total	420,999	253	44,065	442,686	234	44,766	441,207	241	46,056	465,622	269	50,632	464,511	290	50,005

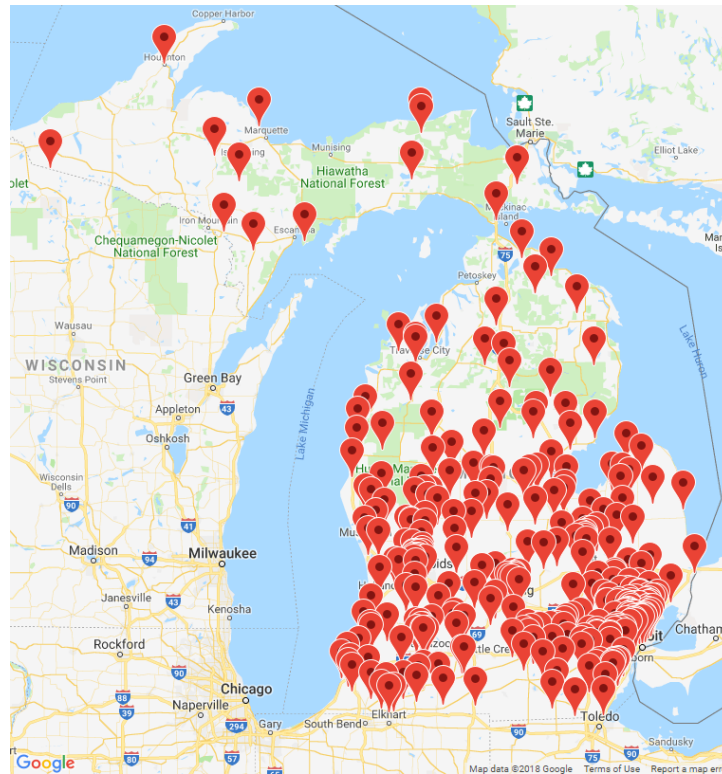
Note: Seatbelt Used includes shoulder belt only used, lap belt only used, both lap and shoulder belts used, and restraint failure.

5-Year Trend Driver Seatbelt Used



5-Year Trend - Drivers in Crashes by Hazardous Action

Hazardous Action	2013		2014		2015		2016		2017	
	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	249,143	591	260,864	512	265,050	625	273,444	678	273,468	671
Speed too fast	35,455	173	37,714	160	29,896	195	32,052	194	31,143	161
Speed too slow	381	1	379	1	390	5	331	1	254	3
Failed to yield	40,868	101	43,800	87	44,058	93	46,694	108	46,812	102
Disregard traffic control	9,518	59	9,591	52	10,360	57	10,743	84	10,291	67
Drove wrong way	381	3	454	16	478	2	427	9	374	13
Drove left of center	2,378	59	2,532	62	2,431	56	2,561	55	2,446	58
Improper passing	2,179	5	2,560	6	2,515	8	2,676	11	2,779	8
Improper lane use	9,786	6	10,588	11	11,637	13	12,882	14	13,364	12
Improper turn	4,324	2	4,706	6	5,132	6	5,222	6	5,332	10
Improper/no signal	757	2	777	2	754	1	541	0	477	0
Improper backing	7,653	0	8,169	3	7,962	2	8,067	1	7,429	1
Unable to stop in assured clear distance	65,410	39	69,786	32	71,810	56	77,280	46	75,830	52
Other	16,799	74	17,750	80	16,823	79	17,270	78	17,012	67
Unknown	18,090	139	19,044	133	18,734	134	25,176	141	31,663	139
Reckless driving	2,458	54	2,393	44	2,667	47	2,663	56	2,564	73
Careless/negligent driving	12,351	68	12,470	65	13,739	97	13,883	78	12,775	81
Uncoded & errors	6,515	12	6,509	8	5,638	3	6,500	10	6,374	12
Total	484,446	1,388	510,086	1,280	510,074	1,479	538,412	1,570	540,387	1,530



The picture above represents all 2017 alcohol-involved fatal crashes in Michigan.

In 2017, there were 10,265 alcohol-involved crashes in Michigan:

320	K - Fatal Crashes
882	A - Suspected Serious Injury Crashes
1,651	B - Suspected Minor Injury Crashes
1,577	C - Possible Injury Crashes
5,835	O - Property Damage Only/No Injury Crashes

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