



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)



MDOT Region - University

2018 Traffic Crash Data & 2014-2018 5-Year Trends

Beginning October 2015, MDOT Region - University is comprised of Clinton, Eaton, Hillsdale, Ingham, Jackson, Lenawee, Livingston, Monroe, and Washtenaw counties. Trend tables for this report are based on those counties.



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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MDOT Region - University Experience

In 2018:

There were 73,477 drivers involved in 44,401 motor vehicle crashes in MDOT Region University. Of those crashes, 136 were classified as fatal, resulting in 153 fatalities. An additional 9,933 persons were injured.

MDOT Region University experienced the highest number of motor vehicle crashes (4,930) in November, the highest number of fatal crashes (19) and the highest number of persons killed (21) in August.

Michigan driver statistics indicate 6.9 percent of licensed drivers in MDOT Region University were age 16-20, and 11.6 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	4,754	12	662	4,080	12	881
February	3,899	7	555	3,337	8	759
March	3,459	11	578	2,870	13	761
April	3,136	10	532	2,594	12	713
May	3,358	9	610	2,739	10	869
June	3,307	9	630	2,668	10	896
July	2,930	15	582	2,333	19	789
August	3,047	19	628	2,400	21	856
September	3,342	17	638	2,687	19	887
October	4,509	13	694	3,802	13	928
November	4,930	7	626	4,297	8	833
December	3,730	7	589	3,134	8	761
Total	44,401	136	7,324	36,941	153	9,933

2018 - Driver Statistics

Age Group	MDOT Region - University			Driver Rates	
	2018 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	267,734	8,141	117	4.4	143.7
16 - 20	124,971	75,177	8,530	682.6	1,134.7
21 - 24	108,722	74,364	7,743	712.2	1,041.2
25 - 64	755,164	707,244	44,798	593.2	633.4
65 +	240,766	220,046	7,316	303.9	332.5
Unknown	0	0	4,973	- -	- -
Total	1,497,357	1,084,972	73,477	490.7	677.2

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	60,164	81.9	149	61.3	10,725	49,290
Motor home	278	0.4	2	0.8	47	229
Pickup truck	8,006	10.9	34	14.0	1,340	6,632
Small truck under 10,000 lbs. GVWR	398	0.5	1	0.4	57	340
Motorcycle	393	0.5	28	11.5	279	86
Moped / goped	100	0.1	0	0.0	75	25
Go-cart / golf cart	2	0.0	0	0.0	1	1
Snowmobile	1	0.0	0	0.0	0	1
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	19	0.0	1	0.4	11	7
Other	359	0.5	2	0.8	54	303
Truck/bus over 10,000 lbs.	2,412	3.3	26	10.7	405	1,981
Unknown	1,345	1.8	0	0.0	108	1,237
Total	73,477	100.0	243	100.0	13,102	60,132

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	5,924	8	4,840	5	4,135	4	3,772	13	4,754	12
February	4,109	10	3,855	4	3,913	8	2,846	7	3,899	7
March	3,581	7	2,966	7	3,586	5	3,854	7	3,459	11
April	2,638	14	2,612	5	3,112	11	2,961	19	3,136	10
May	3,040	13	3,145	9	3,445	11	3,502	12	3,358	9
June	3,009	19	3,266	15	3,403	15	3,380	14	3,307	9
July	2,778	13	3,118	15	3,138	17	2,937	16	2,930	15
August	2,682	9	2,943	11	3,183	12	3,021	13	3,047	19
September	3,183	18	3,426	9	3,596	21	3,279	13	3,342	17
October	4,306	8	4,396	17	4,307	16	4,591	14	4,509	13
November	5,042	9	5,026	3	4,612	13	4,549	11	4,930	7
December	3,498	11	3,801	9	4,742	8	5,363	6	3,730	7
Total	43,790	139	43,394	109	45,172	141	44,055	145	44,401	136

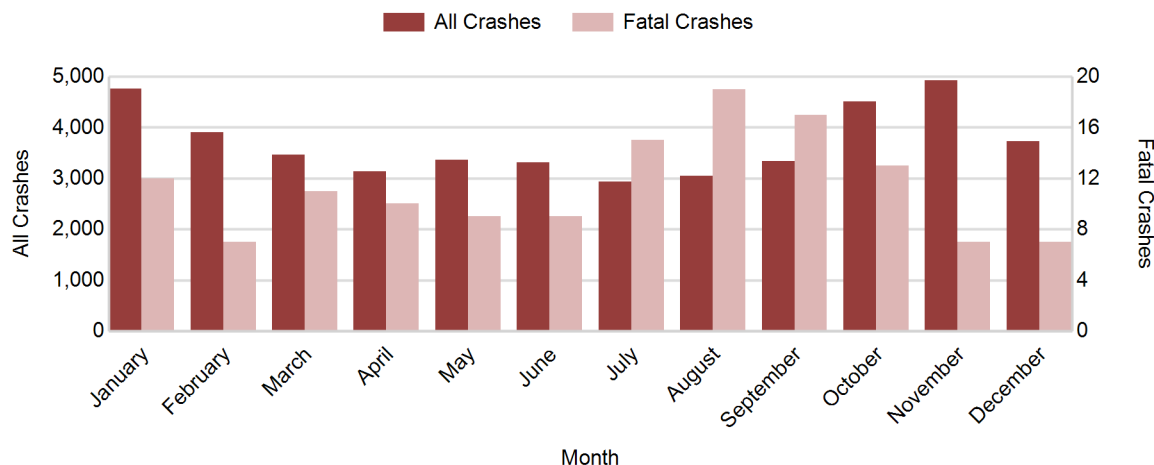
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

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	5,918	13	6,379	11	6,195	23	6,514	20	6,657	15
Tuesday	6,495	19	6,567	10	6,969	21	6,679	16	6,913	19
Wednesday	6,971	19	6,690	23	7,235	16	6,678	24	6,610	23
Thursday	7,392	18	6,230	17	7,276	17	6,958	17	6,948	10
Friday	7,207	25	7,095	17	7,667	22	7,436	27	7,504	23
Saturday	5,373	25	5,892	14	5,440	25	5,385	24	5,377	21
Sunday	4,434	20	4,541	17	4,390	17	4,405	17	4,392	25
Total	43,790	139	43,394	109	45,172	141	44,055	145	44,401	136

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

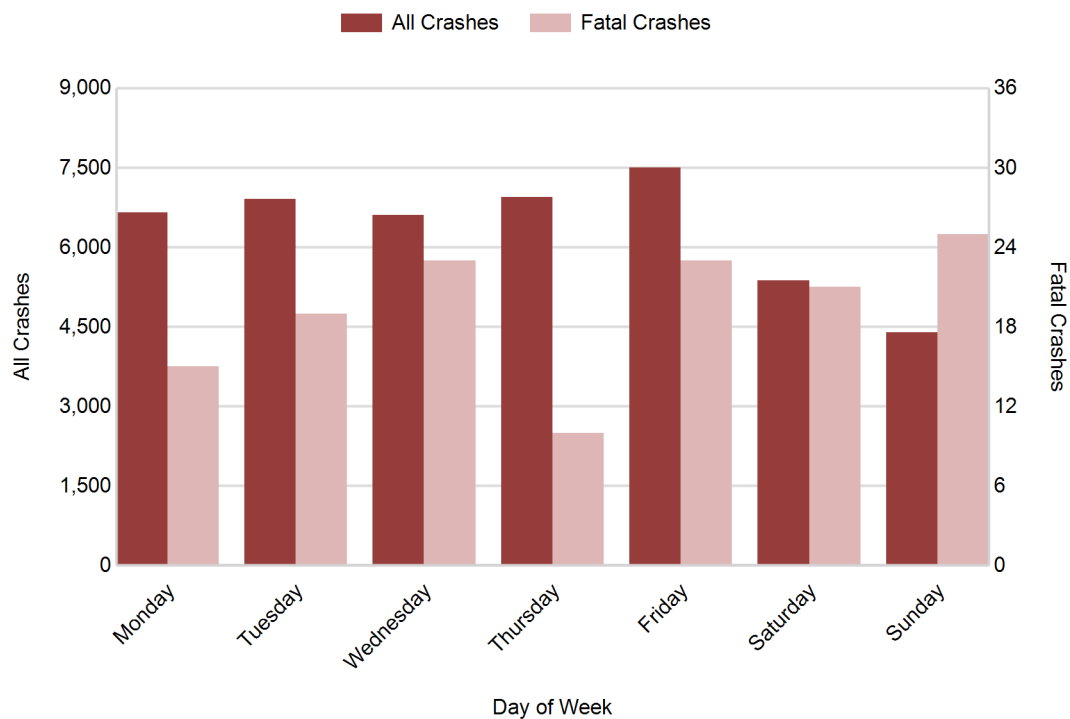
2018 Crashes by Month



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	6,657	15.0	15	11.0	93	328	673	5,548
Tuesday	6,913	15.6	19	14.0	98	339	669	5,788
Wednesday	6,610	14.9	23	16.9	93	332	650	5,512
Thursday	6,948	15.6	10	7.4	100	351	685	5,802
Friday	7,504	16.9	23	16.9	97	361	761	6,262
Saturday	5,377	12.1	21	15.4	94	264	550	4,448
Sunday	4,392	9.9	25	18.4	103	257	426	3,581
Total	44,401	100.0	136	100.0	678	2,232	4,414	36,941

2018 Day of Week and Severity

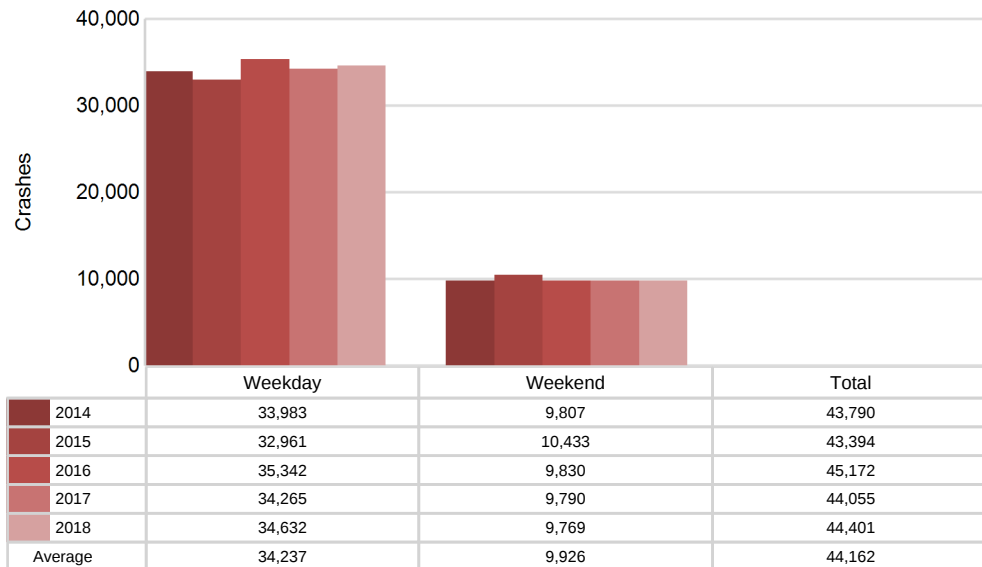


MDOT Region - University (continued)

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	33,983	94	32,961	78	35,342	99	34,265	104	34,632	90
Weekend	9,807	45	10,433	31	9,830	42	9,790	41	9,769	46
Total	43,790	139	43,394	109	45,172	141	44,055	145	44,401	136

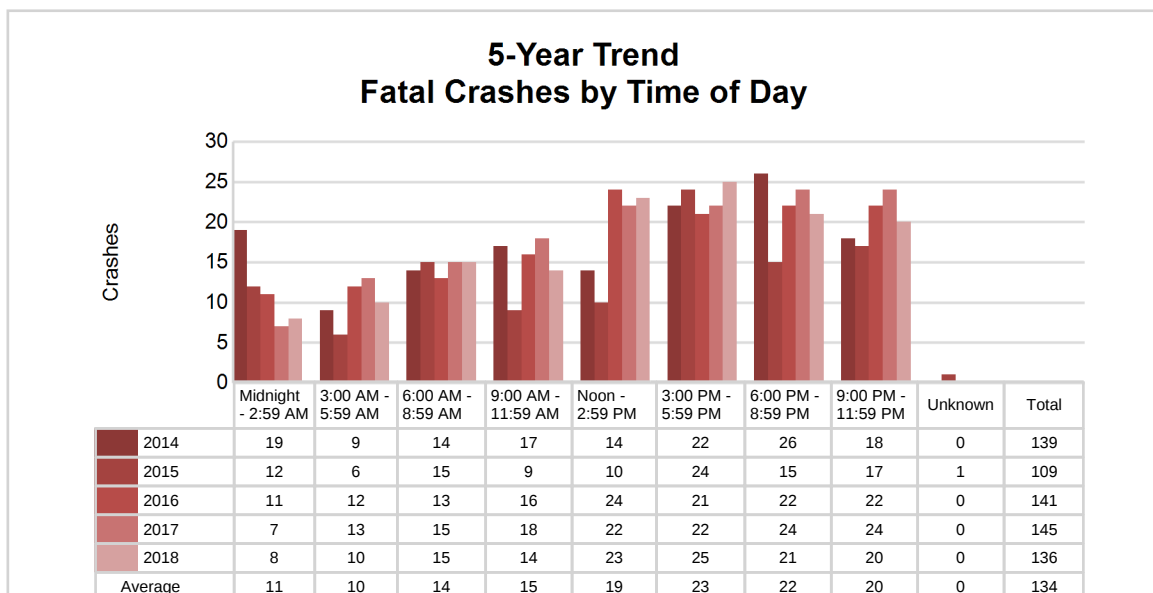
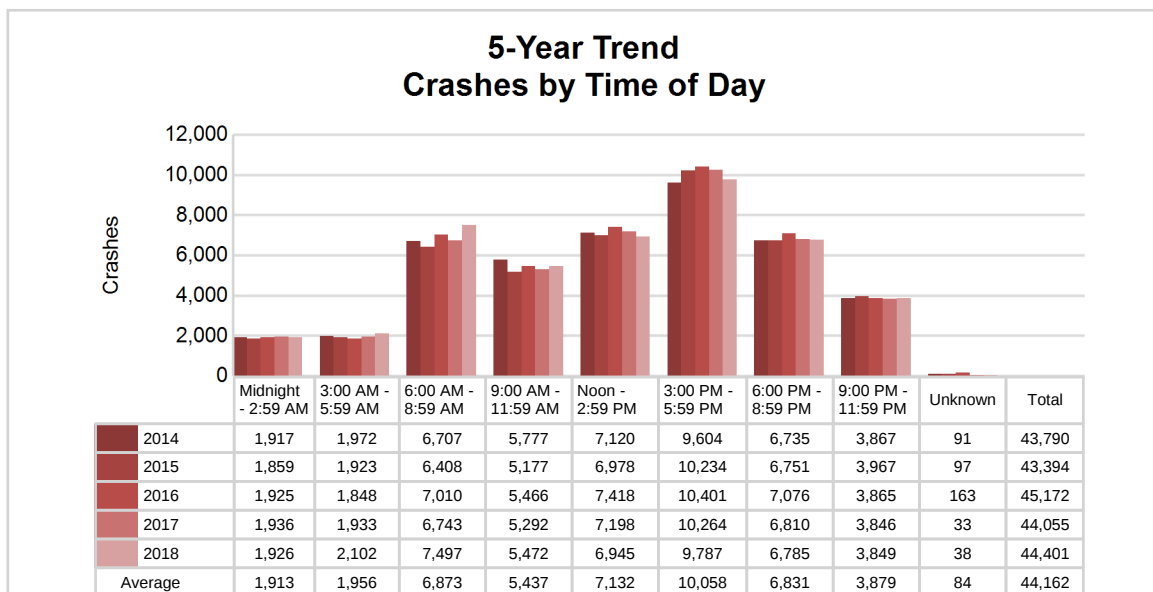
5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



5-Year Trend - Crashes by Time of Day

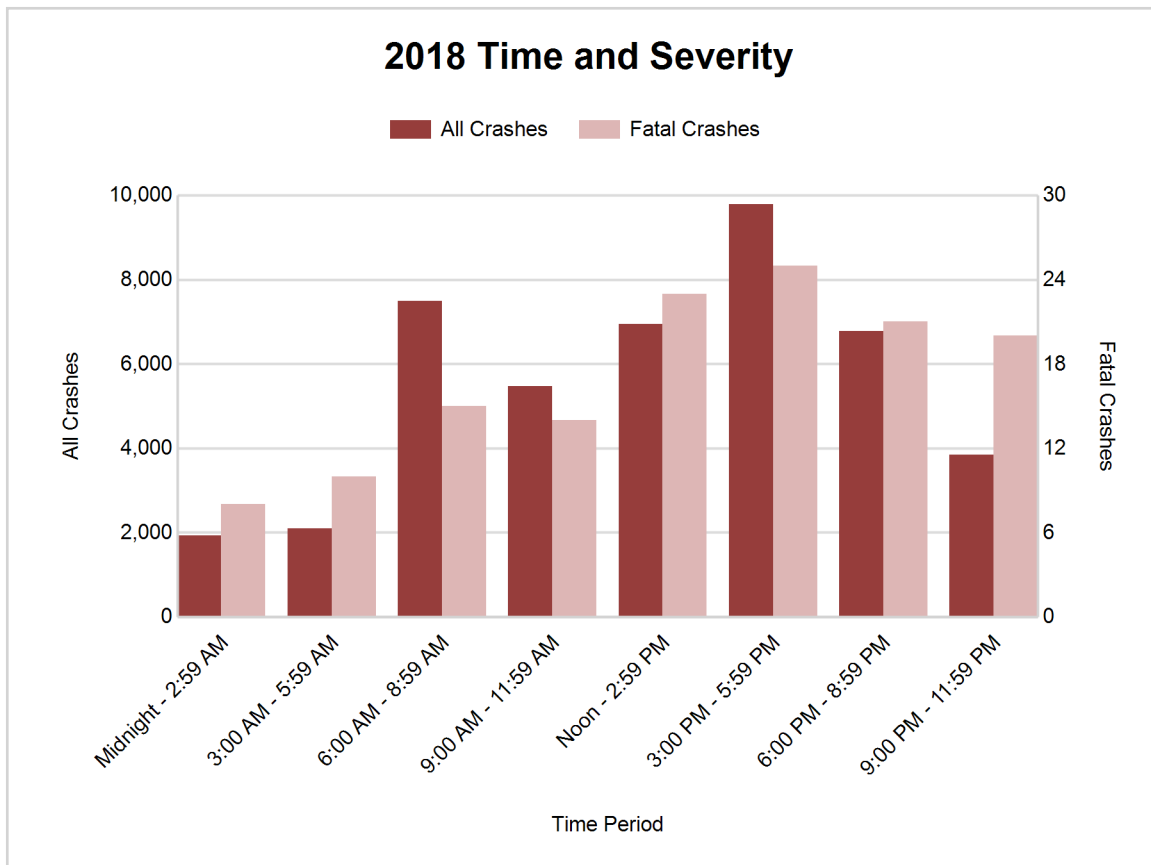
Time of Day	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	1,917	19	1,859	12	1,925	11	1,936	7	1,926	8
3:00 AM - 5:59 AM	1,972	9	1,923	6	1,848	12	1,933	13	2,102	10
6:00 AM - 8:59 AM	6,707	14	6,408	15	7,010	13	6,743	15	7,497	15
9:00 AM - 11:59 AM	5,777	17	5,177	9	5,466	16	5,292	18	5,472	14
Noon - 2:59 PM	7,120	14	6,978	10	7,418	24	7,198	22	6,945	23
3:00 PM - 5:59 PM	9,604 †	22	10,234 †	24	10,401 †	21	10,264 †	22	9,787 †	25
6:00 PM - 8:59 PM	6,735	26	6,751	15	7,076	22	6,810	24	6,785	21
9:00 PM - 11:59 PM	3,867	18	3,967	17	3,865	22	3,846	24	3,849	20
Unknown	91	0	97	1	163	0	33	0	38	0
Total	43,790	139	43,394	109	45,172	141	44,055	145	44,401	136

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

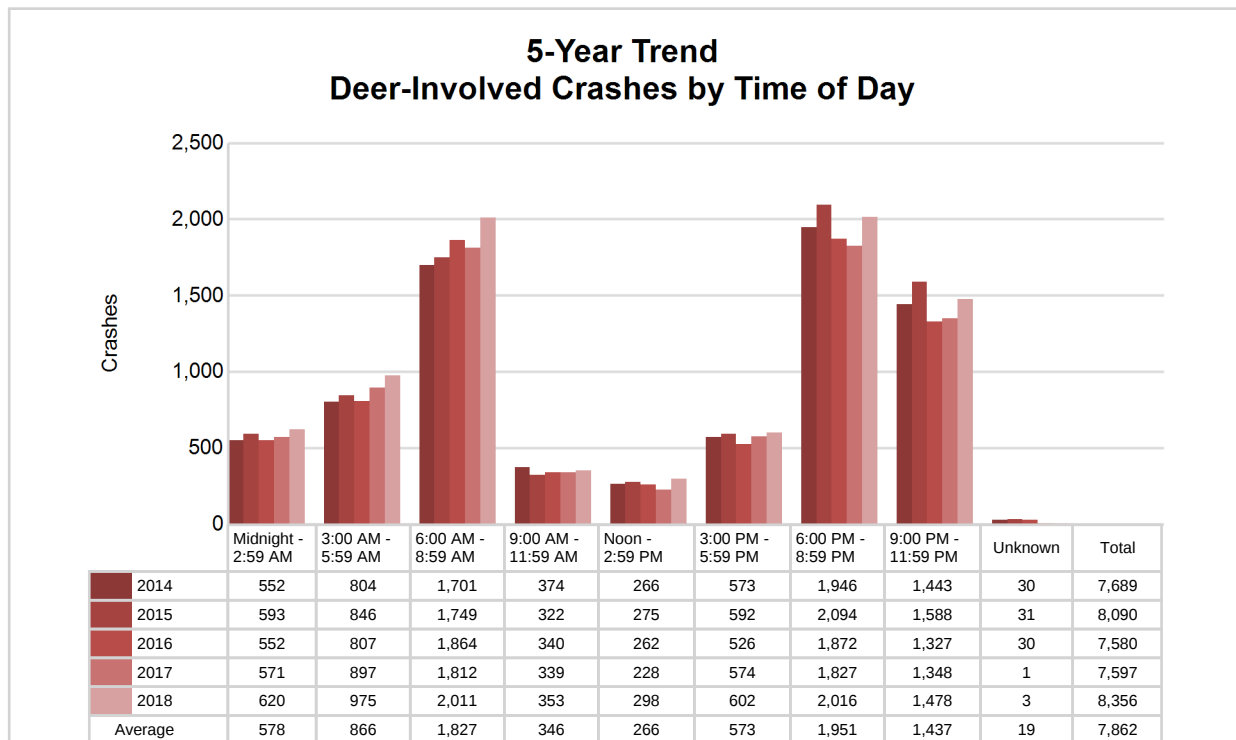
Time of Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Midnight - 2:59 AM	1,926	4.3	8	5.9	55	112	153	1,598
3:00 AM - 5:59 AM	2,102	4.7	10	7.4	46	87	131	1,828
6:00 AM - 8:59 AM	7,497	16.9	15	11.0	71	285	659	6,467
9:00 AM - 11:59 AM	5,472	12.3	14	10.3	79	298	591	4,490
Noon - 2:59 PM	6,945	15.6	23	16.9	118	376	839	5,589
3:00 PM - 5:59 PM	9,787	22.0	25	18.4	138	541	1,084	7,999
6:00 PM - 8:59 PM	6,785	15.3	21	15.4	96	332	644	5,692
9:00 PM - 11:59 PM	3,849	8.7	20	14.7	73	200	313	3,243
Unknown	38	0.1	0	0.0	2	1	0	35
Total	44,401	100.0	136	100.0	678	2,232	4,414	36,941

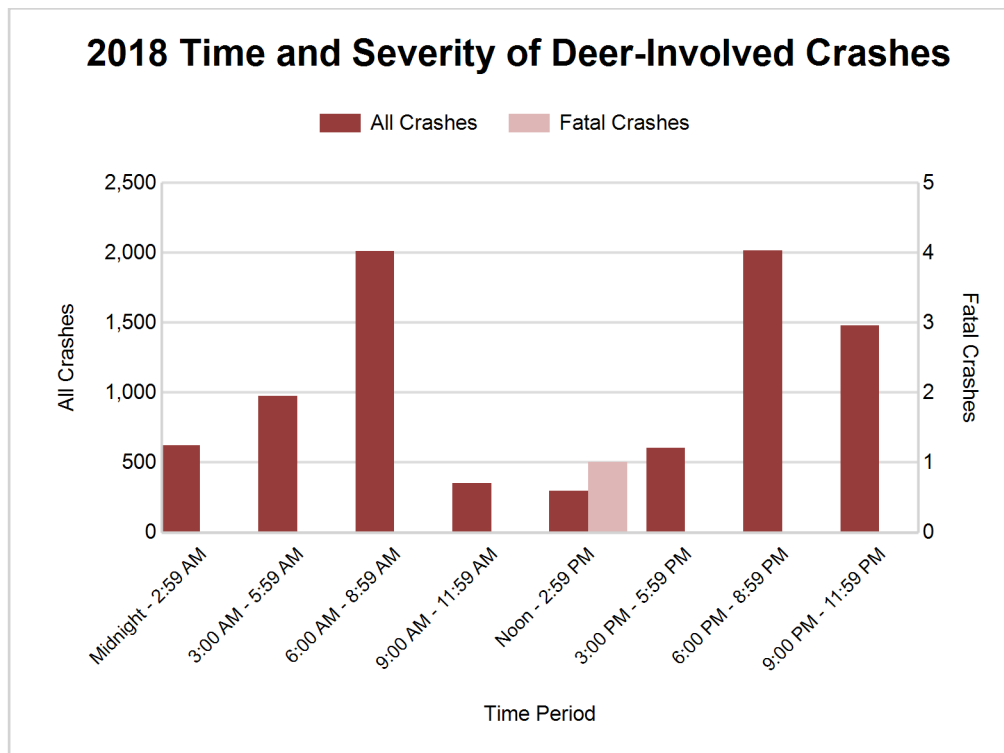


5-Year Trend - Deer-Involved Crashes by Time of Day

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	552	0	593	1	552	0	571	0	620	0
3:00 AM - 5:59 AM	804	0	846	1	807	0	897	1	975	0
6:00 AM - 8:59 AM	1,701	0	1,749	0	1,864	0	1,812	0	2,011	0
9:00 AM - 11:59 AM	374	0	322	0	340	0	339	0	353	0
Noon - 2:59 PM	266	1	275	0	262	0	228	0	298	1
3:00 PM - 5:59 PM	573	0	592	0	526	0	574	0	602	0
6:00 PM - 8:59 PM	1,946 †	1	2,094 †	2	1,872 †	1	1,827 †	0	2,016 †	0
9:00 PM - 11:59 PM	1,443	0	1,588	0	1,327	1	1,348	1	1,478	0
Unknown	30	0	31	0	30	0	1	0	3	0
Total	7,689	2	8,090	4	7,580	2	7,597	2	8,356	1

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





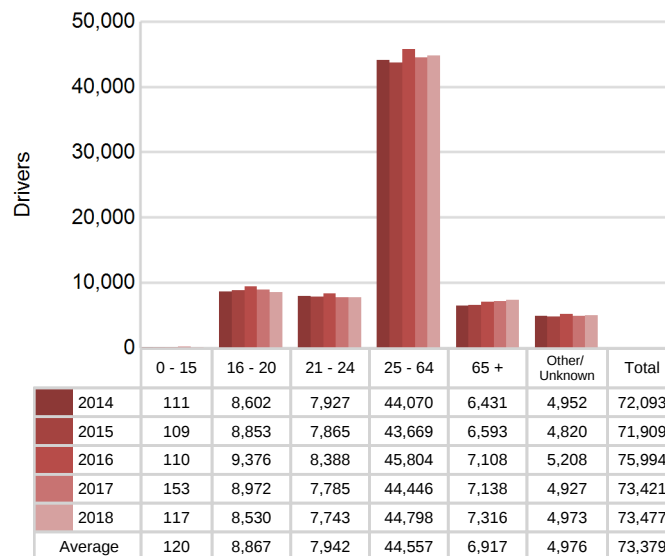
2018 - Reported Motor Vehicle Crashes by County

County	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Clinton	2,487	12	265	2,210	469	361	282	1,371	68	19	1,103	12	381
Eaton	3,250	17	443	2,790	670	0	1,068	1,507	118	38	989	22	614
Hillsdale	1,646	11	190	1,445	0	235	393	1,018	44	19	854	12	267
Ingham	9,554	14	1,841	7,699	1,985	554	2,092	4,921	259	55	931	15	2,452
Jackson	5,354	15	835	4,504	963	333	877	3,174	188	46	1,537	17	1,148
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
Monroe	3,707	24	656	3,027	644	770	377	1,915	185	60	413	29	934
Washtenaw	11,006	25	1,864	9,117	1,614	1,940	1,023	6,423	281	82	1,003	27	2,481
Total	44,401	136	7,324	36,941	7,353	5,457	7,328	24,231	1,444	410	8,356	153	9,933

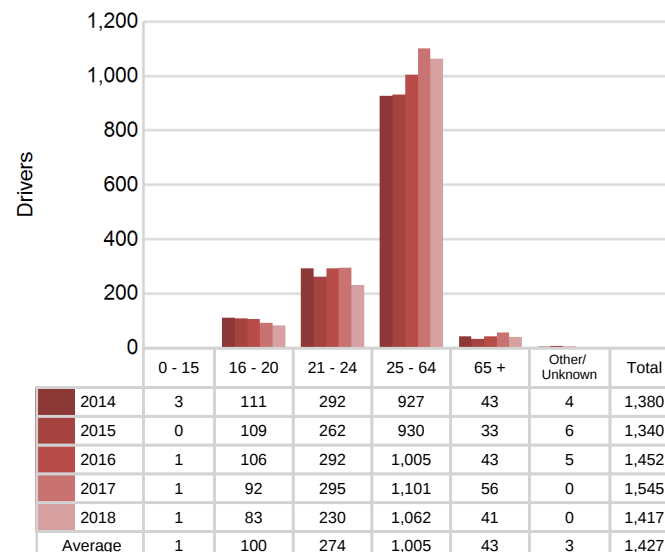
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

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	111	3	109	0	110	1	153	1	117	1
16 - 20	8,602	111	8,853	109	9,376	106	8,972	92	8,530	83
21 - 24	7,927	292	7,865	262	8,388	292	7,785	295	7,743	230
25 - 64	44,070	927	43,669	930	45,804	1,005	44,446	1,101	44,798	1,062
65 +	6,431	43	6,593	33	7,108	43	7,138	56	7,316	41
Unknown	4,952	4	4,820	6	5,208	5	4,927	0	4,973	0
Total	72,093	1,380	71,909	1,340	75,994	1,452	73,421	1,545	73,477	1,417

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



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



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	17,228	74	16,857	59	16,561	81	16,702	77	17,493	55
Head-on	506	18	468	19	455	13	410	14	399	19
Head-on / left turn	707	7	841	2	923	4	901	5	903	8
Angle	6,893	23	6,583	16	6,880	24	6,405	24	6,222	23
Rear-end	10,221	6	10,552	8	11,587	13	10,832	12	10,550	12
Rear-end left turn	373	2	424	0	491	2	455	1	332	3
Rear-end right turn	386	0	421	0	408	0	371	0	353	1
Sideswipe same direction	4,377	3	4,481	2	4,715	0	4,618	6	4,727	2
Sideswipe opposite direction	963	1	829	0	840	2	687	0	712	1
Backing	0	0	0	0	465	0	826	0	954	1
Other / Unknown	2,133	5	1,938	3	1,832	2	1,848	6	1,756	11
Uncoded and Errors	3	0	0	0	15	0	0	0	0	0
Total	43,790	139	43,394	109	45,172	141	44,055	145	44,401	136

5-Year Trend
Crashes by Crash Type

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	2	1	0	1	0	0	0	0	1
16 - 20	135	102	71	83	0	8	25	10	40
21 - 24	270	236	196	230	0	27	64	43	96
25 - 64	1,414	1,122	881	1,062	2	98	207	274	481
65 +	89	54	36	41	0	7	13	11	10
Unknown	127	1	0	0	0	0	0	0	0
Total	2,037	1,516	1,184	1,417	2	140	309	338	628

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 2,037 drivers in alcohol-involved crashes; 1,417 (69.6%) of those drivers were coded as had-been-drinking by the officer on the crash form.

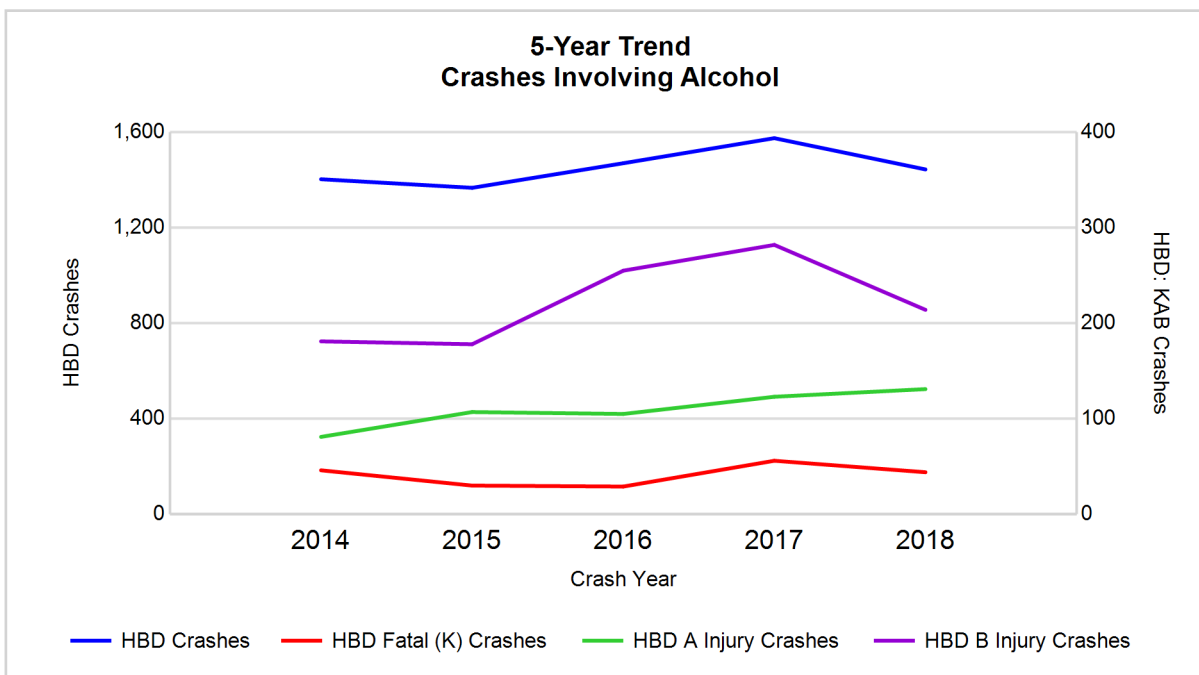
- 647 (45.7%) of the 1,417 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 338 (52.2%) of the 647 drivers had a BAC at or above 0.17 g/dL.
- 1,184 (83.6%) of the 1,417 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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	43,790	1,403	3.2	139	46	33.1	581	81	13.9	1,843	181	9.8
2015	43,394	1,367	3.2	109	30	27.5	561	107	19.1	1,907	178	9.3
2016	45,172	1,470	3.3	141	29	20.6	645	105	16.3	2,200	255	11.6
2017	44,055	1,575	3.6	145	56	38.6	714	123	17.2	2,335	282	12.1
2018	44,401	1,444	3.3	136	44	32.4	678	131**	19.3**	2,232	214	9.6

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



Note: Had-Been-Drinking (HBD)

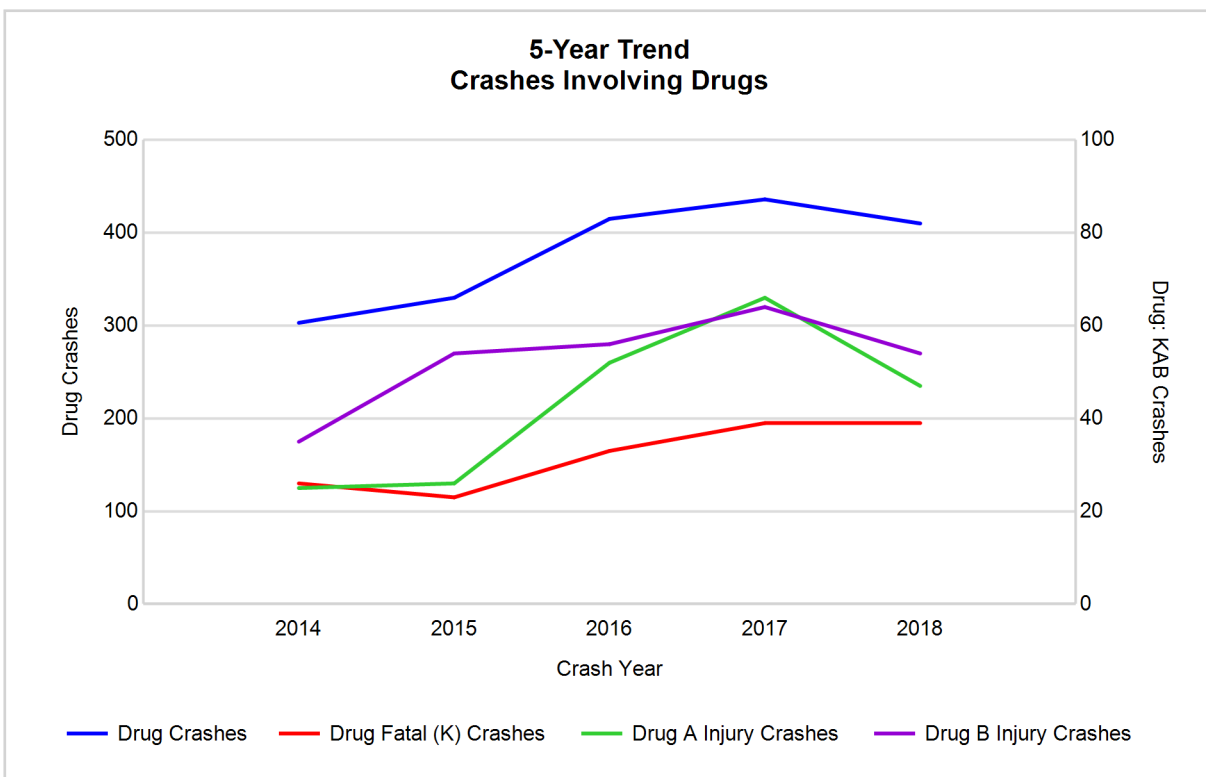
MDOT Region - University (continued)

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	43,790	303	0.7	139	26	18.7	581	25	4.3	1,843	35	1.9
2015	43,394	330	0.8	109	23	21.1	561	26	4.6	1,907	54	2.8
2016	45,172	415	0.9	141	33	23.4	645	52	8.1	2,200	56	2.5
2017	44,055	436	1.0	145	39	26.9	714	66	9.2	2,335	64	2.7
2018	44,401	410	0.9	136	39	28.7**	678	47	6.9	2,232	54	2.4

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

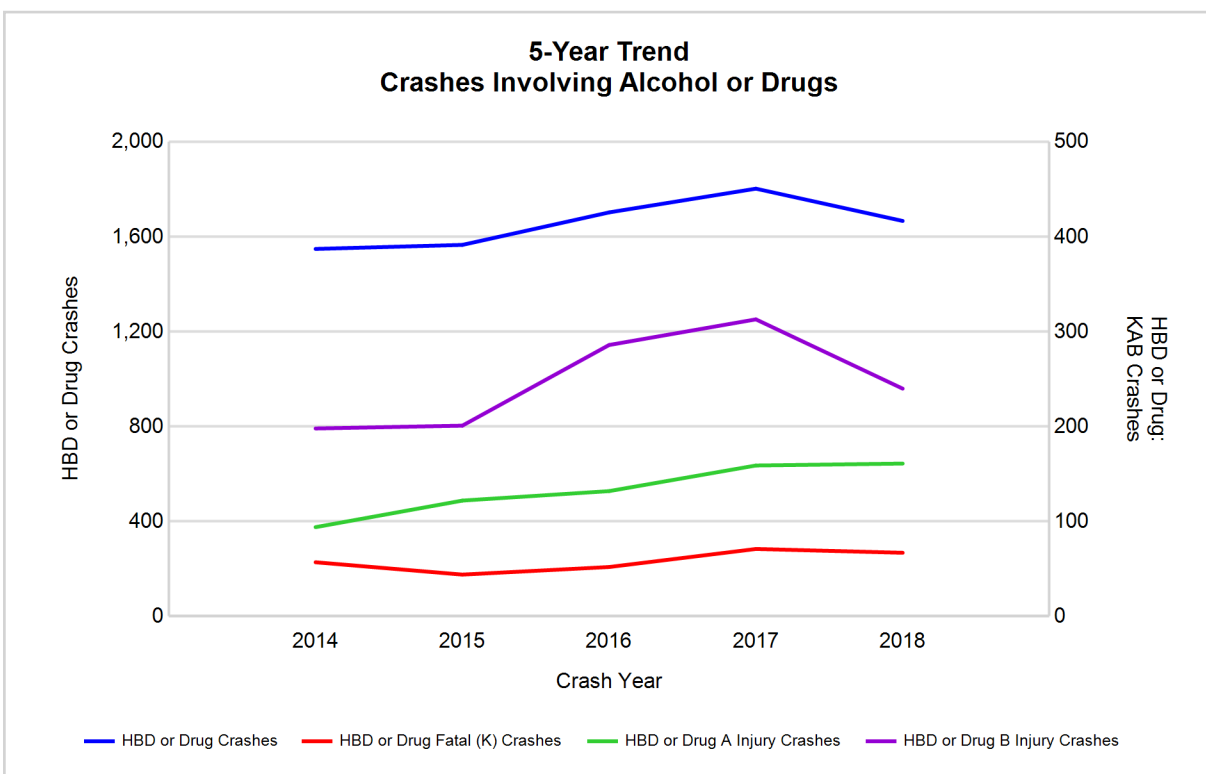


5-Year Trend - Crashes Involving Alcohol or Drugs

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	43,790	1,549	3.5	139	57	41.0	581	94	16.2	1,843	198	10.7
2015	43,394	1,566	3.6	109	44	40.4	561	122	21.7	1,907	201	10.5
2016	45,172	1,703	3.8	141	52	36.9	645	132	20.5	2,200	286	13.0
2017	44,055	1,803	4.1	145	71	49.0	714	159	22.3	2,335	313	13.4
2018	44,401	1,667	3.8	136	67	49.3**	678	161**	23.7**	2,232	240	10.8

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	62,047	57,139	92.1	85	56	65.9	543	432	79.6	2,083	1,943	93.3	5,386	5,127	95.2	50,893	49,579	97.4
Motor home	287	274	95.5	1	1	100.0	0	0	0.0	12	11	91.7	22	21	95.5	248	241	97.2
Pickup truck	8,182	7,404	90.5	12	4	33.3	68	47	69.1	243	211	86.8	495	462	93.3	6,921	6,679	96.5
Small truck under 10,000 lbs. GVWR	402	357	88.8	0	0	0.0	1	1	100.0	9	9	100.0	17	17	100.0	343	329	95.9
Motorcycle	426	285	66.9	30	18	60.0	97	60	61.9	138	90	65.2	71	57	80.3	81	60	74.1
Moped / goped	107	21	19.6	0	0	0.0	12	3	25.0	47	9	19.1	19	3	15.8	26	6	23.1
Go-cart / golf cart	2	1	50.0	0	0	0.0	0	0	0.0	0	0	0.0	1	1	100.0	1	0	0.0
Snowmobile	1	1	100.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	1	1	100.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	22	3	13.6	1	1	100.0	4	1	25.0	6	0	0.0	3	1	33.3	7	0	0.0
Other	370	241	65.1	2	0	0.0	3	1	33.3	10	6	60.0	18	10	55.6	284	224	78.9
Truck/bus over 10,000 lbs.	2,478	2,246	90.6	5	2	40.0	24	14	58.3	46	34	73.9	114	85	74.6	2,179	2,111	96.9
Unknown	1,355	10	0.7	0	0	0.0	4	0	0.0	5	5	100.0	4	0	0.0	29	5	17.2
Total	75,679	67,982	89.8	136	82	60.3	756	559	73.9	2,599	2,318	89.2	6,150	5,784	94.0	61,013	59,235	97.1

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	659	579	87.9	2	1	50.0	22	10	45.5	96	79	82.3	434	399	91.9	103	90	87.4
16 - 20	8,895	8,518	95.8	10	8	80.0	110	69	62.7	412	356	86.4	783	728	93.0	7,562	7,357	97.3
21 - 24	7,903	7,574	95.8	13	9	69.2	65	46	70.8	285	255	89.5	577	539	93.4	6,943	6,725	96.9
25 - 64	45,677	43,946	96.2	83	48	57.8	465	348	74.8	1,455	1,295	89.0	3,649	3,431	94.0	39,916	38,822	97.3
65 +	7,569	7,358	97.2	28	16	57.1	94	86	91.5	351	333	94.9	701	683	97.4	6,382	6,239	97.8
Unknown	4,976	7	0.1	0	0	0.0	0	0	0.0	0	0	0.0	6	4	66.7	107	2	1.9
Total	75,679	67,982	89.8	136	82	60.3	756	559	73.9	2,599	2,318	89.2	6,150	5,784	94.0	61,013	59,235	97.1

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	236	1	38	209	1	36	179	0	29	117	0	17	121	1	20
Shoulder belt only used	192	1	17	71	0	9	287	0	41	234	0	38	219	0	30
Lap belt only used	197	0	19	183	2	20	169	0	19	141	0	16	122	1	20
Both lap & shoulder belts used	64,424	48	6,040	64,440	30	6,194	67,623	45	6,755	65,436	49	6,605	65,434	51	6,513
No belts used	456	19	177	469	15	152	438	19	166	387	24	159	372	23	154
Child restraint used	0	0	0	3	0	0	6	0	1	9	0	0	0	0	0
Child restraint not used, unavailable or improper use	3	0	0	1	0	0	1	0	0	0	0	0	0	0	0
Restraint failure	10	0	1	15	0	3	15	0	1	13	0	5	13	0	1
Restraint use unknown	2,813	12	147	2,598	5	174	4,697	11	221	5,343	7	230	5,563	7	234
Helmet worn	350	13	245	359	11	241	316	11	235	317	14	227	294	16	211
Helmet not worn	170	12	119	220	10	158	227	18	160	199	11	152	186	8	138
Helmet use unknown	35	1	16	42	3	19	41	0	26	25	1	15	19	1	10
Uncoded & errors	3,207	0	4	3,299	0	2	1,995	0	2	1,200	0	1	1,134	0	0
Total	72,093	107	6,823	71,909	77	7,008	75,994	104	7,656	73,421	106	7,465	73,477	108	7,331

5-Year Trend - Restraint Use Among Drivers Coded Drinking

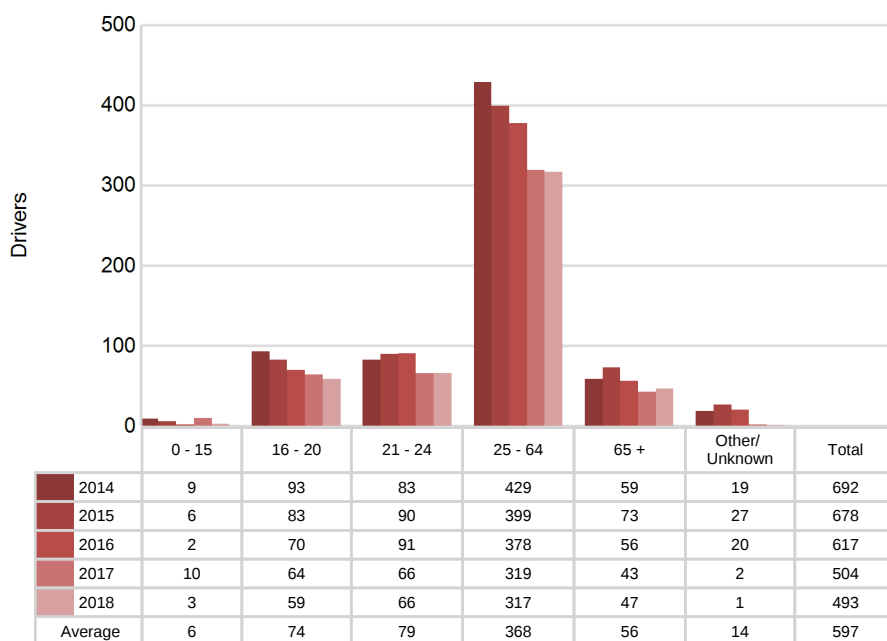
Restraint Use	2014			2015			2016			2017			2018		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	8	1	2	9	0	5	4	0	2	1	0	0	4	0	1
Shoulder belt only used	5	1	3	0	0	0	9	0	1	2	0	1	7	0	2
Lap belt only used	5	0	1	6	2	2	3	0	0	3	0	2	1	0	0
Both lap & shoulder belts used	1,028	12	265	1,001	4	279	1,074	5	355	1,122	9	369	1,050	9	341
No belts used	88	8	58	69	7	40	77	7	48	98	12	54	81	9	47
Child restraint used	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Child restraint not used, unavailable or improper use	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Restraint failure	3	0	0	1	0	1	0	0	0	0	0	0	1	0	1
Restraint use unknown	207	6	60	205	1	67	228	1	85	279	5	89	238	3	80
Helmet worn	13	2	8	14	0	13	14	2	11	12	3	9	13	4	8
Helmet not worn	19	4	12	32	5	23	38	3	32	25	4	21	20	5	15
Helmet use unknown	1	0	1	3	1	1	2	0	1	2	0	2	2	0	0
Uncoded & errors	2	0	0	0	0	0	3	0	0	0	0	0	0	0	0
Total	1,380	34	410	1,340	20	431	1,452	18	535	1,545	33	547	1,417	30	495

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	9	0	4	6	0	3	2	0	1	10	0	4	3	0	0
16 - 20	93	2	33	83	1	24	70	1	26	64	1	26	59	0	24
21 - 24	83	4	27	90	2	35	91	3	34	66	5	28	66	4	24
25 - 64	429	12	133	399	12	112	378	11	111	319	16	109	317	15	113
65 +	59	2	17	73	1	13	56	4	23	43	2	9	47	5	13
Unknown	19	0	1	27	0	1	20	0	0	2	0	0	1	0	0
Total	692	20	215	678	16	188	617	19	195	504	24	176	493	24	174

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

5-Year Trend Driver Seatbelt Not Used

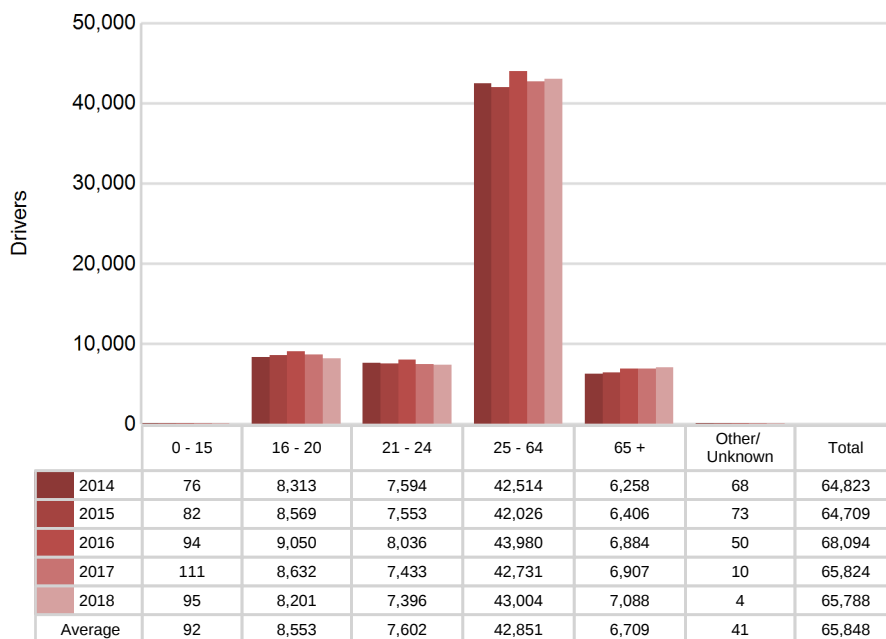


5-Year Trend - Seatbelt Used Among Drivers by Age

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	76	0	10	82	0	9	94	0	9	111	0	13	95	0	6
16 - 20	8,313	7	774	8,569	6	875	9,050	5	899	8,632	2	905	8,201	7	847
21 - 24	7,594	5	722	7,553	5	672	8,036	3	782	7,433	3	753	7,396	6	675
25 - 64	42,514	23	3,896	42,026	15	3,986	43,980	26	4,327	42,731	32	4,212	43,004	27	4,190
65 +	6,258	14	673	6,406	6	684	6,884	11	799	6,907	12	781	7,088	12	845
Unknown	68	0	2	73	0	0	50	0	0	10	0	0	4	0	1
Total	64,823	49	6,077	64,709	32	6,226	68,094	45	6,816	65,824	49	6,664	65,788	52	6,564

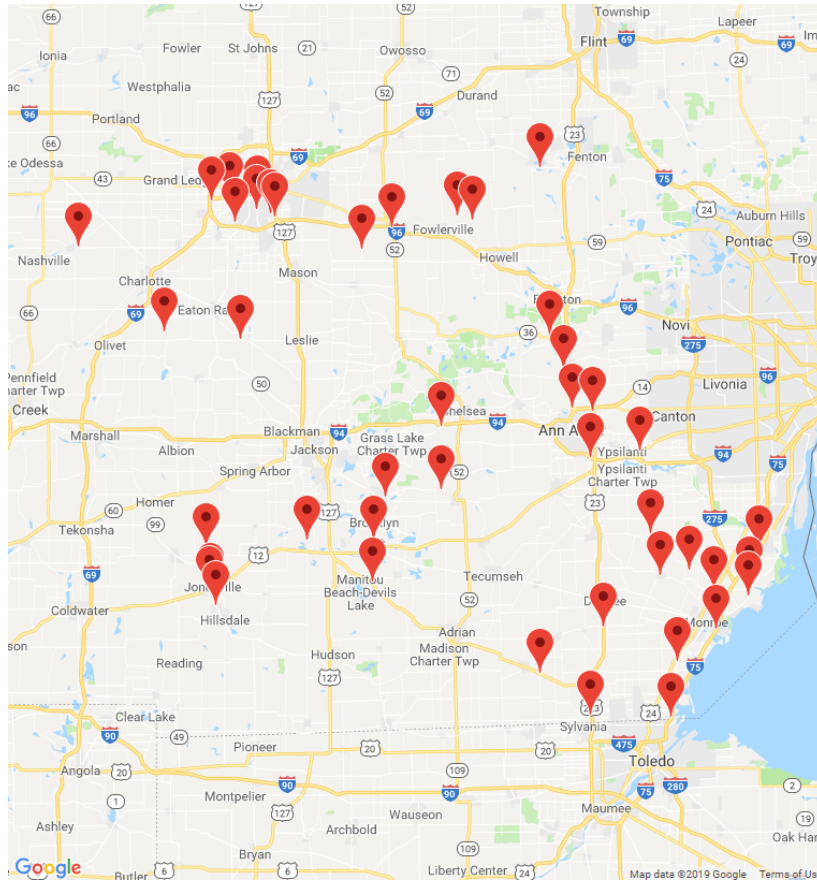
Note: Seatbelt Used includes shoulder belt only used, lap belt only used, both lap and shoulder belts used, and restraint failure.

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	37,156	79	37,724	82	38,985	98	37,378	108	37,971	102
Speed too fast	6,091	30	4,740	25	4,605	33	4,746	25	5,054	29
Speed too slow	45	0	44	0	38	0	33	0	41	0
Failed to yield	6,350	22	6,284	8	7,036	13	6,838	19	6,733	18
Disregard traffic control	1,115	10	1,265	7	1,305	8	1,251	7	1,262	7
Drove wrong way	68	3	48	1	49	0	42	2	47	2
Drove left of center	332	9	363	9	326	6	303	7	347	12
Improper passing	355	1	354	0	360	3	368	3	365	0
Improper lane use	1,489	1	1,496	1	1,740	1	1,681	2	1,662	1
Improper turn	683	1	701	0	738	1	679	2	690	0
Improper/no signal	102	1	125	0	99	0	90	0	96	0
Improper backing	1,185	0	1,106	0	1,098	0	1,066	0	987	0
Unable to stop in assured clear distance	9,413	6	9,844	6	11,032	10	10,313	9	9,854	6
Other	2,031	10	1,883	8	1,905	6	1,944	8	1,966	13
Unknown	2,205	15	2,253	17	2,608	18	2,853	18	2,869	20
Reckless driving	326	7	372	3	385	6	410	13	324	10
Careless/negligent driving	2,371	21	2,560	15	2,487	19	2,223	13	2,038	20
Uncoded & errors	776	2	747	0	1,198	3	1,203	0	1,171	3
Total	72,093	218	71,909	182	75,994	225	73,421	236	73,477	243



The picture above represents all 2018 alcohol-involved fatal crashes in MDOT Region - University.

In 2018, there were 1,444 alcohol-involved crashes in MDOT Region - University:

- 44 K - Fatal Crashes
- 131 A - Suspected Serious Injury Crashes
- 214 B - Suspected Minor Injury Crashes
- 262 C - Possible Injury Crashes
- 793 O - Property Damage Only/No Injury Crashes

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