



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)



## MDOT Region - University

### 2017 Traffic Crash Data & 2013-2017 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 2017:

There were 73,421 drivers involved in 44,055 motor vehicle crashes in MDOT Region University. Of those crashes, 145 were classified as fatal, resulting in 168 fatalities. An additional 10,231 persons were injured.

MDOT Region University experienced the highest number of motor vehicle crashes (5,363) in December, the highest number of fatal crashes (19) and the highest number of persons killed (24) in April.

Michigan driver statistics indicate 6.9 percent of licensed drivers in MDOT Region University were age 16-20, and 12.2 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	3,772	13	575	3,184	15	769
February	2,846	7	419	2,420	10	545
March	3,854	7	695	3,152	7	943
April	2,961	19	516	2,426	24	710
May	3,502	12	669	2,821	17	920
June	3,380	14	678	2,688	14	924
July	2,937	16	614	2,307	18	831
August	3,021	13	665	2,343	13	900
September	3,279	13	689	2,577	15	948
October	4,591	14	755	3,822	16	1,006
November	4,549	11	612	3,926	11	823
December	5,363	6	705	4,652	8	912
<b>Total</b>	<b>44,055</b>	<b>145</b>	<b>7,592</b>	<b>36,318</b>	<b>168</b>	<b>10,231</b>

### 2017 - Driver Statistics

Age Group	MDOT Region - University			Driver Rates	
	2017 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	267,523	8,101	153	5.7	188.9
16 - 20	126,597	75,238	8,972	708.7	1,192.5
21 - 24	109,178	76,209	7,785	713.1	1,021.5
25 - 64	752,823	711,108	44,446	590.4	625.0
65 +	231,604	212,210	7,138	308.2	336.4
Unknown	0	0	4,927	- -	- -
<b>Total</b>	<b>1,487,725</b>	<b>1,082,866</b>	<b>73,421</b>	<b>493.5</b>	<b>678.0</b>

### 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	60,300	82.1	159	67.4	11,055	49,086
Motor home	274	0.4	1	0.4	43	230
Pickup truck	8,042	11.0	26	11.0	1,354	6,662
Small truck under 10,000 lbs. GVWR	462	0.6	1	0.4	66	395
Motorcycle	456	0.6	23	9.7	330	103
Moped / goped	87	0.1	1	0.4	70	16
Go-cart / golf cart	4	0.0	0	0.0	1	3
Snowmobile	0	0.0	0	0.0	0	0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	22	0.0	4	1.7	12	6
Other	339	0.5	1	0.4	43	295
Truck/bus over 10,000 lbs.	2,063	2.8	20	8.5	338	1,705
Unknown	1,372	1.9	0	0.0	112	1,260
<b>Total</b>	<b>73,421</b>	<b>100.0</b>	<b>236</b>	<b>100.0</b>	<b>13,424</b>	<b>59,761</b>

# MDOT Region - University (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	4,023	7	5,924	8	4,840	5	4,135	4	3,772	13
February	3,784	7	4,109	10	3,855	4	3,913	8	2,846	7
March	2,909	11	3,581	7	2,966	7	3,586	5	3,854	7
April	2,747	8	2,638	14	2,612	5	3,112	11	2,961	19
May	3,207	8	3,040	13	3,145	9	3,445	11	3,502	12
June	3,080	11	3,009	19	3,266	15	3,403	15	3,380	14
July	2,884	12	2,778	13	3,118	15	3,138	17	2,937	16
August	2,869	22	2,682	9	2,943	11	3,183	12	3,021	13
September	3,193	13	3,183	18	3,426	9	3,596	21	3,279	13
October	4,256	14	4,306	8	4,396	17	4,307	16	4,591	14
November	4,491	18	5,042	9	5,026	3	4,612	13	4,549	11
December	4,649	7	3,498	11	3,801	9	4,742	8	5,363	6
<b>Total</b>	<b>42,092</b>	<b>138</b>	<b>43,790</b>	<b>139</b>	<b>43,394</b>	<b>109</b>	<b>45,172</b>	<b>141</b>	<b>44,055</b>	<b>145</b>

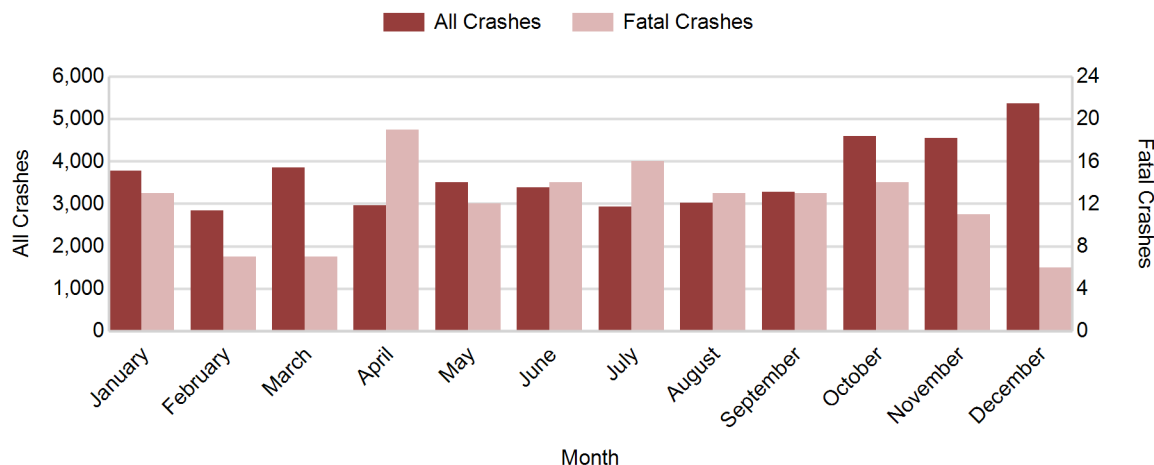
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

## 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	6,279	18	5,918	13	6,379	11	6,195	23	6,514	20
Tuesday	6,302	12	6,495	19	6,567	10	6,969	21	6,679	16
Wednesday	6,319	24	6,971	19	6,690	23	7,235	16	6,678	24
Thursday	6,314	15	7,392	18	6,230	17	7,276	17	6,958	17
Friday	6,850	30	7,207	25	7,095	17	7,667	22	7,436	27
Saturday	5,618	21	5,373	25	5,892	14	5,440	25	5,385	24
Sunday	4,410	18	4,434	20	4,541	17	4,390	17	4,405	17
<b>Total</b>	<b>42,092</b>	<b>138</b>	<b>43,790</b>	<b>139</b>	<b>43,394</b>	<b>109</b>	<b>45,172</b>	<b>141</b>	<b>44,055</b>	<b>145</b>

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

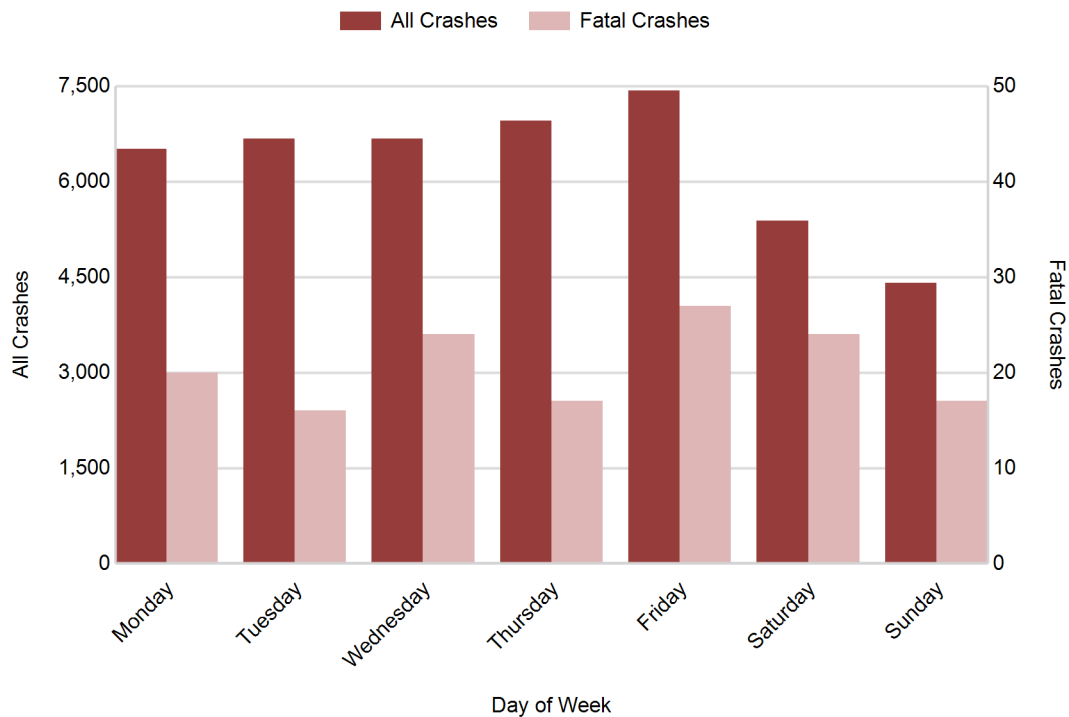
## 2017 Crashes by Month



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	6,514	14.8	20	13.8	89	318	680	5,407
Tuesday	6,679	15.2	16	11.0	96	353	743	5,471
Wednesday	6,678	15.2	24	16.6	103	315	708	5,528
Thursday	6,958	15.8	17	11.7	87	360	741	5,753
Friday	7,436	16.9	27	18.6	128	399	721	6,161
Saturday	5,385	12.2	24	16.6	110	326	493	4,432
Sunday	4,405	10.0	17	11.7	101	264	457	3,566
<b>Total</b>	<b>44,055</b>	<b>100.0</b>	<b>145</b>	<b>100.0</b>	<b>714</b>	<b>2,335</b>	<b>4,543</b>	<b>36,318</b>

2017 Day of Week and Severity

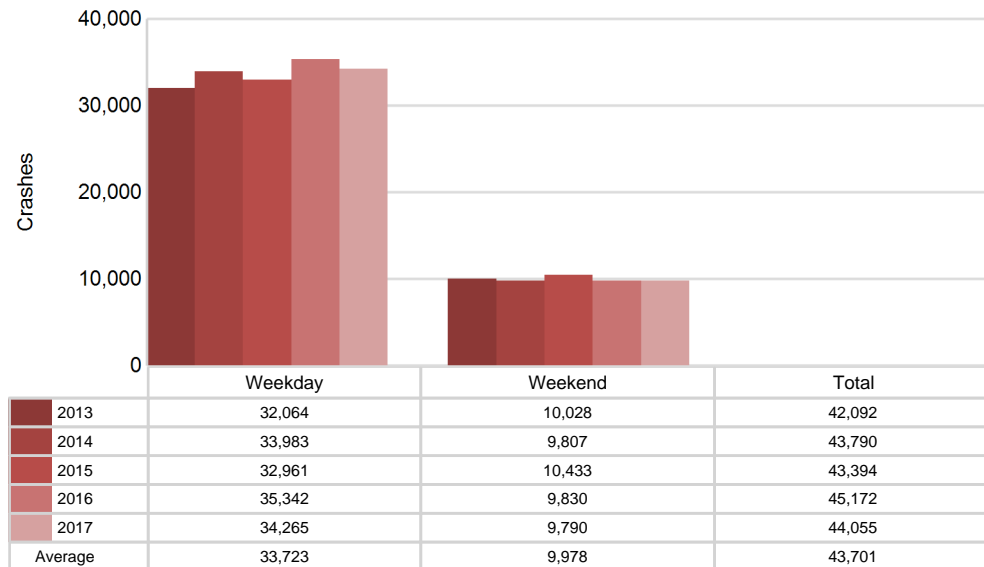


## MDOT Region - University (continued)

### 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	32,064	99	33,983	94	32,961	78	35,342	99	34,265	104
Weekend	10,028	39	9,807	45	10,433	31	9,830	42	9,790	41
<b>Total</b>	<b>42,092</b>	<b>138</b>	<b>43,790</b>	<b>139</b>	<b>43,394</b>	<b>109</b>	<b>45,172</b>	<b>141</b>	<b>44,055</b>	<b>145</b>

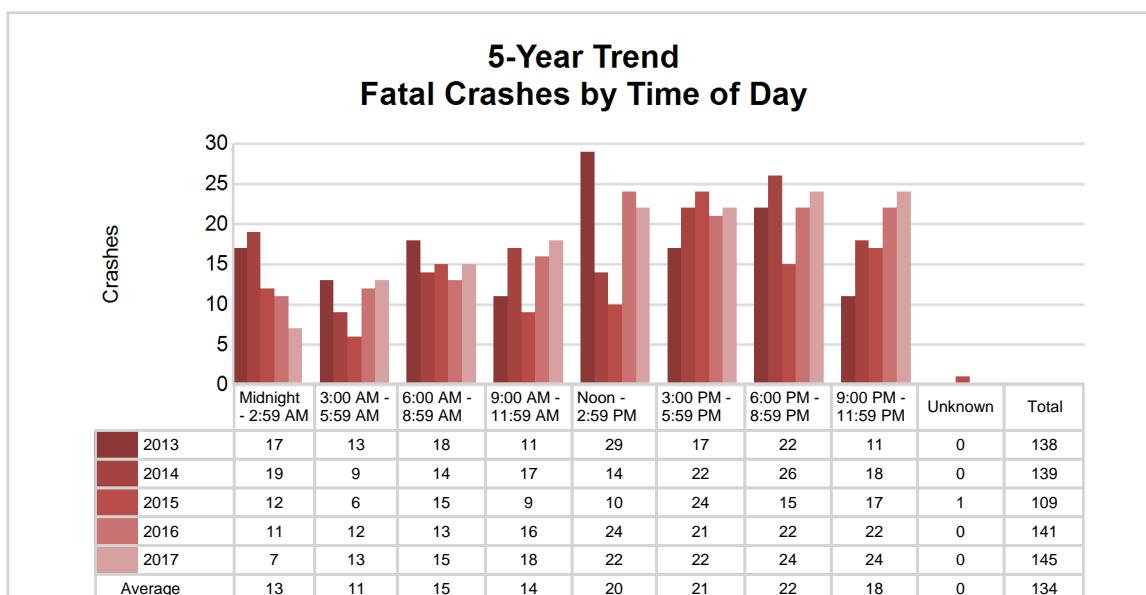
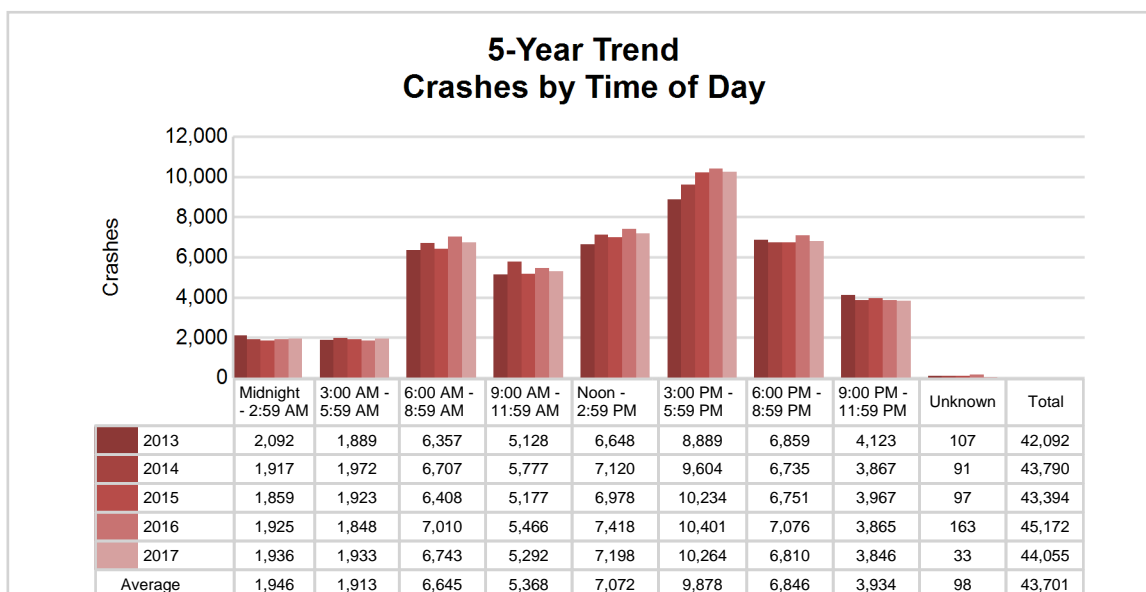
### 5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



## 5-Year Trend - Crashes by Time of Day

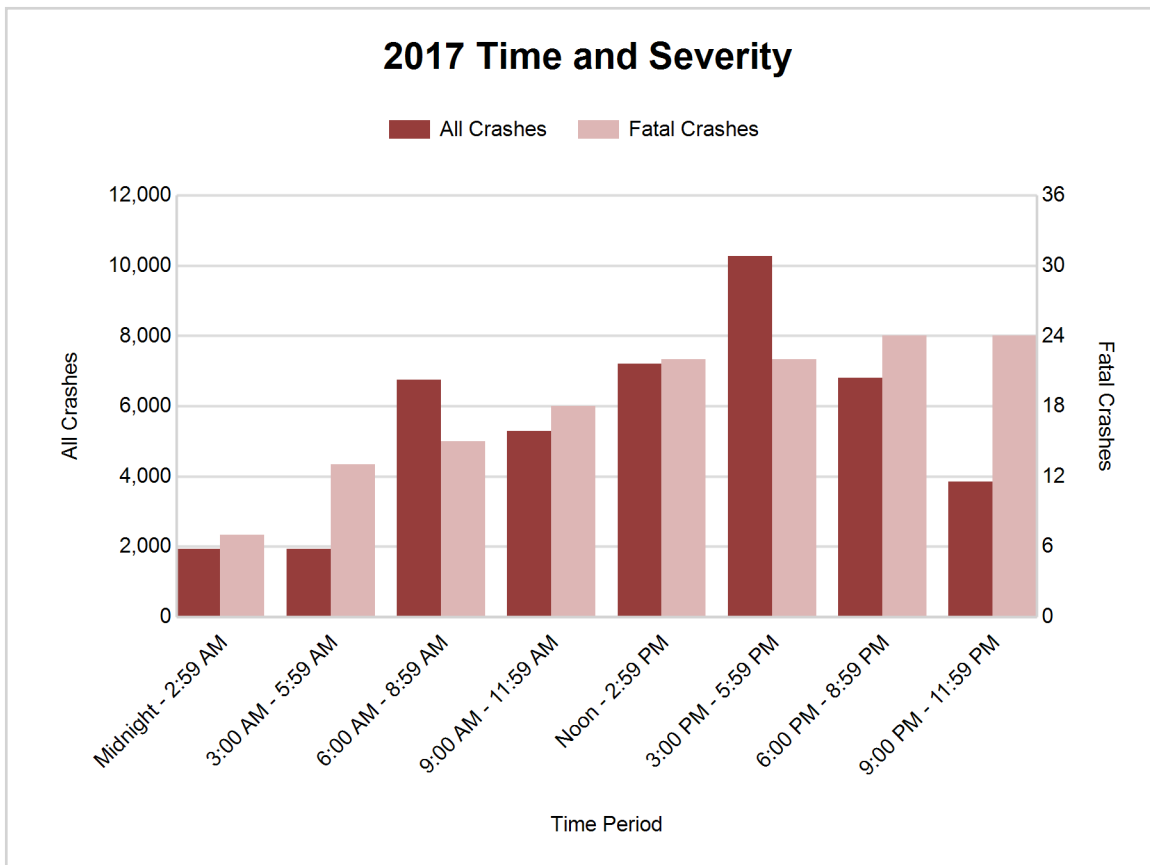
Time of Day	2013		2014		2015		2016		2017	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	2,092	17	1,917	19	1,859	12	1,925	11	1,936	7
3:00 AM - 5:59 AM	1,889	13	1,972	9	1,923	6	1,848	12	1,933	13
6:00 AM - 8:59 AM	6,357	18	6,707	14	6,408	15	7,010	13	6,743	15
9:00 AM - 11:59 AM	5,128	11	5,777	17	5,177	9	5,466	16	5,292	18
Noon - 2:59 PM	6,648	29	7,120	14	6,978	10	7,418	24	7,198	22
3:00 PM - 5:59 PM	8,889 †	17	9,604 †	22	10,234 †	24	10,401 †	21	10,264 †	22
6:00 PM - 8:59 PM	6,859	22	6,735	26	6,751	15	7,076	22	6,810	24
9:00 PM - 11:59 PM	4,123	11	3,867	18	3,967	17	3,865	22	3,846	24
Unknown	107	0	91	0	97	1	163	0	33	0
<b>Total</b>	<b>42,092</b>	<b>138</b>	<b>43,790</b>	<b>139</b>	<b>43,394</b>	<b>109</b>	<b>45,172</b>	<b>141</b>	<b>44,055</b>	<b>145</b>

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	1,936	4.4	7	4.8	58	146	158	1,567
3:00 AM - 5:59 AM	1,933	4.4	13	9.0	41	93	145	1,641
6:00 AM - 8:59 AM	6,743	15.3	15	10.3	76	268	600	5,784
9:00 AM - 11:59 AM	5,292	12.0	18	12.4	65	271	580	4,358
Noon - 2:59 PM	7,198	16.3	22	15.2	128	403	917	5,728
3:00 PM - 5:59 PM	10,264	23.3	22	15.2	163	537	1,193	8,349
6:00 PM - 8:59 PM	6,810	15.5	24	16.6	110	379	607	5,690
9:00 PM - 11:59 PM	3,846	8.7	24	16.6	73	238	343	3,168
Unknown	33	0.1	0	0.0	0	0	0	33
<b>Total</b>	<b>44,055</b>	<b>100.0</b>	<b>145</b>	<b>100.0</b>	<b>714</b>	<b>2,335</b>	<b>4,543</b>	<b>36,318</b>

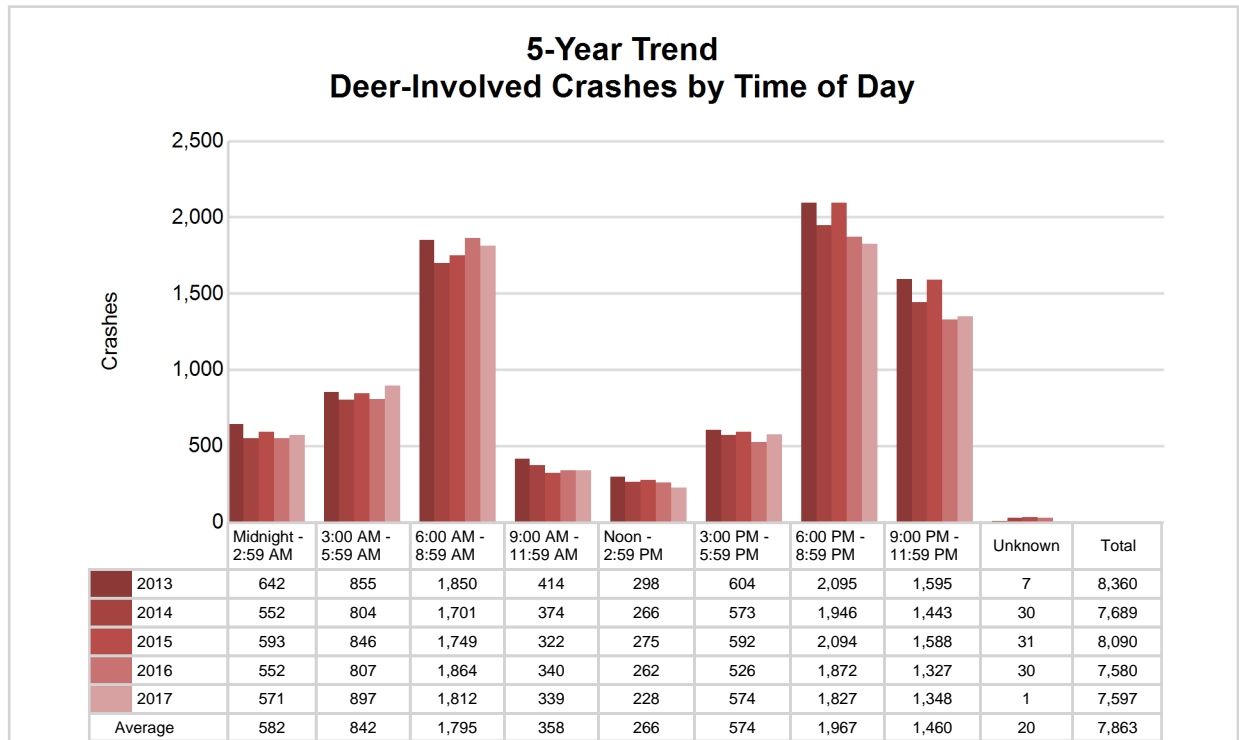


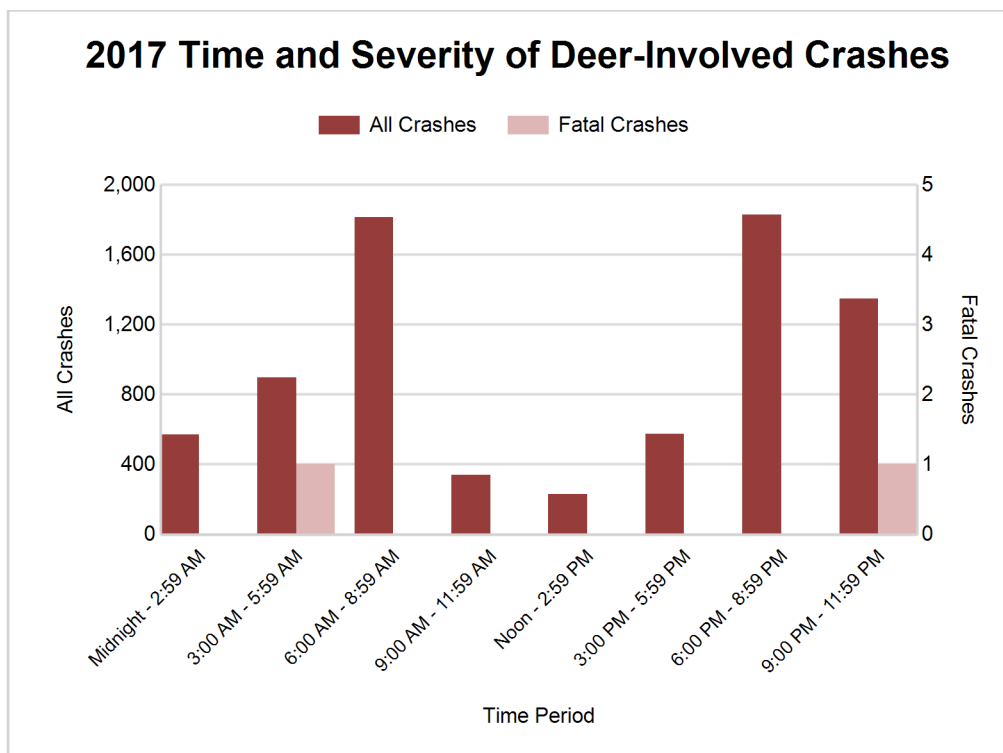


## 5-Year Trend - Deer-Involved Crashes by Time of Day

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	642	0	552	0	593	1	552	0	571	0
3:00 AM - 5:59 AM	855	0	804	0	846	1	807	0	897	1
6:00 AM - 8:59 AM	1,850	0	1,701	0	1,749	0	1,864	0	1,812	0
9:00 AM - 11:59 AM	414	0	374	0	322	0	340	0	339	0
Noon - 2:59 PM	298	0	266	1	275	0	262	0	228	0
3:00 PM - 5:59 PM	604	0	573	0	592	0	526	0	574	0
6:00 PM - 8:59 PM	2,095 †	1	1,946 †	1	2,094 †	2	1,872 †	1	1,827 †	0
9:00 PM - 11:59 PM	1,595	0	1,443	0	1,588	0	1,327	1	1,348	1
Unknown	7	0	30	0	31	0	30	0	1	0
<b>Total</b>	<b>8,360</b>	<b>1</b>	<b>7,689</b>	<b>2</b>	<b>8,090</b>	<b>4</b>	<b>7,580</b>	<b>2</b>	<b>7,597</b>	<b>2</b>

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





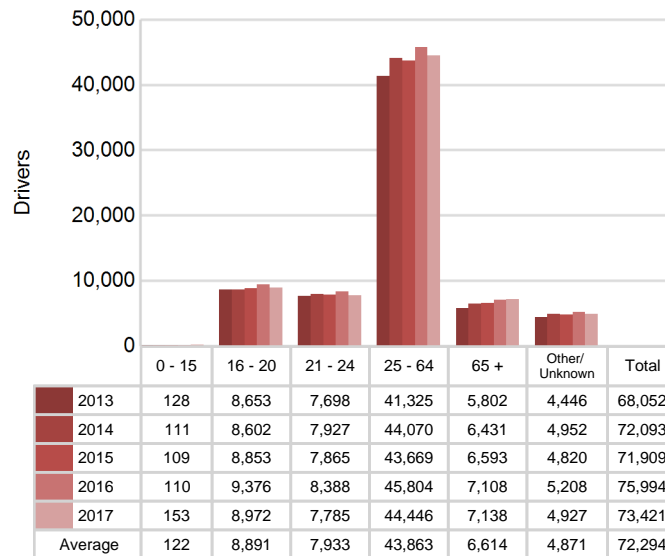
#### 2017 - Reported Motor Vehicle Crashes by County

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	2,251	1	274	1,976	392	352	286	1,215	78	13	948	2	399
Eaton	3,364	12	538	2,814	676	0	1,173	1,513	102	30	936	14	762
Hillsdale	1,591	4	230	1,357	0	213	368	1,008	58	15	794	5	303
Ingham	9,435	24	1,892	7,519	1,867	508	2,126	4,925	261	62	931	26	2,511
Jackson	5,398	16	848	4,534	966	339	851	3,238	214	57	1,310	20	1,147
Lenawee	2,382	15	451	1,916	0	499	599	1,284	109	31	612	16	634
Livingston	4,610	16	724	3,870	919	623	608	2,452	212	71	739	23	941
Monroe	3,693	20	657	3,016	528	786	392	1,985	200	43	365	23	920
Washtenaw	11,331	37	1,978	9,316	1,632	2,019	1,083	6,593	341	114	962	39	2,614
<b>Total</b>	<b>44,055</b>	<b>145</b>	<b>7,592</b>	<b>36,318</b>	<b>6,980</b>	<b>5,339</b>	<b>7,486</b>	<b>24,213</b>	<b>1,575</b>	<b>436</b>	<b>7,597</b>	<b>168</b>	<b>10,231</b>

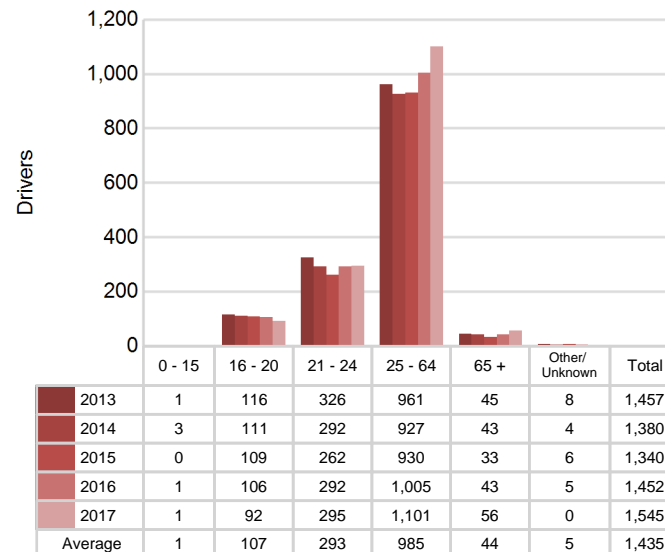
## 5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

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	128	1	111	3	109	0	110	1	153	1
16 - 20	8,653	116	8,602	111	8,853	109	9,376	106	8,972	92
21 - 24	7,698	326	7,927	292	7,865	262	8,388	292	7,785	295
25 - 64	41,325	961	44,070	927	43,669	930	45,804	1,005	44,446	1,101
65 +	5,802	45	6,431	43	6,593	33	7,108	43	7,138	56
Unknown	4,446	8	4,952	4	4,820	6	5,208	5	4,927	0
<b>Total</b>	<b>68,052</b>	<b>1,457</b>	<b>72,093</b>	<b>1,380</b>	<b>71,909</b>	<b>1,340</b>	<b>75,994</b>	<b>1,452</b>	<b>73,421</b>	<b>1,545</b>

**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	2	0	0	1	0	0	0	0	1
16 - 20	139	114	76	92	0	11	25	13	43
21 - 24	367	278	243	295	10	33	73	55	124
25 - 64	1,475	1,103	882	1,101	17	84	220	253	527
65 +	102	76	51	56	1	6	11	16	22
Unknown	120	0	0	0	0	0	0	0	0
<b>Total</b>	<b>2,205</b>	<b>1,571</b>	<b>1,252</b>	<b>1,545</b>	<b>28</b>	<b>134</b>	<b>329</b>	<b>337</b>	<b>717</b>

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 2,205 drivers in alcohol-involved crashes; 1,545 (70.1%) of those drivers were coded as had-been-drinking by the officer on the crash form.

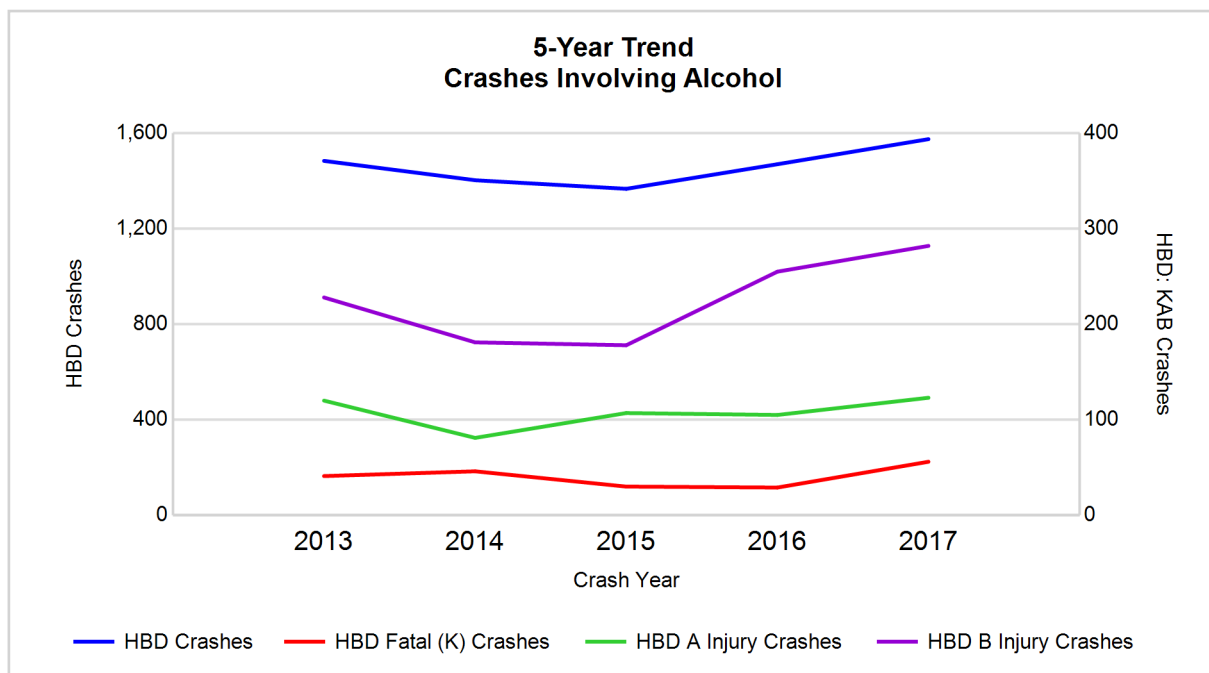
- 666 (43.1%) of the 1,545 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 337 (50.6%) of the 666 drivers had a BAC at or above 0.17 g/dL.
- 1,252 (81.0%) of the 1,545 drivers were coded as had-been-drinking and were tested for alcohol consumption.

**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	42,092	1,484	3.5	138	41	29.7	667	120	18.0	1,985	228	11.5
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**

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



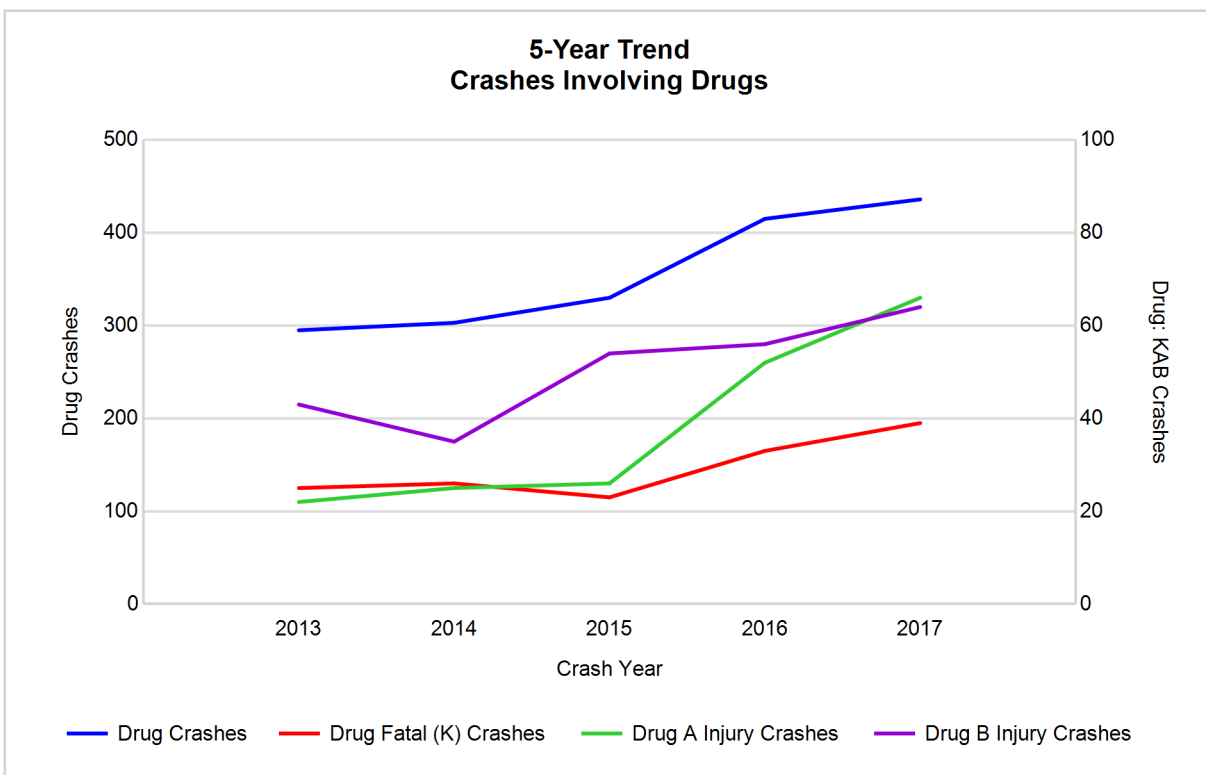
Note: Had-Been-Drinking (HBD)

## 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	42,092	295	0.7	138	25	18.1	667	22	3.3	1,985	43	2.2
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

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

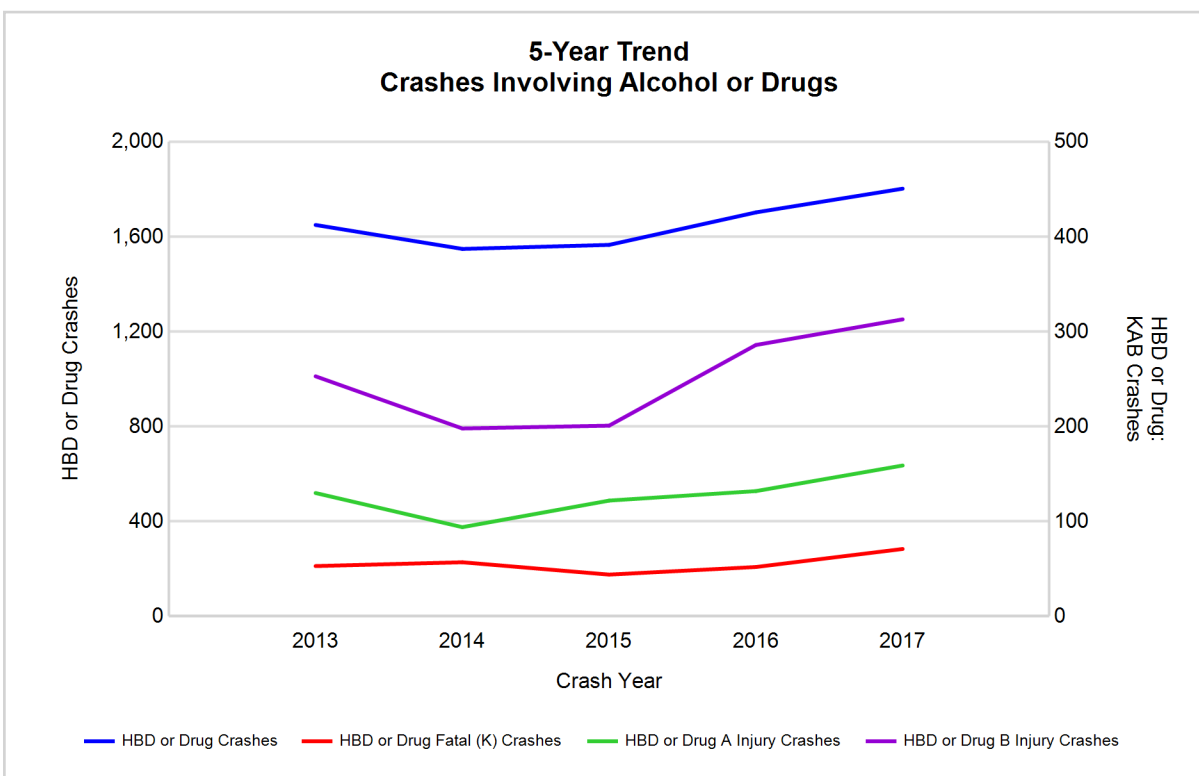


## 5-Year Trend - Crashes Involving Alcohol or Drugs

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	42,092	1,650	3.9	138	53	38.4	667	130	19.5	1,985	253	12.7
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**

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	62,292	57,457	92.2	98	58	59.2	555	453	81.6	2,130	1,960	92.0	5,526	5,307	96.0	50,889	49,618	97.5
Motor home	290	271	93.4	2	2	100.0	2	2	100.0	12	8	66.7	23	23	100.0	241	236	97.9
Pickup truck	8,215	7,479	91.0	9	4	44.4	69	56	81.2	284	232	81.7	462	437	94.6	6,961	6,746	96.9
Small truck under 10,000 lbs. GVWR	466	414	88.8	0	0	0.0	2	2	100.0	6	6	100.0	16	14	87.5	408	392	96.1
Motorcycle	488	318	65.2	23	13	56.5	98	58	59.2	172	116	67.4	85	61	71.8	99	70	70.7
Moped / goped	93	18	19.4	1	0	0.0	17	2	11.8	30	6	20.0	25	5	20.0	19	5	26.3
Go-cart / golf cart	5	1	20.0	0	0	0.0	0	0	0.0	1	0	0.0	0	0	0.0	3	1	33.3
Snowmobile	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	26	3	11.5	4	1	25.0	9	0	0.0	5	1	20.0	2	0	0.0	4	1	25.0
Other	347	237	68.3	0	0	0.0	0	0	0.0	11	7	63.6	17	12	70.6	266	218	82.0
Truck/bus over 10,000 lbs.	2,097	1,932	92.1	3	3	100.0	13	6	46.2	42	30	71.4	80	59	73.8	1,882	1,834	97.4
Unknown	1,373	12	0.9	0	0	0.0	0	0	0.0	1	1	100.0	7	1	14.3	22	10	45.5
<b>Total</b>	<b>75,692</b>	<b>68,142</b>	<b>90.0</b>	<b>140</b>	<b>81</b>	<b>57.9</b>	<b>765</b>	<b>579</b>	<b>75.7</b>	<b>2,694</b>	<b>2,367</b>	<b>87.9</b>	<b>6,243</b>	<b>5,919</b>	<b>94.8</b>	<b>60,794</b>	<b>59,131</b>	<b>97.3</b>

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	744	657	88.3	8	7	87.5	24	19	79.2	94	83	88.3	484	447	92.4	129	101	78.3
16 - 20	9,316	8,951	96.1	8	4	50.0	106	77	72.6	431	373	86.5	813	762	93.7	7,922	7,728	97.6
21 - 24	7,998	7,643	95.6	17	4	23.5	101	75	74.3	347	293	84.4	630	585	92.9	6,867	6,677	97.2
25 - 64	45,325	43,717	96.5	81	50	61.7	443	331	74.7	1,494	1,304	87.3	3,650	3,493	95.7	39,517	38,502	97.4
65 +	7,379	7,159	97.0	26	16	61.5	91	77	84.6	326	313	96.0	659	632	95.9	6,241	6,110	97.9
Unknown	4,930	15	0.3	0	0	0.0	0	0	0.0	2	1	50.0	7	0	0.0	118	13	11.0
<b>Total</b>	<b>75,692</b>	<b>68,142</b>	<b>90.0</b>	<b>140</b>	<b>81</b>	<b>57.9</b>	<b>765</b>	<b>579</b>	<b>75.7</b>	<b>2,694</b>	<b>2,367</b>	<b>87.9</b>	<b>6,243</b>	<b>5,919</b>	<b>94.8</b>	<b>60,794</b>	<b>59,131</b>	<b>97.3</b>

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	227	1	38	236	1	38	209	1	36	179	0	29	117	0	17
Shoulder belt only used	260	1	24	192	1	17	71	0	9	287	0	41	234	0	38
Lap belt only used	135	1	14	197	0	19	183	2	20	169	0	19	141	0	16
Both lap & shoulder belts used	60,958	45	5,906	64,424	48	6,040	64,440	30	6,194	67,623	45	6,755	65,436	49	6,605
No belts used	457	32	177	456	19	177	469	15	152	438	19	166	387	24	159
Child restraint used	2	0	0	0	0	0	3	0	0	6	0	1	9	0	0
Child restraint not used, unavailable or improper use	2	0	0	3	0	0	1	0	0	1	0	0	0	0	0
Restraint failure	13	0	3	10	0	1	15	0	3	15	0	1	13	0	5
Restraint use unknown	2,470	11	165	2,813	12	147	2,598	5	174	4,697	11	221	5,343	7	230
Helmet worn	419	9	299	350	13	245	359	11	241	316	11	235	317	14	227
Helmet not worn	163	6	120	170	12	119	220	10	158	227	18	160	199	11	152
Helmet use unknown	32	0	17	35	1	16	42	3	19	41	0	26	25	1	15
Uncoded & errors	2,914	0	2	3,207	0	4	3,299	0	2	1,995	0	2	1,200	0	1
<b>Total</b>	<b>68,052</b>	<b>106</b>	<b>6,765</b>	<b>72,093</b>	<b>107</b>	<b>6,823</b>	<b>71,909</b>	<b>77</b>	<b>7,008</b>	<b>75,994</b>	<b>104</b>	<b>7,656</b>	<b>73,421</b>	<b>106</b>	<b>7,465</b>

## 5-Year Trend - Restraint Use Among Drivers Coded Drinking

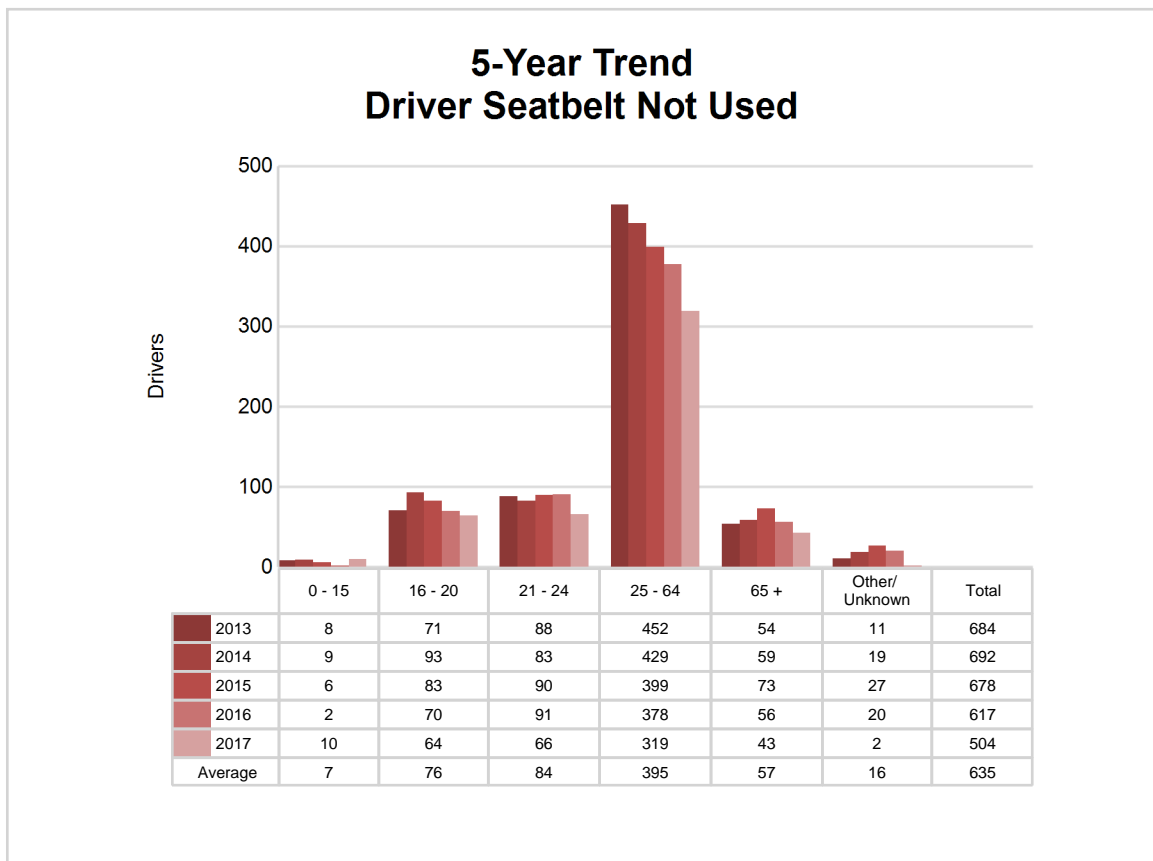
Restraint Use	2013			2014			2015			2016			2017		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	9	0	5	8	1	2	9	0	5	4	0	2	1	0	0
Shoulder belt only used	5	0	2	5	1	3	0	0	0	9	0	1	2	0	1
Lap belt only used	2	0	1	5	0	1	6	2	2	3	0	0	3	0	2
Both lap & shoulder belts used	1,076	9	311	1,028	12	265	1,001	4	279	1,074	5	355	1,122	9	369
No belts used	97	10	57	88	8	58	69	7	40	77	7	48	98	12	54
Child restraint used	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Child restraint not used, unavailable or improper use	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Restraint failure	1	0	1	3	0	0	1	0	1	0	0	0	0	0	0
Restraint use unknown	213	1	62	207	6	60	205	1	67	228	1	85	279	5	89
Helmet worn	18	1	11	13	2	8	14	0	13	14	2	11	12	3	9
Helmet not worn	31	5	24	19	4	12	32	5	23	38	3	32	25	4	21
Helmet use unknown	2	0	1	1	0	1	3	1	1	2	0	1	2	0	2
Uncoded & errors	3	0	0	2	0	0	0	0	0	3	0	0	0	0	0
<b>Total</b>	<b>1,457</b>	<b>26</b>	<b>475</b>	<b>1,380</b>	<b>34</b>	<b>410</b>	<b>1,340</b>	<b>20</b>	<b>431</b>	<b>1,452</b>	<b>18</b>	<b>535</b>	<b>1,545</b>	<b>33</b>	<b>547</b>



## 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	8	0	3	9	0	4	6	0	3	2	0	1	10	0	4
16 - 20	71	4	21	93	2	33	83	1	24	70	1	26	64	1	26
21 - 24	88	4	29	83	4	27	90	2	35	91	3	34	66	5	28
25 - 64	452	18	152	429	12	133	399	12	112	378	11	111	319	16	109
65 +	54	7	10	59	2	17	73	1	13	56	4	23	43	2	9
Unknown	11	0	0	19	0	1	27	0	1	20	0	0	2	0	0
<b>Total</b>	<b>684</b>	<b>33</b>	<b>215</b>	<b>692</b>	<b>20</b>	<b>215</b>	<b>678</b>	<b>16</b>	<b>188</b>	<b>617</b>	<b>19</b>	<b>195</b>	<b>504</b>	<b>24</b>	<b>176</b>

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

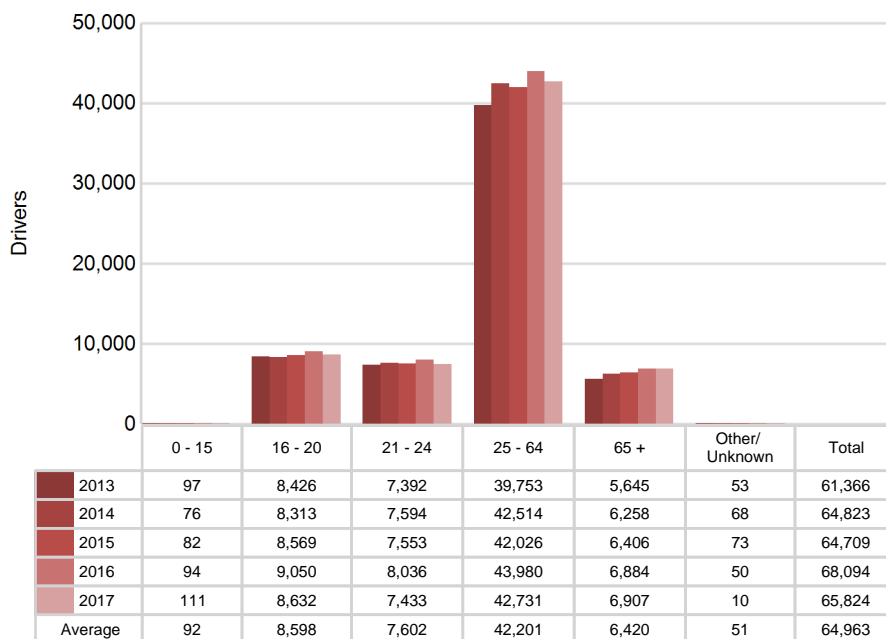


## 5-Year Trend - Seatbelt Used Among Drivers by Age

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	97	0	10	76	0	10	82	0	9	94	0	9	111	0	13
16 - 20	8,426	2	846	8,313	7	774	8,569	6	875	9,050	5	899	8,632	2	905
21 - 24	7,392	5	709	7,594	5	722	7,553	5	672	8,036	3	782	7,433	3	753
25 - 64	39,753	29	3,751	42,514	23	3,896	42,026	15	3,986	43,980	26	4,327	42,731	32	4,212
65 +	5,645	11	631	6,258	14	673	6,406	6	684	6,884	11	799	6,907	12	781
Unknown	53	0	0	68	0	2	73	0	0	50	0	0	10	0	0
<b>Total</b>	<b>61,366</b>	<b>47</b>	<b>5,947</b>	<b>64,823</b>	<b>49</b>	<b>6,077</b>	<b>64,709</b>	<b>32</b>	<b>6,226</b>	<b>68,094</b>	<b>45</b>	<b>6,816</b>	<b>65,824</b>	<b>49</b>	<b>6,664</b>

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

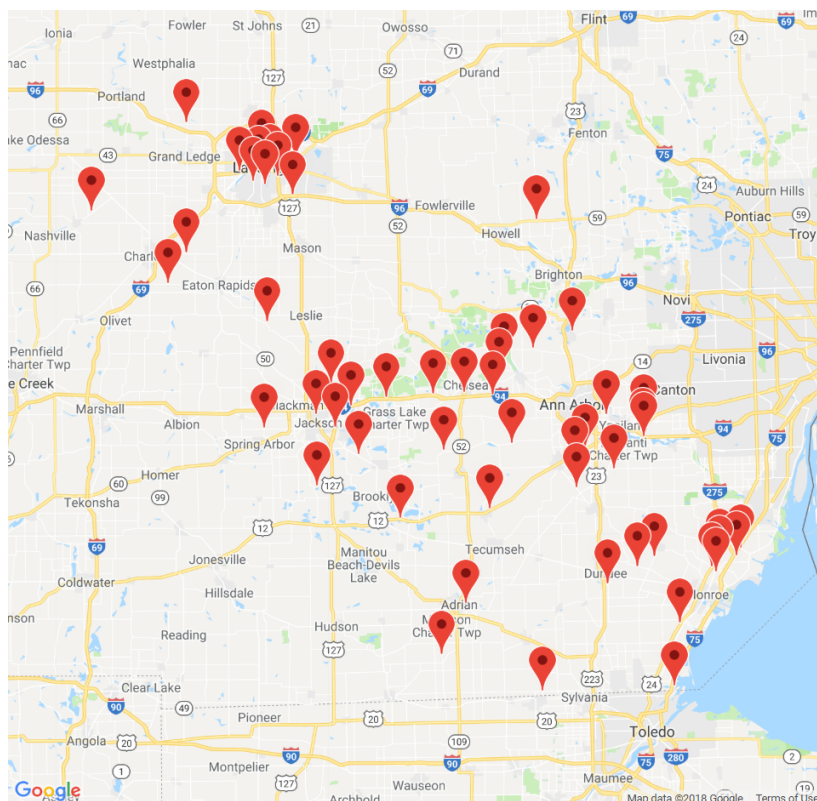
### 5-Year Trend Driver Seatbelt Used



## 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	35,493	84	37,156	79	37,724	82	38,985	98	37,378	108
Speed too fast	5,028	21	6,091	30	4,740	25	4,605	33	4,746	25
Speed too slow	50	1	45	0	44	0	38	0	33	0
Failed to yield	5,912	18	6,350	22	6,284	8	7,036	13	6,838	19
Disregard traffic control	1,082	7	1,115	10	1,265	7	1,305	8	1,251	7
Drove wrong way	61	0	68	3	48	1	49	0	42	2
Drove left of center	322	14	332	9	363	9	326	6	303	7
Improper passing	319	2	355	1	354	0	360	3	368	3
Improper lane use	1,353	2	1,489	1	1,496	1	1,740	1	1,681	2
Improper turn	634	0	683	1	701	0	738	1	679	2
Improper/no signal	99	1	102	1	125	0	99	0	90	0
Improper backing	1,130	0	1,185	0	1,106	0	1,098	0	1,066	0
Unable to stop in assured clear distance	9,178	5	9,413	6	9,844	6	11,032	10	10,313	9
Other	1,950	18	2,031	10	1,883	8	1,905	6	1,944	8
Unknown	2,119	15	2,205	15	2,253	17	2,608	18	2,853	18
Reckless driving	397	13	326	7	372	3	385	6	410	13
Careless/negligent driving	2,192	10	2,371	21	2,560	15	2,487	19	2,223	13
Uncoded & errors	733	4	776	2	747	0	1,198	3	1,203	0
<b>Total</b>	<b>68,052</b>	<b>215</b>	<b>72,093</b>	<b>218</b>	<b>71,909</b>	<b>182</b>	<b>75,994</b>	<b>225</b>	<b>73,421</b>	<b>236</b>

## MDOT Region - University (continued)



The picture above represents all 2017 alcohol-involved fatal crashes in MDOT Region - University.

In 2017, there were 1,575 alcohol-involved crashes in MDOT Region - University:

56	K - Fatal Crashes
123	A - Suspected Serious Injury Crashes
282	B - Suspected Minor Injury Crashes
252	C - Possible Injury Crashes
862	O - Property Damage Only/No Injury Crashes

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