



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)



## Muskegon County

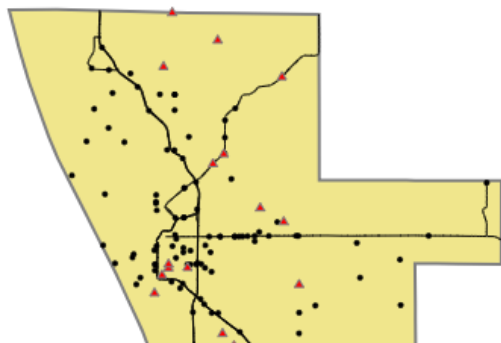
### 2017 Traffic Crash Data & 2013-2017 5-Year Trends



### 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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Crashes by most severe injury (mapped/actual)

- ▲ K - Fatal (16/16)
- A - Suspected Serious (97/97)

## Muskegon County

In 2017:

There were 8,466 drivers involved in 5,012 motor vehicle crashes in Muskegon County. Of those crashes, 16 were classified as fatal, resulting in 17 fatalities. An additional 1,273 persons were injured.

Muskegon County experienced the highest number of motor vehicle crashes (764) in December, the highest number of fatal crashes (3) in October and November, and the highest number of persons killed (4) in November.

Michigan driver statistics indicate 6.4 percent of licensed drivers in Muskegon County were age 16-20, and 12.6 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	537	0	78	459	0	109
February	307	2	53	252	2	78
March	329	0	57	272	0	81
April	278	1	55	222	1	81
May	368	1	81	286	1	110
June	402	0	74	328	0	121
July	389	1	86	302	1	112
August	365	2	68	295	2	102
September	374	1	78	295	1	119
October	475	3	84	388	3	126
November	424	3	68	353	4	105
December	764	2	98	664	2	129
<b>Total</b>	<b>5,012</b>	<b>16</b>	<b>880</b>	<b>4,116</b>	<b>17</b>	<b>1,273</b>

## 2017 - Driver Statistics

Age Group	Muskegon County			Driver Rates	
	2017 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	35,625	706	13	3.6	184.1
16 - 20	10,712	7,882	1,064	993.3	1,349.9
21 - 24	8,805	7,724	773	877.9	1,000.8
25 - 64	90,095	80,655	5,128	569.2	635.8
65 +	28,456	26,017	854	300.1	328.2
Unknown	0	0	634	-	-
<b>Total</b>	<b>173,693</b>	<b>122,984</b>	<b>8,466</b>	<b>487.4</b>	<b>688.4</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	7,008	82.8	25	96.2	1,304	5,679
Motor home	99	1.2	0	0.0	19	80
Pickup truck	849	10.0	0	0.0	155	694
Small truck under 10,000 lbs. GVWR	96	1.1	0	0.0	16	80
Motorcycle	56	0.7	0	0.0	37	19
Moped / goped	8	0.1	0	0.0	6	2
Go-cart / golf cart	0	0.0	0	0.0	0	0
Snowmobile	3	0.0	0	0.0	0	3
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	7	0.1	0	0.0	5	2
Other	78	0.9	0	0.0	16	62
Truck/bus over 10,000 lbs.	147	1.7	1	3.8	28	118
Unknown	115	1.4	0	0.0	7	108
<b>Total</b>	<b>8,466</b>	<b>100.0</b>	<b>26</b>	<b>100.0</b>	<b>1,593</b>	<b>6,847</b>

## Muskegon County (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	529	3	735	1	524	2	514	0	537	0
February	518	0	477	0	583	0	362	3	307	2
March	315	0	393	0	324	1	399	1	329	0
April	238	0	246	1	243	0	311	1	278	1
May	309	4	316	1	364	1	359	1	368	1
June	324	1	330	1	333	1	393	1	402	0
July	333	0	295	2	390	2	370	1	389	1
August	262	0	307	2	294	3	394	1	365	2
September	292	2	296	1	317	2	366	3	374	1
October	388	0	365	1	423	0	362	2	475	3
November	569	0	627	0	447	2	434	3	424	3
December	599	1	377	3	376	2	600	1	764	2
<b>Total</b>	<b>4,676</b>	<b>11</b>	<b>4,764</b>	<b>13</b>	<b>4,618</b>	<b>16</b>	<b>4,864</b>	<b>18</b>	<b>5,012</b>	<b>16</b>

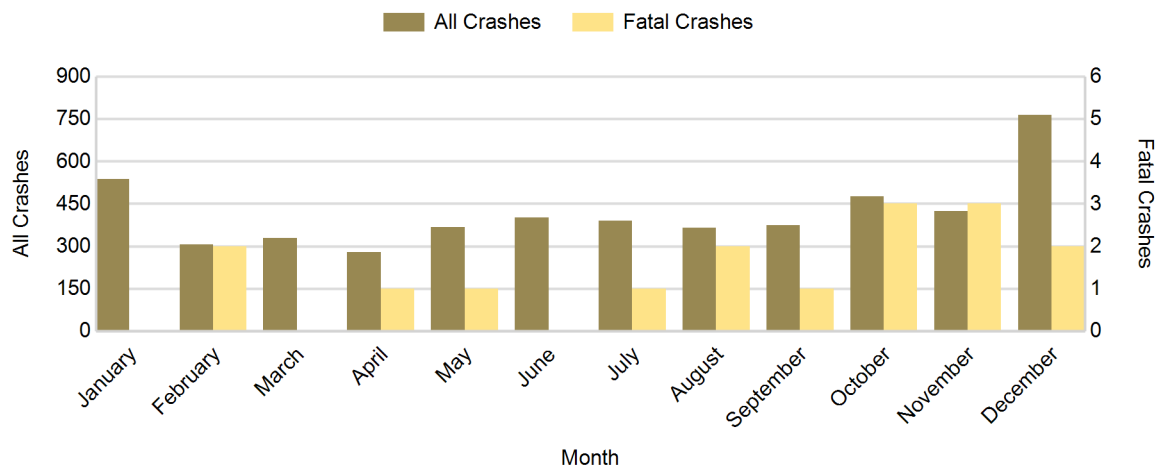
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

## 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	660	0	732	1	680	1	690	5	702	3
Tuesday	700	3	734	0	656	1	753	4	699	0
Wednesday	663	0	675	1	712	4	663	0	731	1
Thursday	727	4	851	3	706	4	726	3	825	5
Friday	787	0	767	2	743	1	869	2	824	1
Saturday	674	2	592	3	642	3	639	3	642	4
Sunday	465	2	413	3	479	2	524	1	589	2
<b>Total</b>	<b>4,676</b>	<b>11</b>	<b>4,764</b>	<b>13</b>	<b>4,618</b>	<b>16</b>	<b>4,864</b>	<b>18</b>	<b>5,012</b>	<b>16</b>

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

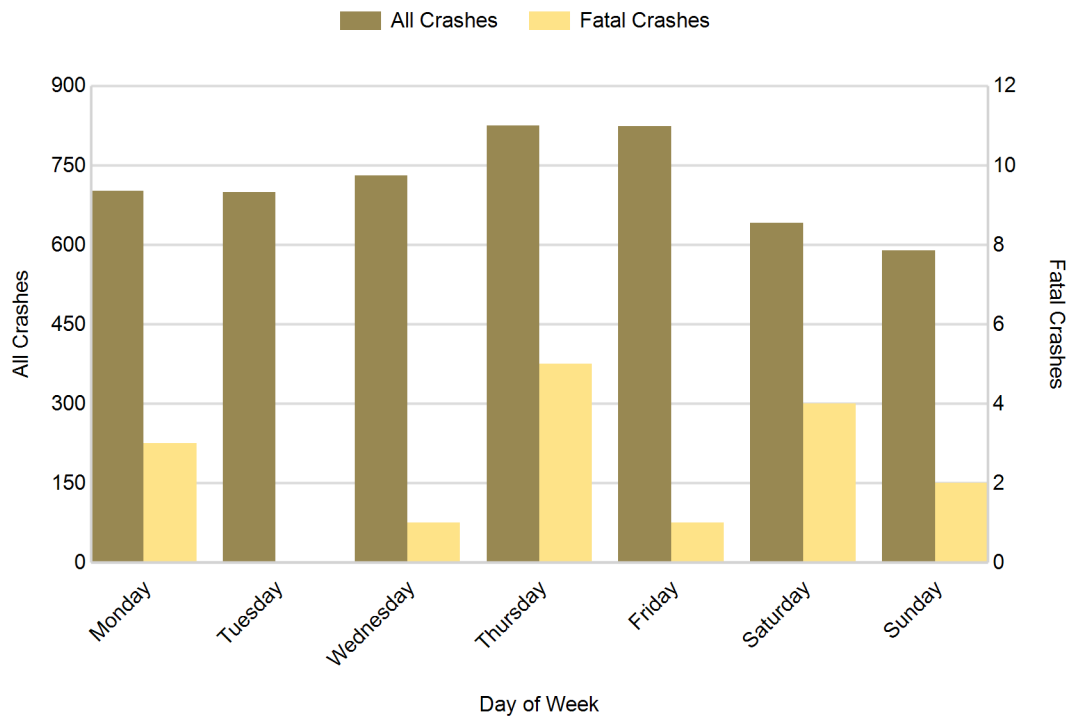
## 2017 Crashes by Month



## 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	702	14.0	3	18.8	9	40	71	579
Tuesday	699	13.9	0	0.0	17	45	76	561
Wednesday	731	14.6	1	6.3	11	41	64	614
Thursday	825	16.5	5	31.3	11	40	83	686
Friday	824	16.4	1	6.3	13	52	91	667
Saturday	642	12.8	4	25.0	16	44	58	520
Sunday	589	11.8	2	12.5	20	40	38	489
<b>Total</b>	<b>5,012</b>	<b>100.0</b>	<b>16</b>	<b>100.0</b>	<b>97</b>	<b>302</b>	<b>481</b>	<b>4,116</b>

## 2017 Day of Week and Severity

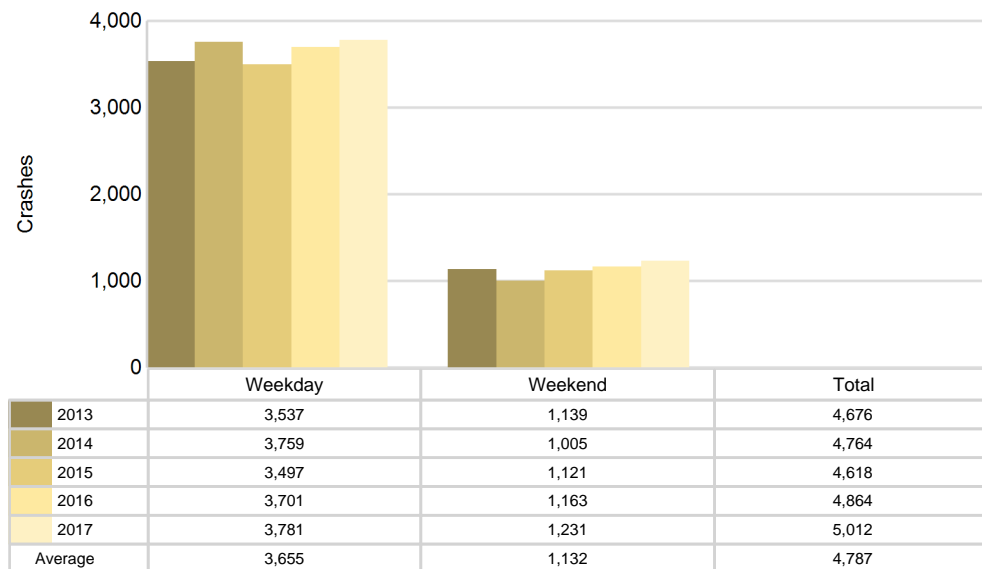


# Muskegon County (continued)

## 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	3,537	7	3,759	7	3,497	11	3,701	14	3,781	10
Weekend	1,139	4	1,005	6	1,121	5	1,163	4	1,231	6
<b>Total</b>	<b>4,676</b>	<b>11</b>	<b>4,764</b>	<b>13</b>	<b>4,618</b>	<b>16</b>	<b>4,864</b>	<b>18</b>	<b>5,012</b>	<b>16</b>

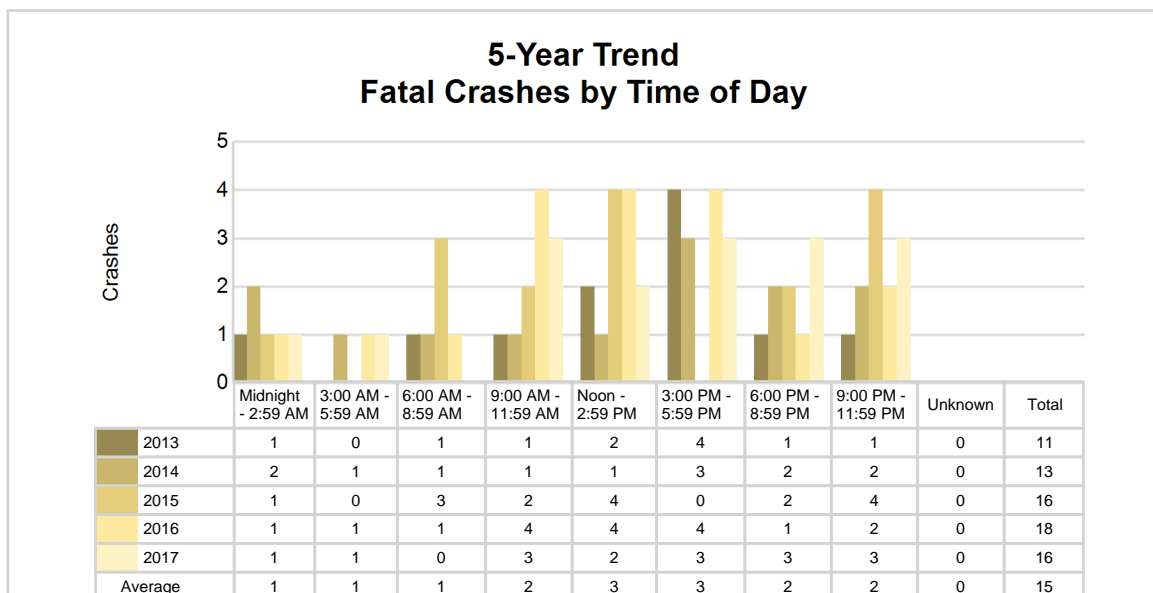
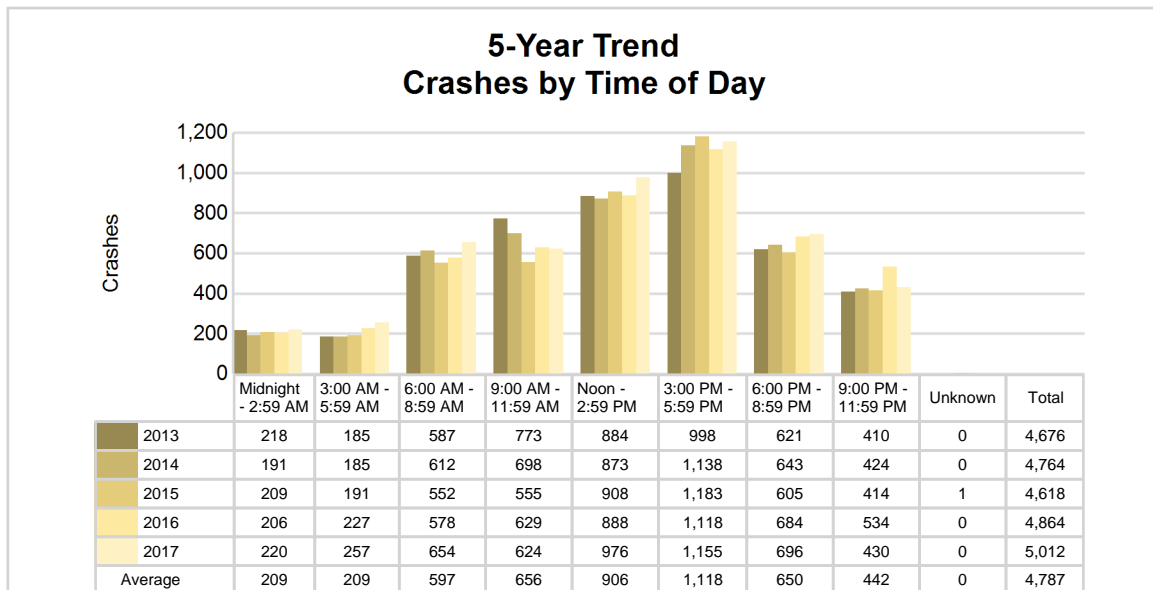
## 5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



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

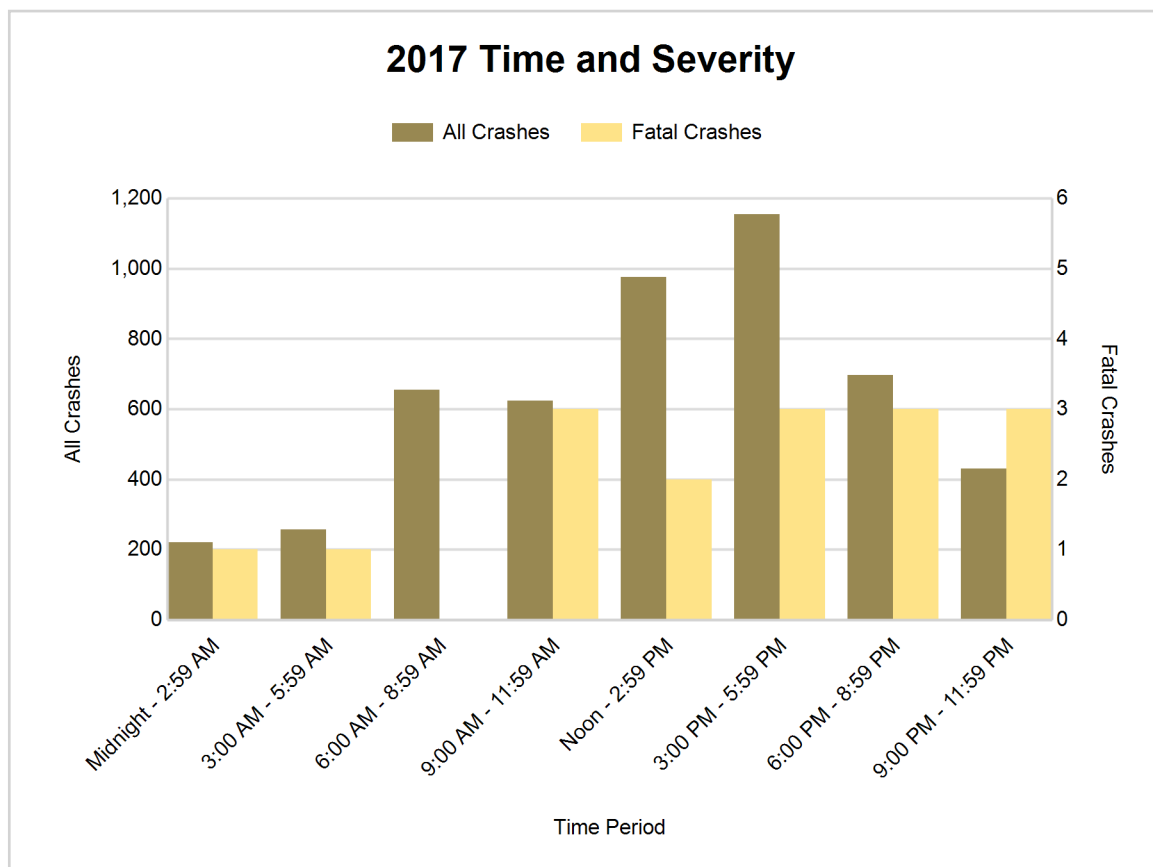
Time of Day	2013		2014		2015		2016		2017	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	218	1	191	2	209	1	206	1	220	1
3:00 AM - 5:59 AM	185	0	185	1	191	0	227	1	257	1
6:00 AM - 8:59 AM	587	1	612	1	552	3	578	1	654	0
9:00 AM - 11:59 AM	773	1	698	1	555	2	629	4	624	3
Noon - 2:59 PM	884	2	873	1	908	4	888	4	976	2
3:00 PM - 5:59 PM	998 †	4	1,138 †	3	1,183 †	0	1,118 †	4	1,155 †	3
6:00 PM - 8:59 PM	621	1	643	2	605	2	684	1	696	3
9:00 PM - 11:59 PM	410	1	424	2	414	4	534	2	430	3
Unknown	0	0	0	0	1	0	0	0	0	0
<b>Total</b>	<b>4,676</b>	<b>11</b>	<b>4,764</b>	<b>13</b>	<b>4,618</b>	<b>16</b>	<b>4,864</b>	<b>18</b>	<b>5,012</b>	<b>16</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	220	4.4	1	6.3	6	12	20	181
3:00 AM - 5:59 AM	257	5.1	1	6.3	4	22	18	212
6:00 AM - 8:59 AM	654	13.0	0	0.0	8	30	54	562
9:00 AM - 11:59 AM	624	12.5	3	18.8	12	34	63	512
Noon - 2:59 PM	976	19.5	2	12.5	15	79	101	779
3:00 PM - 5:59 PM	1,155	23.0	3	18.8	25	60	127	940
6:00 PM - 8:59 PM	696	13.9	3	18.8	14	38	60	581
9:00 PM - 11:59 PM	430	8.6	3	18.8	13	27	38	349
Unknown	0	0.0	0	0.0	0	0	0	0
<b>Total</b>	<b>5,012</b>	<b>100.0</b>	<b>16</b>	<b>100.0</b>	<b>97</b>	<b>302</b>	<b>481</b>	<b>4,116</b>

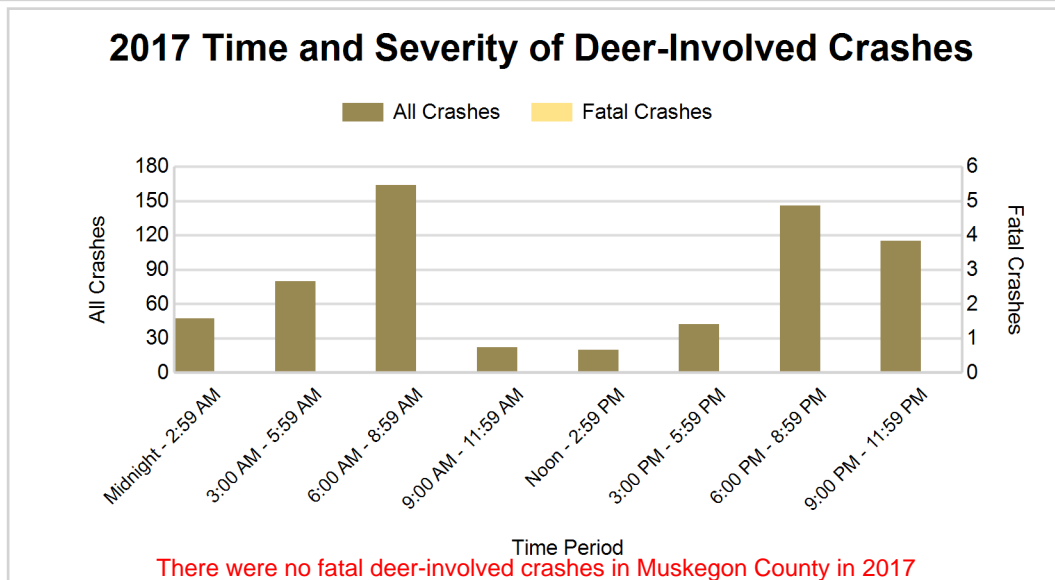
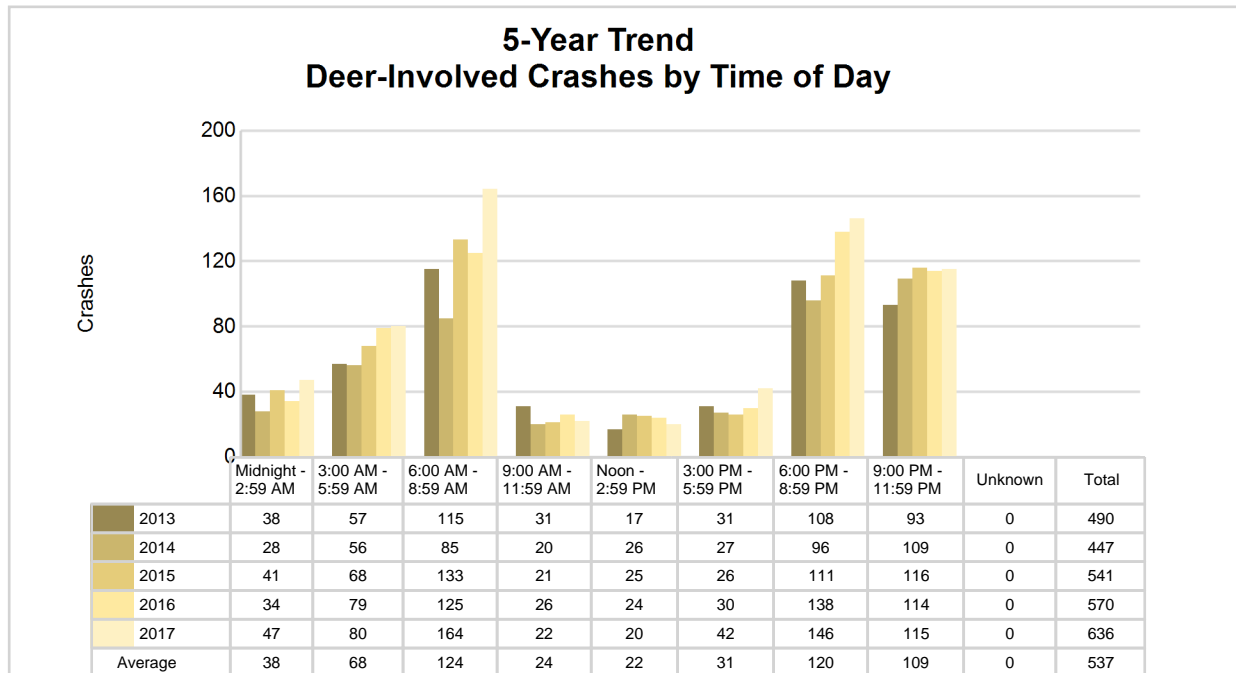




## 5-Year Trend - Deer-Involved Crashes by Time of Day

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	38	0	28	0	41	0	34	0	47	0
3:00 AM - 5:59 AM	57	0	56	0	68	0	79	0	80	0
6:00 AM - 8:59 AM	115	0	85	0	133	0	125	0	164	0
9:00 AM - 11:59 AM	31	0	20	0	21	0	26	0	22	0
Noon - 2:59 PM	17	0	26	0	25	0	24	0	20	0
3:00 PM - 5:59 PM	31	0	27	0	26	0	30	0	42	0
6:00 PM - 8:59 PM	108	0	96	0	111	0	138	0	146	0
9:00 PM - 11:59 PM	93	0	109	0	116	0	114	0	115	0
Unknown	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>490</b>	<b>0</b>	<b>447</b>	<b>0</b>	<b>541</b>	<b>0</b>	<b>570</b>	<b>0</b>	<b>636</b>	<b>0</b>

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



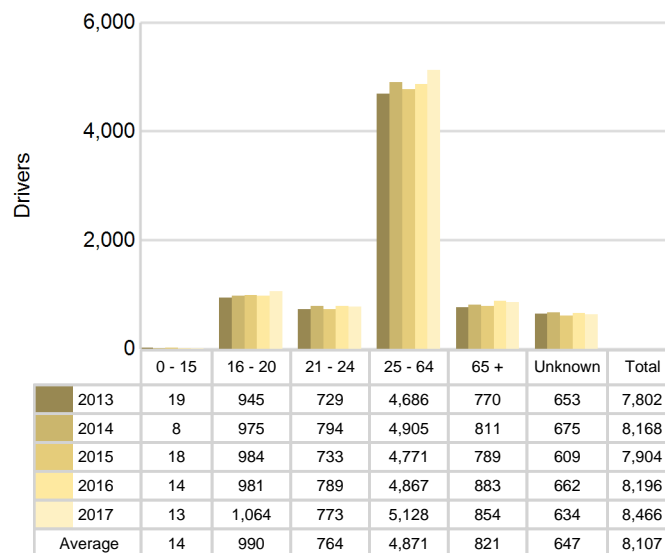
## 2017 - Reported Motor Vehicle Crashes by Municipality

Municipality	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Blue Lake Twp.	48	3	5	40	0	0	0	48	3	2	21	3	8
Casnovia	8	0	2	6	0	0	8	0	1	0	4	0	3
Casnovia Twp.	96	0	14	82	0	0	56	40	1	0	51	0	17
Cedar Creek Twp.	51	0	9	42	0	0	7	44	1	1	21	0	11
Dalton Twp.	269	2	58	209	0	100	61	107	6	5	46	3	91
Egelston Twp.	123	2	35	86	0	0	54	69	10	2	21	2	49
Fruitland Twp.	106	0	18	88	0	6	0	100	4	2	43	0	33
Fruitport	29	1	4	24	0	0	0	29	2	0	0	1	5
Fruitport Twp.	317	1	46	270	83	9	0	225	9	9	38	1	75
Holton Twp.	79	1	23	55	0	0	36	43	5	1	19	1	41
Laketon Twp.	92	0	11	81	0	0	0	92	6	1	37	0	15
Lakewood Club	34	0	9	25	0	5	0	29	2	0	6	0	11
Montague	34	0	1	33	0	16	0	18	0	0	10	0	1
Montague Twp.	93	0	16	77	0	50	0	43	2	0	29	0	20
Moorland Twp.	62	0	11	51	0	0	20	42	3	0	27	0	16
Muskegon	1,254	0	216	1,038	0	257	116	879	55	15	21	0	291
Muskegon Heights	344	3	48	293	0	10	0	333	13	8	4	3	70
Muskegon Twp.	649	0	146	503	0	169	253	227	10	2	28	0	229
North Muskegon	58	0	2	56	0	0	26	32	2	0	4	0	3
Norton Shores	870	2	148	720	12	348	0	507	15	4	75	2	204
Ravenna	8	0	1	7	0	0	0	8	1	1	1	0	1
Ravenna Twp.	81	0	11	70	0	0	0	81	2	0	45	0	19
Roosevelt Park	14	0	1	13	0	0	0	14	1	0	0	0	1
Sullivan Twp.	87	1	17	69	0	0	0	87	4	2	34	1	22
White River Twp.	25	0	1	24	0	0	0	25	1	0	18	0	2
Whitehall	56	0	7	49	0	19	0	37	0	0	7	0	10
Whitehall Twp.	125	0	20	105	0	71	0	54	4	1	26	0	25
Unknown Community	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>5,012</b>	<b>16</b>	<b>880</b>	<b>4,116</b>	<b>95</b>	<b>1,060</b>	<b>637</b>	<b>3,213</b>	<b>163</b>	<b>56</b>	<b>636</b>	<b>17</b>	<b>1,273</b>

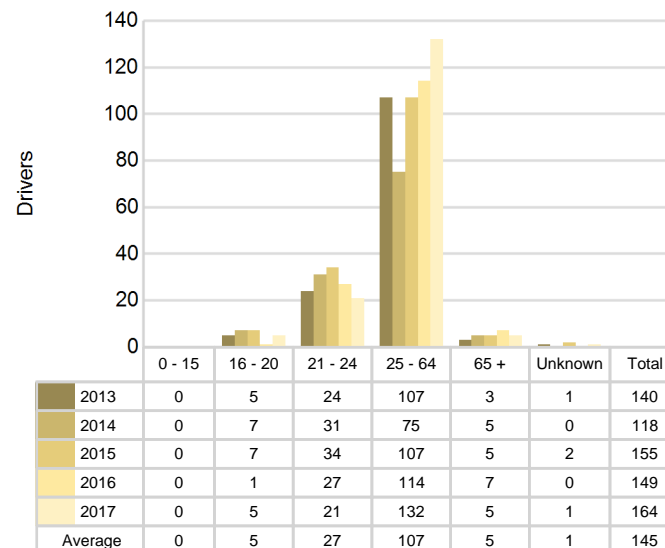
## 5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

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	19	0	8	0	18	0	14	0	13	0
16 - 20	945	5	975	7	984	7	981	1	1,064	5
21 - 24	729	24	794	31	733	34	789	27	773	21
25 - 64	4,686	107	4,905	75	4,771	107	4,867	114	5,128	132
65 +	770	3	811	5	789	5	883	7	854	5
Unknown	653	1	675	0	609	2	662	0	634	1
<b>Total</b>	<b>7,802</b>	<b>140</b>	<b>8,168</b>	<b>118</b>	<b>7,904</b>	<b>155</b>	<b>8,196</b>	<b>149</b>	<b>8,466</b>	<b>164</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	0	0	0	0	0	0	0	0	0
16 - 20	9	7	4	5	0	1	2	0	2
21 - 24	26	20	19	21	0	0	4	7	10
25 - 64	166	125	112	132	2	10	19	41	60
65 +	8	5	5	5	0	1	0	2	2
Unknown	17	0	0	1	0	0	0	0	1
<b>Total</b>	<b>226</b>	<b>157</b>	<b>140</b>	<b>164</b>	<b>2</b>	<b>12</b>	<b>25</b>	<b>50</b>	<b>75</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 226 drivers in alcohol-involved crashes; 164 (72.6%) of those drivers were coded as had-been-drinking by the officer on the crash form.

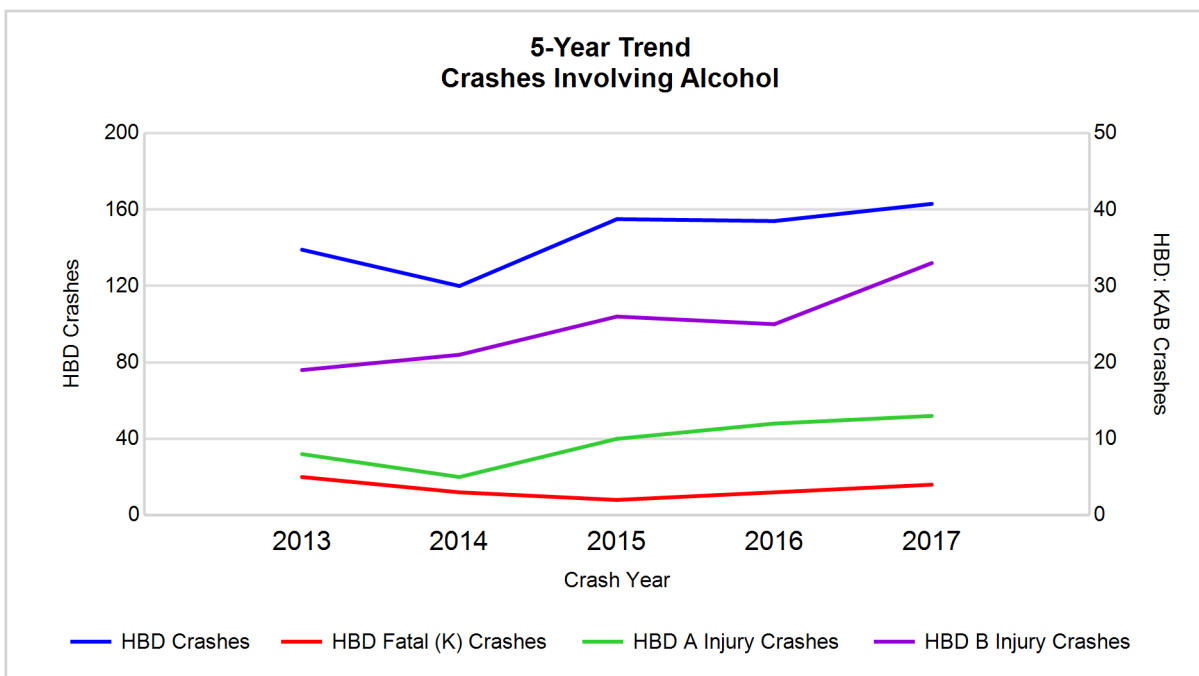
- 75 (45.7%) of the 164 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 50 (66.7%) of the 75 drivers had a BAC at or above 0.17 g/dL.
- 140 (85.4%) of the 164 drivers were coded as had-been-drinking and were tested for alcohol consumption.

**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	4,676	139	3.0	11	5	45.5	72	8	11.1	280	19	6.8
2014	4,764	120	2.5	13	3	23.1	93	5	5.4	299	21	7.0
2015	4,618	155	3.4	16	2	12.5	76	10	13.2	286	26	9.1
2016	4,864	154	3.2	18	3	16.7	76	12	15.8	303	25	8.3
2017	5,012**	163**	3.3	16	4	25.0	97**	13**	13.4	302	33**	10.9**

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



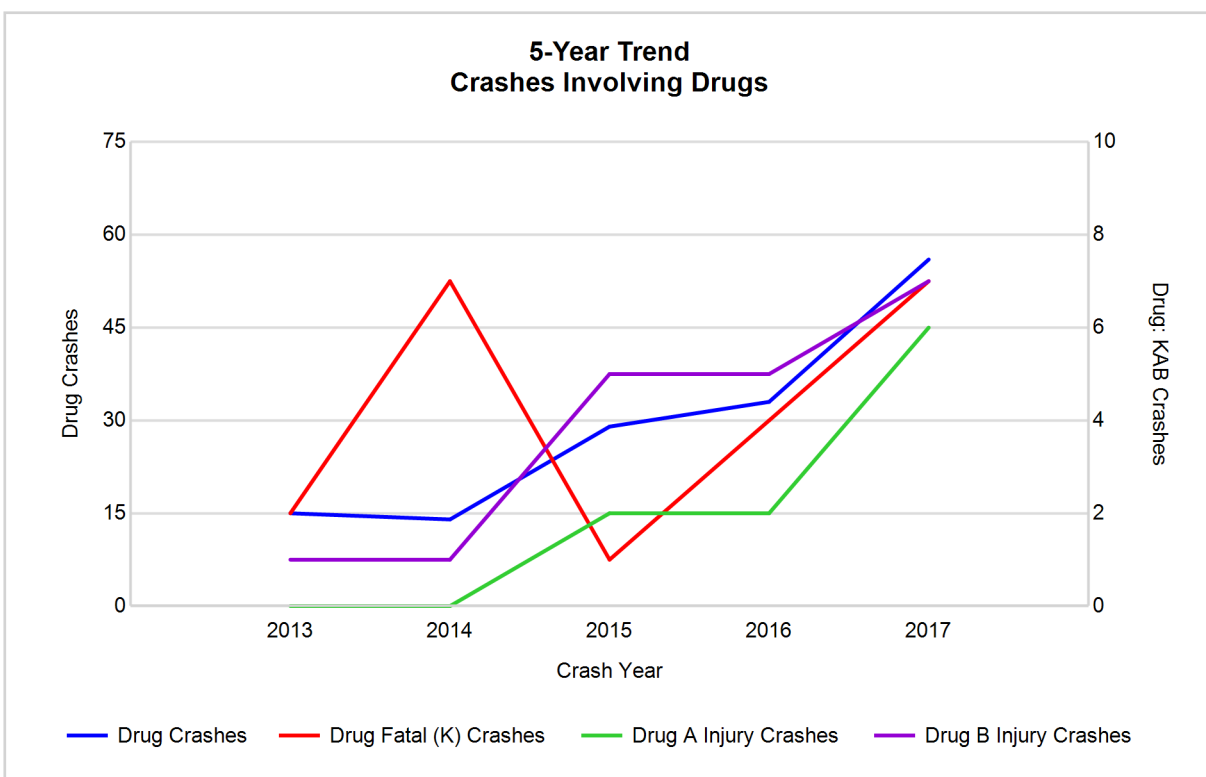
Note: Had-Been-Drinking (HBD)

## 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	4,676	15	0.3	11	2	18.2	72	0	0.0	280	1	0.4
2014	4,764	14	0.3	13	7	53.8	93	0	0.0	299	1	0.3
2015	4,618	29	0.6	16	1	6.3	76	2	2.6	286	5	1.7
2016	4,864	33	0.7	18	4	22.2	76	2	2.6	303	5	1.7
2017	5,012**	56**	1.1**	16	7	43.8	97**	6**	6.2**	302	7**	2.3**

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

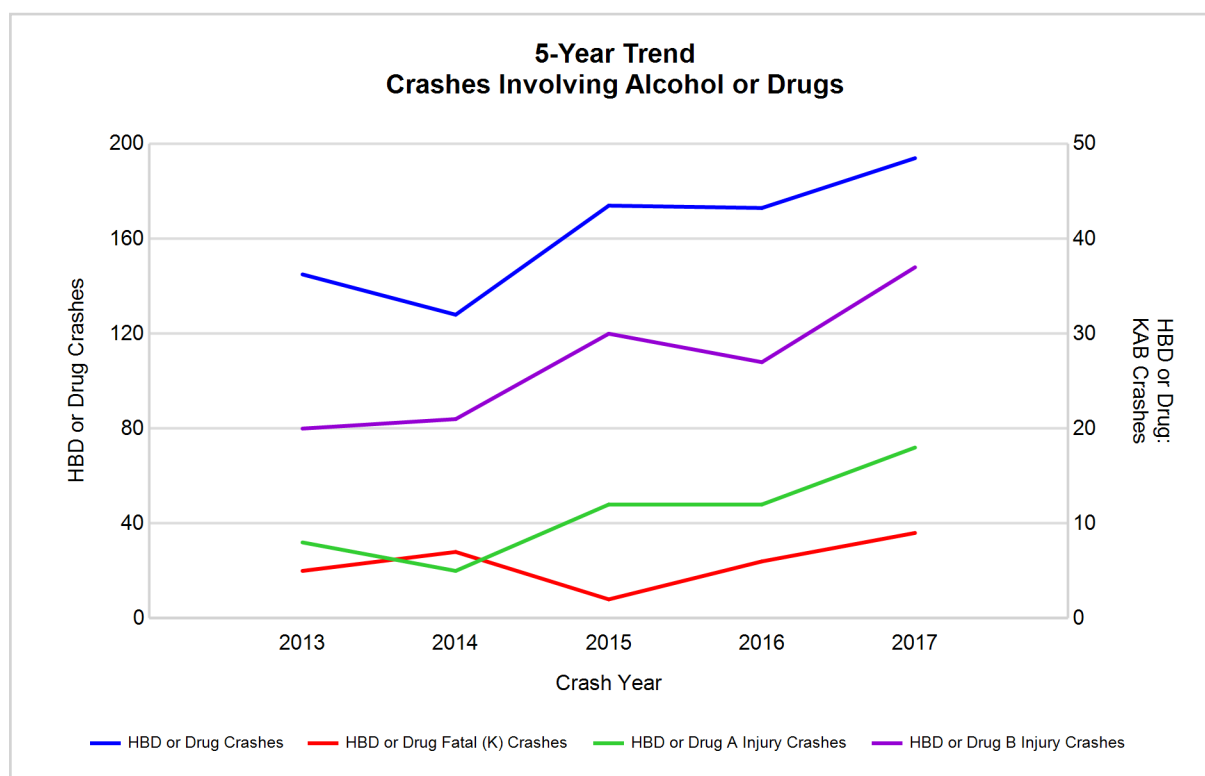


## 5-Year Trend - Crashes Involving Alcohol or Drugs

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	4,676	145	3.1	11	5	45.5	72	8	11.1	280	20	7.1
2014	4,764	128	2.7	13	7	53.8	93	5	5.4	299	21	7.0
2015	4,618	174	3.8	16	2	12.5	76	12	15.8	286	30	10.5
2016	4,864	173	3.6	18	6	33.3	76	12	15.8	303	27	8.9
2017	5,012**	194**	3.9**	16	9**	56.3**	97**	18**	18.6**	302	37**	12.3**

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	7,324	6,418	87.6	14	6	42.9	78	59	75.6	322	296	91.9	635	592	93.2	5,945	5,465	91.9
Motor home	108	99	91.7	0	0	0.0	1	1	100.0	9	8	88.9	9	8	88.9	88	82	93.2
Pickup truck	875	794	90.7	0	0	0.0	7	6	85.7	38	31	81.6	50	48	96.0	750	709	94.5
Small truck under 10,000 lbs. GVWR	98	85	86.7	0	0	0.0	0	0	0.0	5	4	80.0	8	8	100.0	78	73	93.6
Motorcycle	62	35	56.5	0	0	0.0	12	4	33.3	19	12	63.2	9	5	55.6	22	14	63.6
Moped / goped	8	3	37.5	0	0	0.0	0	0	0.0	3	1	33.3	3	1	33.3	1	1	100.0
Go-cart / golf cart	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Snowmobile	3	1	33.3	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	3	1	33.3
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	9	3	33.3	0	0	0.0	4	3	75.0	2	0	0.0	1	0	0.0	2	0	0.0
Other	80	50	62.5	0	0	0.0	2	1	50.0	1	0	0.0	9	2	22.2	66	47	71.2
Truck/bus over 10,000 lbs.	151	137	90.7	0	0	0.0	0	0	0.0	2	2	100.0	8	6	75.0	138	129	93.5
Unknown	115	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	22	0	0.0
<b>Total</b>	<b>8,833</b>	<b>7,625</b>	<b>86.3</b>	<b>14</b>	<b>6</b>	<b>0.0</b>	<b>104</b>	<b>74</b>	<b>71.2</b>	<b>401</b>	<b>354</b>	<b>88.3</b>	<b>732</b>	<b>670</b>	<b>91.5</b>	<b>7,115</b>	<b>6,521</b>	<b>91.7</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	112	95	84.8	0	0	0.0	3	3	100.0	31	26	83.9	67	57	85.1	11	9	81.8
16 - 20	1,125	1,050	93.3	1	0	0.0	13	10	76.9	54	47	87.0	107	99	92.5	949	894	94.2
21 - 24	794	729	91.8	0	0	0.0	7	4	57.1	42	38	90.5	50	41	82.0	695	646	92.9
25 - 64	5,271	4,890	92.8	8	3	37.5	69	50	72.5	223	194	87.0	419	388	92.6	4,518	4,255	94.2
65 +	897	858	95.7	5	3	60.0	11	7	63.6	51	49	96.1	88	85	96.6	736	714	97.0
Unknown	634	3	0.5	0	0	0.0	1	0	0.0	0	0	0.0	1	0	0.0	206	3	1.5
<b>Total</b>	<b>8,833</b>	<b>7,625</b>	<b>86.3</b>	<b>14</b>	<b>6</b>	<b>0.0</b>	<b>104</b>	<b>74</b>	<b>71.2</b>	<b>401</b>	<b>354</b>	<b>88.3</b>	<b>732</b>	<b>670</b>	<b>91.5</b>	<b>7,115</b>	<b>6,521</b>	<b>91.7</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	18	0	4	27	0	3	69	0	5	58	1	1	11	0	5
Shoulder belt only used	3	0	0	10	0	1	32	0	2	55	0	2	79	0	8
Lap belt only used	13	0	0	14	0	2	19	0	0	11	0	1	8	0	2
Both lap & shoulder belts used	6,814	3	618	7,114	5	710	6,890	4	689	6,955	6	739	7,179	5	746
No belts used	56	1	10	58	0	12	64	3	23	49	3	15	49	3	27
Child restraint used	0	0	0	0	0	0	0	0	0	4	0	1	0	0	0
Child restraint not used, unavailable or improper use	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Restraint failure	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0
Restraint use unknown	346	1	26	356	2	23	239	1	16	412	1	46	1,029	3	43
Helmet worn	53	2	36	55	0	41	52	0	36	51	0	34	36	0	20
Helmet not worn	48	3	37	46	2	38	33	0	22	43	1	32	29	0	19
Helmet use unknown	8	0	3	7	0	2	6	0	4	9	0	5	4	0	3
Uncoded & errors	443	0	0	480	0	0	500	0	0	548	0	0	42	0	0
<b>Total</b>	<b>7,802</b>	<b>10</b>	<b>734</b>	<b>8,168</b>	<b>9</b>	<b>833</b>	<b>7,904</b>	<b>8</b>	<b>797</b>	<b>8,196</b>	<b>12</b>	<b>876</b>	<b>8,466</b>	<b>11</b>	<b>873</b>

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

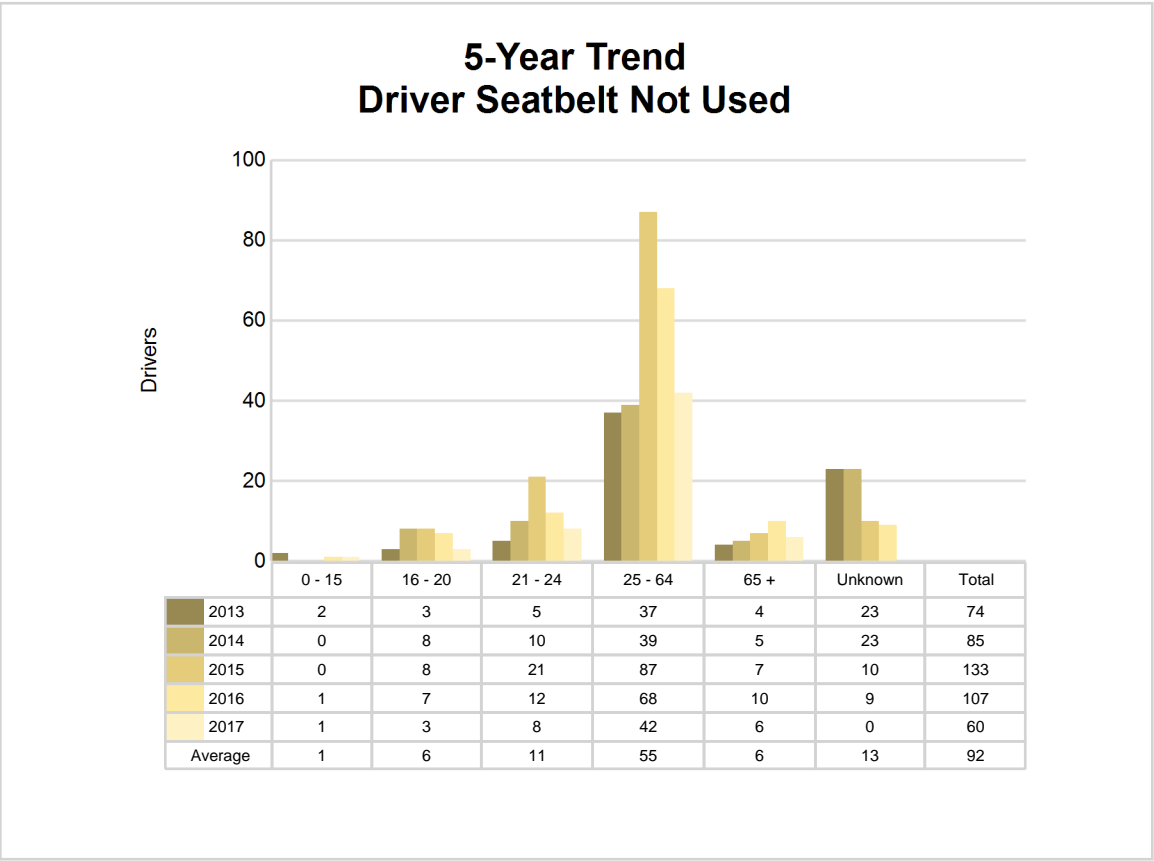
Restraint Use	2013			2014			2015			2016			2017		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	1	0	0	0	0	0	6	0	0	2	0	0	2	0	2
Shoulder belt only used	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Lap belt only used	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Both lap & shoulder belts used	108	0	23	90	0	20	122	0	29	114	0	31	113	1	35
No belts used	2	1	1	4	0	3	10	1	6	8	0	3	15	2	11
Child restraint used	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Child restraint not used, unavailable or improper use	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Restraint failure	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
Restraint use unknown	22	1	2	13	1	3	12	0	4	16	0	4	31	1	10
Helmet worn	1	0	1	2	0	0	2	0	2	1	0	1	1	0	1
Helmet not worn	6	3	3	7	1	5	2	0	2	7	1	6	1	0	1
Helmet use unknown	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1
Uncoded & errors	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<b>Total</b>	<b>140</b>	<b>5</b>	<b>30</b>	<b>118</b>	<b>2</b>	<b>32</b>	<b>155</b>	<b>1</b>	<b>43</b>	<b>149</b>	<b>1</b>	<b>46</b>	<b>164</b>	<b>4</b>	<b>61</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	2	0	1	0	0	0	0	0	0	1	0	0	1	0	0
16 - 20	3	0	0	8	0	2	8	0	1	7	0	3	3	0	2
21 - 24	5	0	3	10	0	1	21	1	8	12	0	1	8	0	5
25 - 64	37	1	8	39	0	8	87	2	19	68	2	10	42	2	22
65 +	4	0	2	5	0	4	7	0	0	10	2	2	6	1	3
Unknown	23	0	0	23	0	0	10	0	0	9	0	0	0	0	0
Total	74	1	14	85	0	15	133	3	28	107	4	16	60	3	32

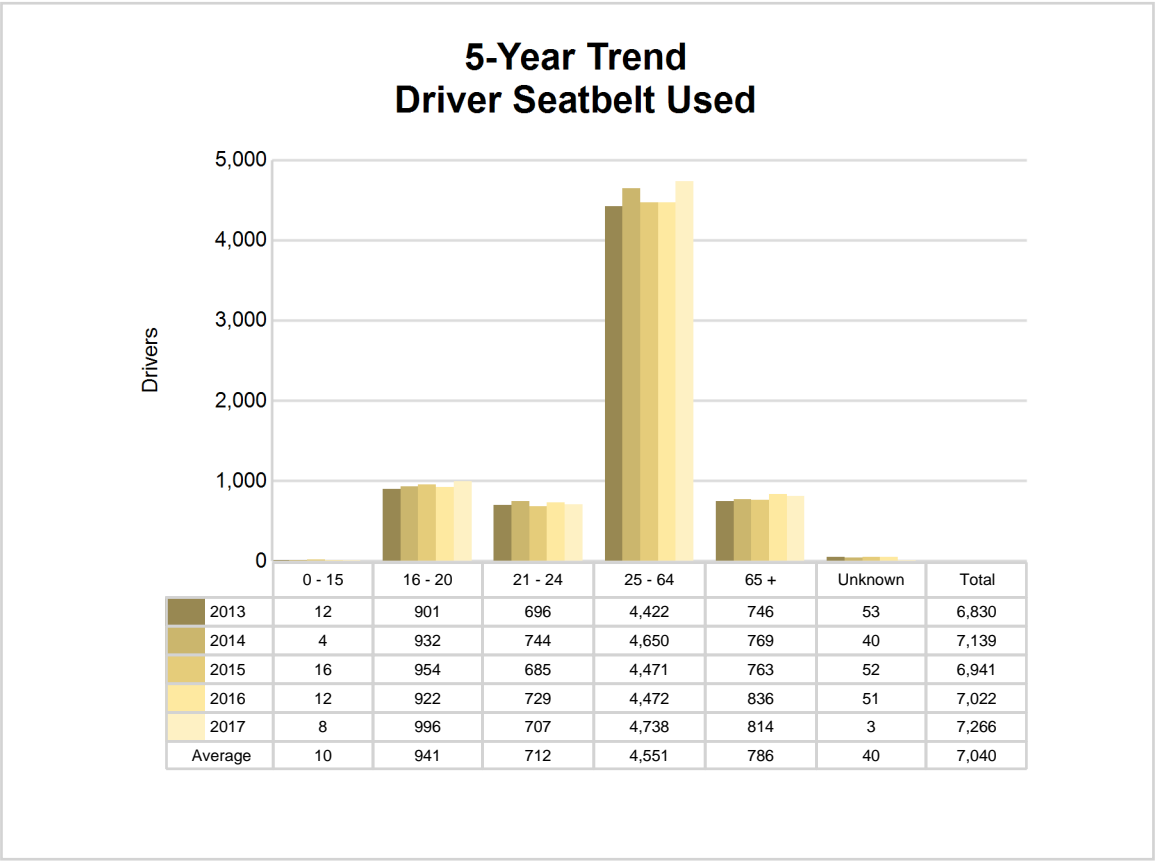
Note: Seatbelt Not Used includes no belts available or no belts used.



5-Year Trend - Seatbelt Used Among Drivers by Age

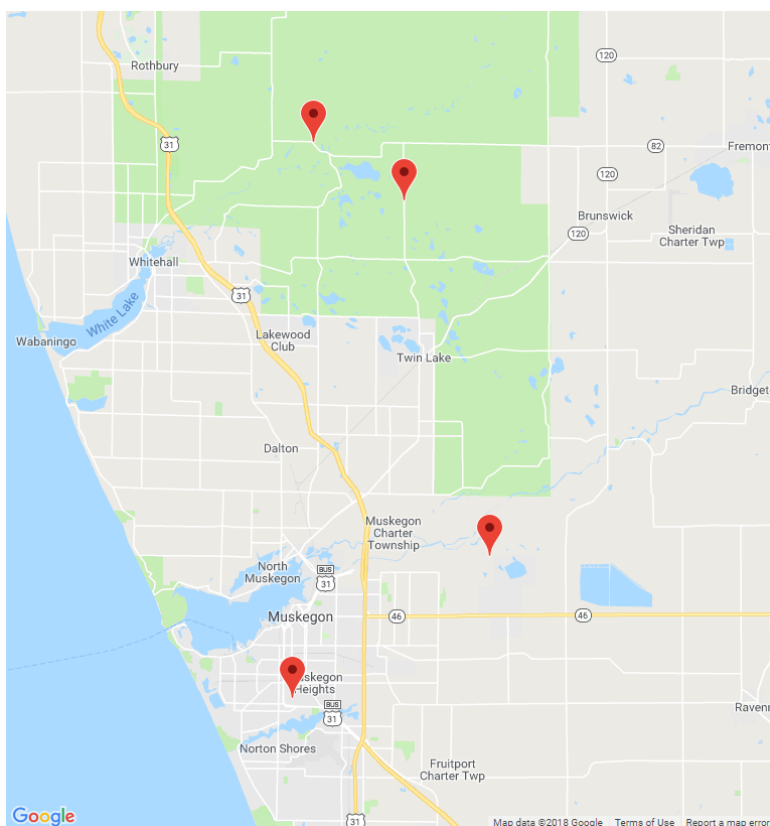
Age Group	2013			2014			2015			2016			2017		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
0 - 15	12	0	1	4	0	1	16	0	3	12	0	0	8	0	0
16 - 20	901	0	78	932	1	90	954	0	88	922	0	95	996	0	104
21 - 24	696	1	49	744	0	81	685	0	56	729	1	99	707	0	62
25 - 64	4,422	1	393	4,650	2	447	4,471	2	462	4,472	2	455	4,738	3	492
65 +	746	1	97	769	2	95	763	2	82	836	3	92	814	2	98
Unknown	53	0	0	40	0	0	52	0	0	51	0	1	3	0	0
Total	6,830	3	618	7,139	5	714	6,941	4	691	7,022	6	742	7,266	5	756

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	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	3,859	21	4,157	9	4,134	7	4,271	17	4,129	11
Speed too fast	1,252	8	1,069	2	879	3	914	2	933	6
Speed too slow	5	0	1	0	4	0	4	0	2	0
Failed to yield	721	1	865	2	812	4	892	3	894	4
Disregard traffic control	164	1	177	0	177	1	199	5	183	0
Drove wrong way	5	0	2	0	4	0	5	0	4	0
Drove left of center	51	0	50	0	45	2	45	1	66	2
Improper passing	45	0	57	0	60	1	56	0	55	0
Improper lane use	142	0	154	1	168	0	191	1	189	0
Improper turn	77	0	65	0	56	0	70	0	53	0
Improper/no signal	6	0	6	0	4	0	7	0	12	0
Improper backing	170	0	184	0	165	0	158	0	149	0
Unable to stop in assured clear distance	775	2	815	0	801	0	797	0	896	0
Other	154	1	186	1	187	1	192	1	209	0
Unknown	174	3	203	3	208	3	199	0	240	1
Reckless driving	35	1	34	2	30	0	33	1	37	1
Careless/negligent driving	165	0	143	0	169	2	141	0	198	1
Uncoded & errors	2	0	0	0	1	0	22	0	217	0
<b>Total</b>	<b>7,802</b>	<b>38</b>	<b>8,168</b>	<b>20</b>	<b>7,904</b>	<b>24</b>	<b>8,196</b>	<b>31</b>	<b>8,466</b>	<b>26</b>



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

In 2017, there were 163 alcohol-involved crashes in Muskegon County:

- 4 K - Fatal Crashes
- 13 A - Suspected Serious Injury Crashes
- 33 B - Suspected Minor Injury Crashes
- 25 C - Possible Injury Crashes
- 88 O - Property Damage Only/No Injury Crashes

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