



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)



Cass County

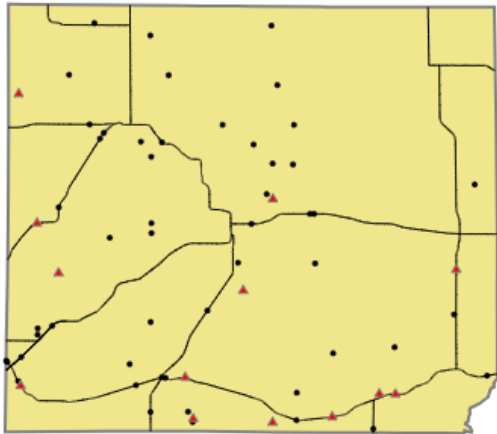
2017 Traffic Crash Data & 2013-2017 5-Year Trends



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 (13/13)
- A - Suspected Serious (51/51)

Cass County

In 2017:

There were 1,937 drivers involved in 1,431 motor vehicle crashes in Cass County. Of those crashes, 13 were classified as fatal, resulting in 15 fatalities. An additional 352 persons were injured.

Cass County experienced the highest number of motor vehicle crashes (227) in December, the highest number of fatal crashes (3) and the highest number of persons killed (4) in November.

Michigan driver statistics indicate 6.1 percent of licensed drivers in Cass County were age 16-20, and 12.3 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	137	2	18	117	2	25
February	74	2	16	56	3	26
March	100	0	23	77	0	30
April	90	0	20	70	0	25
May	110	0	25	85	0	31
June	120	1	27	92	1	38
July	91	1	14	76	1	19
August	106	1	28	77	1	32
September	96	1	26	69	1	38
October	135	0	23	112	0	28
November	145	3	15	127	4	20
December	227	2	32	193	2	40
Total	1,431	13	267	1,151	15	352

2017 - Driver Statistics

Age Group	Cass County			Driver Rates	
	2017 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	9,372	230	2	2.1	87.0
16 - 20	3,168	2,360	238	751.3	1,008.5
21 - 24	2,198	2,040	189	859.9	926.5
25 - 64	26,175	24,341	1,222	466.9	502.0
65 +	10,468	9,509	204	194.9	214.5
Unknown	0	0	82	- -	- -
Total	51,381	38,480	1,937	377.0	503.4

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	1,434	74.0	11	61.1	306	1,117
Motor home	5	0.3	0	0.0	0	5
Pickup truck	349	18.0	4	22.2	60	285
Small truck under 10,000 lbs. GVWR	20	1.0	0	0.0	4	16
Motorcycle	21	1.1	1	5.6	17	3
Moped / goped	2	0.1	0	0.0	2	0
Go-cart / golf cart	2	0.1	0	0.0	2	0
Snowmobile	2	0.1	0	0.0	1	1
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	0	0.0	0	0.0	0	0
Other	9	0.5	0	0.0	0	9
Truck/bus over 10,000 lbs.	66	3.4	2	11.1	12	52
Unknown	27	1.4	0	0.0	2	25
Total	1,937	100.0	18	100.0	406	1,513

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	155	0	172	0	168	2	176	0	137	2
February	139	1	134	0	171	1	149	0	74	2
March	105	2	117	0	82	1	98	2	100	0
April	57	1	85	0	75	1	89	3	90	0
May	87	1	75	1	89	3	101	1	110	0
June	82	1	94	0	99	0	102	0	120	1
July	77	0	93	4	96	2	98	0	91	1
August	74	0	89	0	94	1	86	1	106	1
September	76	2	79	0	85	2	83	0	96	1
October	118	0	133	1	135	0	105	0	135	0
November	205	1	239	1	173	0	148	0	145	3
December	140	2	93	0	135	1	172	2	227	2
Total	1,315	11	1,403	7	1,402	14	1,407	9	1,431	13

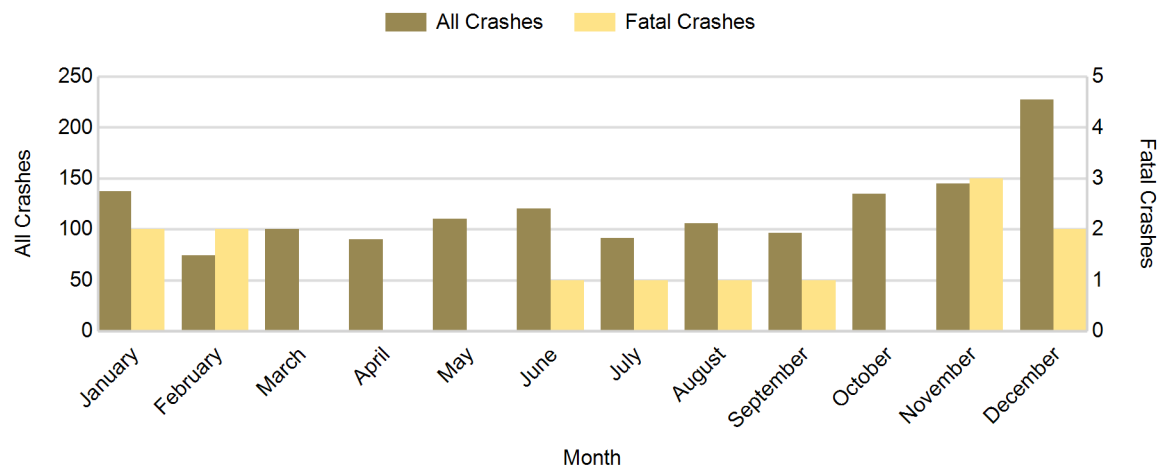
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

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	175	1	171	1	191	2	195	1	196	1
Tuesday	178	1	194	1	191	0	210	2	218	1
Wednesday	250	4	224	0	201	1	190	0	199	3
Thursday	207	1	257	3	204	2	229	3	216	0
Friday	177	2	233	1	224	4	201	1	242	3
Saturday	176	1	179	1	230	3	205	1	187	2
Sunday	152	1	145	0	161	2	177	1	173	3
Total	1,315	11	1,403	7	1,402	14	1,407	9	1,431	13

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

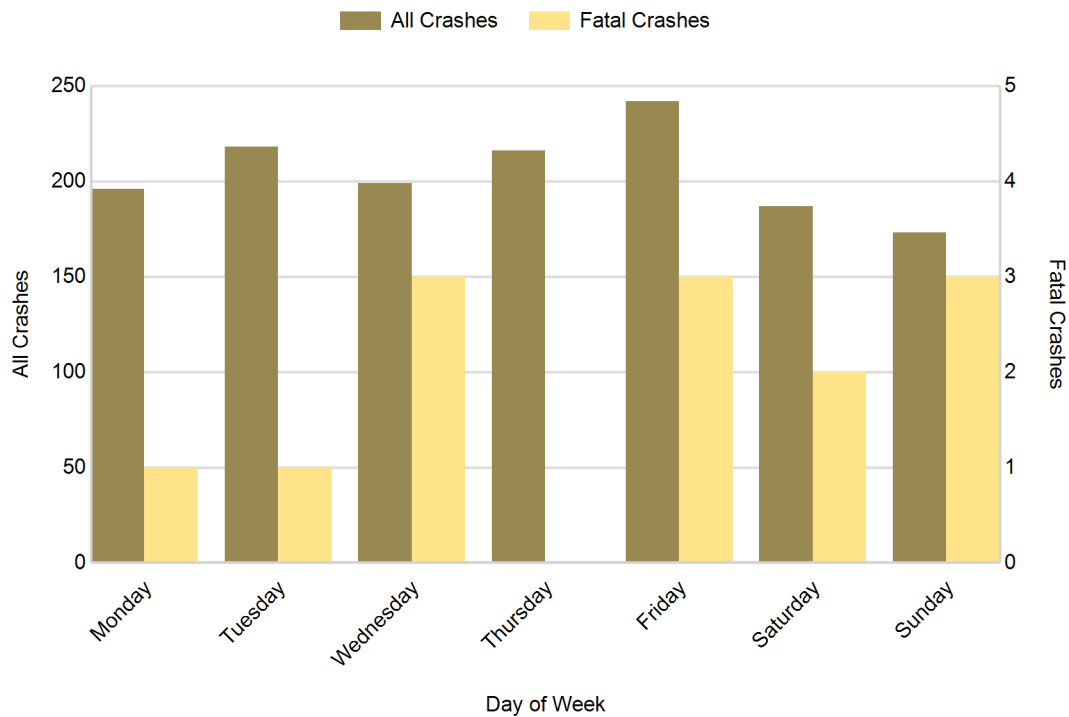
2017 Crashes by Month



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	196	13.7	1	7.7	7	11	22	155
Tuesday	218	15.2	1	7.7	4	5	18	190
Wednesday	199	13.9	3	23.1	11	14	19	152
Thursday	216	15.1	0	0.0	7	12	23	174
Friday	242	16.9	3	23.1	10	12	23	194
Saturday	187	13.1	2	15.4	8	12	17	148
Sunday	173	12.1	3	23.1	4	14	14	138
Total	1,431	100.0	13	100.0	51	80	136	1,151

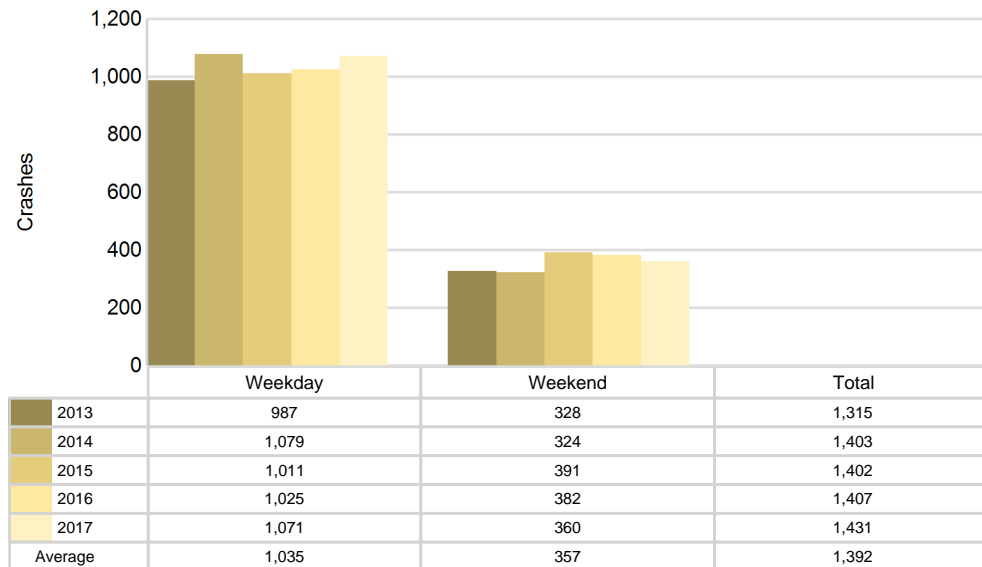
2017 Day of Week and Severity



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	987	9	1,079	6	1,011	9	1,025	7	1,071	8
Weekend	328	2	324	1	391	5	382	2	360	5
Total	1,315	11	1,403	7	1,402	14	1,407	9	1,431	13

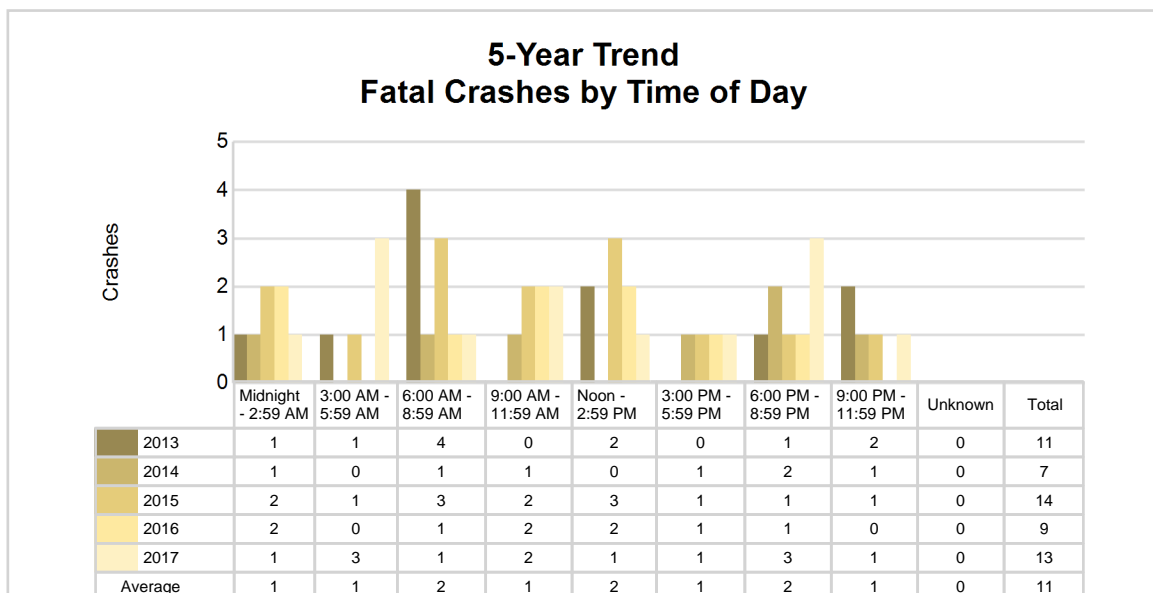
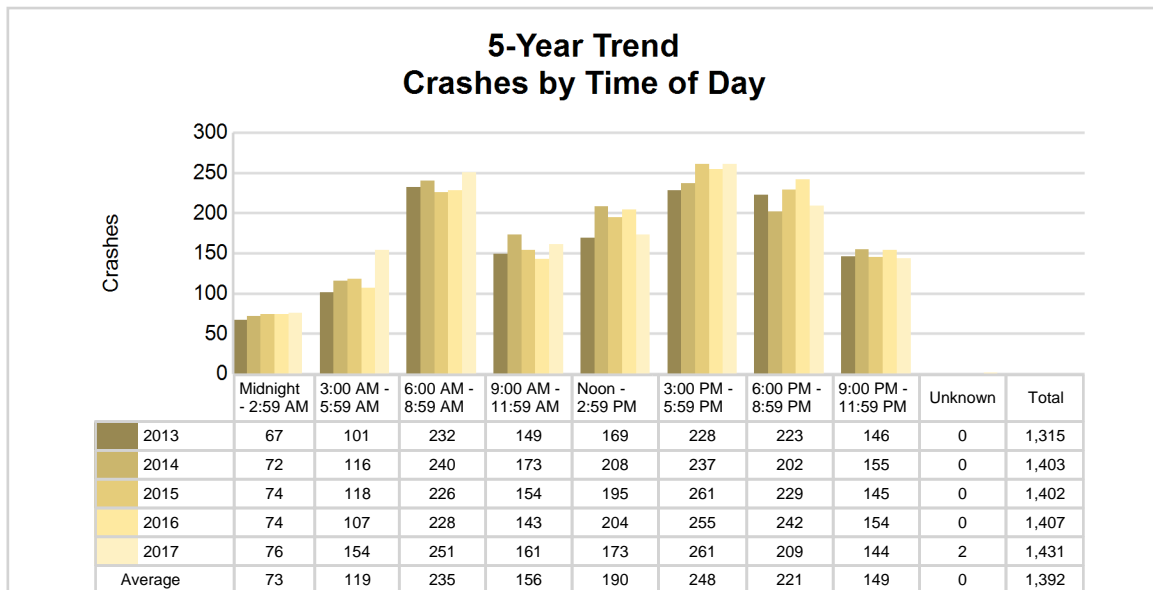
5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



5-Year Trend - Crashes by Time of Day

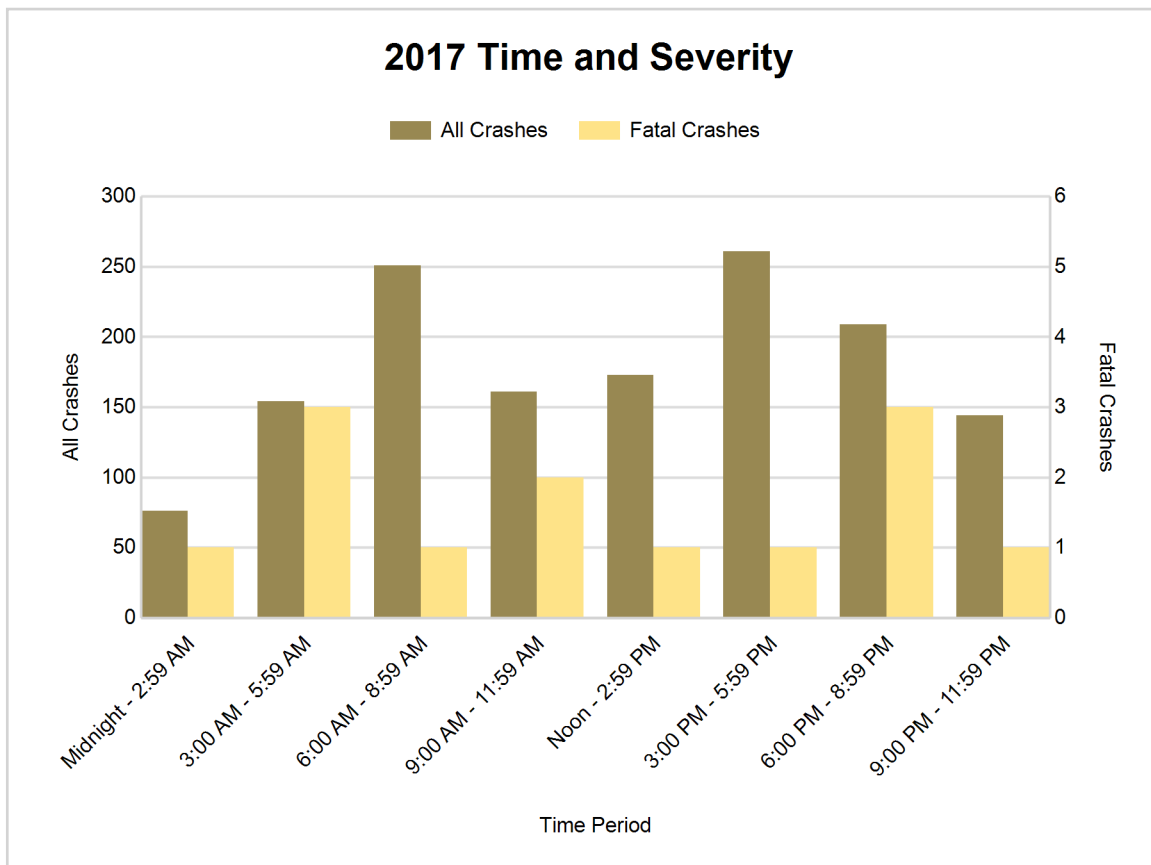
Time of Day	2013		2014		2015		2016		2017	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	67	1	72	1	74	2	74	2	76	1
3:00 AM - 5:59 AM	101	1	116	0	118	1	107	0	154	3
6:00 AM - 8:59 AM	232	4	240	1	226	3	228	1	251	1
9:00 AM - 11:59 AM	149	0	173	1	154	2	143	2	161	2
Noon - 2:59 PM	169	2	208	0	195	3	204	2	173	1
3:00 PM - 5:59 PM	228	0	237	1	261	1	255	1	261	1
6:00 PM - 8:59 PM	223	1	202	2	229	1	242	1	209	3
9:00 PM - 11:59 PM	146	2	155	1	145	1	154	0	144	1
Unknown	0	0	0	0	0	0	0	0	2	0
Total	1,315	11	1,403	7	1,402	14	1,407	9	1,431	13

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

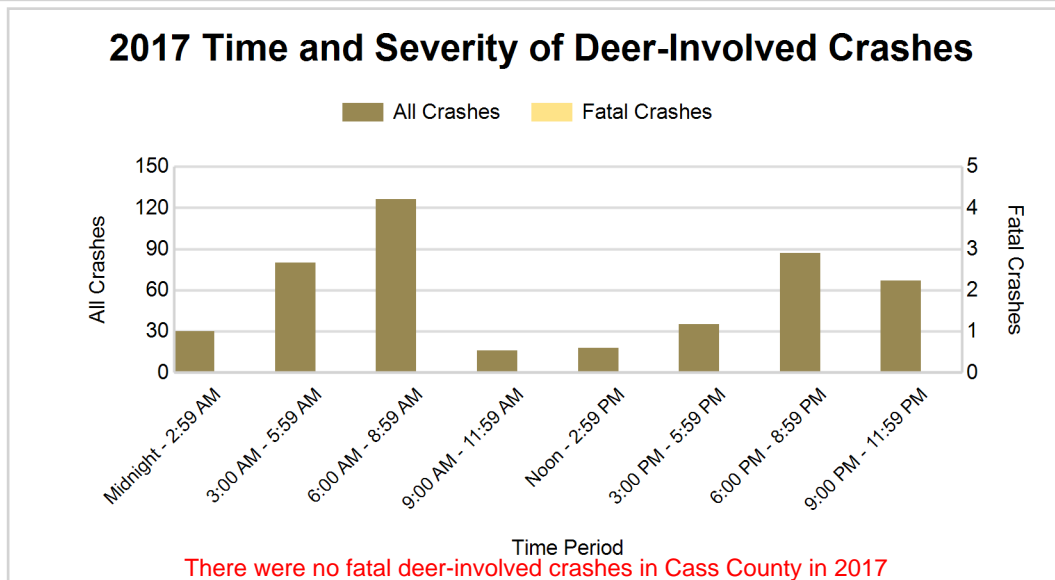
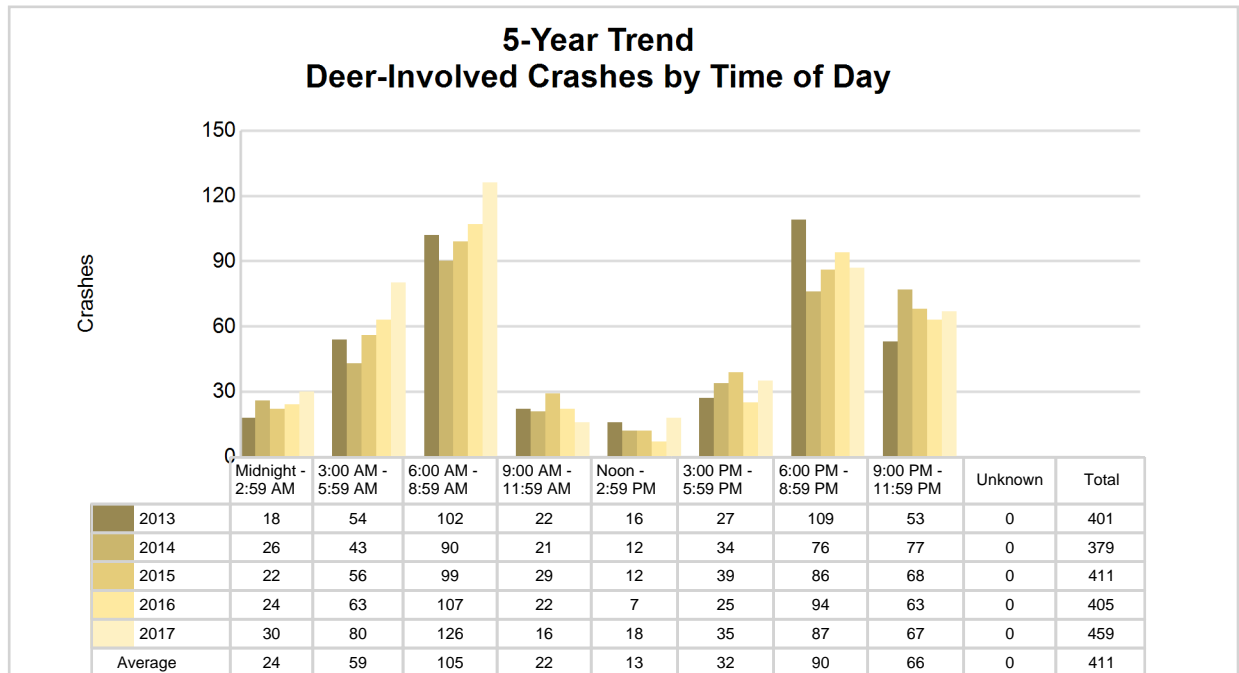
Time of Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Midnight - 2:59 AM	76	5.3	1	7.7	1	4	7	63
3:00 AM - 5:59 AM	154	10.8	3	23.1	3	4	12	132
6:00 AM - 8:59 AM	251	17.5	1	7.7	8	10	21	211
9:00 AM - 11:59 AM	161	11.3	2	15.4	6	12	15	126
Noon - 2:59 PM	173	12.1	1	7.7	7	10	20	135
3:00 PM - 5:59 PM	261	18.2	1	7.7	13	15	32	200
6:00 PM - 8:59 PM	209	14.6	3	23.1	7	13	18	168
9:00 PM - 11:59 PM	144	10.1	1	7.7	6	11	11	115
Unknown	2	0.1	0	0.0	0	1	0	1
Total	1,431	100.0	13	100.0	51	80	136	1,151



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	18	0	26	0	22	0	24	0	30	0
3:00 AM - 5:59 AM	54	0	43	0	56	0	63	0	80	0
6:00 AM - 8:59 AM	102	0	90	0	99	0	107	0	126	0
9:00 AM - 11:59 AM	22	0	21	0	29	0	22	0	16	0
Noon - 2:59 PM	16	0	12	0	12	0	7	0	18	0
3:00 PM - 5:59 PM	27	0	34	0	39	0	25	0	35	0
6:00 PM - 8:59 PM	109	0	76	0	86	0	94	0	87	0
9:00 PM - 11:59 PM	53	0	77	0	68	0	63	0	67	0
Unknown	0	0	0	0	0	0	0	0	0	0
Total	401	0	379	0	411	0	405	0	459	0

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



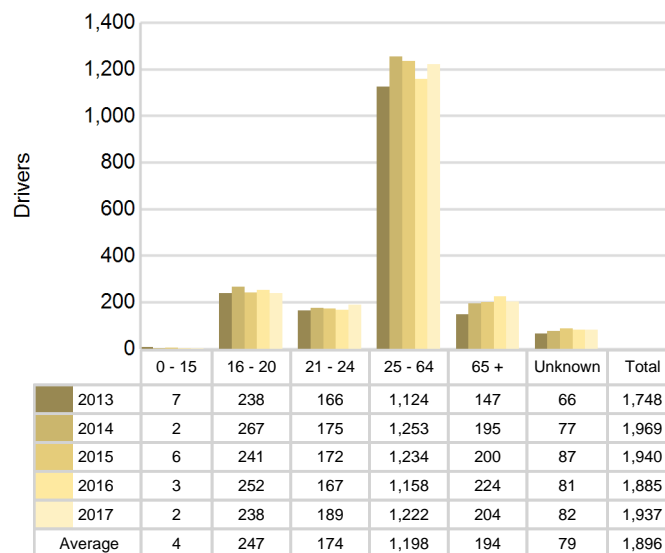
2017 - Reported Motor Vehicle Crashes by Municipality

Municipality	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Calvin Twp.	64	0	13	51	0	0	0	64	1	0	27	0	15
Cassopolis	27	0	5	22	0	0	18	9	2	0	3	0	7
Dowagiac	98	0	11	87	0	0	50	48	0	1	3	0	18
Edwardsburg	38	0	11	27	0	15	16	7	3	1	1	0	14
Howard Twp.	126	1	26	99	0	0	55	71	8	2	38	1	30
Jefferson Twp.	99	1	19	79	0	0	33	66	7	3	41	1	22
LaGrange Twp.	104	0	21	83	0	0	38	65	3	1	52	0	29
Marcellus	11	0	2	9	0	0	7	4	2	0	2	0	2
Marcellus Twp.	27	0	1	26	0	0	12	15	1	0	15	0	1
Mason Twp.	55	2	15	38	0	27	0	28	8	2	13	2	18
Milton Twp.	139	1	25	113	0	54	9	75	7	1	33	1	32
Newberg Twp.	56	0	6	50	0	0	35	20	0	0	25	0	9
Niles	0	0	0	0	0	0	0	0	0	0	0	0	0
Ontwa Twp.	132	2	37	93	0	33	26	73	6	3	26	3	62
Penn Twp.	55	1	11	43	0	0	20	35	2	1	25	1	13
Pokagon Twp.	110	1	18	91	0	0	49	61	7	2	49	1	20
Porter Twp.	106	3	14	89	0	41	20	45	4	1	36	3	20
Silver Creek Twp.	67	1	13	53	0	0	26	40	9	3	25	2	17
Vandalia	1	0	0	1	0	0	1	0	0	0	0	0	0
Volinia Twp.	42	0	7	35	0	0	0	42	0	0	16	0	8
Wayne Twp.	74	0	12	62	0	0	24	49	7	1	29	0	15
Unknown Community	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1,431	13	267	1,151	0	170	439	817	77	22	459	15	352

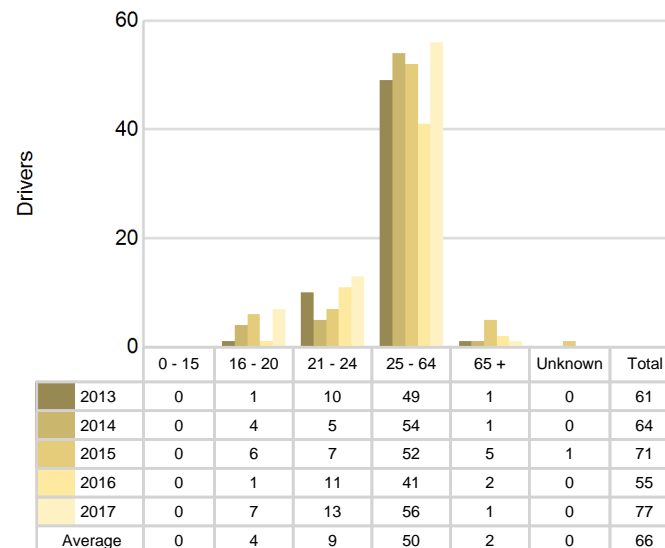
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

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	7	0	2	0	6	0	3	0	2	0
16 - 20	238	1	267	4	241	6	252	1	238	7
21 - 24	166	10	175	5	172	7	167	11	189	13
25 - 64	1,124	49	1,253	54	1,234	52	1,158	41	1,222	56
65 +	147	1	195	1	200	5	224	2	204	1
Unknown	66	0	77	0	87	1	81	0	82	0
Total	1,748	61	1,969	64	1,940	71	1,885	55	1,937	77

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	11	8	5	7	1	2	0	2	2
21 - 24	15	15	12	13	0	0	8	3	2
25 - 64	65	61	47	56	0	6	8	18	24
65 +	3	4	1	1	0	0	0	1	0
Unknown	3	0	0	0	0	0	0	0	0
Total	97	88	65	77	1	8	16	24	28

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 97 drivers in alcohol-involved crashes; 77 (79.4%) of those drivers were coded as had-been-drinking by the officer on the crash form.

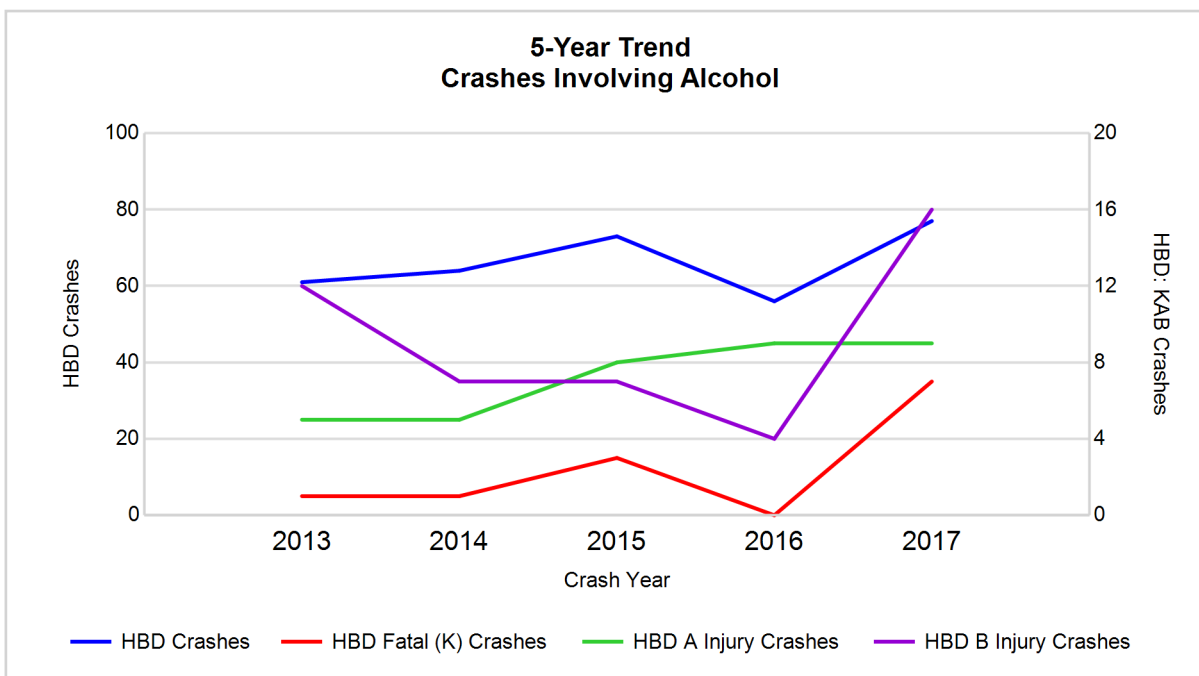
- 40 (51.9%) of the 77 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 24 (60.0%) of the 40 drivers had a BAC at or above 0.17 g/dL.
- 65 (84.4%) of the 77 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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	1,315	61	4.6	11	1	9.1	18	5	27.8	70	12	17.1
2014	1,403	64	4.6	7	1	14.3	28	5	17.9	72	7	9.7
2015	1,402	73	5.2	14	3	21.4	31	8	25.8	58	7	12.1
2016	1,407	56	4.0	9	0	0.0	31	9	29.0	76	4	5.3
2017	1,431**	77**	5.4**	13	7**	53.8**	51**	9	17.6*	80**	16**	20.0**

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



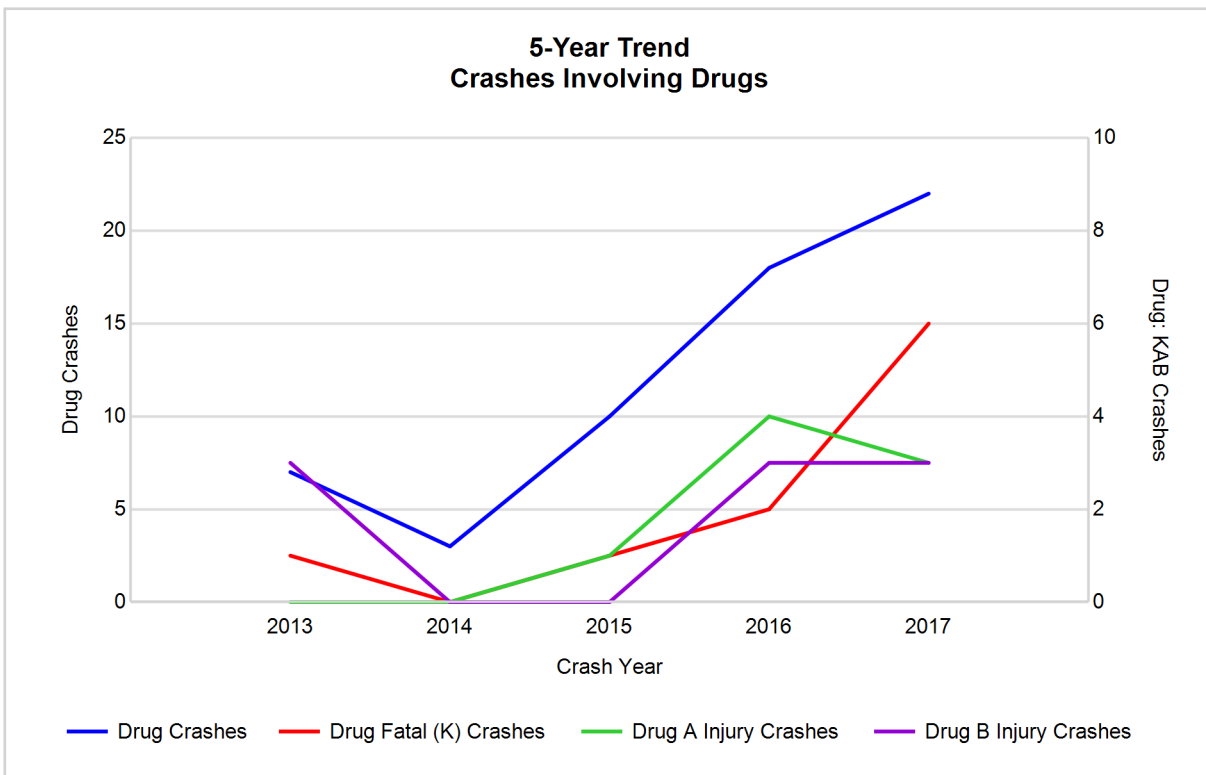
Note: Had-Been-Drinking (HBD)

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	1,315	7	0.5	11	1	9.1	18	0	0.0	70	3	4.3
2014	1,403	3	0.2	7	0	0.0	28	0	0.0	72	0	0.0
2015	1,402	10	0.7	14	1	7.1	31	1	3.2	58	0	0.0
2016	1,407	18	1.3	9	2	22.2	31	4	12.9	76	3	3.9
2017	1,431**	22**	1.5**	13	6**	46.2**	51**	3	5.9	80**	3	3.8

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

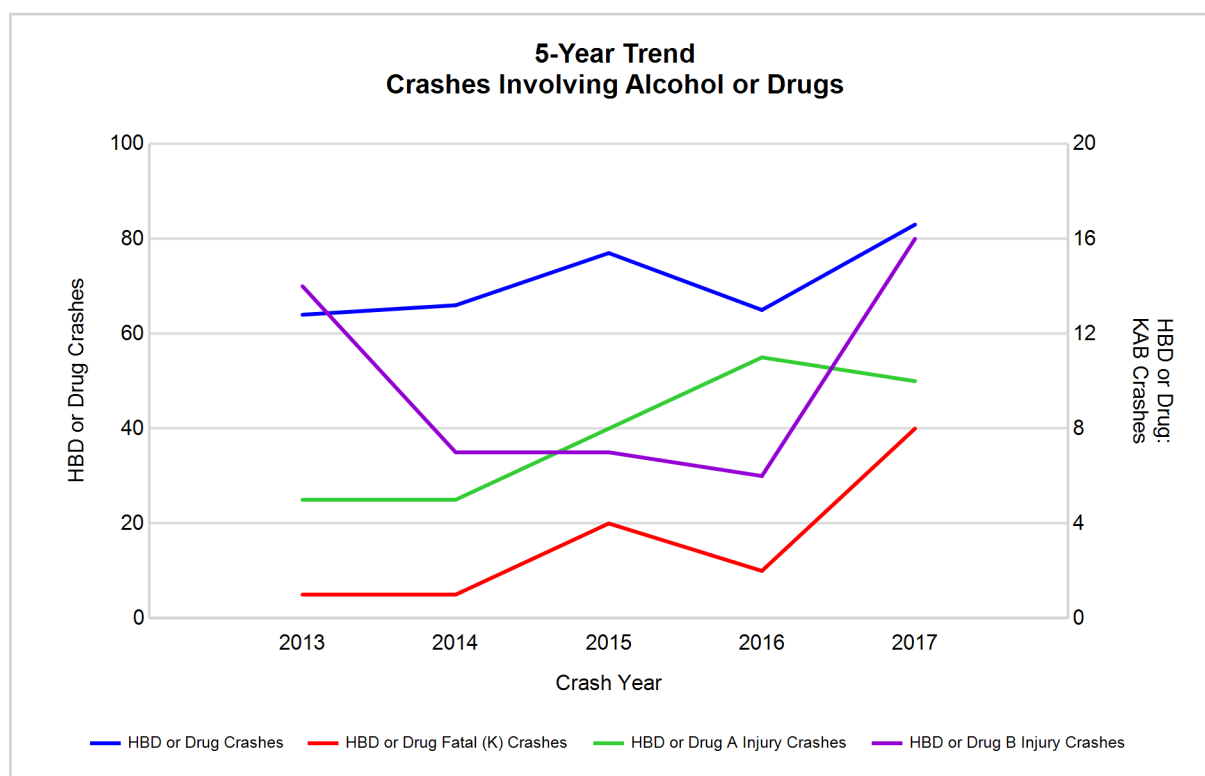


5-Year Trend - Crashes Involving Alcohol or Drugs

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	1,315	64	4.9	11	1	9.1	18	5	27.8	70	14	20.0
2014	1,403	66	4.7	7	1	14.3	28	5	17.9	72	7	9.7
2015	1,402	77	5.5	14	4	28.6	31	8	25.8	58	7	12.1
2016	1,407	65	4.6	9	2	22.2	31	11	35.5	76	6	7.9
2017	1,431**	83**	5.8**	13	8**	61.5**	51**	10	19.6	80**	16**	20.0

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	1,489	1,391	93.4	8	3	37.5	38	26	68.4	61	54	88.5	162	158	97.5	1,174	1,150	98.0
Motor home	5	4	80.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	5	4	80.0
Pickup truck	359	331	92.2	3	1	33.3	8	6	75.0	16	14	87.5	22	21	95.5	298	289	97.0
Small truck under 10,000 lbs. GVWR	20	18	90.0	0	0	0.0	1	1	100.0	0	0	0.0	3	2	66.7	15	15	100.0
Motorcycle	23	12	52.2	1	1	100.0	6	5	83.3	9	3	33.3	4	2	50.0	3	1	33.3
Moped / goped	2	0	0.0	0	0	0.0	0	0	0.0	1	0	0.0	1	0	0.0	0	0	0.0
Go-cart / golf cart	4	0	0.0	0	0	0.0	1	0	0.0	1	0	0.0	2	0	0.0	0	0	0.0
Snowmobile	2	2	100.0	0	0	0.0	1	1	100.0	0	0	0.0	0	0	0.0	1	1	100.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Other	9	4	44.4	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	8	4	50.0
Truck/bus over 10,000 lbs.	68	63	92.6	1	1	100.0	1	1	100.0	1	1	100.0	5	5	100.0	58	55	94.8
Unknown	27	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Total	2,008	1,825	90.9	13	6	0.0	56	40	71.4	89	72	80.9	199	188	94.5	1,562	1,519	97.2

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	28	24	85.7	1	0	0.0	1	1	100.0	7	6	85.7	19	17	89.5	0	0	0.0
16 - 20	250	238	95.2	1	1	100.0	7	4	57.1	13	11	84.6	27	25	92.6	202	197	97.5
21 - 24	191	179	93.7	2	1	50.0	7	2	28.6	13	11	84.6	21	19	90.5	148	146	98.6
25 - 64	1,250	1,182	94.6	9	4	44.4	35	28	80.0	49	37	75.5	115	111	96.5	1,035	1,002	96.8
65 +	207	202	97.6	0	0	0.0	6	5	83.3	7	7	100.0	17	16	94.1	177	174	98.3
Unknown	82	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Total	2,008	1,825	90.9	13	6	0.0	56	40	71.4	89	72	80.9	199	188	94.5	1,562	1,519	97.2

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	16	0	2	7	0	0	16	0	1	11	0	2	8	0	2
Shoulder belt only used	5	0	0	5	0	0	0	0	0	11	0	3	14	0	2
Lap belt only used	1	0	0	8	0	2	12	0	5	6	0	0	4	0	0
Both lap & shoulder belts used	1,556	6	186	1,777	2	209	1,741	5	184	1,692	4	243	1,729	4	224
No belts used	29	1	13	27	1	9	18	1	8	21	0	7	15	3	6
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	1	0	0	1	0	0	0	0	0	1	0	0	1	0	1
Restraint use unknown	56	1	9	32	0	8	42	3	9	79	1	7	140	2	21
Helmet worn	6	0	2	19	0	11	9	1	5	16	0	9	12	1	9
Helmet not worn	10	0	7	10	1	6	11	1	9	14	0	11	11	0	10
Helmet use unknown	4	1	3	1	0	1	2	0	1	3	1	2	2	0	1
Uncoded & errors	64	0	0	82	0	0	89	0	0	31	0	0	1	0	0
Total	1,748	9	222	1,969	4	246	1,940	11	222	1,885	6	284	1,937	10	276

5-Year Trend - Restraint Use Among Drivers Coded Drinking

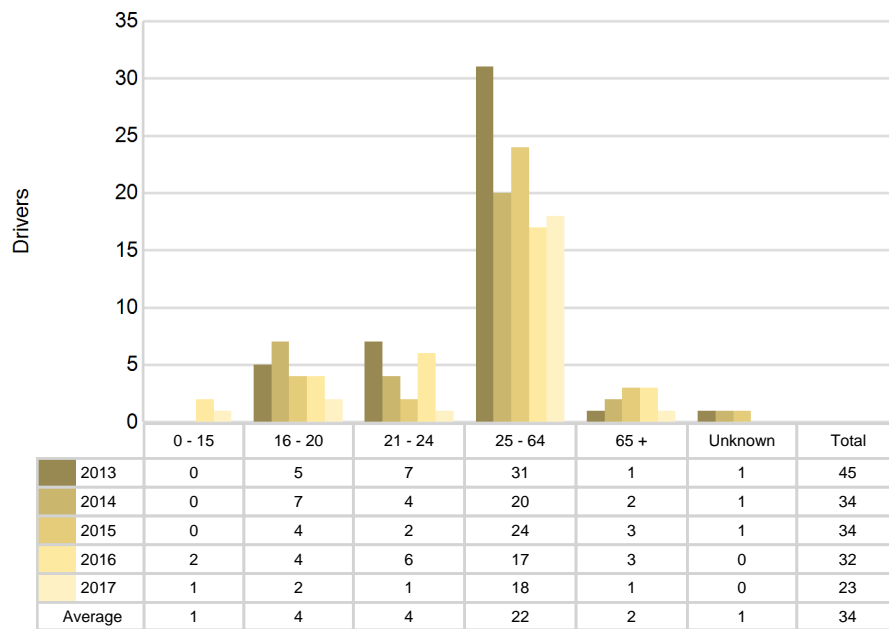
Restraint Use	2013			2014			2015			2016			2017		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	0	0	0	1	0	0	2	0	1	0	0	0	0	0	0
Shoulder belt only used	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1
Lap belt only used	0	0	0	1	0	0	2	0	1	0	0	0	0	0	0
Both lap & shoulder belts used	41	1	14	42	0	13	50	0	18	47	0	19	54	2	24
No belts used	9	0	6	5	0	3	5	0	5	2	0	1	7	2	4
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	0	0	0	0	0	0	0	0	0	0	0	0
Restraint use unknown	9	0	5	13	0	3	10	0	3	2	0	1	13	0	8
Helmet worn	1	0	1	1	0	1	0	0	0	0	0	0	1	1	0
Helmet not worn	1	0	1	1	0	0	1	0	1	3	0	2	1	0	0
Helmet use unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uncoded & errors	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Total	61	1	27	64	0	20	71	0	29	55	0	23	77	5	37

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	0	0	0	0	0	0	0	0	0	2	0	1	1	0	1
16 - 20	5	0	3	7	0	4	4	0	1	4	0	3	2	0	1
21 - 24	7	0	5	4	0	0	2	0	0	6	0	1	1	1	0
25 - 64	31	1	7	20	1	5	24	1	8	17	0	4	18	2	5
65 +	1	0	0	2	0	0	3	0	0	3	0	0	1	0	1
Unknown	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0
Total	45	1	15	34	1	9	34	1	9	32	0	9	23	3	8

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

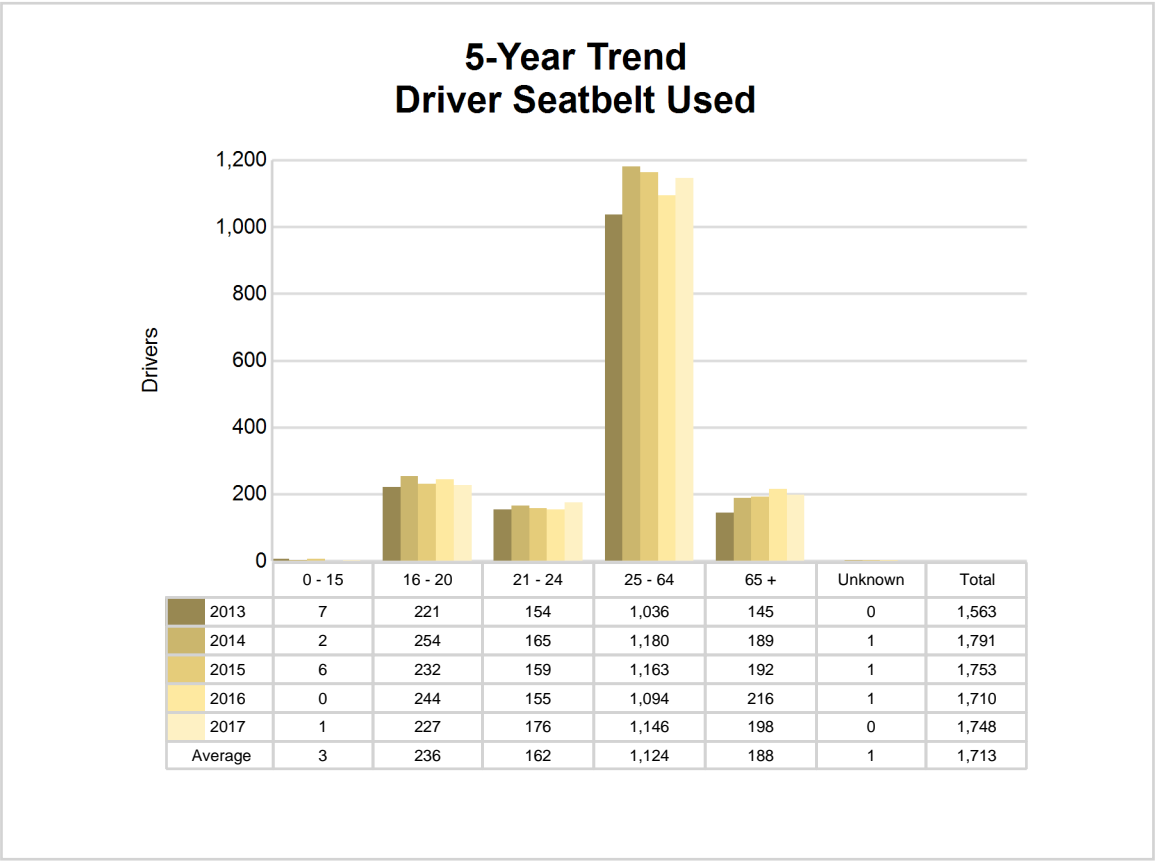
5-Year Trend Driver Seatbelt Not Used



5-Year Trend - Seatbelt Used Among Drivers by Age

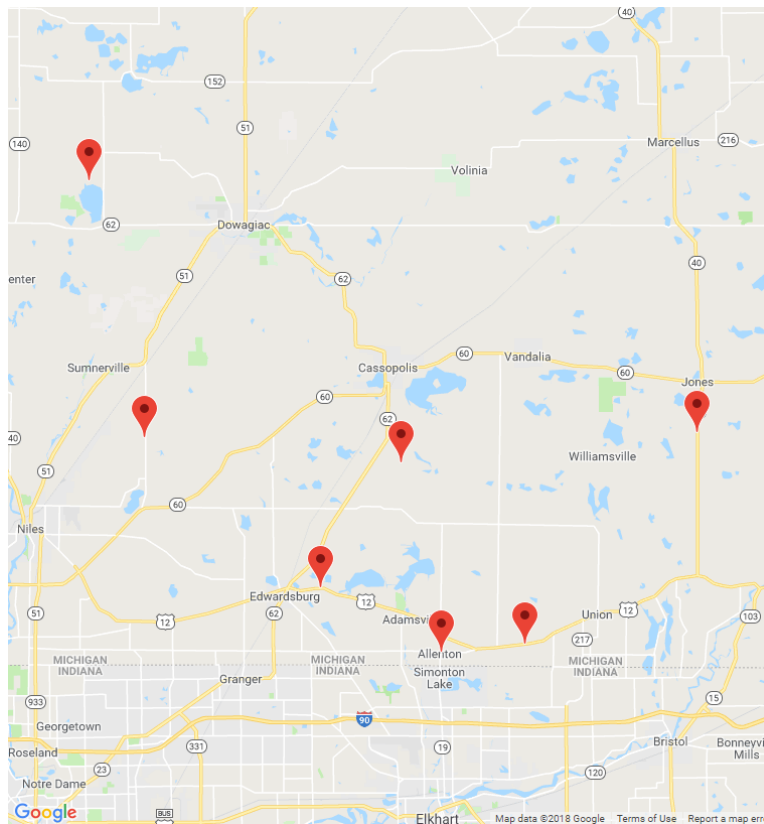
Age Group	2013			2014			2015			2016			2017		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
0 - 15	7	0	2	2	0	0	6	0	1	0	0	0	1	0	1
16 - 20	221	1	26	254	0	33	232	1	30	244	1	32	227	0	30
21 - 24	154	1	19	165	0	23	159	1	16	155	0	21	176	1	29
25 - 64	1,036	2	113	1,180	2	134	1,163	2	120	1,094	3	162	1,146	3	143
65 +	145	2	26	189	0	21	192	1	22	216	0	31	198	0	24
Unknown	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0
Total	1,563	6	186	1,791	2	211	1,753	5	189	1,710	4	246	1,748	4	227

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	916	6	1,009	3	1,050	8	996	6	1,068	7
Speed too fast	273	2	297	3	227	2	264	1	203	5
Speed too slow	4	0	3	0	2	0	2	0	3	0
Failed to yield	125	1	146	1	150	1	149	4	168	0
Disregard traffic control	30	0	28	1	22	0	34	2	24	1
Drove wrong way	3	0	1	0	1	0	0	0	2	0
Drove left of center	22	3	17	0	24	4	17	0	19	2
Improper passing	18	0	16	0	16	0	13	0	11	0
Improper lane use	6	0	12	1	8	0	11	0	7	0
Improper turn	11	0	16	0	17	0	14	0	13	0
Improper/no signal	6	0	9	0	10	0	11	0	1	0
Improper backing	19	0	26	0	26	0	20	0	20	0
Unable to stop in assured clear distance	113	0	146	0	155	0	120	0	124	0
Other	63	2	98	0	81	0	83	0	71	1
Unknown	48	1	51	1	53	4	65	1	91	1
Reckless driving	17	1	13	0	16	0	10	0	23	1
Careless/negligent driving	71	1	81	2	82	1	76	1	89	0
Uncoded & errors	3	0	0	0	0	0	0	0	0	0
Total	1,748	17	1,969	12	1,940	20	1,885	15	1,937	18



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

In 2017, there were 77 alcohol-involved crashes in Cass County:

- 7 K - Fatal Crashes
- 9 A - Suspected Serious Injury Crashes
- 16 B - Suspected Minor Injury Crashes
- 13 C - Possible Injury Crashes
- 32 O - Property Damage Only/No Injury Crashes

Office of Highway Safety Planning

Physical Address:
7150 Harris Drive
Dimondale, Michigan 48821

Mailing Address:
P.O. Box 30634
Lansing, Michigan 48909

Phone: (517) 284-3112
Fax: (517) 284-3151

Find us on the web:
MichiganTrafficCrashFacts.org

