



2016

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

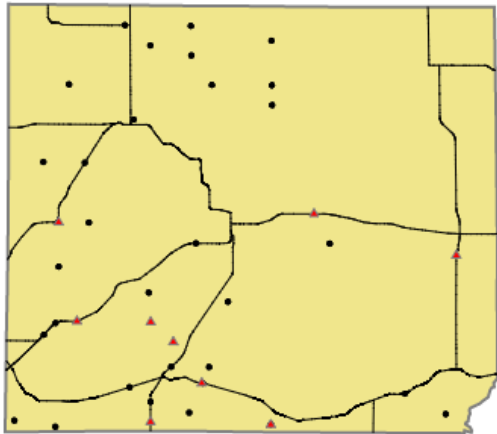
2016 Traffic Crash Data & 2012-2016 5-Year Trends



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 (9/9)
- A - Suspected Serious (31/31)

Cass County

In 2016:

There were 1,885 drivers involved in 1,407 motor vehicle crashes in Cass County. Of those crashes, 9 were classified as fatal, resulting in 9 fatalities. An additional 379 persons were injured.

Cass County experienced the highest number of motor vehicle crashes (176) in January, the highest number of fatal crashes (3) and the highest number of persons killed (3) in April.

Michigan driver statistics indicate 6.2 percent of licensed drivers in Cass County were age 16-20, and 13.4 percent of drivers in crashes were also in that age group.

2016 - Crashes and Injuries by Month

Month	Crashes				Persons	
	Total	Fatal	Injury	Property Damage Only (PDO)	Fatalities	Injuries
January	176	0	21	155	0	31
February	149	0	16	133	0	22
March	98	2	13	83	2	21
April	89	3	19	67	3	24
May	101	1	30	70	1	42
June	102	0	25	77	0	29
July	98	0	29	69	0	48
August	86	1	22	63	1	29
September	83	0	20	63	0	30
October	105	0	30	75	0	38
November	148	0	18	130	0	23
December	172	2	30	140	2	42
Total	1,407	9	273	1,125	9	379

2016 - Driver Statistics

Age Group	Statewide			Driver Rates	
	2016 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	9,418	249	3	3.2	120.5
16 - 20	3,174	2,394	252	794.0	1,052.6
21 - 24	2,190	1,974	167	762.6	846.0
25 - 64	26,340	24,522	1,158	439.6	472.2
65 +	10,477	9,294	224	213.8	241.0
Unknown	0	0	81	- -	- -
Total	51,599	38,433	1,885	365.3	490.5

2016 - 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	1,384	73.4	9	60.0	305	1,070
Motor home	40	2.1	0	0.0	7	33
Pickup truck	310	16.4	4	26.7	54	252
Small truck under 10,000 lbs. GVWR	27	1.4	0	0.0	7	20
Motorcycle	29	1.5	1	6.7	20	8
Moped / goped	3	0.2	0	0.0	3	0
Go-cart / golf cart	1	0.1	0	0.0	1	0
Snowmobile	0	0.0	0	0.0	0	0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	1	0.1	0	0.0	1	0
Other	14	0.7	0	0.0	2	12
Truck/bus over 10,000 lbs.	46	2.4	1	6.7	12	33
Unknown	30	1.6	0	0.0	3	27
Total	1,885	100.0	15	100.0	415	1,455

5-Year Trend - Crashes by Month

Month	2012		2013		2014		2015		2016	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
January	194	0	155	0	172	0	168	2	176	0
February	144	0	139	1	134	0	171	1	149	0
March	70	0	105	2	117	0	82	1	98	2
April	61	1	57	1	85	0	75	1	89	3
May	84	0	87	1	75	1	89	3	101	1
June	87	2	82	1	94	0	99	0	102	0
July	70	3	77	0	93	4	96	2	98	0
August	81	2	74	0	89	0	94	1	86	1
September	58	2	76	2	79	0	85	2	83	0
October	115	1	118	0	133	1	135	0	105	0
November	125	1	205	1	239	1	173	0	148	0
December	145	0	140	2	93	0	135	1	172	2
Total	1,234	12	1,315	11	1,403	7	1,402	14	1,407	9

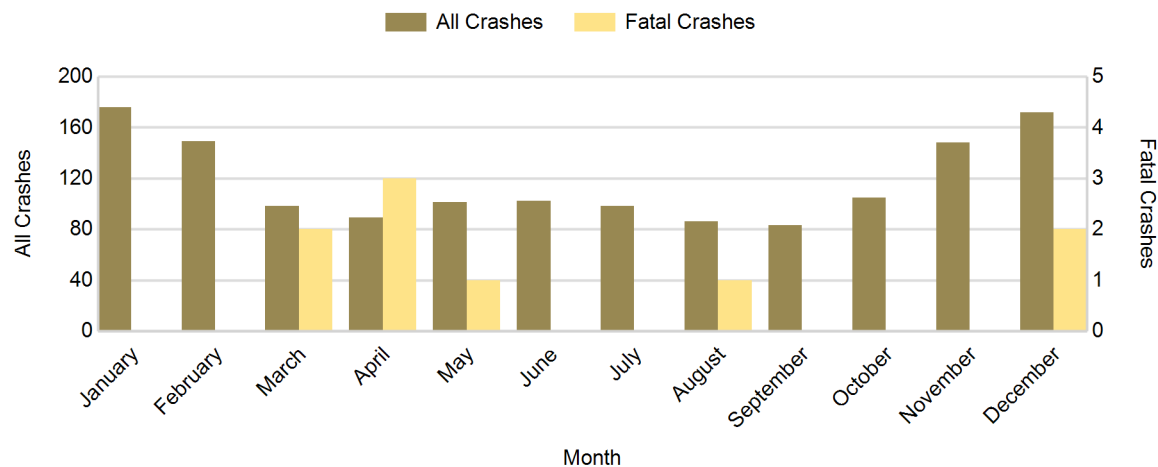
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

5-Year Trend - Crashes by Day of Week

Day	2012		2013		2014		2015		2016	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Monday	177	0	175	1	171	1	191	2	195	1
Tuesday	166	3	178	1	194	1	191	0	210	2
Wednesday	192	0	250	4	224	0	201	1	190	0
Thursday	174	1	207	1	257	3	204	2	229	3
Friday	196	2	177	2	233	1	224	4	201	1
Saturday	172	1	176	1	179	1	230	3	205	1
Sunday	157	5	152	1	145	0	161	2	177	1
Total	1,234	12	1,315	11	1,403	7	1,402	14	1,407	9

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

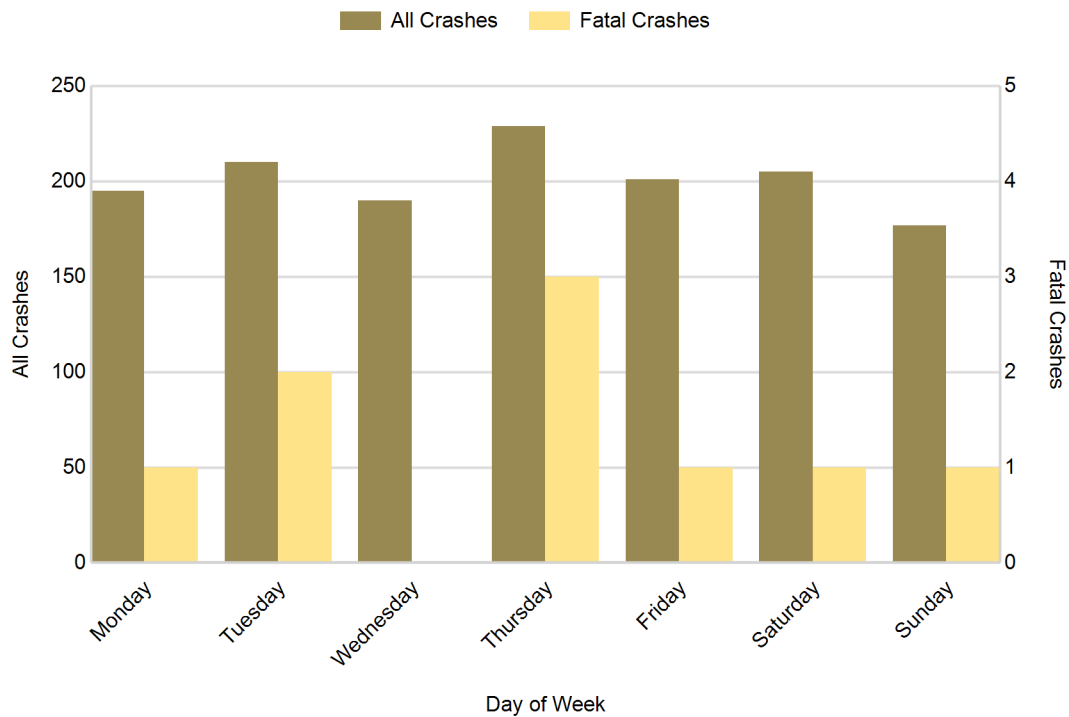
2016 Crashes by Month



2016 - 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	195	13.9	1	11.1	2	9	23	160
Tuesday	210	14.9	2	22.2	4	8	23	173
Wednesday	190	13.5	0	0.0	5	13	17	155
Thursday	229	16.3	3	33.3	5	12	29	180
Friday	201	14.3	1	11.1	4	9	25	162
Saturday	205	14.6	1	11.1	7	14	30	153
Sunday	177	12.6	1	11.1	4	11	19	142
Total	1,407	100.0	9	100.0	31	76	166	1,125

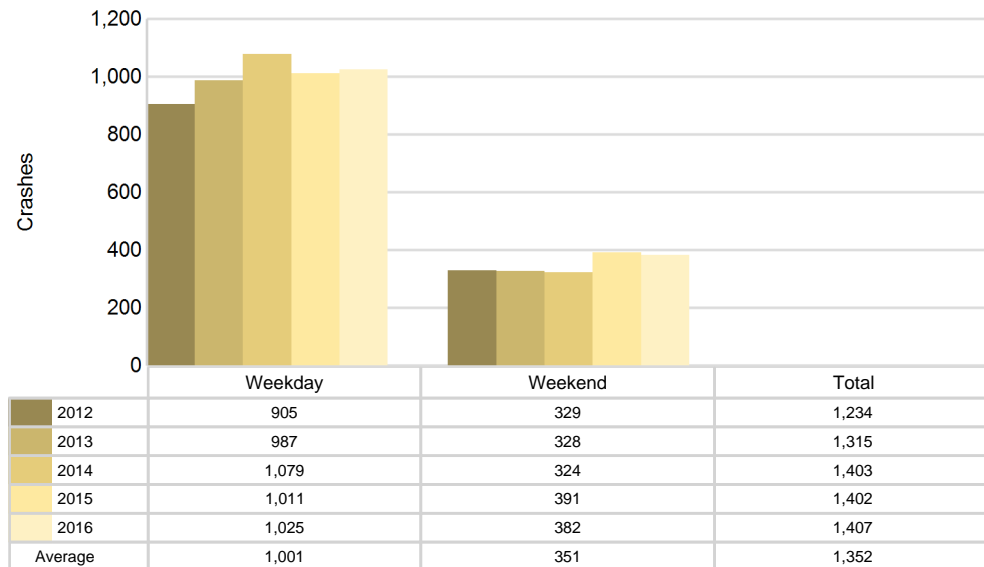
2016 Day of Week and Severity



5-Year Trend - Crashes by Weekday and Weekend

Portion of Week	2012		2013		2014		2015		2016	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Weekday	905	6	987	9	1,079	6	1,011	9	1,025	7
Weekend	329	6	328	2	324	1	391	5	382	2
Total	1,234	12	1,315	11	1,403	7	1,402	14	1,407	9

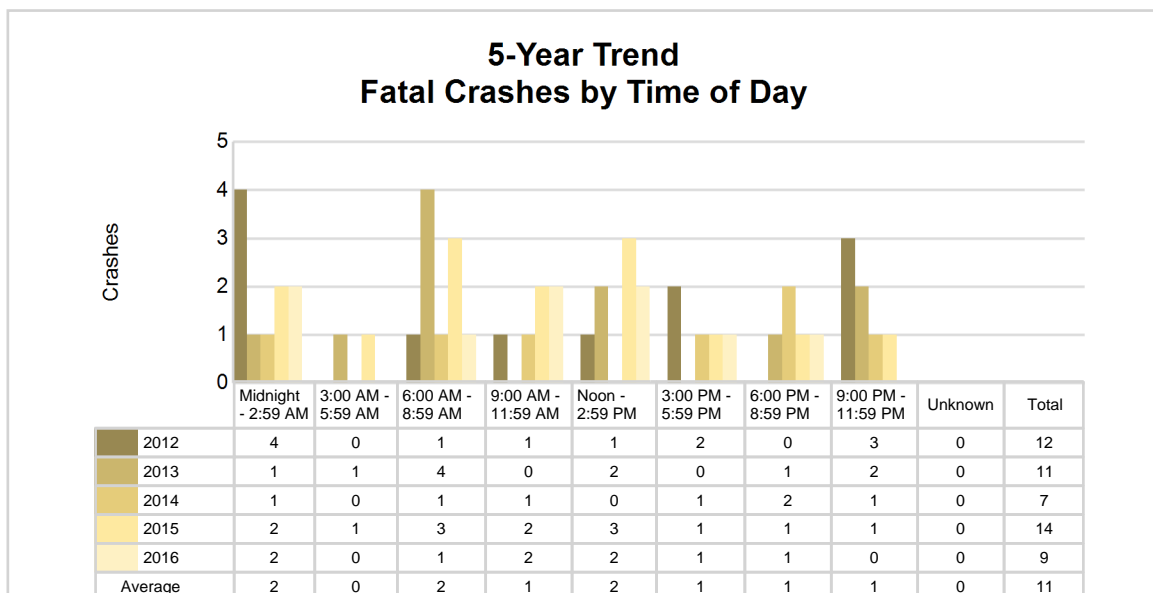
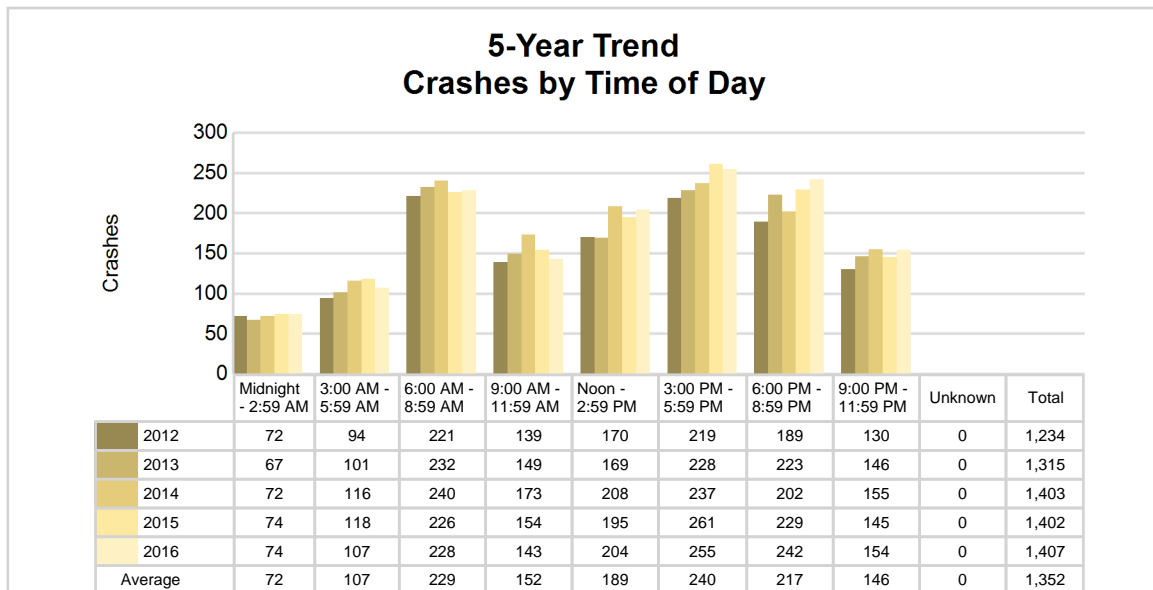
5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



5-Year Trend - Crashes by Time of Day

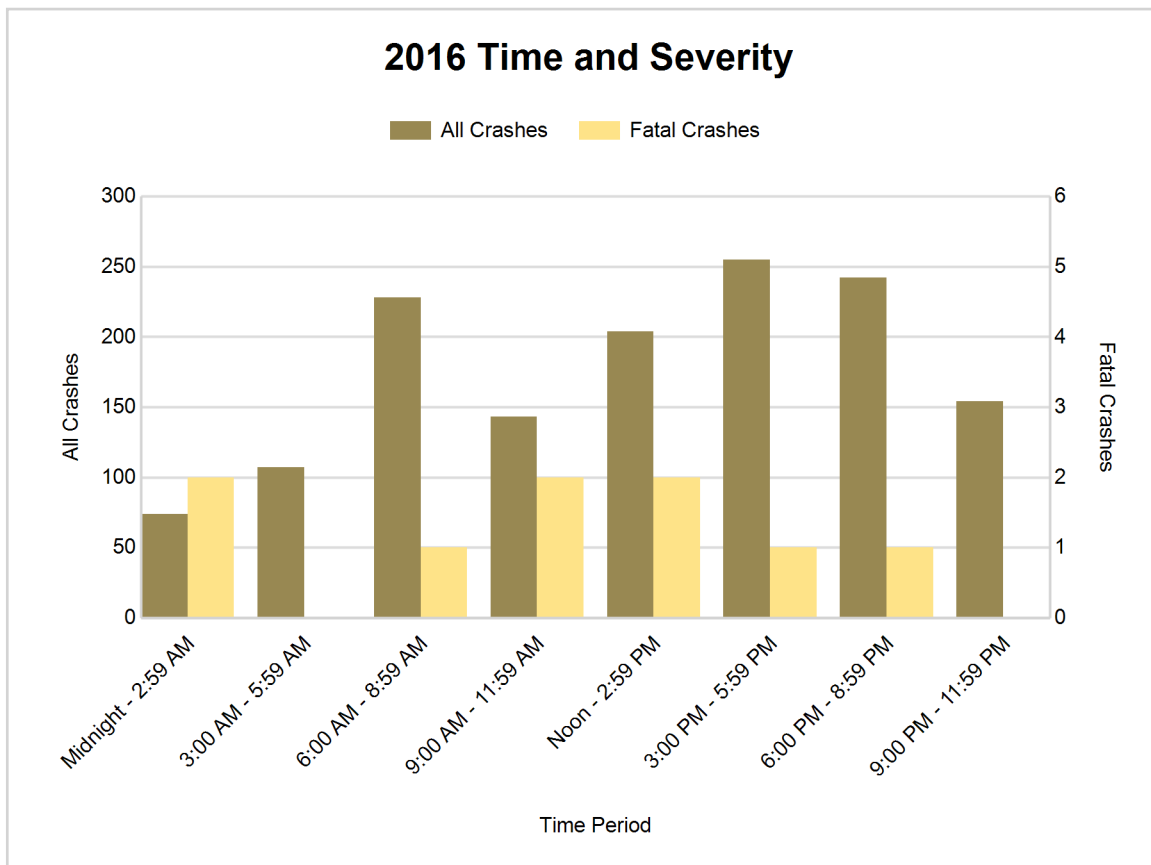
Time of Day	2012		2013		2014		2015		2016	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	72	4	67	1	72	1	74	2	74	2
3:00 AM - 5:59 AM	94	0	101	1	116	0	118	1	107	0
6:00 AM - 8:59 AM	221	1	232	4	240	1	226	3	228	1
9:00 AM - 11:59 AM	139	1	149	0	173	1	154	2	143	2
Noon - 2:59 PM	170	1	169	2	208	0	195	3	204	2
3:00 PM - 5:59 PM	219	2	228	0	237	1	261	1	255	1
6:00 PM - 8:59 PM	189	0	223	1	202	2	229	1	242	1
9:00 PM - 11:59 PM	130	3	146	2	155	1	145	1	154	0
Unknown	0	0	0	0	0	0	0	0	0	0
Total	1,234	12	1,315	11	1,403	7	1,402	14	1,407	9

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



2016 - Time and Severity

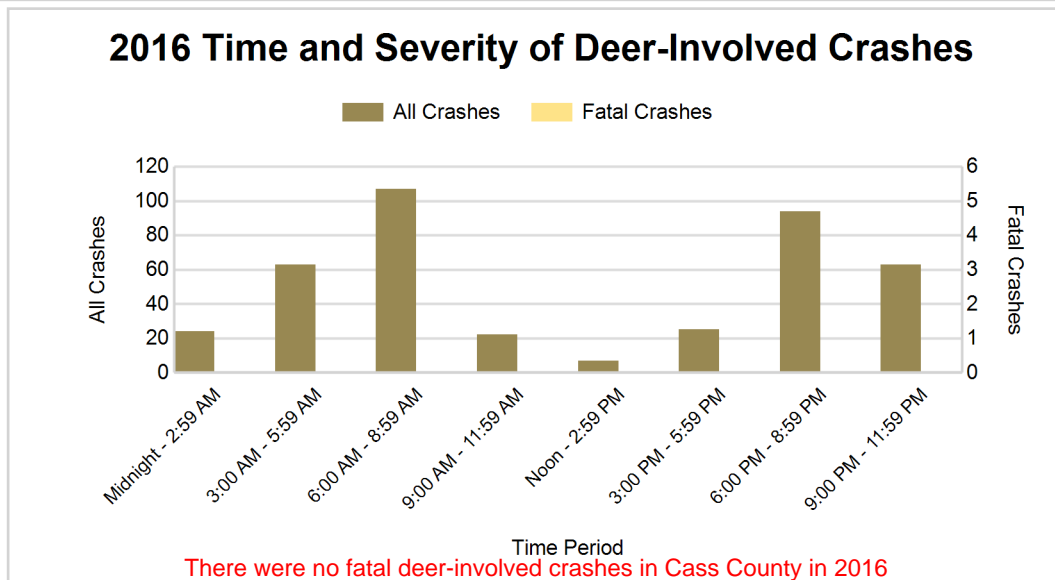
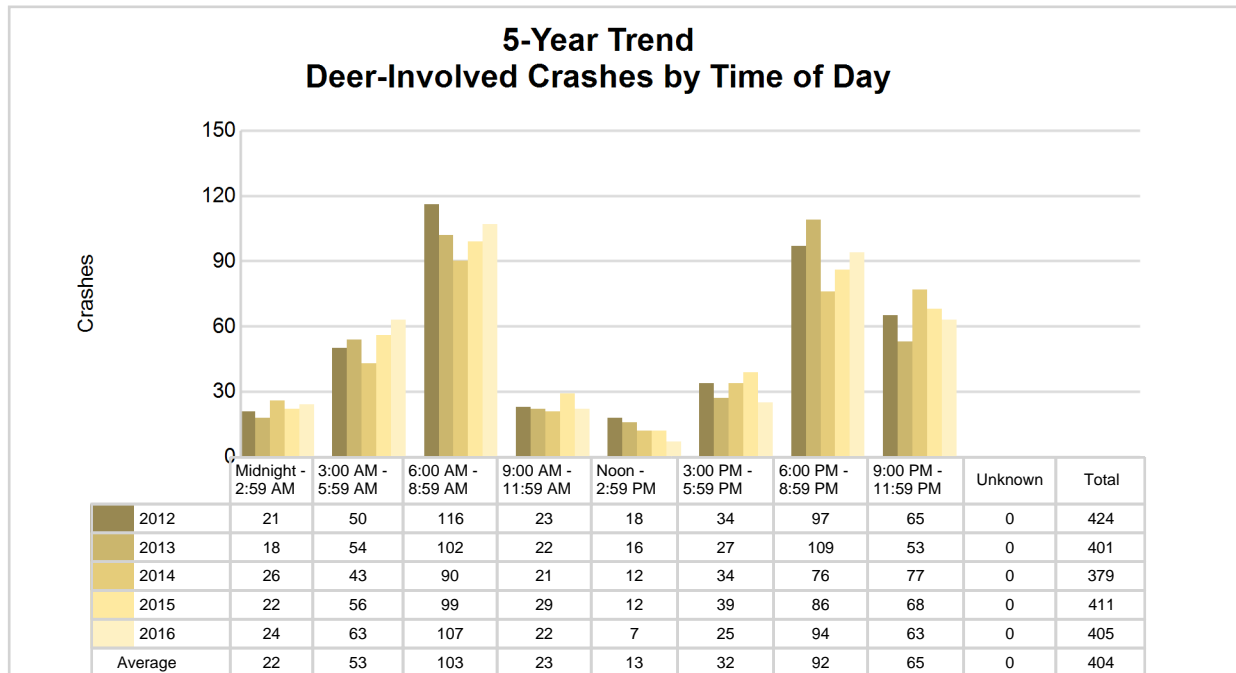
Time of Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Midnight - 2:59 AM	74	5.3	2	22.2	3	2	9	58
3:00 AM - 5:59 AM	107	7.6	0	0.0	1	7	9	90
6:00 AM - 8:59 AM	228	16.2	1	11.1	0	10	23	194
9:00 AM - 11:59 AM	143	10.2	2	22.2	1	4	22	114
Noon - 2:59 PM	204	14.5	2	22.2	7	13	32	150
3:00 PM - 5:59 PM	255	18.1	1	11.1	4	17	40	193
6:00 PM - 8:59 PM	242	17.2	1	11.1	9	16	17	199
9:00 PM - 11:59 PM	154	10.9	0	0.0	6	7	14	127
Unknown	0	0.0	0	0.0	0	0	0	0
Total	1,407	100.0	9	100.0	31	76	166	1,125



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

Time of Day	2012		2013		2014		2015		2016	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	21	0	18	0	26	0	22	0	24	0
3:00 AM - 5:59 AM	50	0	54	0	43	0	56	0	63	0
6:00 AM - 8:59 AM	116	0	102	0	90	0	99	0	107	0
9:00 AM - 11:59 AM	23	0	22	0	21	0	29	0	22	0
Noon - 2:59 PM	18	0	16	0	12	0	12	0	7	0
3:00 PM - 5:59 PM	34	0	27	0	34	0	39	0	25	0
6:00 PM - 8:59 PM	97	0	109	0	76	0	86	0	94	0
9:00 PM - 11:59 PM	65	0	53	0	77	0	68	0	63	0
Unknown	0	0	0	0	0	0	0	0	0	0
Total	424	0	401	0	379	0	411	0	405	0

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



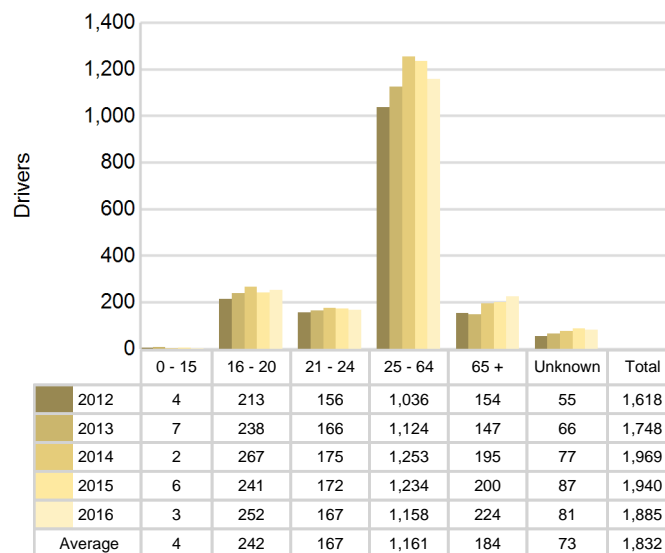
2016 - Reported Motor Vehicle Crashes by Municipality

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.	59	0	14	45	0	0	0	59	1	0	25	0	17
Cassopolis	30	0	3	27	0	0	23	7	1	0	5	0	3
Dowagiac	97	0	16	81	0	0	53	44	2	1	2	0	18
Edwardsburg	35	0	7	28	0	12	16	7	1	1	1	0	8
Howard Twp.	113	1	24	88	0	0	40	73	10	2	36	1	32
Jefferson Twp.	121	2	22	97	0	0	46	75	3	1	51	2	27
LaGrange Twp.	64	0	8	56	0	0	19	45	1	0	29	0	13
Marcellus	7	0	1	6	0	0	5	2	1	0	1	0	1
Marcellus Twp.	35	0	4	31	0	0	14	21	2	0	15	0	5
Mason Twp.	67	1	12	54	0	26	0	41	2	3	15	1	24
Milton Twp.	148	0	30	118	0	40	13	94	4	0	26	0	39
Newberg Twp.	58	0	7	51	0	0	29	29	1	0	21	0	8
Niles	1	0	0	1	0	0	0	1	0	0	1	0	0
Ontwa Twp.	133	2	35	96	0	30	28	75	8	4	17	2	54
Penn Twp.	37	1	3	33	0	0	12	25	2	1	19	1	6
Pokagon Twp.	103	1	18	84	0	0	41	61	2	0	41	1	26
Porter Twp.	88	1	22	65	0	35	20	33	4	1	26	1	39
Silver Creek Twp.	73	0	11	62	0	0	30	43	4	0	36	0	13
Vandalia	3	0	0	3	0	0	2	1	0	0	0	0	0
Volinia Twp.	51	0	12	39	0	0	0	51	2	1	17	0	17
Wayne Twp.	84	0	24	60	0	0	21	63	5	3	21	0	29
Unknown Community	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1,407	9	273	1,125	0	143	412	850	56	18	405	9	379

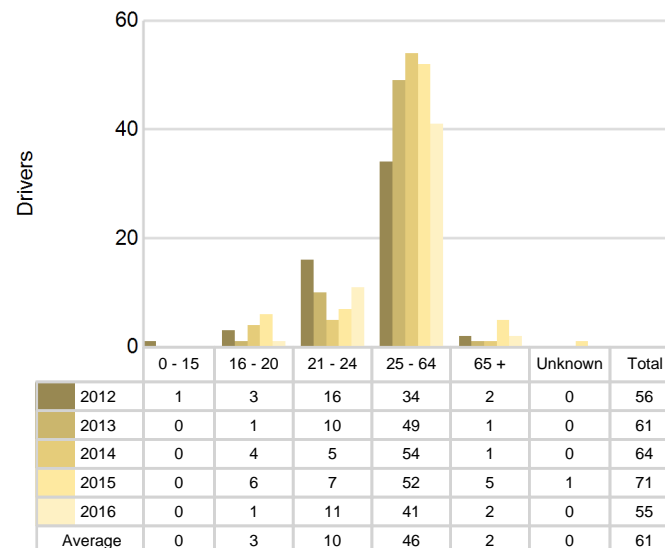
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

Driver Age	2012		2013		2014		2015		2016	
	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	4	1	7	0	2	0	6	0	3	0
16 - 20	213	3	238	1	267	4	241	6	252	1
21 - 24	156	16	166	10	175	5	172	7	167	11
25 - 64	1,036	34	1,124	49	1,253	54	1,234	52	1,158	41
65 +	154	2	147	1	195	1	200	5	224	2
Unknown	55	0	66	0	77	0	87	1	81	0
Total	1,618	56	1,748	61	1,969	64	1,940	71	1,885	55

5-Year Trend Total Drivers in Crashes by Age



5-Year Trend Total Drivers Coded Drinking by Age



2016 - 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	1	5	1	1	0	0	0	0	1
21 - 24	11	12	6	11	1	0	0	3	7
25 - 64	49	43	32	41	0	3	7	13	18
65 +	3	3	2	2	1	0	1	0	0
Unknown	0	0	0	0	0	0	0	0	0
Total	64	63	41	55	2	3	8	16	26

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 2016, there were 64 drivers in alcohol-involved crashes; 55 (85.9%) of those drivers were coded as had-been-drinking by the officer on the crash form.

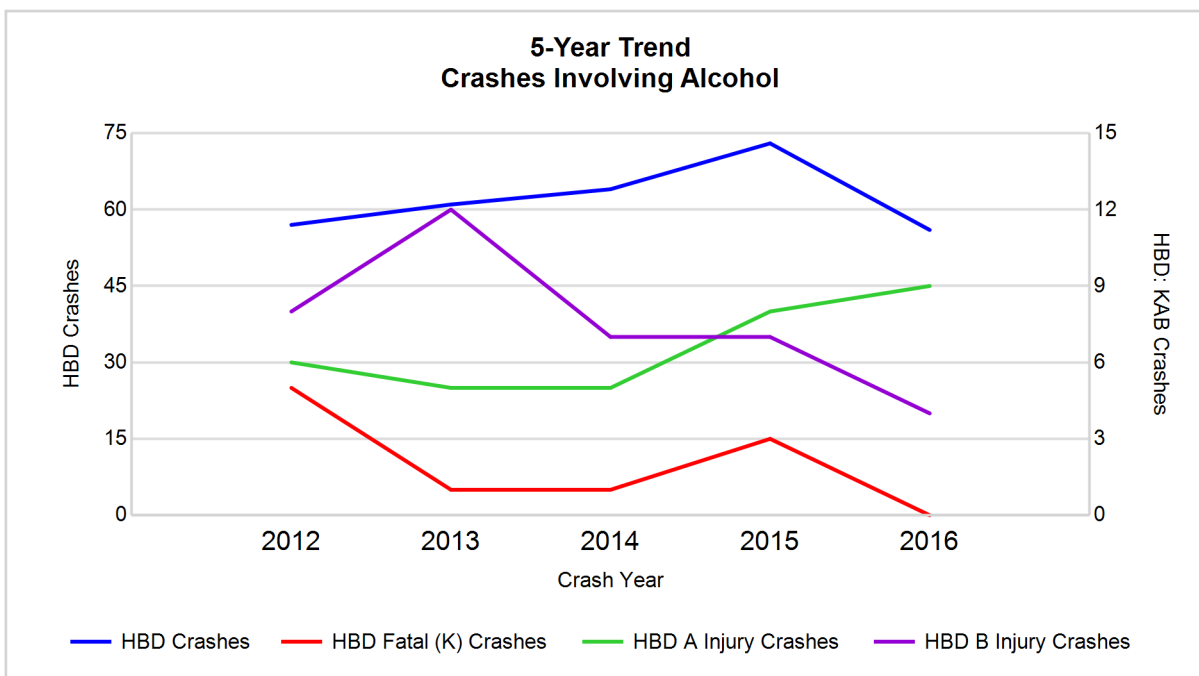
- 24 (43.6%) of the 55 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 16 (66.7%) of the 24 drivers had a BAC at or above 0.17 g/dL.
- 41 (74.5%) of the 55 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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
2012	1,234	57	4.6	12	5	41.7	40	6	15.0	61	8	13.1
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*

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



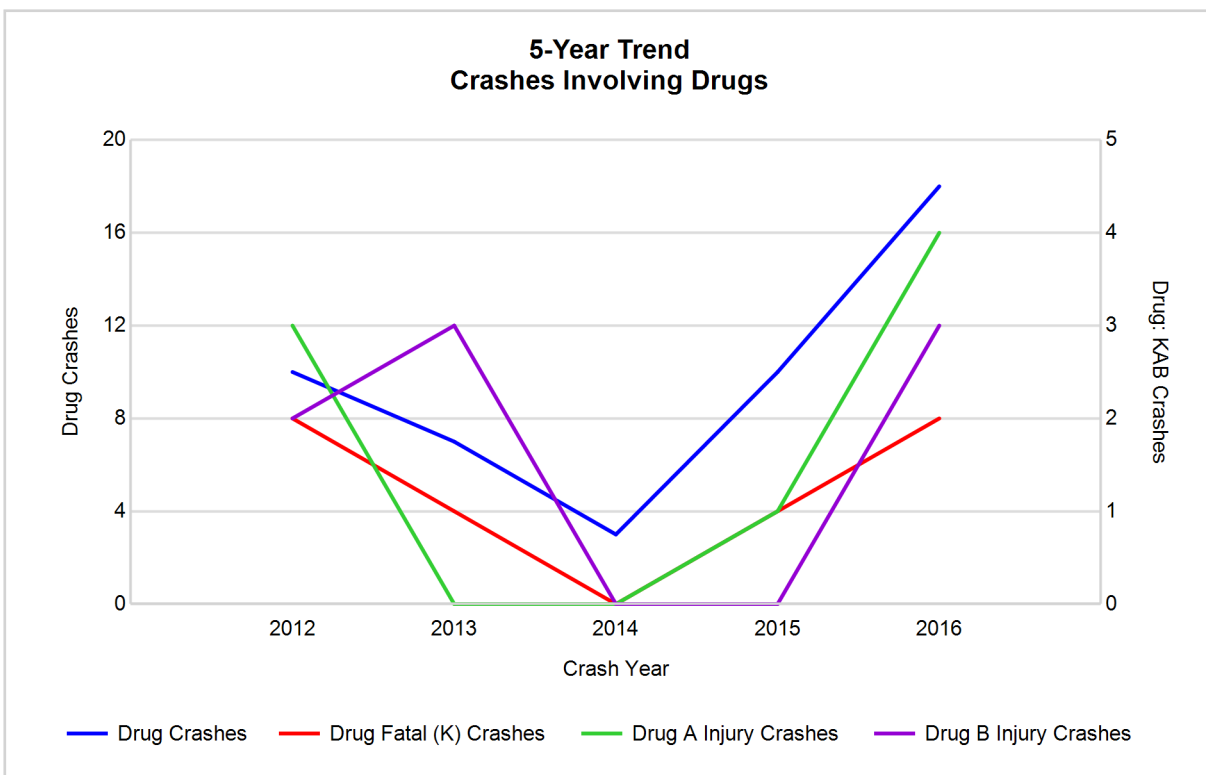
Note: Had-Been-Drinking (HBD)

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
2012	1,234	10	0.8	12	2	16.7	40	3	7.5	61	2	3.3
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

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

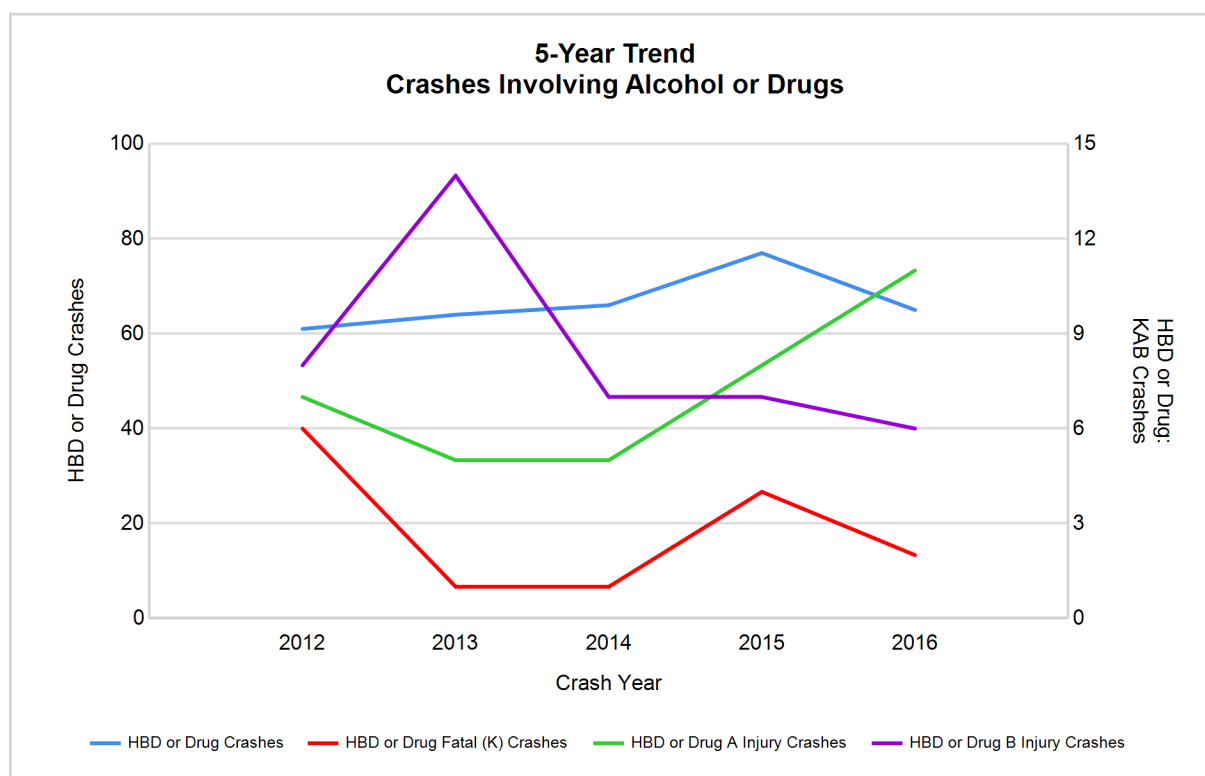


5-Year Trend - Crashes Involving Alcohol or Drugs

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
2012	1,234	61	4.9	12	6	50.0	40	7	17.5	61	8	13.1
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*

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)

2016 - 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	1,454	1,370	94.2	6	5	83.3	24	22	91.7	74	66	89.2	184	175	95.1	1,129	1,101	97.5
Motor home	42	39	92.9	0	0	0.0	0	0	0.0	2	2	100.0	5	5	100.0	34	32	94.1
Pickup truck	318	295	92.8	0	0	0.0	3	3	100.0	13	9	69.2	26	26	100.0	264	257	97.3
Small truck under 10,000 lbs. GVWR	27	25	92.6	0	0	0.0	0	0	0.0	1	0	0.0	4	4	100.0	21	21	100.0
Motorcycle	33	17	51.5	1	0	0.0	7	4	57.1	8	3	37.5	8	3	37.5	9	7	77.8
Moped / goped	4	2	50.0	0	0	0.0	0	0	0.0	1	1	100.0	2	1	50.0	1	0	0.0
Go-cart / golf cart	2	0	0.0	0	0	0.0	0	0	0.0	1	0	0.0	1	0	0.0	0	0	0.0
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	1	0	0.0	0	0	0.0	1	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Other	14	8	57.1	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	14	8	57.1
Truck/bus over 10,000 lbs.	46	44	95.7	1	1	100.0	0	0	0.0	2	2	100.0	1	1	100.0	41	40	97.6
Unknown	30	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Total	1,971	1,800	91.3	8	6	0.0	35	29	82.9	102	83	81.4	231	215	93.1	1,513	1,466	96.9

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.

2016 - 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	27	23	85.2	0	0	0.0	2	2	100.0	9	7	77.8	15	14	93.3	1	0	0.0
16 - 20	271	256	94.5	2	2	100.0	5	5	100.0	22	14	63.6	26	23	88.5	215	212	98.6
21 - 24	173	163	94.2	1	0	0.0	0	0	0.0	9	7	77.8	21	21	100.0	142	135	95.1
25 - 64	1,183	1,128	95.4	3	3	100.0	22	16	72.7	53	47	88.7	138	128	92.8	965	934	96.8
65 +	235	228	97.0	2	1	50.0	6	6	100.0	8	7	87.5	31	29	93.5	188	185	98.4
Unknown	82	2	2.4	0	0	0.0	0	0	0.0	1	1	100.0	0	0	0.0	2	0	0.0
Total	1,971	1,800	91.3	8	6	0.0	35	29	82.9	102	83	81.4	231	215	93.1	1,513	1,466	96.9

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	2012			2013			2014			2015			2016		
	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	15	0	5	16	0	2	7	0	0	16	0	1	11	0	2
Shoulder belt only used	1	0	0	5	0	0	5	0	0	0	0	0	11	0	3
Lap belt only used	7	0	0	1	0	0	8	0	2	12	0	5	6	0	0
Both lap & shoulder belts used	1,438	4	187	1,556	6	186	1,777	2	209	1,741	5	184	1,692	4	243
No belts used	16	3	9	29	1	13	27	1	9	18	1	8	21	0	7
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	0	1	0	0	0	0	0	1	0	0
Restraint use unknown	59	0	5	56	1	9	32	0	8	42	3	9	79	1	7
Helmet worn	15	1	11	6	0	2	19	0	11	9	1	5	16	0	9
Helmet not worn	8	0	6	10	0	7	10	1	6	11	1	9	14	0	11
Helmet use unknown	1	0	0	4	1	3	1	0	1	2	0	1	3	1	2
Uncoded & errors	58	0	0	64	0	0	82	0	0	89	0	0	31	0	0
Total	1,618	8	223	1,748	9	222	1,969	4	246	1,940	11	222	1,885	6	284

5-Year Trend - Restraint Use Among Drivers Coded Drinking

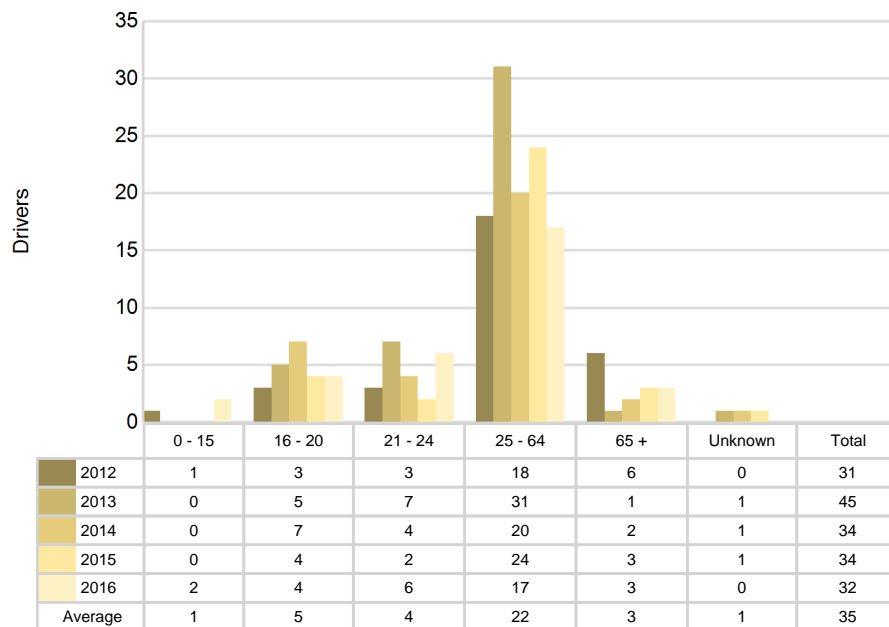
Restraint Use	2012			2013			2014			2015			2016		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	0	0	0	0	0	0	1	0	0	2	0	1	0	0	0
Shoulder belt only used	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Lap belt only used	0	0	0	0	0	0	1	0	0	2	0	1	0	0	0
Both lap & shoulder belts used	41	1	16	41	1	14	42	0	13	50	0	18	47	0	19
No belts used	3	1	2	9	0	6	5	0	3	5	0	5	2	0	1
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	10	0	2	9	0	5	13	0	3	10	0	3	2	0	1
Helmet worn	0	0	0	1	0	1	1	0	1	0	0	0	0	0	0
Helmet not worn	1	0	1	1	0	1	1	0	0	1	0	1	3	0	2
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	0	0	0	1	0	0	0	0	0
Total	56	2	21	61	1	27	64	0	20	71	0	29	55	0	23

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

Age Group	2012			2013			2014			2015			2016		
	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	1	1	0	0	0	0	0	0	0	0	0	0	2	0	1
16 - 20	3	1	1	5	0	3	7	0	4	4	0	1	4	0	3
21 - 24	3	0	2	7	0	5	4	0	0	2	0	0	6	0	1
25 - 64	18	1	8	31	1	7	20	1	5	24	1	8	17	0	4
65 +	6	0	3	1	0	0	2	0	0	3	0	0	3	0	0
Unknown	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0
Total	31	3	14	45	1	15	34	1	9	34	1	9	32	0	9

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

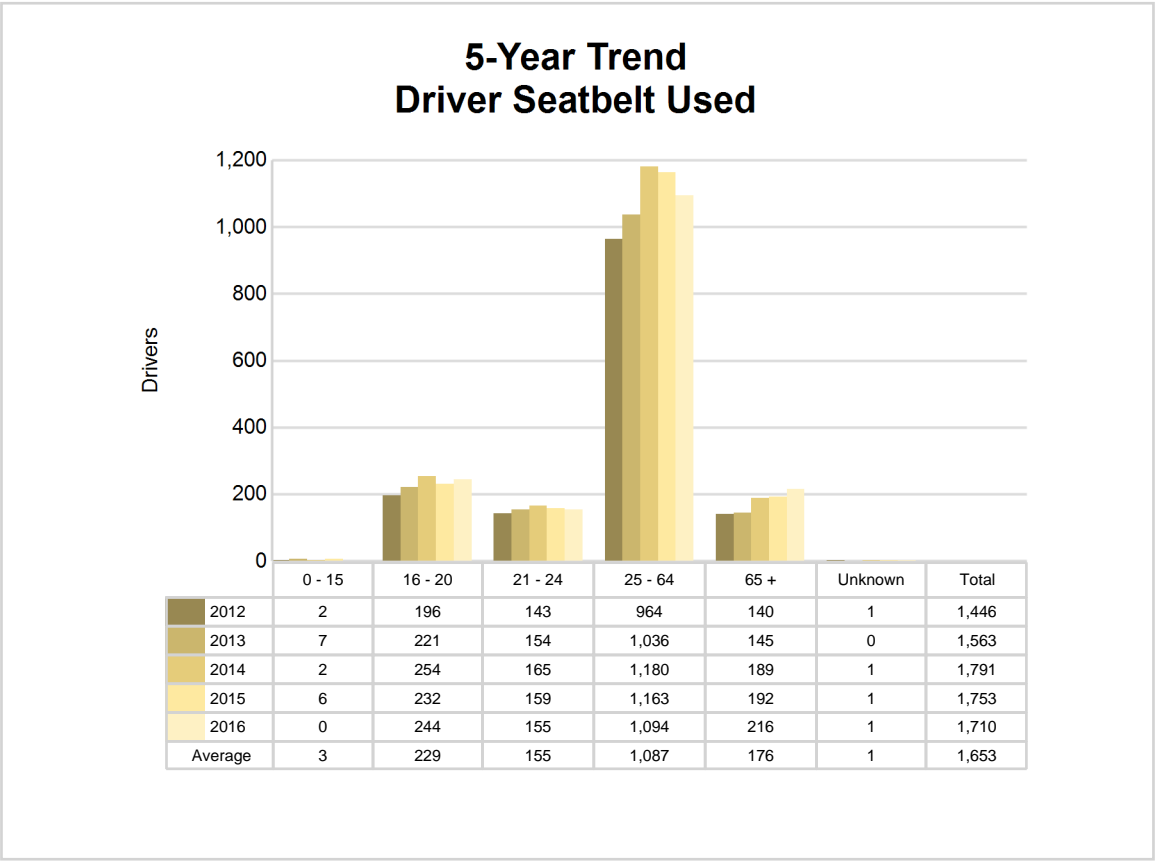
5-Year Trend Driver Seatbelt Not Used



5-Year Trend - Seatbelt Used Among Drivers by Age

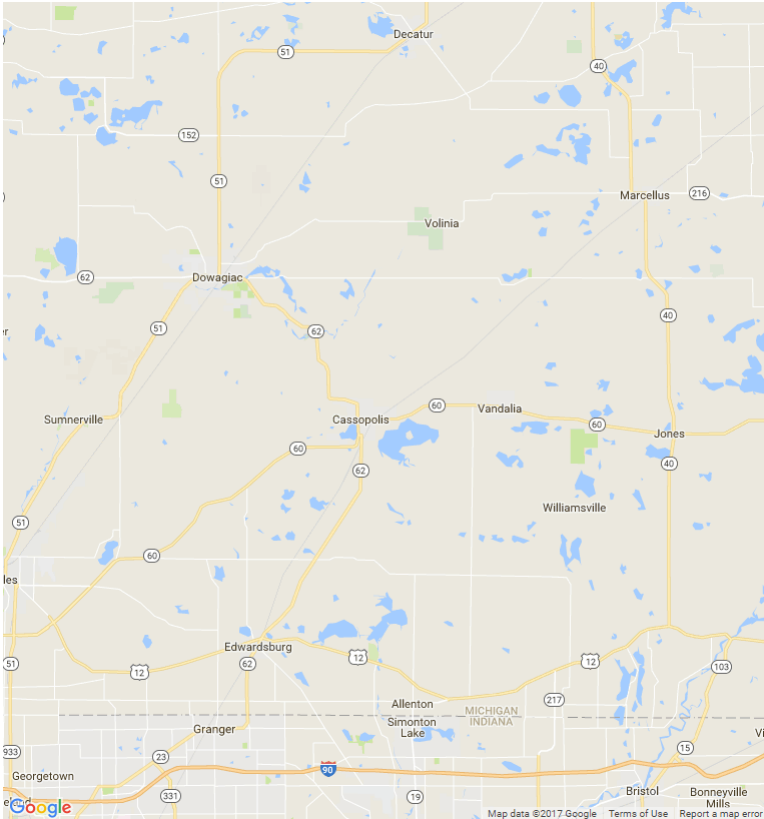
Age Group	2012			2013			2014			2015			2016		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
0 - 15	2	0	1	7	0	2	2	0	0	6	0	1	0	0	0
16 - 20	196	0	24	221	1	26	254	0	33	232	1	30	244	1	32
21 - 24	143	1	24	154	1	19	165	0	23	159	1	16	155	0	21
25 - 64	964	3	112	1,036	2	113	1,180	2	134	1,163	2	120	1,094	3	162
65 +	140	0	26	145	2	26	189	0	21	192	1	22	216	0	31
Unknown	1	0	0	0	0	0	1	0	0	1	0	0	1	0	0
Total	1,446	4	187	1,563	6	186	1,791	2	211	1,753	5	189	1,710	4	246

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	2012		2013		2014		2015		2016	
	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	887	7	916	6	1,009	3	1,050	8	996	6
Speed too fast	251	4	273	2	297	3	227	2	264	1
Speed too slow	5	0	4	0	3	0	2	0	2	0
Failed to yield	98	1	125	1	146	1	150	1	149	4
Disregard traffic control	19	1	30	0	28	1	22	0	34	2
Drove wrong way	1	0	3	0	1	0	1	0	0	0
Drove left of center	17	2	22	3	17	0	24	4	17	0
Improper passing	19	0	18	0	16	0	16	0	13	0
Improper lane use	5	0	6	0	12	1	8	0	11	0
Improper turn	13	0	11	0	16	0	17	0	14	0
Improper/no signal	1	0	6	0	9	0	10	0	11	0
Improper backing	18	0	19	0	26	0	26	0	20	0
Unable to stop in assured clear distance	86	0	113	0	146	0	155	0	120	0
Other	77	1	63	2	98	0	81	0	83	0
Unknown	50	1	48	1	51	1	53	4	65	1
Reckless driving	15	0	17	1	13	0	16	0	10	0
Careless/negligent driving	53	1	71	1	81	2	82	1	76	1
Uncoded & errors	3	0	3	0	0	0	0	0	0	0
Total	1,618	18	1,748	17	1,969	12	1,940	20	1,885	15



In 2016, there were no alcohol-involved fatal crashes in Cass County.

In 2016, there were 56 alcohol-involved crashes in Cass County:

- 0 K - Fatal Crashes
- 9 A - Suspected Serious Injury Crashes
- 4 B - Suspected Minor Injury Crashes
- 16 C - Possible Injury Crashes
- 27 O - Property Damage Only/No Injury Crashes

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