



2019

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

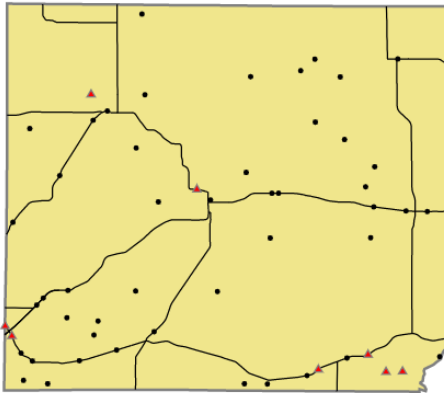
2019 Traffic Crash Data & 2015-2019 5-Year Trends



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 (8/8)
- A - Suspected Serious (47/47)

Cass County

In 2019:

There were 2,091 drivers involved in 1,556 motor vehicle crashes in Cass County. Of those crashes, 8 were classified as fatal, resulting in 8 fatalities. An additional 373 persons were injured.

Cass County experienced the highest number of motor vehicle crashes (208) in November, the highest number of fatal crashes (2) and the highest number of persons killed (2) in January, February, and July.

Michigan driver statistics indicate 6.0 percent of licensed drivers in Cass County were age 16-20, and 11.5 percent of drivers in crashes were also in that age group.

2019 - Crashes and Injuries by Month

Month	Crashes				Persons	
	Total	Fatal	Injury	Property Damage Only (PDO)	Fatalities	Injuries
January	201	2	21	178	2	32
February	135	2	20	113	2	30
March	95	0	14	81	0	16
April	91	0	14	77	0	24
May	81	0	13	68	0	19
June	91	0	30	61	0	44
July	139	2	33	104	2	47
August	94	0	20	74	0	25
September	119	1	25	93	1	35
October	156	0	27	129	0	44
November	208	1	26	181	1	37
December	146	0	12	134	0	20
Total	1,556	8	255	1,293	8	373

2019 - Driver Statistics

Age Group	Cass County			Driver Rates	
	2019 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	9,374	246	3	3.2	122.0
16 - 20	3,023	2,318	240	793.9	1,035.4
21 - 24	2,261	2,010	188	831.5	935.3
25 - 64	25,980	24,072	1,340	515.8	556.7
65 +	11,149	10,027	239	214.4	238.4
Unknown	0	0	81	- -	- -
Total	51,787	38,673	2,091	403.8	540.7

2019 - 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	1,572	75.2	8	61.5	288	1,276
Motor home	1	0.0	0	0.0	0	1
Pickup truck	381	18.2	4	30.8	71	306
Small truck under 10,000 lbs. GVWR	12	0.6	0	0.0	1	11
Motorcycle	16	0.8	1	7.7	14	1
Moped / goped	1	0.0	0	0.0	1	0
Go-cart / golf cart	1	0.0	0	0.0	0	1
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	7	0.3	0	0.0	1	6
Truck/bus over 10,000 lbs.	68	3.3	0	0.0	17	51
Unknown	30	1.4	0	0.0	2	28
Total	2,091	100.0	13	100.0	396	1,682

5-Year Trend - Crashes by Month

Month	2015		2016		2017		2018		2019	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
January	168	2	176	0	137	2	141	1	201	2
February	171	1	149	0	74	2	123	0	135	2
March	82	1	98	2	100	0	115	0	95	0
April	75	1	89	3	90	0	105	2	91	0
May	89	3	101	1	110	0	93	0	81	0
June	99	0	102	0	120	1	103	1	91	0
July	96	2	98	0	91	1	112	1	139	2
August	94	1	86	1	106	1	96	0	94	0
September	85	2	83	0	96	1	120	2	119	1
October	135	0	105	0	135	0	148	1	156	0
November	173	0	148	0	145	3	227	0	208	1
December	135	1	172	2	227	2	134	0	146	0
Total	1,402	14	1,407	9	1,431	13	1,517	8	1,556	8

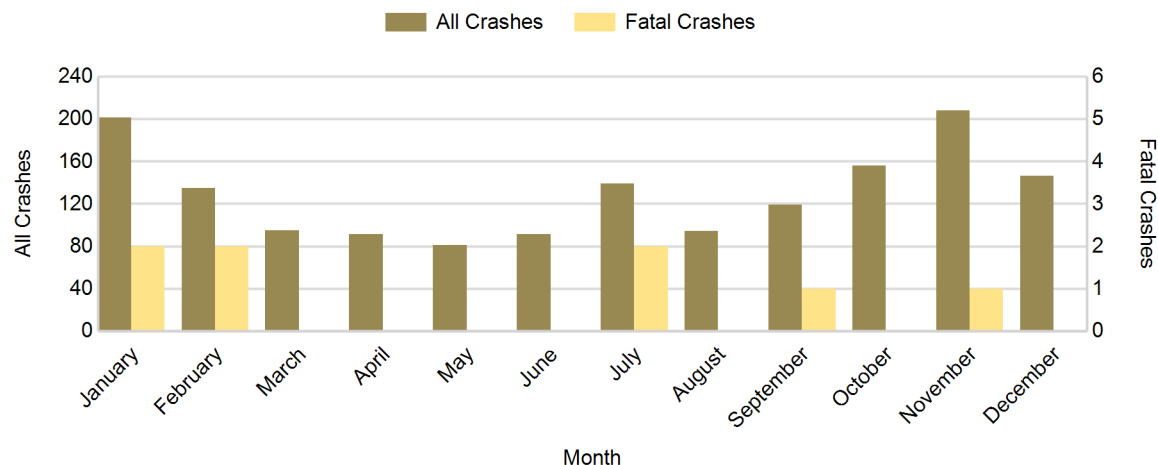
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

5-Year Trend - Crashes by Day of Week

Day	2015		2016		2017		2018		2019	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Monday	191	2	195	1	196	1	248	3	235	2
Tuesday	191	0	210	2	218	1	195	0	265	1
Wednesday	201	1	190	0	199	3	228	0	244	0
Thursday	204	2	229	3	216	0	234	2	234	0
Friday	224	4	201	1	242	3	252	2	232	2
Saturday	230	3	205	1	187	2	200	0	168	2
Sunday	161	2	177	1	173	3	160	1	178	1
Total	1,402	14	1,407	9	1,431	13	1,517	8	1,556	8

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

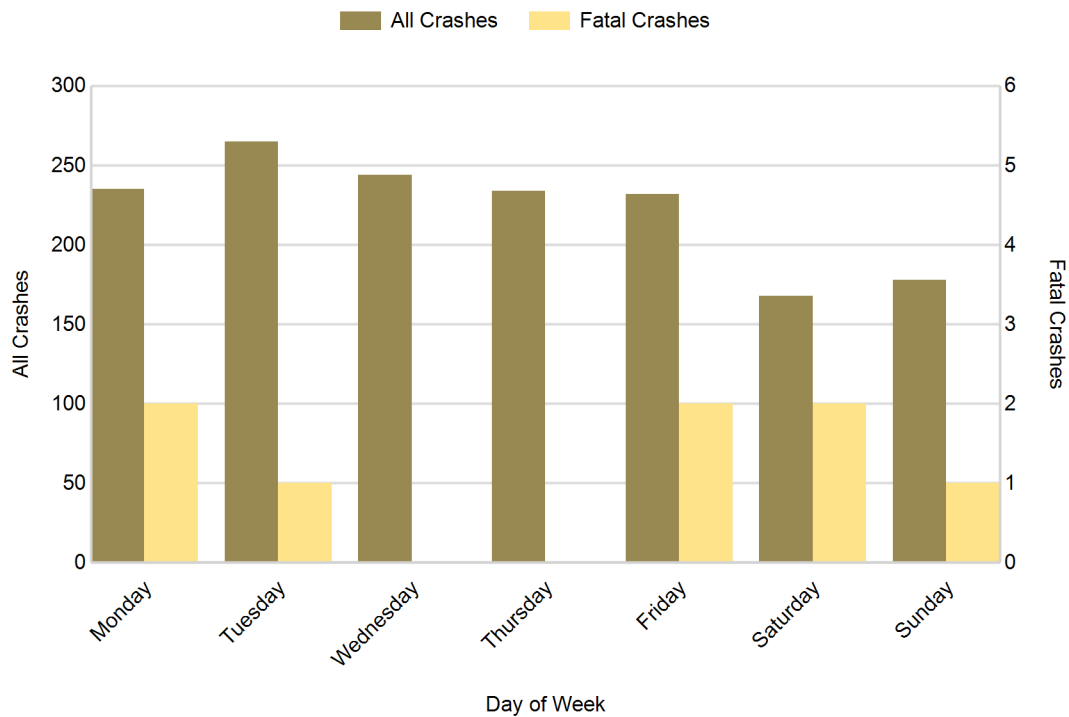
2019 Crashes by Month



2019 - 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	235	15.1	2	25.0	2	8	25	198
Tuesday	265	17.0	1	12.5	6	5	19	234
Wednesday	244	15.7	0	0.0	9	9	17	209
Thursday	234	15.0	0	0.0	5	14	22	193
Friday	232	14.9	2	25.0	8	16	23	183
Saturday	168	10.8	2	25.0	8	10	17	131
Sunday	178	11.4	1	12.5	9	8	15	145
Total	1,556	100.0	8	100.0	47	70	138	1,293

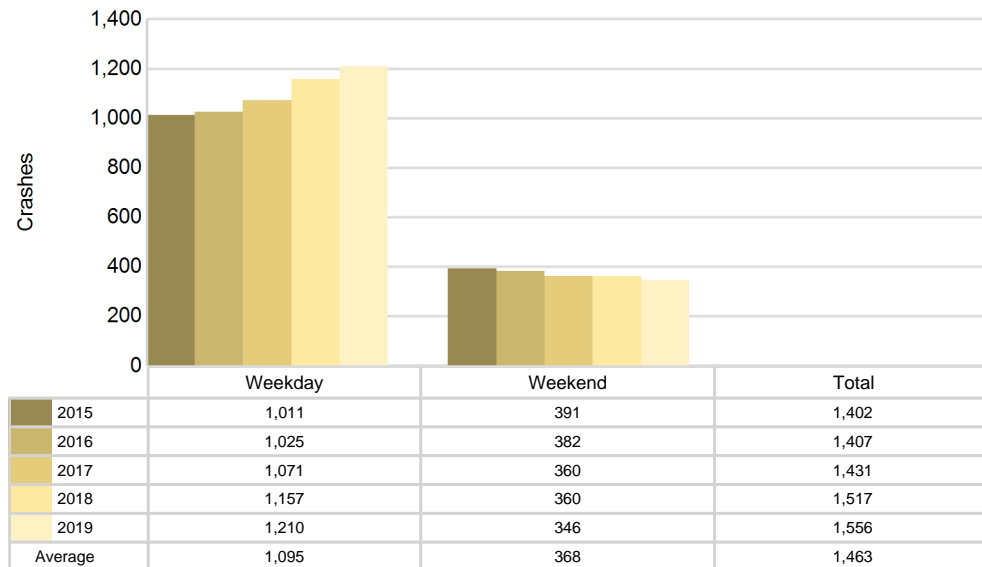
2019 Day of Week and Severity



5-Year Trend - Crashes by Weekday and Weekend

Portion of Week	2015		2016		2017		2018		2019	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Weekday	1,011	9	1,025	7	1,071	8	1,157	7	1,210	5
Weekend	391	5	382	2	360	5	360	1	346	3
Total	1,402	14	1,407	9	1,431	13	1,517	8	1,556	8

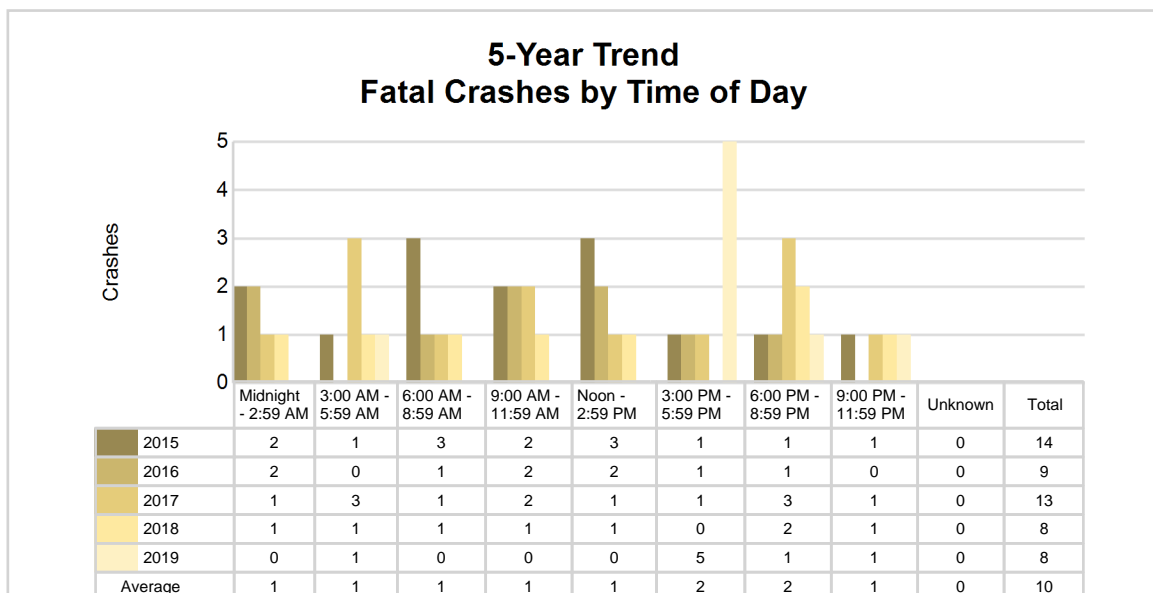
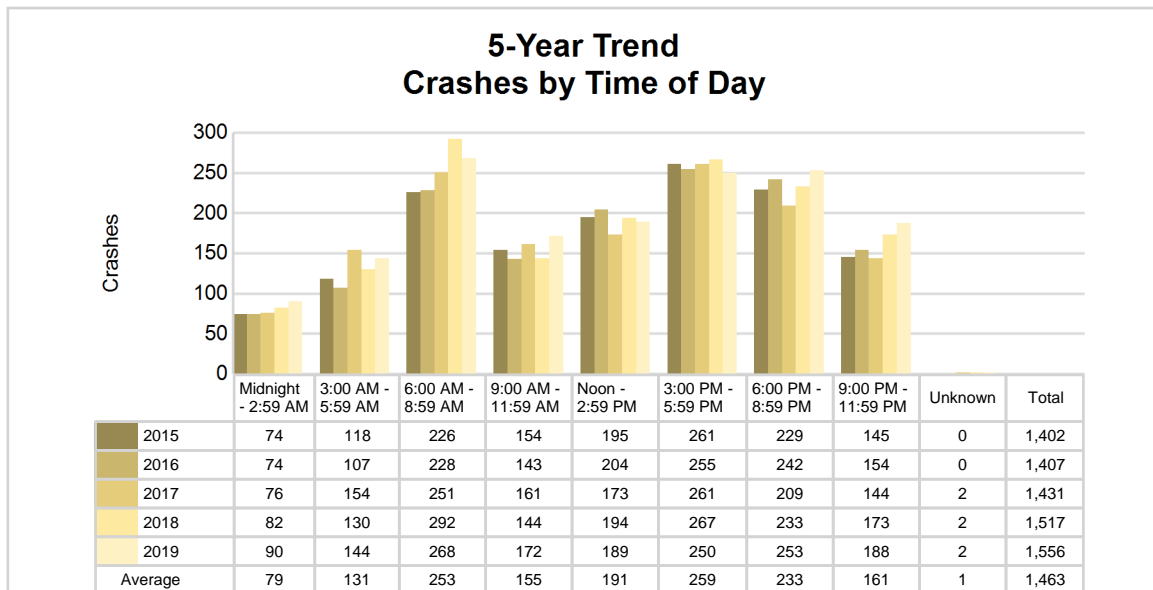
5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



5-Year Trend - Crashes by Time of Day

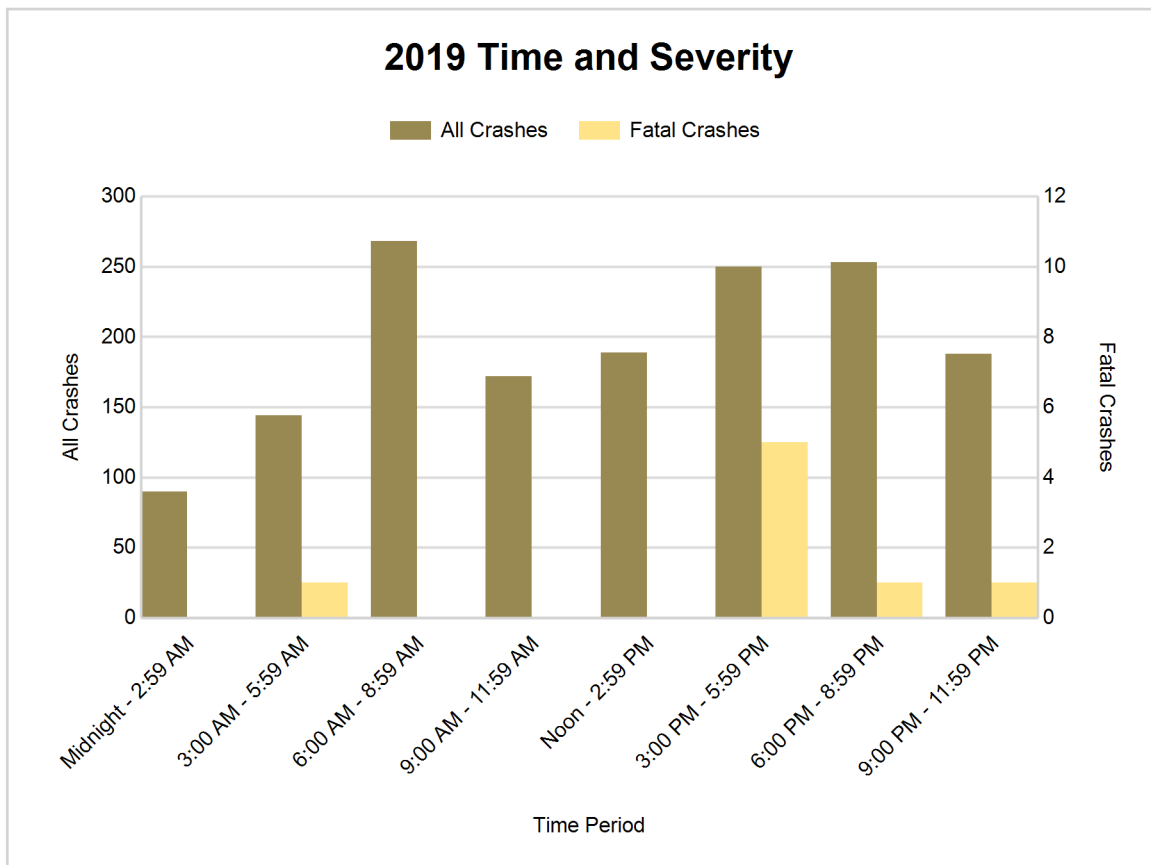
Time of Day	2015		2016		2017		2018		2019	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	74	2	74	2	76	1	82	1	90	0
3:00 AM - 5:59 AM	118	1	107	0	154	3	130	1	144	1
6:00 AM - 8:59 AM	226	3	228	1	251	1	292	1	268	0
9:00 AM - 11:59 AM	154	2	143	2	161	2	144	1	172	0
Noon - 2:59 PM	195	3	204	2	173	1	194	1	189	0
3:00 PM - 5:59 PM	261	1	255	1	261	1	267	0	250	5
6:00 PM - 8:59 PM	229	1	242	1	209	3	233	2	253	1
9:00 PM - 11:59 PM	145	1	154	0	144	1	173	1	188	1
Unknown	0	0	0	0	2	0	2	0	2	0
Total	1,402	14	1,407	9	1,431	13	1,517	8	1,556	8

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



2019 - Time and Severity

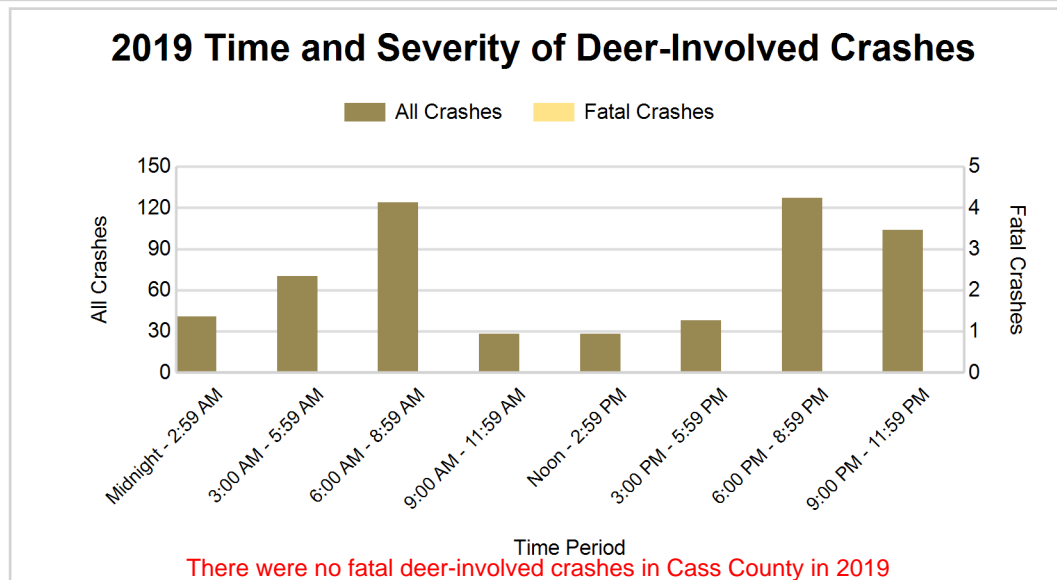
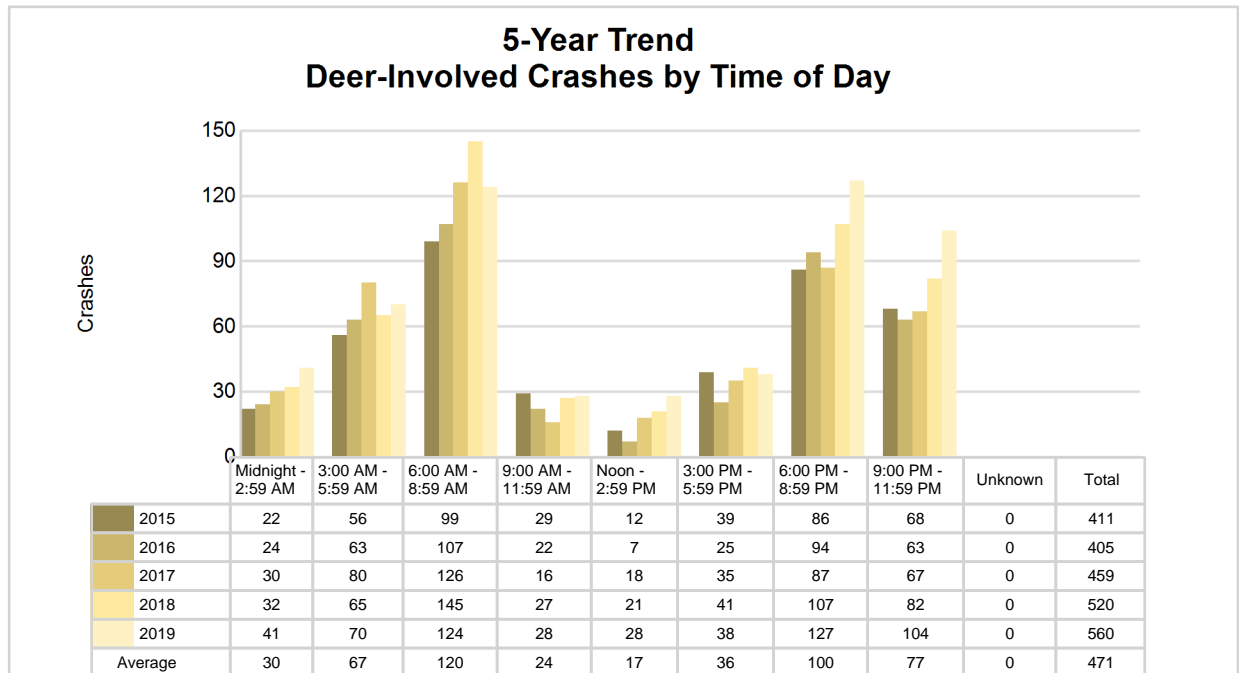
Time of Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Midnight - 2:59 AM	90	5.8	0	0.0	5	6	6	73
3:00 AM - 5:59 AM	144	9.3	1	12.5	6	6	10	121
6:00 AM - 8:59 AM	268	17.2	0	0.0	3	11	16	238
9:00 AM - 11:59 AM	172	11.1	0	0.0	9	6	18	139
Noon - 2:59 PM	189	12.1	0	0.0	3	12	23	151
3:00 PM - 5:59 PM	250	16.1	5	62.5	9	12	29	195
6:00 PM - 8:59 PM	253	16.3	1	12.5	8	9	21	214
9:00 PM - 11:59 PM	188	12.1	1	12.5	4	8	15	160
Unknown	2	0.1	0	0.0	0	0	0	2
Total	1,556	100.0	8	100.0	47	70	138	1,293



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

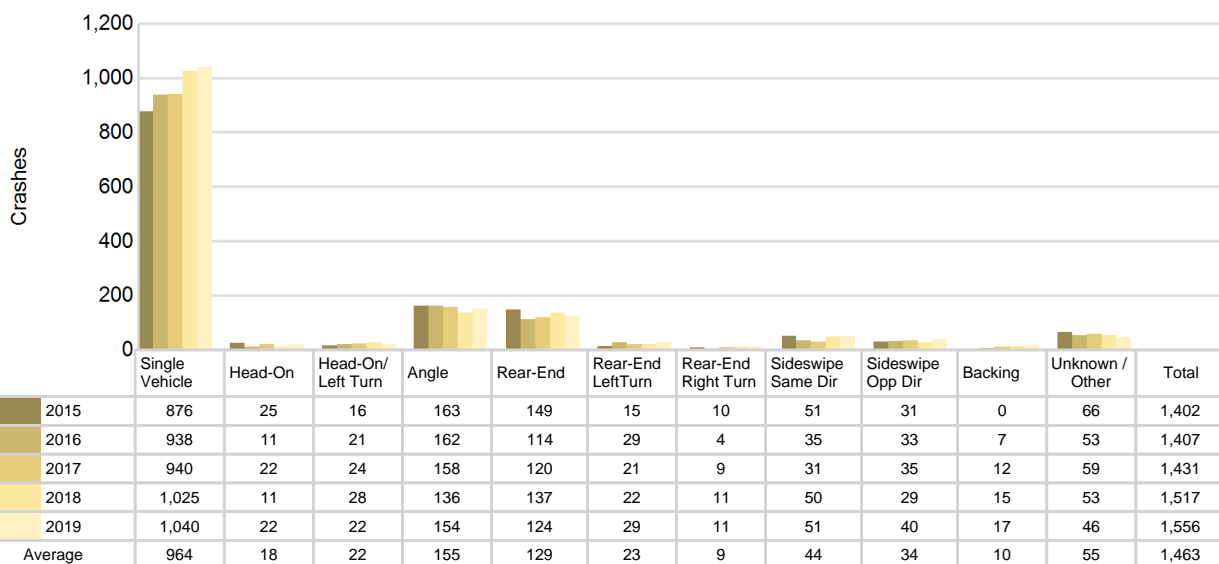
Time of Day	2015		2016		2017		2018		2019	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	22	0	24	0	30	0	32	0	41	0
3:00 AM - 5:59 AM	56	0	63	0	80	0	65	0	70	0
6:00 AM - 8:59 AM	99	0	107	0	126	0	145	0	124	0
9:00 AM - 11:59 AM	29	0	22	0	16	0	27	0	28	0
Noon - 2:59 PM	12	0	7	0	18	0	21	0	28	0
3:00 PM - 5:59 PM	39	0	25	0	35	0	41	0	38	0
6:00 PM - 8:59 PM	86	0	94	0	87	0	107	0	127	0
9:00 PM - 11:59 PM	68	0	63	0	67	0	82	0	104	0
Unknown	0	0	0	0	0	0	0	0	0	0
Total	411	0	405	0	459	0	520	0	560	0

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



5-Year Trend - Crashes by Crash Type

Crash Type	2015		2016		2017		2018		2019	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Single motor vehicle	876	7	938	4	940	8	1,025	5	1,040	4
Head-on	25	4	11	1	22	2	11	2	22	1
Head-on / left turn	16	1	21	1	24	0	28	0	22	0
Angle	163	0	162	3	158	1	136	1	154	2
Rear-end	149	0	114	0	120	1	137	0	124	0
Rear-end left turn	15	0	29	0	21	0	22	0	29	0
Rear-end right turn	10	0	4	0	9	0	11	0	11	0
Sideswipe same direction	51	0	35	0	31	0	50	0	51	0
Sideswipe opposite direction	31	1	33	0	35	0	29	0	40	0
Backing	0	0	7	0	12	0	15	0	17	0
Other / Unknown	66	1	53	0	59	1	53	0	46	1
Uncoded and Errors	0	0	0	0	0	0	0	0	0	0
Total	1,402	14	1,407	9	1,431	13	1,517	8	1,556	8

5-Year Trend
Crashes by Crash Type

Cass County (continued)

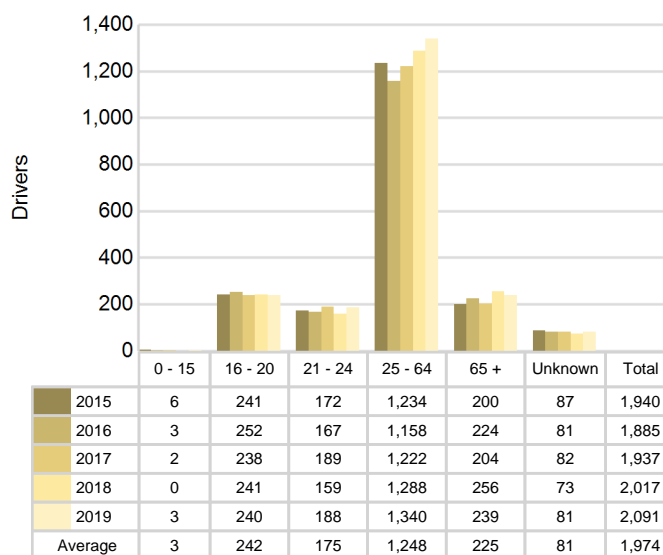
2019 - Reported Motor Vehicle Crashes by Municipality

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.	53	0	4	49	0	0	0	53	1	0	32	0	4
Cassopolis	42	1	5	36	0	0	31	11	1	1	6	1	9
Dowagiac	103	0	20	83	0	0	61	42	8	1	2	0	33
Edwardsburg	32	0	6	26	0	18	12	2	3	2	1	0	10
Howard Twp.	105	0	20	85	0	0	48	56	6	2	26	0	28
Jefferson Twp.	135	0	13	122	0	0	60	74	2	0	73	0	21
LaGrange Twp.	104	0	11	93	0	0	38	66	2	1	62	0	15
Marcellus	10	0	2	8	0	0	9	1	0	0	2	0	2
Marcellus Twp.	47	0	6	41	0	0	19	28	4	0	23	0	10
Mason Twp.	90	1	16	73	0	37	0	53	8	2	28	1	26
Milton Twp.	148	2	33	113	0	51	8	89	7	3	31	2	55
Newberg Twp.	69	0	14	55	0	0	42	27	2	1	37	0	16
Niles	0	0	0	0	0	0	0	0	0	0	0	0	0
Ontwa Twp.	113	0	28	85	0	28	23	62	5	0	27	0	37
Penn Twp.	52	0	8	44	0	0	20	32	1	0	24	0	15
Pokagon Twp.	137	0	22	115	0	0	57	79	4	2	54	0	31
Porter Twp.	100	3	19	78	0	37	18	45	5	4	25	3	26
Silver Creek Twp.	75	1	8	66	0	0	30	45	3	1	35	1	9
Vandalia	3	0	0	3	0	0	3	0	0	0	2	0	0
Volinia Twp.	59	0	9	50	0	0	0	59	2	1	33	0	11
Wayne Twp.	79	0	11	68	0	0	17	62	0	0	37	0	15
Unknown Community	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1,556	8	255	1,293	0	171	496	886	64	21	560	8	373

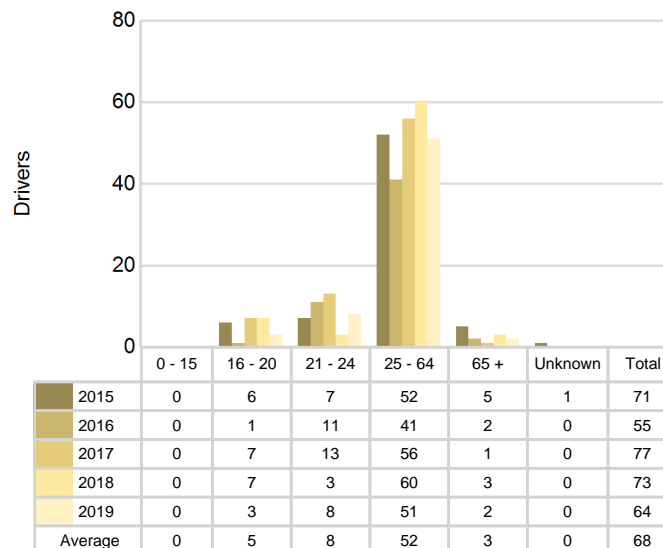
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

Driver Age	2015		2016		2017		2018		2019	
	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	6	0	3	0	2	0	0	0	3	0
16 - 20	241	6	252	1	238	7	241	7	240	3
21 - 24	172	7	167	11	189	13	159	3	188	8
25 - 64	1,234	52	1,158	41	1,222	56	1,288	60	1,340	51
65 +	200	5	224	2	204	1	256	3	239	2
Unknown	87	1	81	0	82	0	73	0	81	0
Total	1,940	71	1,885	55	1,937	77	2,017	73	2,091	64

5-Year Trend Total Drivers in Crashes by Age



5-Year Trend Total Drivers Coded Drinking by Age



2019 - 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	4	5	2	3	0	1	1	0	1
21 - 24	9	7	6	8	0	2	1	1	4
25 - 64	61	59	42	51	0	3	10	16	22
65 +	5	3	2	2	0	0	1	0	1
Unknown	1	0	0	0	0	0	0	0	0
Total	80	74	52	64	0	6	13	17	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 2019, there were 80 drivers in alcohol-involved crashes; 64 (80.0%) of those drivers were coded as had-been-drinking by the officer on the crash form.

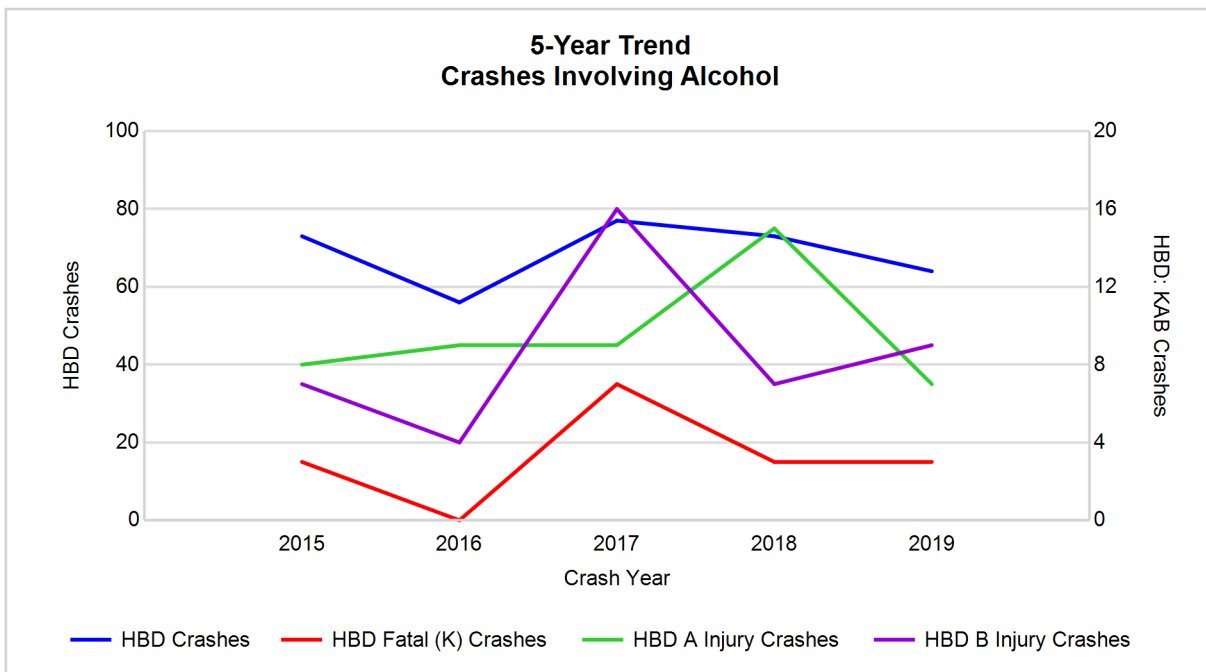
- 30 (46.9%) of the 64 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 17 (56.7%) of the 30 drivers had a BAC at or above 0.17 g/dL.
- 52 (81.3%) of the 64 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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
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
2018	1,517	73	4.8	8	3	37.5	52	15	28.8	68	7	10.3
2019	1,556**	64	4.1	8	3	37.5	47	7*	14.9*	70	9	12.9

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



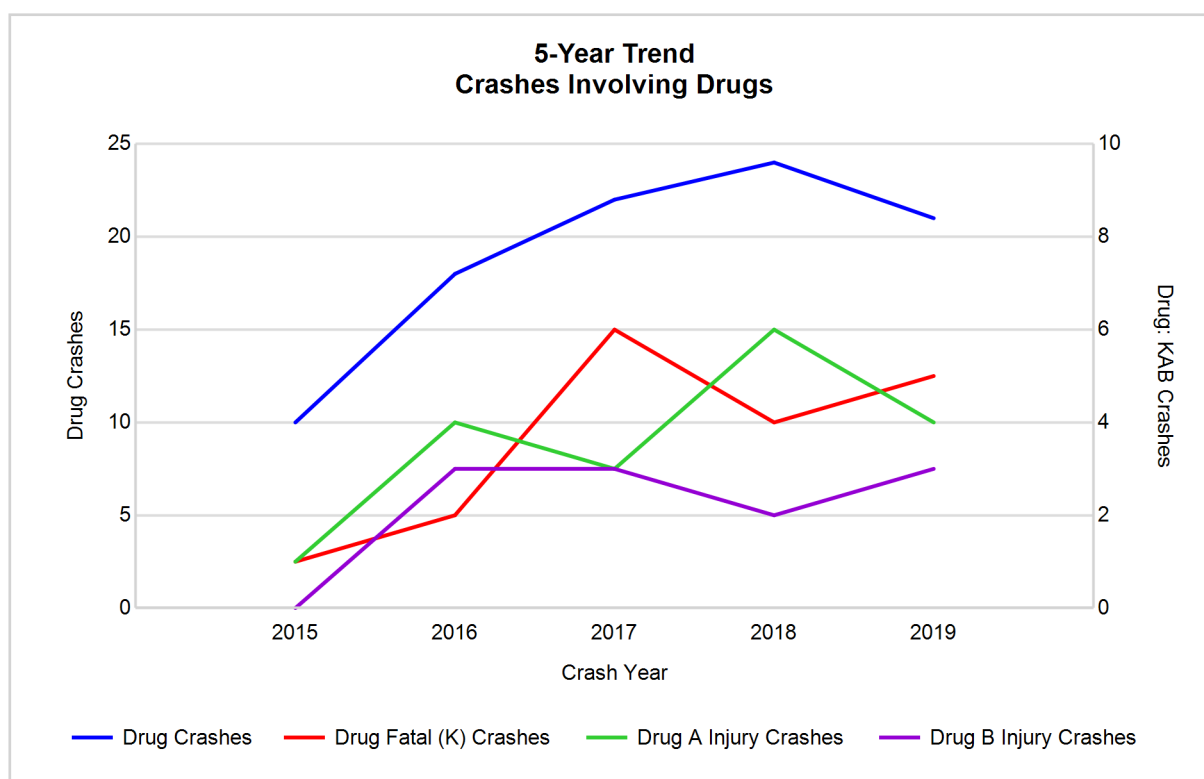
Note: Had-Been-Drinking (HBD)

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
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
2018	1,517	24	1.6	8	4	50.0	52	6	11.5	68	2	2.9
2019	1,556**	21	1.3	8	5	62.5**	47	4	8.5	70	3	4.3**

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

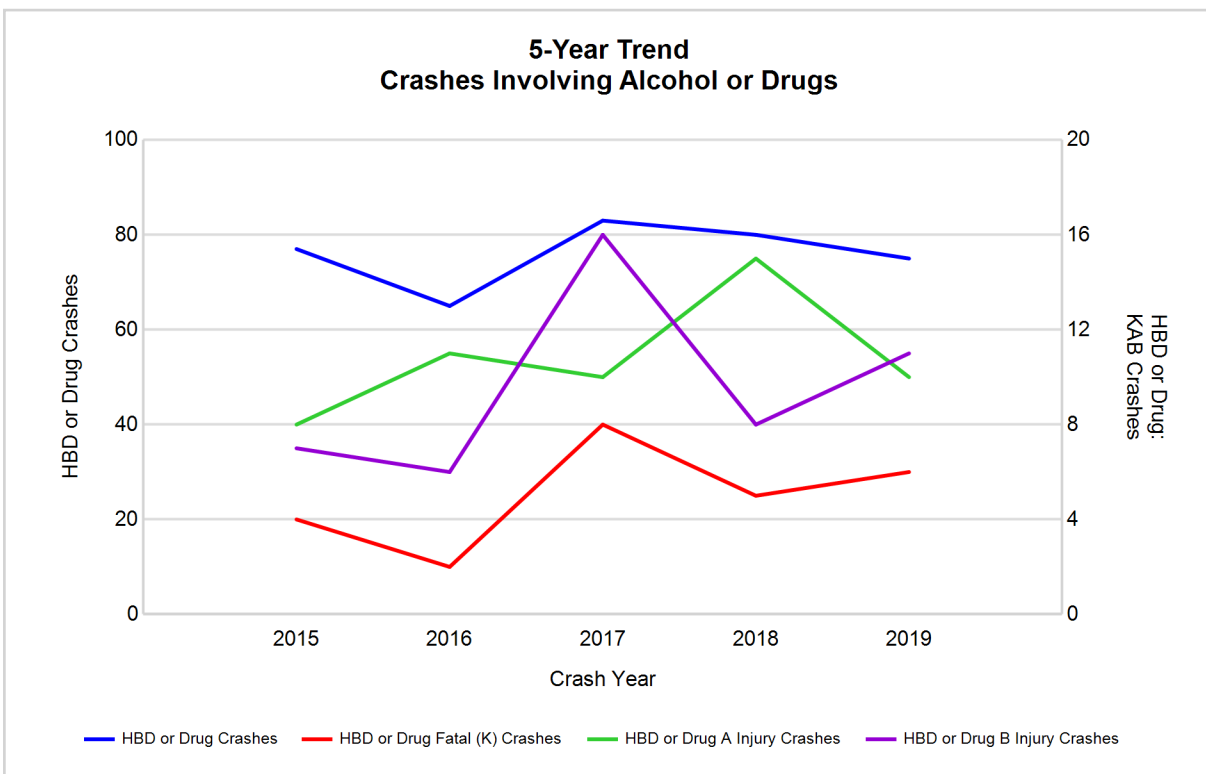


5-Year Trend - Crashes Involving Alcohol or Drugs

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
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
2018	1,517	80	5.3	8	5	62.5	52	15	28.8	68	8	11.8
2019	1,556**	75	4.8	8	6	75.0**	47	10	21.3	70	11	15.7

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



Note: Had-Been-Drinking (HBD)

2019 - 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	1,651	1,540	93.3	4	3	75.0	45	36	80.0	60	54	90.0	183	170	92.9	1,320	1,277	96.7
Motor home	1	1	100.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	1	1	100.0
Pickup truck	392	358	91.3	2	1	50.0	8	6	75.0	16	14	87.5	32	30	93.8	316	307	97.2
Small truck under 10,000 lbs. GVWR	13	13	100.0	0	0	0.0	0	0	0.0	0	0	0.0	1	1	100.0	12	12	100.0
Motorcycle	18	6	33.3	1	1	100.0	5	0	0.0	5	2	40.0	5	2	40.0	2	1	50.0
Moped / goped	1	0	0.0	0	0	0.0	1	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Go-cart / golf cart	1	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	1	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	7	6	85.7	0	0	0.0	0	0	0.0	1	0	0.0	0	0	0.0	6	6	100.0
Truck/bus over 10,000 lbs.	68	65	95.6	0	0	0.0	2	1	50.0	1	1	100.0	1	1	100.0	64	62	96.9
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	2,184	1,991	91.2	7	5	0.0	62	44	71.0	83	71	85.5	222	204	91.9	1,723	1,667	96.7

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.

2019 - 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	25	20	80.0	0	0	0.0	3	1	33.3	5	4	80.0	15	13	86.7	2	2	100.0
16 - 20	253	248	98.0	0	0	0.0	4	1	25.0	10	10	100.0	30	29	96.7	209	208	99.5
21 - 24	197	185	93.9	2	1	50.0	2	2	100.0	10	9	90.0	20	19	95.0	163	154	94.5
25 - 64	1,381	1,302	94.3	4	3	75.0	42	30	71.4	52	43	82.7	127	114	89.8	1,150	1,112	96.7
65 +	247	236	95.5	1	1	100.0	11	10	90.9	6	5	83.3	30	29	96.7	199	191	96.0
Unknown	81	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Total	2,184	1,991	91.2	7	5	0.0	62	44	71.0	83	71	85.5	222	204	91.9	1,723	1,667	96.7

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	2015			2016			2017			2018			2019		
	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	1	11	0	2	8	0	2	4	0	2	3	0	1
Shoulder belt only used	0	0	0	11	0	3	14	0	2	18	0	2	13	0	0
Lap belt only used	12	0	5	6	0	0	4	0	0	2	0	1	5	0	0
Both lap & shoulder belts used	1,741	5	184	1,692	4	243	1,729	4	224	1,812	1	226	1,889	2	240
No belts used	18	1	8	21	0	7	15	3	6	17	1	10	17	2	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	0	0	0	1	0	0	1	0	1	0	0	0	1	1	0
Restraint use unknown	42	3	9	79	1	7	140	2	21	131	1	13	143	0	13
Helmet worn	9	1	5	16	0	9	12	1	9	16	2	12	8	1	5
Helmet not worn	11	1	9	14	0	11	11	0	10	12	0	10	11	0	10
Helmet use unknown	2	0	1	3	1	2	2	0	1	3	0	2	0	0	0
Uncoded & errors	89	0	0	31	0	0	1	0	0	2	0	0	1	0	0
Total	1,940	11	222	1,885	6	284	1,937	10	276	2,017	5	278	2,091	6	275

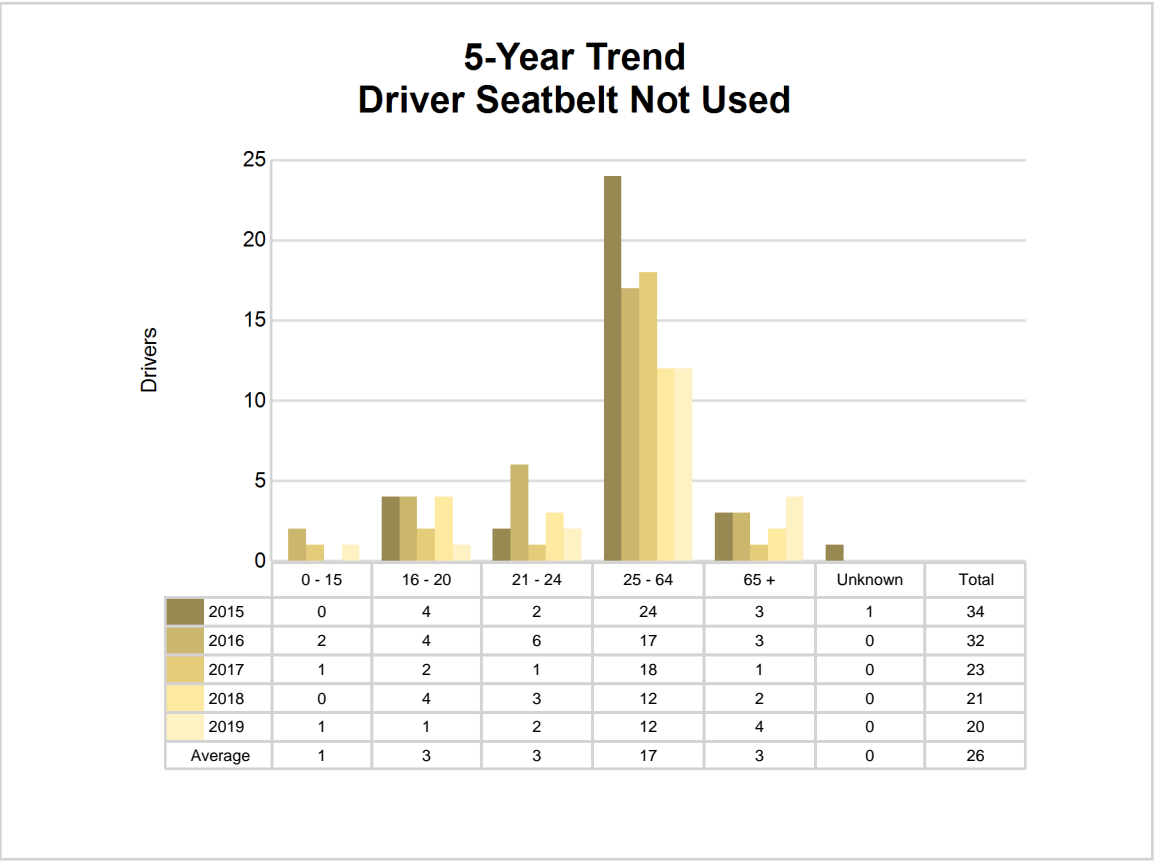
5-Year Trend - Restraint Use Among Drivers Coded Drinking

Restraint Use	2015			2016			2017			2018			2019		
	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	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Shoulder belt only used	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0
Lap belt only used	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Both lap & shoulder belts used	50	0	18	47	0	19	54	2	24	49	1	21	46	0	20
No belts used	5	0	5	2	0	1	7	2	4	5	1	3	3	2	0
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	3	2	0	1	13	0	8	16	0	8	12	0	3
Helmet worn	0	0	0	0	0	0	1	1	0	1	0	1	0	0	0
Helmet not worn	1	0	1	3	0	2	1	0	0	2	0	2	3	0	3
Helmet use unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uncoded & errors	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	71	0	29	55	0	23	77	5	37	73	2	35	64	2	26

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

Age Group	2015			2016			2017			2018			2019		
	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	2	0	1	1	0	1	0	0	0	1	0	1
16 - 20	4	0	1	4	0	3	2	0	1	4	0	3	1	0	1
21 - 24	2	0	0	6	0	1	1	1	0	3	0	2	2	1	0
25 - 64	24	1	8	17	0	4	18	2	5	12	1	6	12	1	4
65 +	3	0	0	3	0	0	1	0	1	2	0	1	4	0	1
Unknown	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	34	1	9	32	0	9	23	3	8	21	1	12	20	2	7

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

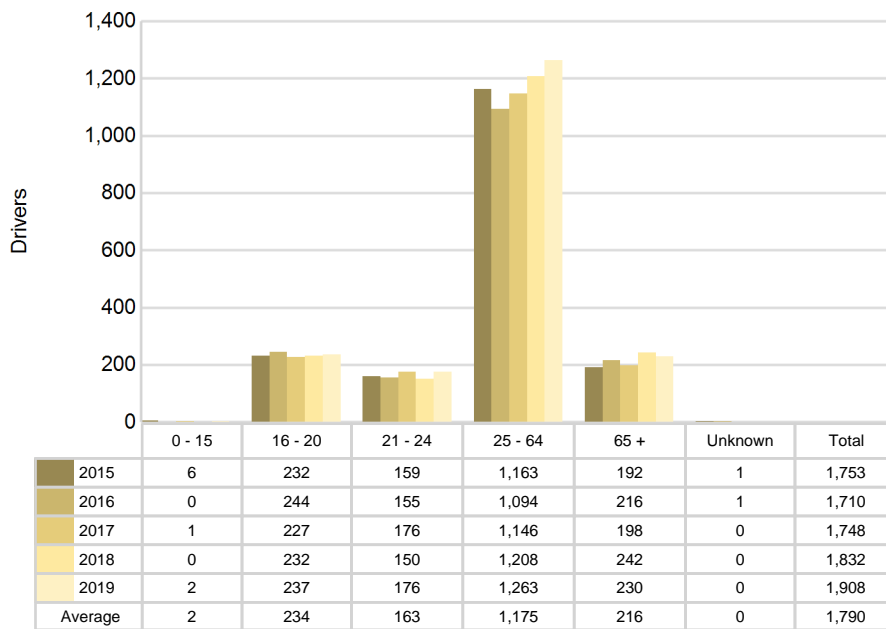


5-Year Trend - Seatbelt Used Among Drivers by Age

Age Group	2015			2016			2017			2018			2019		
	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	6	0	1	0	0	0	1	0	1	0	0	0	2	0	0
16 - 20	232	1	30	244	1	32	227	0	30	232	0	32	237	0	29
21 - 24	159	1	16	155	0	21	176	1	29	150	0	14	176	1	21
25 - 64	1,163	2	120	1,094	3	162	1,146	3	143	1,208	1	145	1,263	1	152
65 +	192	1	22	216	0	31	198	0	24	242	0	38	230	1	38
Unknown	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Total	1,753	5	189	1,710	4	246	1,748	4	227	1,832	1	229	1,908	3	240

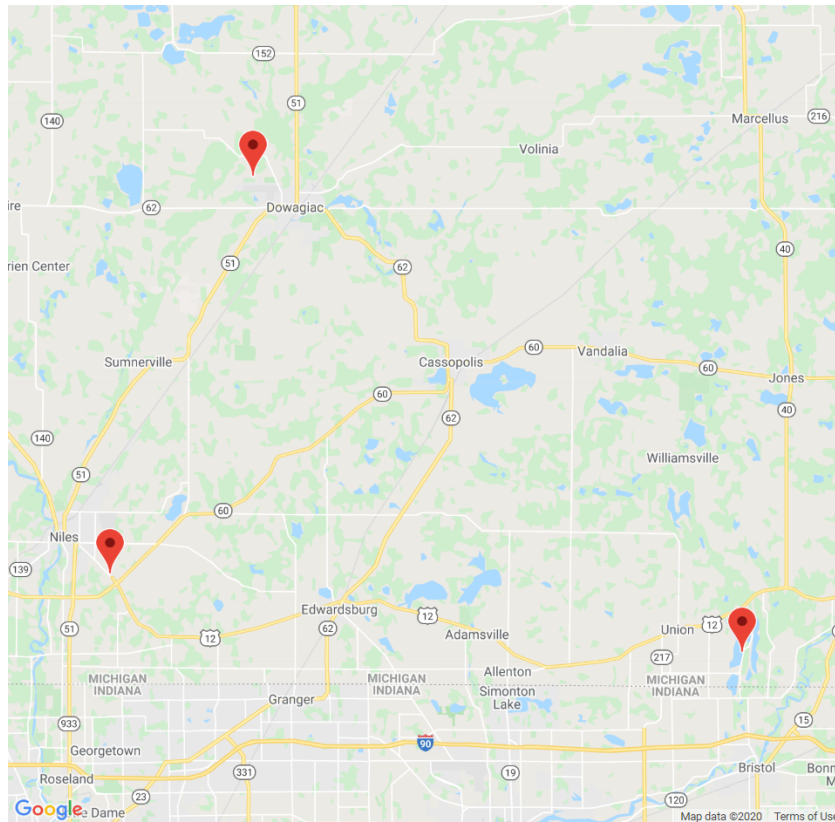
Note: Seatbelt Used includes shoulder belt only used, lap belt only used, both lap and shoulder belts used, and restraint failure.

5-Year Trend Driver Seatbelt Used



5-Year Trend - Drivers in Crashes by Hazardous Action

Hazardous Action	2015		2016		2017		2018		2019	
	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	1,050	8	996	6	1,068	7	1,119	3	1,208	6
Speed too fast	227	2	264	1	203	5	219	2	230	3
Speed too slow	2	0	2	0	3	0	4	0	2	0
Failed to yield	150	1	149	4	168	0	159	0	152	0
Disregard traffic control	22	0	34	2	24	1	21	0	33	1
Drove wrong way	1	0	0	0	2	0	1	0	0	0
Drove left of center	24	4	17	0	19	2	14	1	28	1
Improper passing	16	0	13	0	11	0	21	0	10	0
Improper lane use	8	0	11	0	7	0	13	0	12	0
Improper turn	17	0	14	0	13	0	18	0	15	0
Improper/no signal	10	0	11	0	1	0	0	0	3	0
Improper backing	26	0	20	0	20	0	13	0	17	0
Unable to stop in assured clear distance	155	0	120	0	124	0	140	0	146	0
Other	81	0	83	0	71	1	85	0	62	0
Unknown	53	4	65	1	91	1	105	3	90	1
Reckless driving	16	0	10	0	23	1	19	0	18	0
Careless/negligent driving	82	1	76	1	89	0	65	2	64	1
Uncoded & errors	0	0	0	0	0	0	1	0	1	0
Total	1,940	20	1,885	15	1,937	18	2,017	11	2,091	13



The picture above represents all 2019 alcohol-involved fatal crashes in Cass County.

In 2019, there were 64 alcohol-involved crashes in Cass County:

- 3 K - Fatal Crashes
- 7 A - Suspected Serious Injury Crashes
- 9 B - Suspected Minor Injury Crashes
- 15 C - Possible Injury Crashes
- 30 O - Property Damage Only/No Injury Crashes

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