MICHIGAN

OHSP

Office of Highway Safety Planning

2018

MTCF
Michigan Traffic
Crash Facts

Michigan Traffic Crash Facts

Gratiot County

2018 Traffic Crash Data
& 2014-2018 5-Year Trends

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
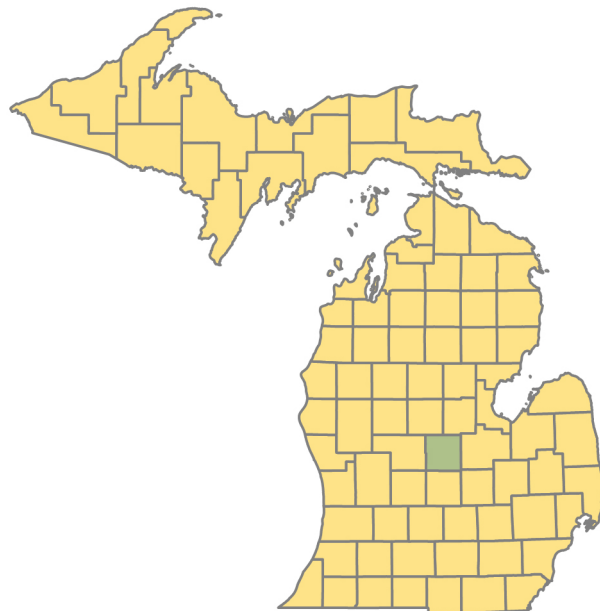B = Suspected Minor Injury
C = Possible Injury
O = No Injury
    Property Damage Only (PDO)

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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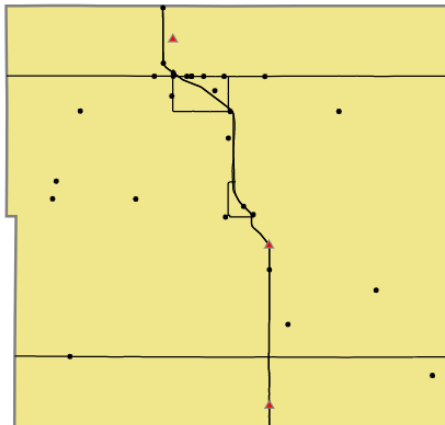
Gratiot County

Crashes by most severe injury (mapped/actual)

▲ K - Fatal (3/3)

● A - Suspected Serious (29/29)

Gratiot County

In 2018:

There were 2,099 drivers involved in 1,684 motor vehicle crashes in Gratiot County. Of those crashes, 3 were classified as fatal, resulting in 3 fatalities. An additional 244 persons were injured.

Gratiot County experienced the highest number of motor vehicle crashes (231) in November, the highest number of fatal crashes (1) and the highest number of persons killed (1) in March, August, and October.

Michigan driver statistics indicate 7.0 percent of licensed drivers in Gratiot County were age 16-20, and 11.3 percent of drivers in crashes were also in that age group.

2018 - Crashes and Injuries by Month

Month	Crashes				Persons	
	Total	Fatal	Injury	Property Damage Only (PDO)	Fatalities	Injuries
January	193	0	20	173	0	30
February	128	0	7	121	0	8
March	128	1	10	117	1	18
April	118	0	13	105	0	16
May	96	0	16	80	0	22
June	132	0	8	124	0	9
July	111	0	21	90	0	27
August	98	1	14	83	1	26
September	130	0	14	116	0	29
October	190	1	16	173	1	23
November	231	0	14	217	0	22
December	129	0	10	119	0	14
Total	1,684	3	163	1,518	3	244

2018 - Driver Statistics

Age Group	Gratiot County			Driver Rates	
	2018 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	6,920	228	2	2.9	87.7
16 - 20	3,196	1,937	238	744.7	1,228.7
21 - 24	2,354	1,592	198	841.1	1,243.7
25 - 64	21,023	17,497	1,381	656.9	789.3
65 +	7,106	6,384	218	306.8	341.5
Unknown	0	0	62	- -	- -
Total	40,599	27,638	2,099	517.0	759.5

2018 - 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	1,593	75.9	4	66.7	180	1,409
Motor home	4	0.2	0	0.0	0	4
Pickup truck	387	18.4	1	16.7	55	331
Small truck under 10,000 lbs. GVWR	10	0.5	0	0.0	0	10
Motorcycle	13	0.6	0	0.0	12	1
Moped / goped	0	0.0	0	0.0	0	0
Go-cart / golf cart	0	0.0	0	0.0	0	0
Snowmobile	0	0.0	0	0.0	0	0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	2	0.1	0	0.0	1	1
Other	16	0.8	0	0.0	1	15
Truck/bus over 10,000 lbs.	53	2.5	1	16.7	16	36
Unknown	21	1.0	0	0.0	1	20
Total	2,099	100.0	6	100.0	266	1,827

5-Year Trend - Crashes by Month

Month	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
January	177	0	152	2	146	1	144	0	193	0
February	157	1	100	0	124	0	96	0	128	0
March	125	0	110	0	126	0	124	0	128	1
April	66	0	95	0	97	0	96	1	118	0
May	104	0	126	1	120	0	121	0	96	0
June	135	2	99	0	113	0	117	1	132	0
July	104	0	120	0	91	1	102	0	111	0
August	80	1	87	2	111	0	97	1	98	1
September	89	0	87	1	133	0	103	1	130	0
October	202	0	189	1	198	0	196	0	190	1
November	213 †	0	223 †	0	254 †	0	219 †	1	231 †	0
December	107	0	130	0	175	0	170	0	129	0
Total	**1,559**	**4**	**1,518**	**7**	**1,688**	**2**	**1,585**	**5**	**1,684**	**3**

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	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Monday	230	1	241	2	226	1	210	1	224	0
Tuesday	185	0	224	2	248	1	237	0	249	0
Wednesday	227	0	225	1	268	0	231	0	230	1
Thursday	217	0	187	0	252	0	235	3	227	0
Friday	290 †	1	243 †	0	284 †	0	252 †	0	278 †	1
Saturday	218	0	210	1	211	0	221	1	256	1
Sunday	192	2	188	1	199	0	199	0	220	0
Total	**1,559**	**4**	**1,518**	**7**	**1,688**	**2**	**1,585**	**5**	**1,684**	**3**

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

2018 Crashes by Month

Gratiot County (continued)
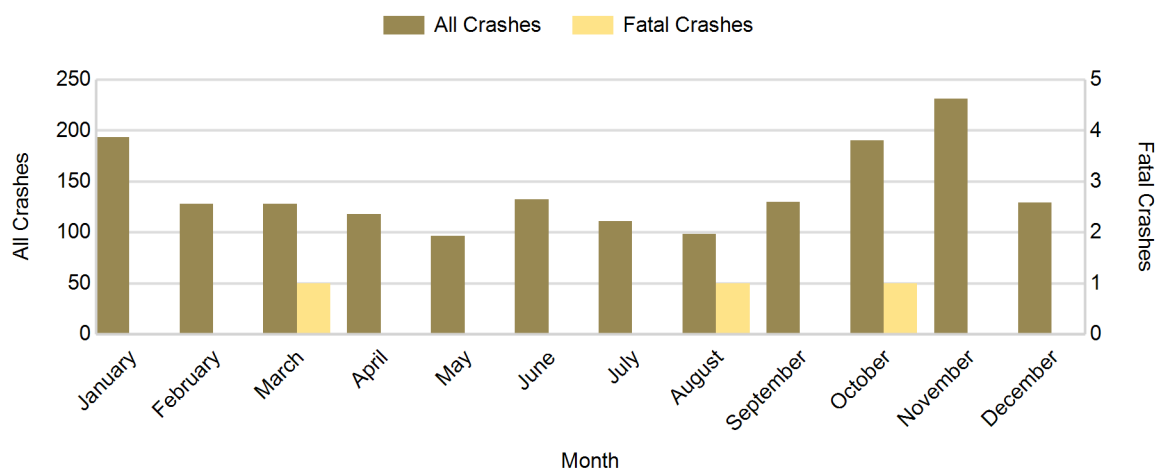
2018 - Crashes by Day of Week

Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	**% of Total**	**Number**	**% of Fatal**	**A**	**B**	**C**	**Number**
Monday	224	13.3	0	0.0	3	4	8	209
Tuesday	249	14.8	0	0.0	5	9	17	218
Wednesday	230	13.7	1	33.3	3	5	7	214
Thursday	227	13.5	0	0.0	2	6	9	210
Friday	278	16.5	1	33.3	5	7	15	250
Saturday	256	15.2	1	33.3	3	5	19	228
Sunday	220	13.1	0	0.0	8	8	15	189
Total	**1,684**	**100.0**	**3**	**100.0**	**29**	**44**	**90**	**1,518**

2018 Day of Week and Severity
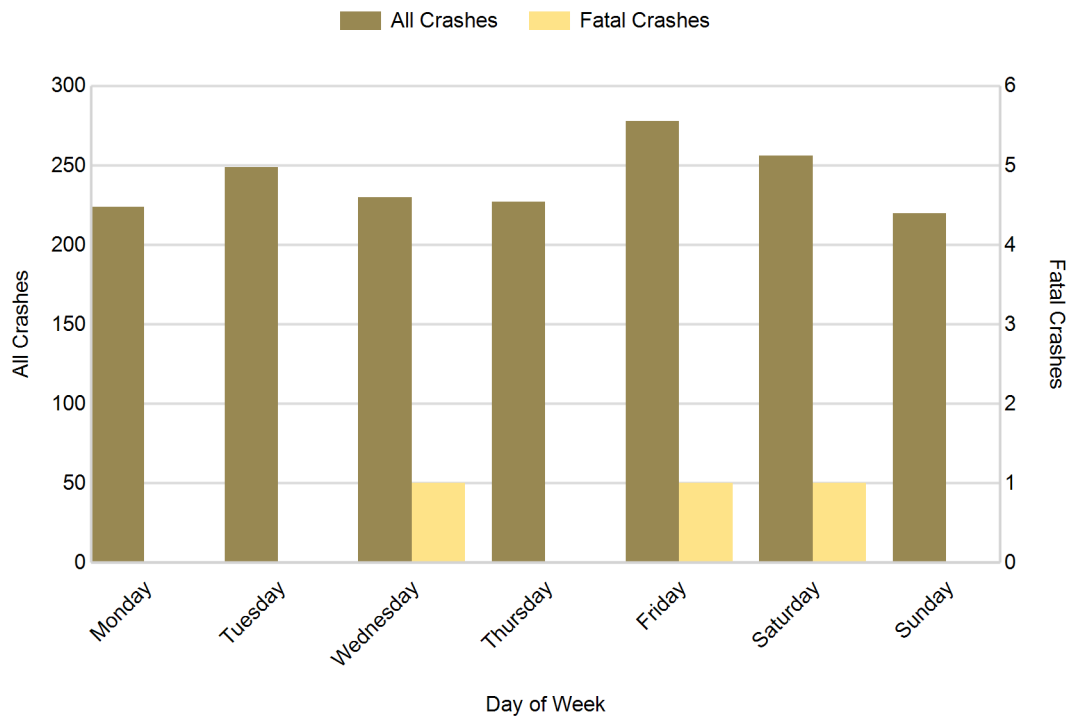
5-Year Trend - Crashes by Weekday and Weekend

Portion of Week	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Weekday	1,149	2	1,120	5	1,278	2	1,165	4	1,208	2
Weekend	410	2	398	2	410	0	420	1	476	1
Total	**1,559**	**4**	**1,518**	**7**	**1,688**	**2**	**1,585**	**5**	**1,684**	**3**

5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)
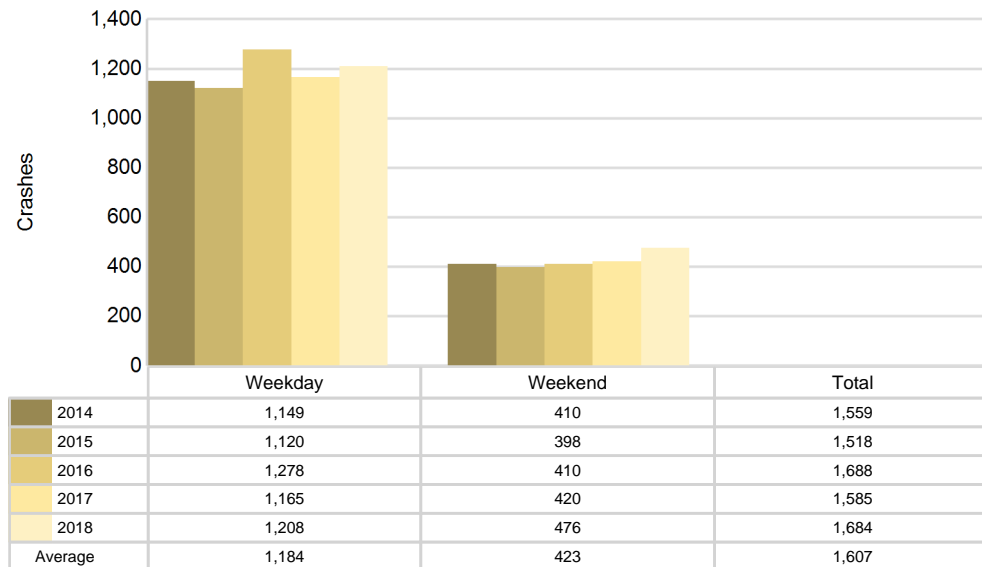
	Weekday	Weekend	Total
2014	1,149	410	1,559
2015	1,120	398	1,518
2016	1,278	410	1,688
2017	1,165	420	1,585
2018	1,208	476	1,684
Average	1,184	423	1,607

Gratiot County (continued)

5-Year Trend - Crashes by Time of Day

Time of Day	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	102	1	69	0	97	0	80	1	88	0
3:00 AM - 5:59 AM	155	0	138	0	142	0	162	0	162	0
6:00 AM - 8:59 AM	270	0	242	2	318	0	294	1	323	1
9:00 AM - 11:59 AM	141	0	118	1	151	1	122	0	133	1
Noon - 2:59 PM	174	0	165	1	176	1	156	0	158	0
3:00 PM - 5:59 PM	225	1	229	1	246	0	219	0	220	0
6:00 PM - 8:59 PM	288 †	1	315 †	2	330 †	0	329 †	2	352 †	0
9:00 PM - 11:59 PM	204	1	242	0	228	0	222	1	248	1
Unknown	0	0	0	0	0	0	1	0	0	0
Total	**1,559**	**4**	**1,518**	**7**	**1,688**	**2**	**1,585**	**5**	**1,684**	**3**

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 Time of Day

	Midnight - 2:59 AM	3:00 AM - 5:59 AM	6:00 AM - 8:59 AM	9:00 AM - 11:59 AM	Noon - 2:59 PM	3:00 PM - 5:59 PM	6:00 PM - 8:59 PM	9:00 PM - 11:59 PM	Unknown	Total
2014	102	155	270	141	174	225	288	204	0	1,559
2015	69	138	242	118	165	229	315	242	0	1,518
2016	97	142	318	151	176	246	330	228	0	1,688
2017	80	162	294	122	156	219	329	222	1	1,585
2018	88	162	323	133	158	220	352	248	0	1,684
Average	87	152	289	133	166	228	323	229	0	1,607

5-Year Trend
Fatal Crashes by Time of Day

	Midnight - 2:59 AM	3:00 AM - 5:59 AM	6:00 AM - 8:59 AM	9:00 AM - 11:59 AM	Noon - 2:59 PM	3:00 PM - 5:59 PM	6:00 PM - 8:59 PM	9:00 PM - 11:59 PM	Unknown	Total
2014	1	0	0	0	0	1	1	1	0	4
2015	0	0	2	1	1	1	2	0	0	7
2016	0	0	0	1	1	0	0	0	0	2
2017	1	0	1	0	0	0	2	1	0	5
2018	0	0	1	1	0	0	0	1	0	3
Average	0	0	1	1	0	0	1	1	0	4

2018 - 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	88	5.2	0	0.0	2	2	3	81
3:00 AM - 5:59 AM	162	9.6	0	0.0	2	2	7	151
6:00 AM - 8:59 AM	323	19.2	1	33.3	3	4	8	307
9:00 AM - 11:59 AM	133	7.9	1	33.3	4	4	10	114
Noon - 2:59 PM	158	9.4	0	0.0	7	8	19	124
3:00 PM - 5:59 PM	220	13.1	0	0.0	6	13	22	179
6:00 PM - 8:59 PM	352	20.9	0	0.0	3	9	15	325
9:00 PM - 11:59 PM	248	14.7	1	33.3	2	2	6	237
Unknown	0	0.0	0	0.0	0	0	0	0
Total	**1,684**	**100.0**	**3**	**100.0**	**29**	**44**	**90**	**1,518**
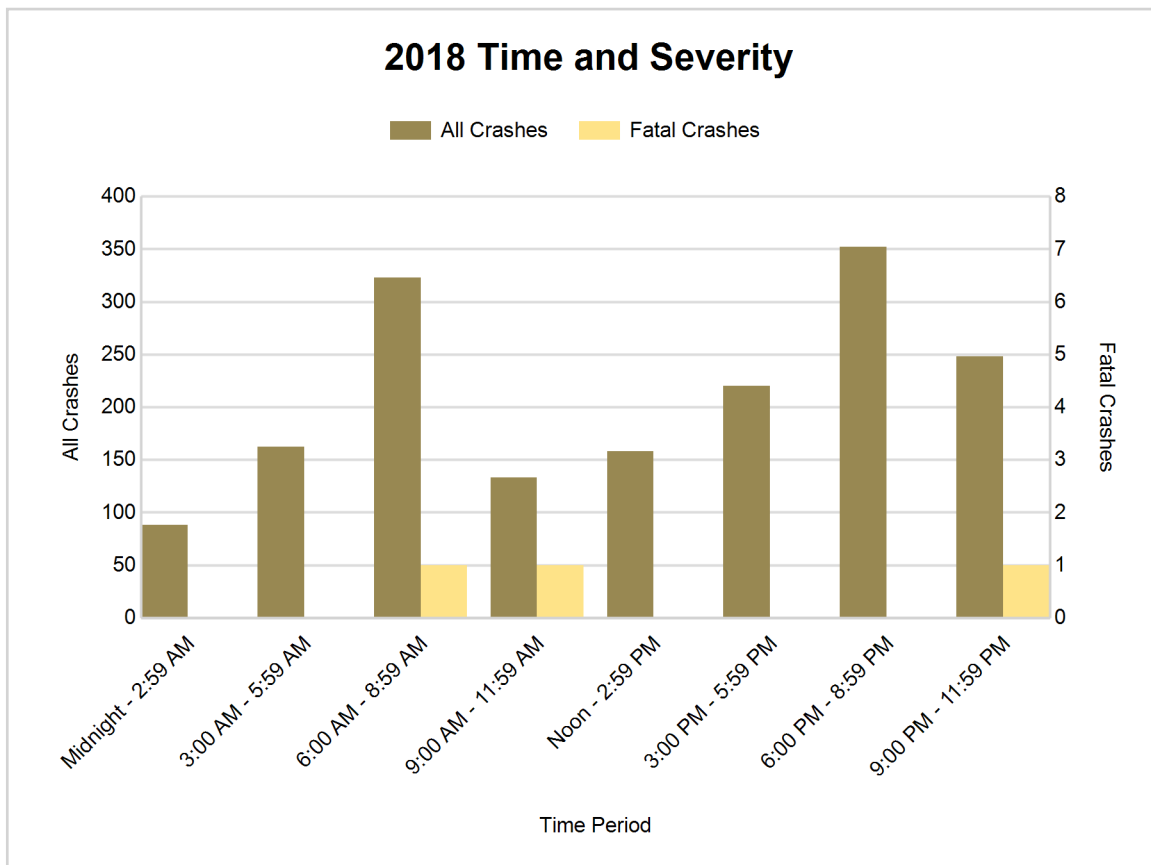
2018 Time and Severity

Gratiot County (continued)

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

Time of Day	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	82	0	46	0	65	0	61	0	64	0
3:00 AM - 5:59 AM	124	0	106	0	116	0	129	0	123	0
6:00 AM - 8:59 AM	176	0	148	0	217	0	200	0	215	0
9:00 AM - 11:59 AM	24	0	28	0	34	0	31	0	31	0
Noon - 2:59 PM	21	0	26	0	25	0	24	0	21	0
3:00 PM - 5:59 PM	52	0	52	0	47	0	51	0	62	0
6:00 PM - 8:59 PM	204	0	194	0	230	0	227	0	247	0
9:00 PM - 11:59 PM	167	0	201	0	183	0	185	0	181	0
Unknown	0	0	0	0	0	0	0	0	0	0
Total	**850**	**0**	**801**	**0**	**917**	**0**	**908**	**0**	**944**	**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
Deer-Involved Crashes by Time of Day**

	Midnight - 2:59 AM	3:00 AM - 5:59 AM	6:00 AM - 8:59 AM	9:00 AM - 11:59 AM	Noon - 2:59 PM	3:00 PM - 5:59 PM	6:00 PM - 8:59 PM	9:00 PM - 11:59 PM	Unknown	Total
2014	82	124	176	24	21	52	204	167	0	850
2015	46	106	148	28	26	52	194	201	0	801
2016	65	116	217	34	25	47	230	183	0	917
2017	61	129	200	31	24	51	227	185	0	908
2018	64	123	215	31	21	62	247	181	0	944
Average	64	120	191	30	23	53	220	183	0	884

2018 Time and Severity of Deer-Involved Crashes

All Crashes   Fatal Crashes

There were no fatal deer-involved crashes in Gratiot County in 2018

Gratiot County (continued)

5-Year Trend - Crashes by Crash Type

Crash Type	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Single motor vehicle	1,167	3	1,116	4	1,263	0	1,207	3	1,282	1
Head-on	10	1	10	2	6	0	7	0	8	0
Head-on / left turn	12	0	12	0	25	0	12	0	14	0
Angle	104	0	87	1	107	2	96	1	118	1
Rear-end	118	0	141	0	126	0	107	1	107	1
Rear-end left turn	16	0	16	0	20	0	15	0	14	0
Rear-end right turn	6	0	4	0	5	0	4	0	7	0
Sideswipe same direction	45	0	53	0	57	0	64	0	56	0
Sideswipe opposite direction	17	0	19	0	17	0	14	0	12	0
Backing	0	0	0	0	16	0	19	0	25	0
Other / Unknown	64	0	60	0	46	0	40	0	41	0
Uncoded and Errors	0	0	0	0	0	0	0	0	0	0
Total	**1,559**	**4**	**1,518**	**7**	**1,688**	**2**	**1,585**	**5**	**1,684**	**3**

5-Year Trend
Crashes by Crash Type

	Single Vehicle	Head-On	Head-On/ Left Turn	Angle	Rear-End	Rear-End LeftTurn	Rear-End Right Turn	Sideswipe Same Dir	Sideswipe Opp Dir	Backing	Unknown / Other	Total
2014	1,167	10	12	104	118	16	6	45	17	0	64	1,559
2015	1,116	10	12	87	141	16	4	53	19	0	60	1,518
2016	1,263	6	25	107	126	20	5	57	17	16	46	1,688
2017	1,207	7	12	96	107	15	4	64	14	19	40	1,585
2018	1,282	8	14	118	107	14	7	56	12	25	41	1,684
Average	1,207	8	15	102	120	16	5	55	16	12	50	1,607
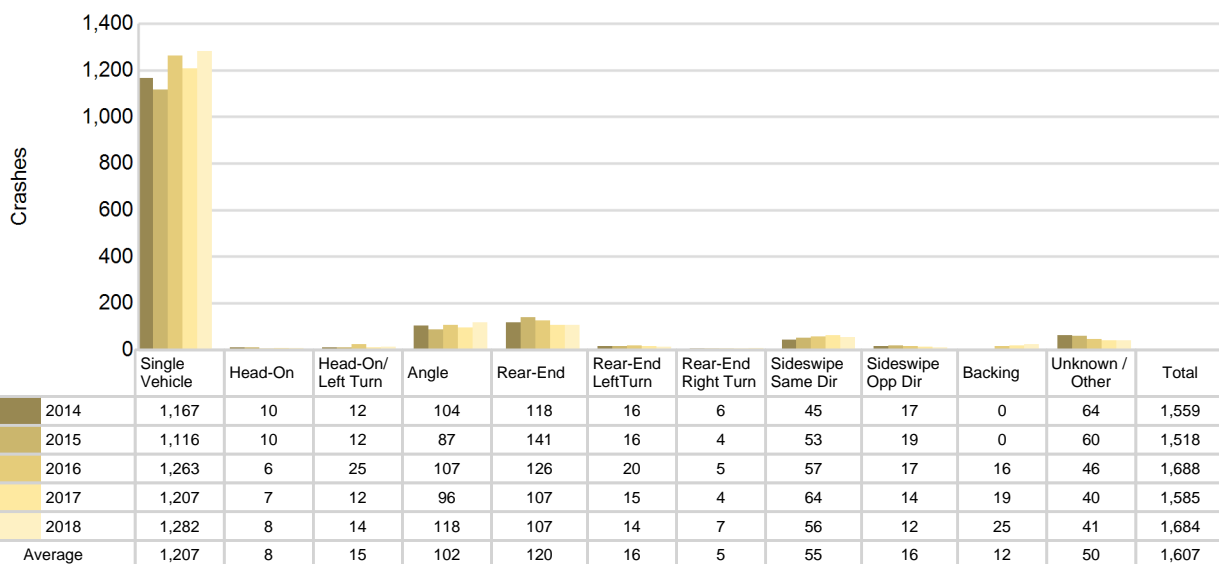
Gratiot County (continued)

2018 - 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
Alma	148	0	16	132	0	48	0	100	7	3	27	0	19
Arcada Twp.	78	0	6	72	0	0	0	78	1	0	58	0	11
Ashley	5	0	0	5	0	0	0	5	0	0	2	0	0
Bethany Twp.	36	0	4	32	0	2	15	19	0	0	15	0	7
Breckenridge	16	0	2	14	0	0	10	6	0	0	4	0	5
Elba Twp.	54	0	2	52	0	0	29	25	0	0	43	0	3
Emerson Twp.	169	0	21	148	0	112	0	57	1	0	77	0	28
Fulton Twp.	52	0	7	45	0	0	13	39	1	0	33	0	12
Hamilton Twp.	17	0	1	16	0	0	0	17	1	0	16	0	1
Ithaca	51	0	4	47	0	25	0	26	0	1	18	0	7
Lafayette Twp.	53	0	4	49	0	0	0	53	1	0	37	0	6
New Haven Twp.	39	0	1	38	0	0	0	39	1	0	30	0	1
Newark Twp.	68	0	6	62	0	0	0	68	1	0	47	0	6
North Shade Twp.	37	0	4	33	0	0	19	18	1	0	25	0	4
North Star Twp.	117	1	10	106	0	73	0	44	3	1	65	1	18
Perrinton	5	0	0	5	0	0	5	0	0	0	5	0	0
Pine River Twp.	301	1	36	264	0	150	53	98	7	2	159	1	56
St. Louis	60	0	11	49	0	6	32	22	2	0	16	0	20
Seville Twp.	121	0	8	113	0	0	57	63	1	0	91	0	10
Sumner Twp.	101	0	7	94	0	0	0	101	4	2	74	0	10
Washington Twp.	93	1	5	87	0	47	17	29	1	1	68	1	6
Wheeler Twp.	63	0	8	55	0	0	17	46	0	0	34	0	14
Unknown Community	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	**1,684**	**3**	**163**	**1,518**	**0**	**463**	**267**	**953**	**33**	**10**	**944**	**3**	**244**

Gratiot County (continued)

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

Driver Age	2014		2015		2016		2017		2018	
	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	1	7	0	3	0	2	0
16 - 20	236	1	214	3	227	2	210	1	238	3
21 - 24	204	5	165	7	190	7	196	8	198	4
25 - 64	1,252	13	1,286	25	1,417	27	1,280	38	1,381	24
65 +	206	1	213	2	243	2	237	1	218	2
Unknown	56	0	56	0	40	0	51	0	62	0
Total	**1,960**	**20**	**1,937**	**38**	**2,124**	**38**	**1,977**	**48**	**2,099**	**33**

5-Year Trend
Total Drivers in Crashes by Age

	0 - 15	16 - 20	21 - 24	25 - 64	65 +	Unknown	Total
2014	6	236	204	1,252	206	56	1,960
2015	3	214	165	1,286	213	56	1,937
2016	7	227	190	1,417	243	40	2,124
2017	3	210	196	1,280	237	51	1,977
2018	2	238	198	1,381	218	62	2,099
Average	4	225	191	1,323	223	53	2,019

5-Year Trend
Total Drivers Coded Drinking by Age

	0 - 15	16 - 20	21 - 24	25 - 64	65 +	Unknown	Total
2014	0	1	5	13	1	0	20
2015	1	3	7	25	2	0	38
2016	0	2	7	27	2	0	38
2017	0	1	8	38	1	0	48
2018	0	3	4	24	2	0	33
Average	0	2	6	25	2	0	35
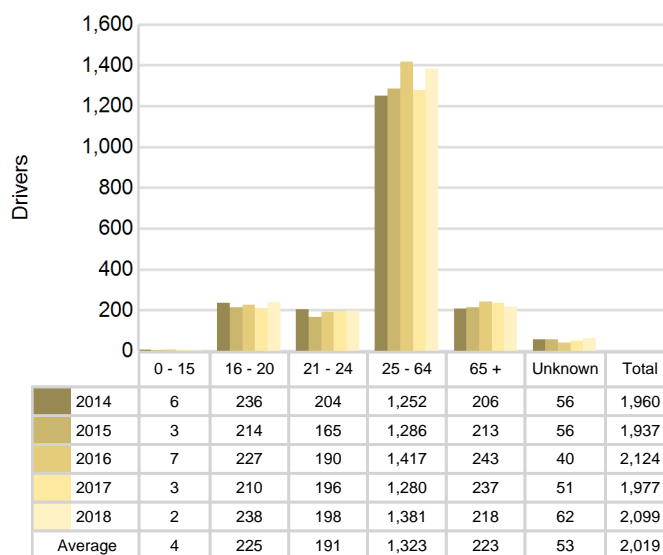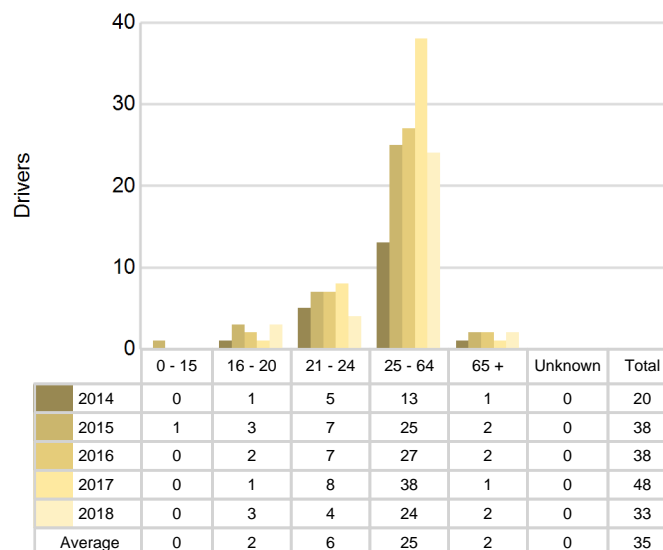
2018 - Bodily Alcohol Concentration (BAC) Results Among All Vehicle Drivers in Alcohol-Involved Crashes by Age

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	4	3	3	0	0	1	0	2
21 - 24	5	6	1	4	0	0	1	0	3
25 - 64	32	23	18	24	0	0	3	7	14
65 +	5	1	1	2	0	0	1	0	1
Unknown	2	0	0	0	0	0	0	0	0
Total	**48**	**34**	**23**	**33**	**0**	**0**	**6**	**7**	**20**

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 2018, there were 48 drivers in alcohol-involved crashes; 33 (68.8%) of those drivers were coded as had-been-drinking by the officer on the crash form.
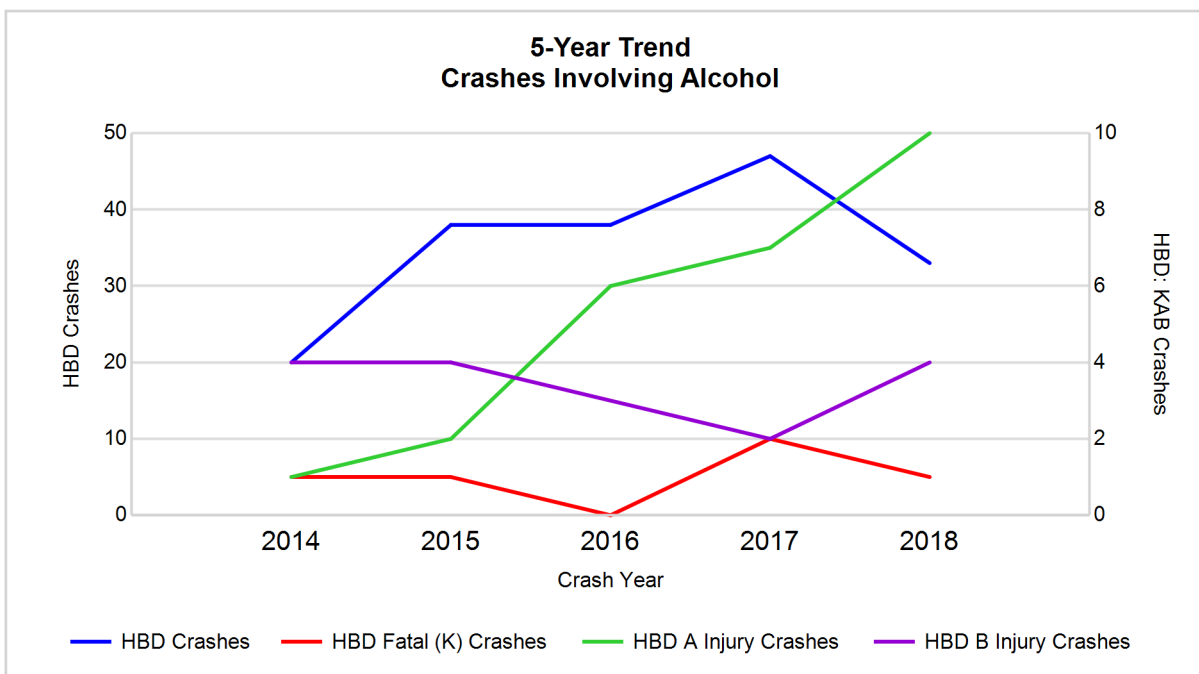
- 13 (39.4%) of the 33 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 7 (53.8%) of the 13 drivers had a BAC at or above 0.17 g/dL.

- 23 (69.7%) of the 33 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
2014	1,559	20	1.3	4	1	25.0	16	1	6.3	50	4	8.0
2015	1,518	38	2.5	7	1	14.3	22	2	9.1	48	4	8.3
2016	1,688	38	2.3	2	0	0.0	32	6	18.8	49	3	6.1
2017	1,585	47	3.0	5	2	40.0	31	7	22.6	48	2	4.2
2018	1,684	33	2.0	3	1	33.3	29	10**	34.5**	44*	4	9.1**

Note: * Indicates that the most recent year is the lowest number or percentage reported in the 5-year period in that column
   ** Indicates that the most recent year is the highest number or percentage reported in the 5-year period in that column
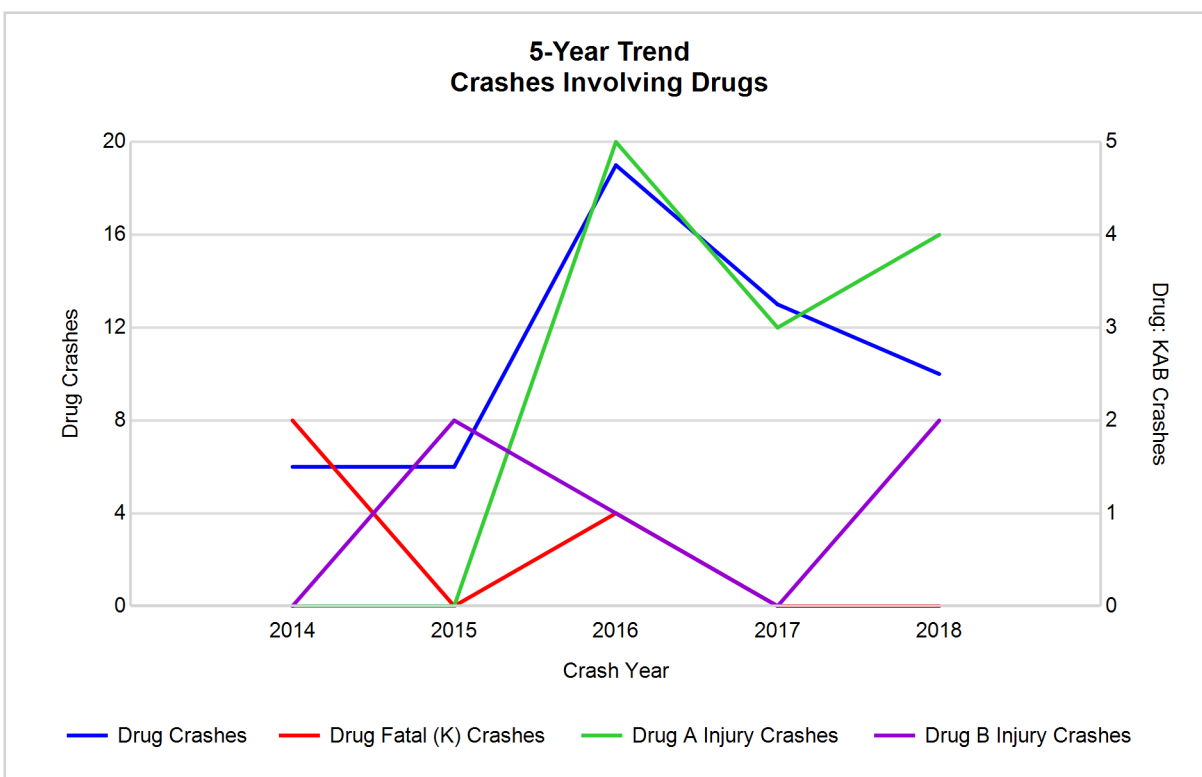

5-Year Trend Crashes Involving Alcohol

Note: Had-Been-Drinking (HBD)

Gratiot County (continued)

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
2014	1,559	6	0.4	4	2	50.0	16	0	0.0	50	0	0.0
2015	1,518	6	0.4	7	0	0.0	22	0	0.0	48	2	4.2
2016	1,688	19	1.1	2	1	50.0	32	5	15.6	49	1	2.0
2017	1,585	13	0.8	5	0	0.0	31	3	9.7	48	0	0.0
2018	1,684	10	0.6	3	0	0.0	29	4	13.8	44*	2	4.5**

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
2014	1,559	24	1.5	4	2	50.0	16	1	6.3	50	4	8.0
2015	1,518	42	2.8	7	1	14.3	22	2	9.1	48	5	10.4
2016	1,688	49	2.9	2	1	50.0	32	8	25.0	49	3	6.1
2017	1,585	51	3.2	5	2	40.0	31	7	22.6	48	2	4.2
2018	1,684	35	2.1	3	1	33.3	29	10**	34.5**	44*	5	11.4**

Note: * Indicates that the most recent year is the lowest number or percentage reported in the 5-year period in that column

     ** Indicates that the most recent year is the highest number or percentage reported in the 5-year period in that column
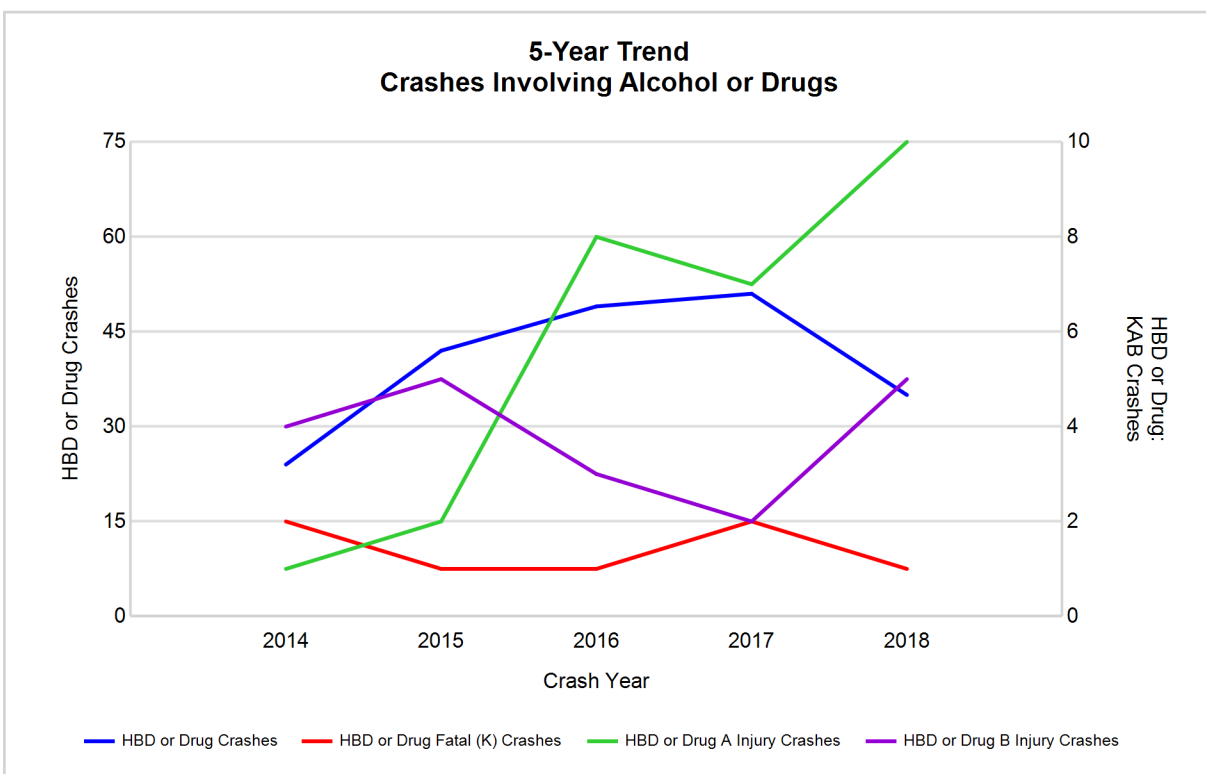
Note: Had-Been-Drinking (HBD)

2018 - 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	1,647	1,586	96.3	2	2	100.0	26	22	84.6	44	42	95.5	106	102	96.2	1,436	1,418	98.7
Motor home	4	4	100.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	4	4	100.0
Pickup truck	400	380	95.0	1	0	0.0	6	3	50.0	10	8	80.0	26	26	100.0	345	343	99.4
Small truck under 10,000 lbs. GVWR	10	9	90.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	9	9	100.0
Motorcycle	13	8	61.5	0	0	0.0	6	3	50.0	5	3	60.0	1	1	100.0	1	1	100.0
Moped / goped	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
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	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	2	1	50.0	0	0	0.0	0	0	0.0	1	1	100.0	0	0	0.0	1	0	0.0
Other	16	13	81.3	0	0	0.0	1	1	100.0	0	0	0.0	0	0	0.0	13	12	92.3
Truck/bus over 10,000 lbs.	55	51	92.7	0	0	0.0	1	1	100.0	0	0	0.0	5	4	80.0	49	46	93.9
Unknown	21	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Total	**2,168**	**2,052**	**94.6**	**3**	**2**	**0.0**	**40**	**30**	**75.0**	**60**	**54**	**90.0**	**138**	**133**	**96.4**	**1,858**	**1,833**	**98.7**

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.

2018 - 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	20	20	100.0	0	0	0.0	2	2	100.0	7	7	100.0	10	10	100.0	1	1	100.0
16 - 20	247	240	97.2	0	0	0.0	4	2	50.0	11	11	100.0	20	19	95.0	212	208	98.1
21 - 24	201	196	97.5	1	0	0.0	4	3	75.0	5	5	100.0	13	12	92.3	178	176	98.9
25 - 64	1,412	1,373	97.2	1	1	100.0	22	15	68.2	29	23	79.3	77	74	96.1	1,276	1,260	98.7
65 +	226	223	98.7	1	1	100.0	8	8	100.0	8	8	100.0	18	18	100.0	191	188	98.4
Unknown	62	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Total	**2,168**	**2,052**	**94.6**	**3**	**2**	**0.0**	**40**	**30**	**75.0**	**60**	**54**	**90.0**	**138**	**133**	**96.4**	**1,858**	**1,833**	**98.7**

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.

Gratiot County (continued)

5-Year Trend - Restraint Use Among Drivers

Restraint Use	2014			2015			2016			2017			2018		
	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	19	0	3	10	0	2	5	0	1	3	0	1	2	0	1
Shoulder belt only used	1	0	0	0	0	0	4	0	1	5	0	0	12	0	0
Lap belt only used	6	1	0	6	0	0	1	0	0	9	0	0	13	0	1
Both lap & shoulder belts used	1,793	0	149	1,802	2	153	1,981	0	166	1,852	1	140	1,956	1	148
No belts used	11	2	2	13	0	4	17	0	7	22	1	13	12	0	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	0	1	0	0	1	0	0
Restraint use unknown	54	0	5	35	2	0	91	0	5	77	0	2	88	0	2
Helmet worn	11	0	8	11	0	7	7	0	6	2	0	2	9	0	8
Helmet not worn	6	0	3	5	0	5	8	0	7	6	1	5	6	0	5
Helmet use unknown	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0
Uncoded & errors	59	0	0	54	0	0	7	0	0	0	0	0	0	0	0
Total	**1,960**	**3**	**170**	**1,937**	**4**	**171**	**2,124**	**0**	**195**	**1,977**	**3**	**163**	**2,099**	**1**	**171**

5-Year Trend - Restraint Use Among Drivers Coded Drinking

Restraint Use	2014			2015			2016			2017			2018		
	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	0	0	0	0	0	0	0	0	0
Shoulder belt only used	0	0	0	0	0	0	0	0	0	0	0	0	1	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	12	0	3	29	0	7	29	0	5	30	0	5	21	1	6
No belts used	1	1	0	1	0	1	3	0	3	6	1	4	3	0	3
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	7	0	3	8	1	0	5	0	1	11	0	2	6	0	2
Helmet worn	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Helmet not worn	0	0	0	0	0	0	1	0	0	1	0	1	1	0	1
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	0	0	0	0	0	0
Total	**20**	**1**	**6**	**38**	**1**	**8**	**38**	**0**	**9**	**48**	**1**	**12**	**33**	**1**	**13**

Gratiot County (continued)

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

Age Group	2014			2015			2016			2017			2018		
	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	1	0	0	1	0	1	0	0	0
16 - 20	2	0	0	4	0	1	5	0	3	0	0	0	4	0	2
21 - 24	2	0	1	2	0	0	2	0	1	5	1	3	1	0	1
25 - 64	21	1	3	11	0	4	13	0	4	16	0	8	7	0	4
65 +	4	0	1	4	0	1	1	0	0	3	0	2	2	0	0
Unknown	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
Total	**30**	**2**	**5**	**23**	**0**	**6**	**22**	**0**	**8**	**25**	**1**	**14**	**14**	**0**	**7**

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

5-Year Trend
Driver Seatbelt Not Used

	0 - 15	16 - 20	21 - 24	25 - 64	65 +	Unknown	Total
2014	1	2	2	21	4	0	30
2015	0	4	2	11	4	2	23
2016	1	5	2	13	1	0	22
2017	1	0	5	16	3	0	25
2018	0	4	1	7	2	0	14
Average	1	3	2	14	3	0	23

Gratiot County (continued)
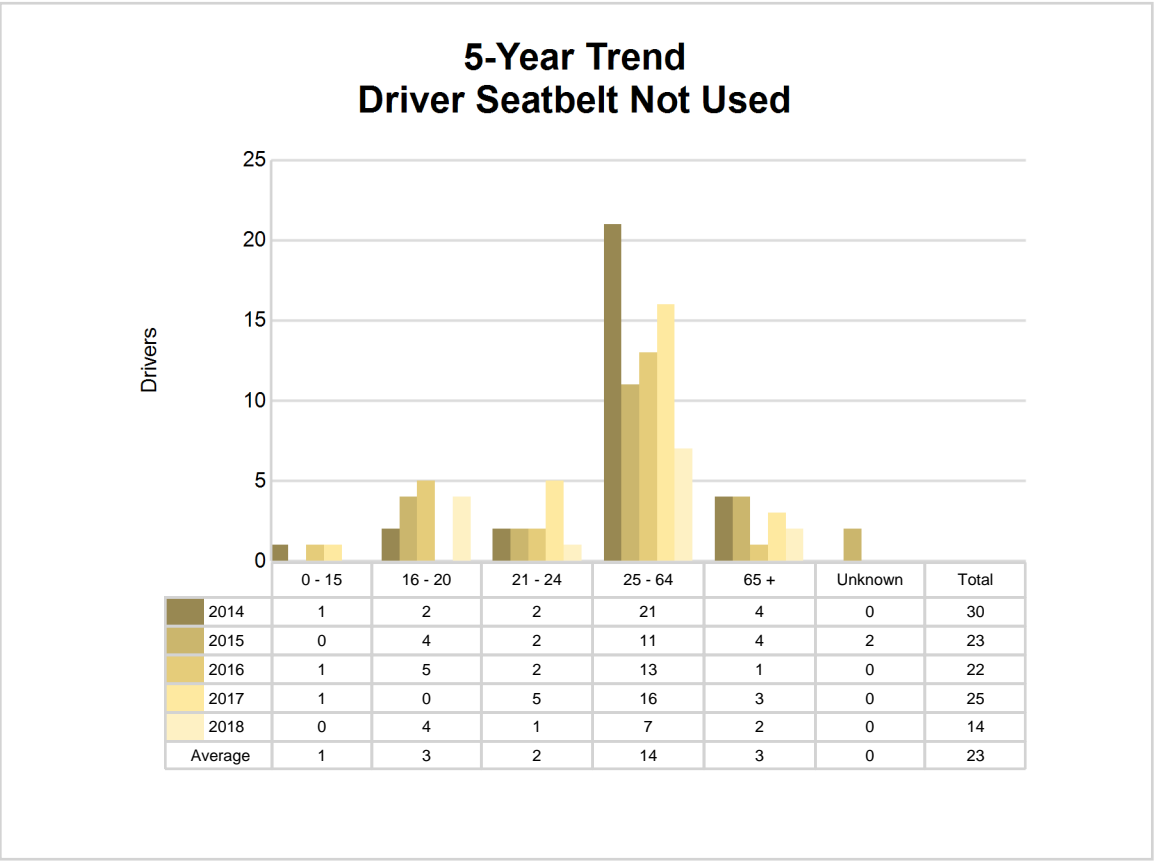
5-Year Trend - Seatbelt Used Among Drivers by Age

Age Group	2014			2015			2016			2017			2018		
	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	4	0	0	2	0	0	4	0	0	2	0	1	1	0	0
16 - 20	225	0	36	203	0	23	214	0	28	205	0	23	232	0	24
21 - 24	191	0	18	160	0	16	183	0	22	188	0	14	193	0	17
25 - 64	1,182	0	75	1,237	1	89	1,352	0	90	1,238	0	76	1,343	1	82
65 +	197	1	20	206	1	25	234	0	27	234	1	26	213	0	26
Unknown	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Total	**1,800**	**1**	**149**	**1,809**	**2**	**153**	**1,987**	**0**	**167**	**1,867**	**1**	**140**	**1,982**	**1**	**149**

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**

	0 - 15	16 - 20	21 - 24	25 - 64	65 +	Unknown	Total
2014	4	225	191	1,182	197	1	1,800
2015	2	203	160	1,237	206	1	1,809
2016	4	214	183	1,352	234	0	1,987
2017	2	205	188	1,238	234	0	1,867
2018	1	232	193	1,343	213	0	1,982
Average	3	216	183	1,270	217	0	1,889

Gratiot County (continued)
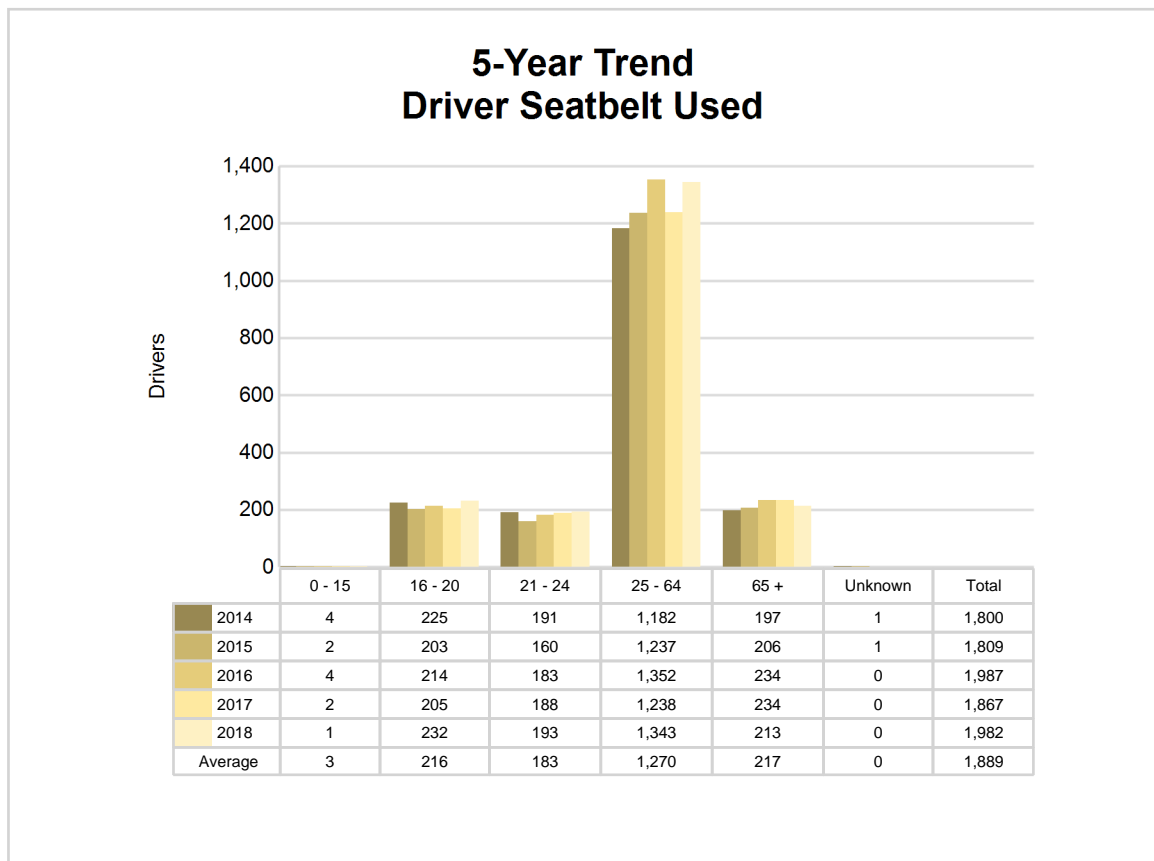
5-Year Trend - Drivers in Crashes by Hazardous Action

Hazardous Action	2014		2015		2016		2017		2018	
	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	1,326	1	1,326	4	1,437	2	1,359	2	1,449	3
Speed too fast	167	3	116	1	126	0	118	0	151	0
Speed too slow	2	0	2	0	1	0	1	0	0	0
Failed to yield	91	0	92	1	122	1	117	1	114	1
Disregard traffic control	15	0	15	0	17	0	10	0	18	0
Drove wrong way	0	0	3	1	1	0	1	0	0	0
Drove left of center	8	0	8	1	6	0	4	0	6	0
Improper passing	6	0	4	0	8	0	7	0	7	0
Improper lane use	18	0	19	0	18	0	15	0	19	0
Improper turn	10	0	6	0	9	0	9	0	16	0
Improper/no signal	4	0	7	0	1	0	0	0	1	0
Improper backing	41	0	33	0	39	0	27	0	27	0
Unable to stop in assured clear distance	128	0	135	0	136	0	106	0	100	1
Other	40	1	61	1	74	0	52	3	56	0
Unknown	21	0	18	1	50	0	67	1	53	1
Reckless driving	6	0	12	0	8	0	5	0	4	0
Careless/negligent driving	77	0	80	0	71	1	79	0	78	0
Uncoded & errors	0	0	0	0	0	0	0	0	0	0
Total	**1,960**	**5**	**1,937**	**10**	**2,124**	**4**	**1,977**	**7**	**2,099**	**6**

The picture above represents all 2018 alcohol-involved fatal crashes in Gratiot County.

In 2018, there were 33 alcohol-involved crashes in Gratiot County:

1   K - Fatal Crash

10   A - Suspected Serious Injury Crashes

4   B - Suspected Minor Injury Crashes

2   C - Possible Injury Crashes

16   O - Property Damage Only/No Injury Crashes