June 2017
Revised 10/3/17

MICHIGAN
Office of Highway Safety Planning
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.

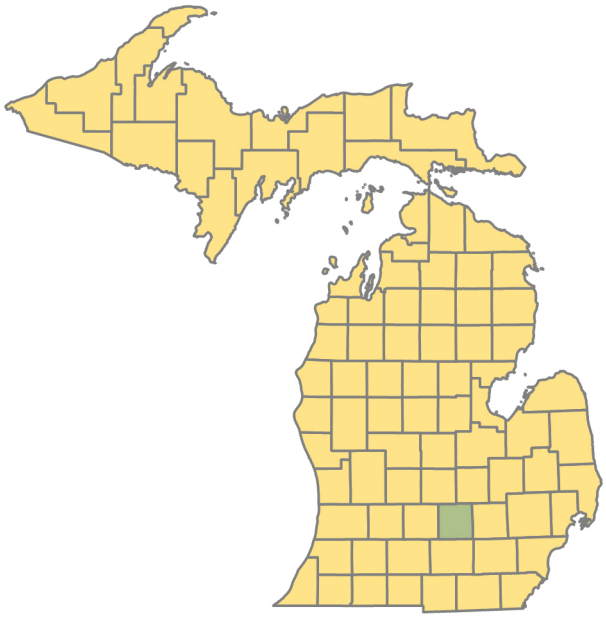
Examples: Age, injury severity, and seat belt or helmet use.

KABCO Injury Indicator:
K = Killed
A = Suspected Serious Injury
B = Suspected Minor Injury
C = Possible Injury
O = No Injury
Property Damage Only (PDO)

UMTRI
University of Michigan
Transportation Research Institute

Ingham 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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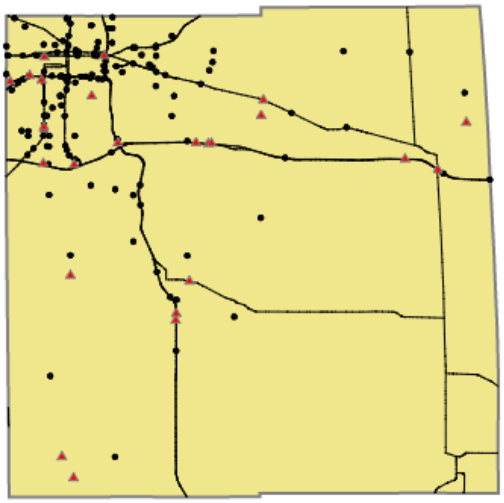
Ingham County



Crashes by most severe injury (mapped/actual)
K - Fatal (25/25)
A - Suspected Serious (137/137)

2016 - Crashes and Injuries by Month

Month	Crashes				Persons	
	Total	Fatal	Injury	Property Damage Only (PDO)	Fatalities	Injuries
January	921	0	137	784	0	181
February	907	3	160	744	3	207
March	794	0	132	662	0	192
April	688	2	146	540	2	197
May	771	3	161	607	3	241
June	740	3	167	570	3	214
July	621	3	156	462	3	228
August	691	2	164	525	2	221
September	844	5	184	655	5	267
October	967	1	183	783	1	247
November	999	1	183	815	2	250
December	1,004	2	153	849	2	208
Total	**9,947**	**25**	**1,926**	**7,996**	**26**	**2,653**

Ingham County

In 2016:

There were 17,938 drivers involved in 9,947 motor vehicle crashes in Ingham County. Of those crashes, 25 were classified as fatal, resulting in 26 fatalities. An additional 2,653 persons were injured.

Ingham County experienced the highest number of motor vehicle crashes (1,004) in December, the highest number of fatal crashes (5) and the highest number of persons killed (5) in September.

Michigan driver statistics indicate 7.8 percent of licensed drivers in Ingham County were age 16-20, and 12.1 percent of drivers in crashes were also in that age group.

2016 - Driver Statistics

Age Group	Statewide			Driver Rates	
	2016 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	50,884	1,021	22	4.3	215.5
16 - 20	32,886	14,877	2,170	659.9	1,458.6
21 - 24	30,856	17,118	2,389	774.2	1,395.6
25 - 64	137,072	125,873	10,258	748.4	814.9
65 +	36,353	32,462	1,526	419.8	470.1
Unknown	0	0	1,573	- -	- -
Total	**288,051**	**191,351**	**17,938**	**622.7**	**937.4**

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	15,012	83.7	32	71.1	3,017	11,963
Motor home	268	1.5	0	0.0	56	212
Pickup truck	1,411	7.9	3	6.7	290	1,118
Small truck under 10,000 lbs. GVWR	227	1.3	0	0.0	48	179
Motorcycle	91	0.5	5	11.1	68	18
Moped / goped	36	0.2	0	0.0	31	5
Go-cart / golf cart	1	0.0	0	0.0	0	1
Snowmobile	0	0.0	0	0.0	0	0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	4	0.0	2	4.4	2	0
Other	129	0.7	1	2.2	27	101
Truck/bus over 10,000 lbs.	394	2.2	2	4.4	63	329
Unknown	365	2.0	0	0.0	33	332
Total	**17,938**	**100.0**	**45**	**100.0**	**3,635**	**14,258**

Ingham County (continued)

5-Year Trend - Crashes by Month

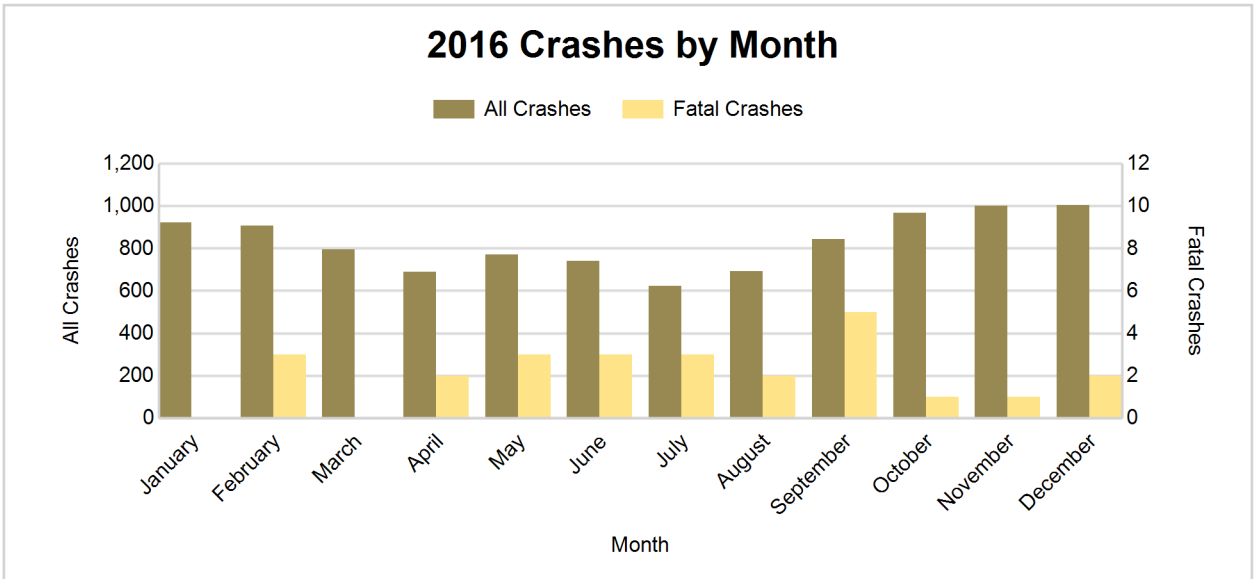
Month	2012		2013		2014		2015		2016	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
January	815	2	817	2	1,139	0	926	0	921	0
February	743	1	754	0	882	1	888	1	907	3
March	639	1	619	0	769	0	675	2	794	0
April	504	0	666	0	618	1	571	0	688	2
May	652	4	690	1	655	0	678	1	771	3
June	670	2	631	1	606	2	671	3	740	3
July	545	3	564	2	551	2	671	1	621	3
August	601	1	620	7	583	2	688	2	691	2
September	659	2	720	2	722	5	808	1	844	5
October	827	2	867	0	943	3	962	0	967	1
November	829	0	858	2	932	0	974	0	999	1
December	767	1	890	0	714	2	838	2	1,004	2
Total	**8,251**	**19**	**8,696**	**17**	**9,114**	**18**	**9,350**	**13**	**9,947**	**25**

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	1,185	0	1,239	2	1,270	1	1,396	2	1,407	4
Tuesday	1,162	1	1,366	2	1,477	3	1,468	2	1,535	3
Wednesday	1,178	1	1,400	4	1,453	1	1,423	0	1,575	2
Thursday	1,270	3	1,365	1	1,544	4	1,361	1	1,710	4
Friday	1,540	3	1,408	3	1,535	3	1,591	2	1,673	3
Saturday	1,069	7	1,084	4	976	5	1,160	5	1,128	5
Sunday	847	4	834	1	859	1	951	1	919	4
Total	**8,251**	**19**	**8,696**	**17**	**9,114**	**18**	**9,350**	**13**	**9,947**	**25**

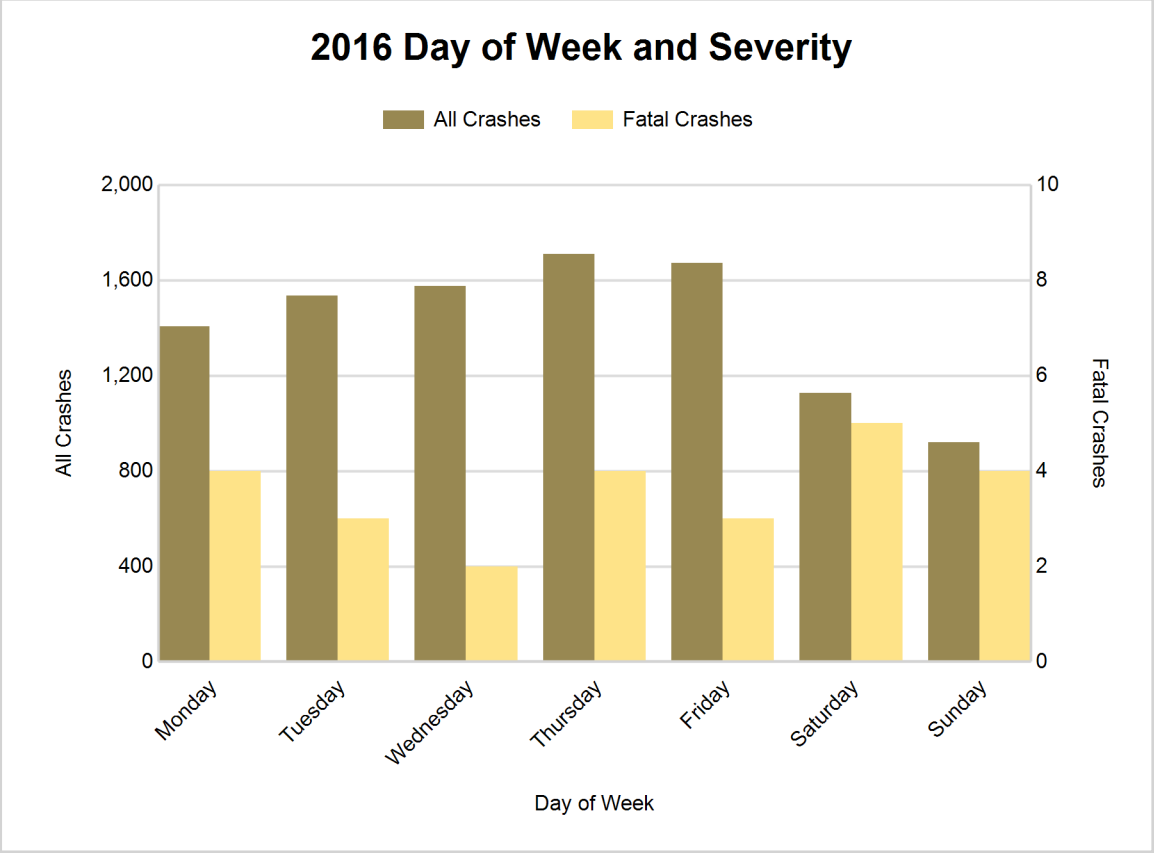
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred on the same day of the week



Ingham County (continued)

2016 - Crashes by Day of Week

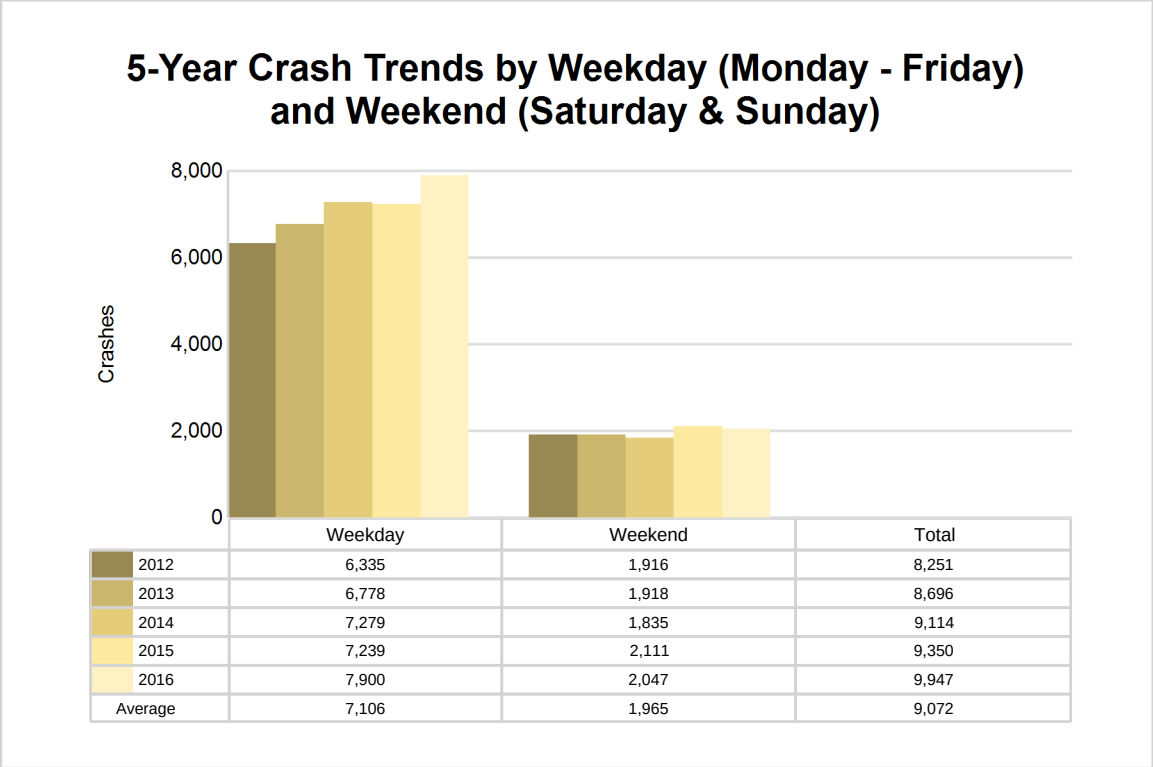
Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Monday	1,407	14.1	4	16.0	15	55	193	1,140
Tuesday	1,535	15.4	3	12.0	17	60	221	1,234
Wednesday	1,575	15.8	2	8.0	14	55	236	1,268
Thursday	1,710	17.2	4	16.0	27	64	221	1,394
Friday	1,673	16.8	3	12.0	26	69	234	1,341
Saturday	1,128	11.3	5	20.0	16	58	154	895
Sunday	919	9.2	4	16.0	22	57	112	724
Total	**9,947**	**100.0**	**25**	**100.0**	**137**	**418**	**1,371**	**7,996**



Ingham County (continued)

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	6,335	8	6,778	12	7,279	12	7,239	7	7,900	16
Weekend	1,916	11	1,918	5	1,835	6	2,111	6	2,047	9
Total	**8,251**	**19**	**8,696**	**17**	**9,114**	**18**	**9,350**	**13**	**9,947**	**25**



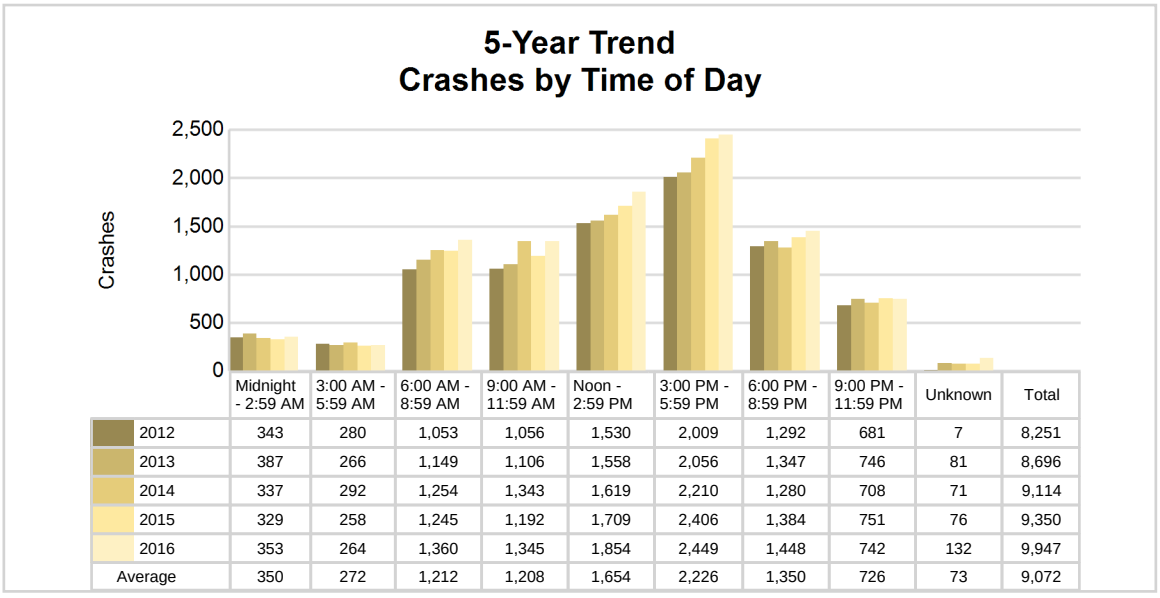
	Weekday	Weekend	Total
2012	6,335	1,916	8,251
2013	6,778	1,918	8,696
2014	7,279	1,835	9,114
2015	7,239	2,111	9,350
2016	7,900	2,047	9,947
Average	7,106	1,965	9,072

Ingham County (continued)

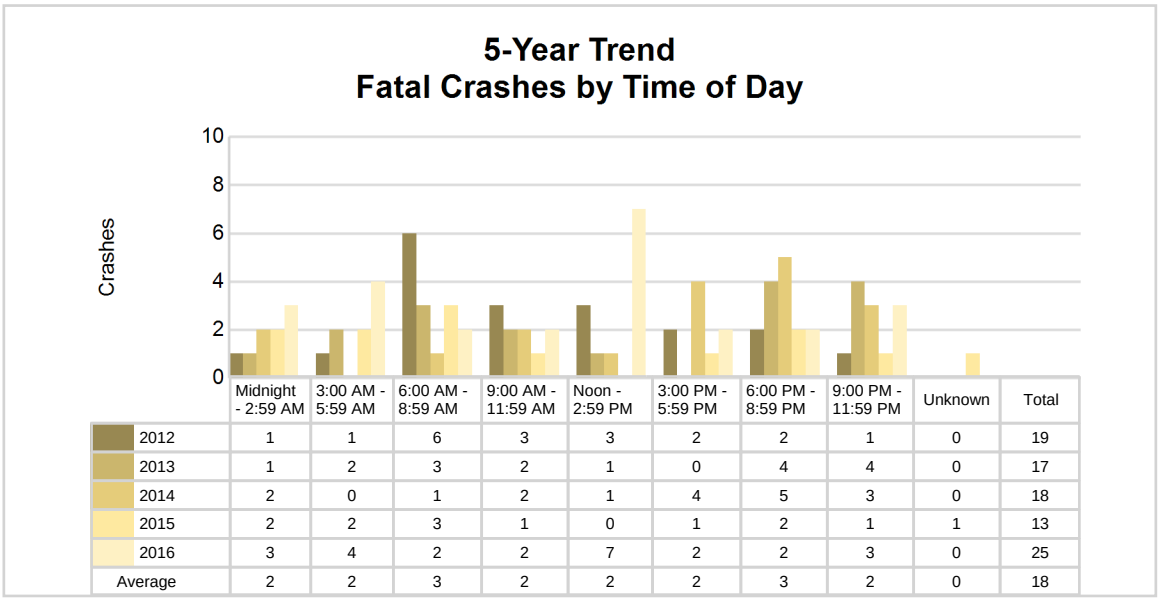
5-Year Trend - Crashes by Time of Day

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	343	1	387	1	337	2	329	2	353	3
3:00 AM - 5:59 AM	280	1	266	2	292	0	258	2	264	4
6:00 AM - 8:59 AM	1,053	6	1,149	3	1,254	1	1,245	3	1,360	2
9:00 AM - 11:59 AM	1,056	3	1,106	2	1,343	2	1,192	1	1,345	2
Noon - 2:59 PM	1,530	3	1,558	1	1,619	1	1,709	0	1,854	7
3:00 PM - 5:59 PM	2,009 †	2	2,056 †	0	2,210 †	4	2,406 †	1	2,449 †	2
6:00 PM - 8:59 PM	1,292	2	1,347	4	1,280	5	1,384	2	1,448	2
9:00 PM - 11:59 PM	681	1	746	4	708	3	751	1	742	3
Unknown	7	0	81	0	71	0	76	1	132	0
Total	**8,251**	**19**	**8,696**	**17**	**9,114**	**18**	**9,350**	**13**	**9,947**	**25**

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



	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
2012	343	280	1,053	1,056	1,530	2,009	1,292	681	7	8,251
2013	387	266	1,149	1,106	1,558	2,056	1,347	746	81	8,696
2014	337	292	1,254	1,343	1,619	2,210	1,280	708	71	9,114
2015	329	258	1,245	1,192	1,709	2,406	1,384	751	76	9,350
2016	353	264	1,360	1,345	1,854	2,449	1,448	742	132	9,947
Average	350	272	1,212	1,208	1,654	2,226	1,350	726	73	9,072

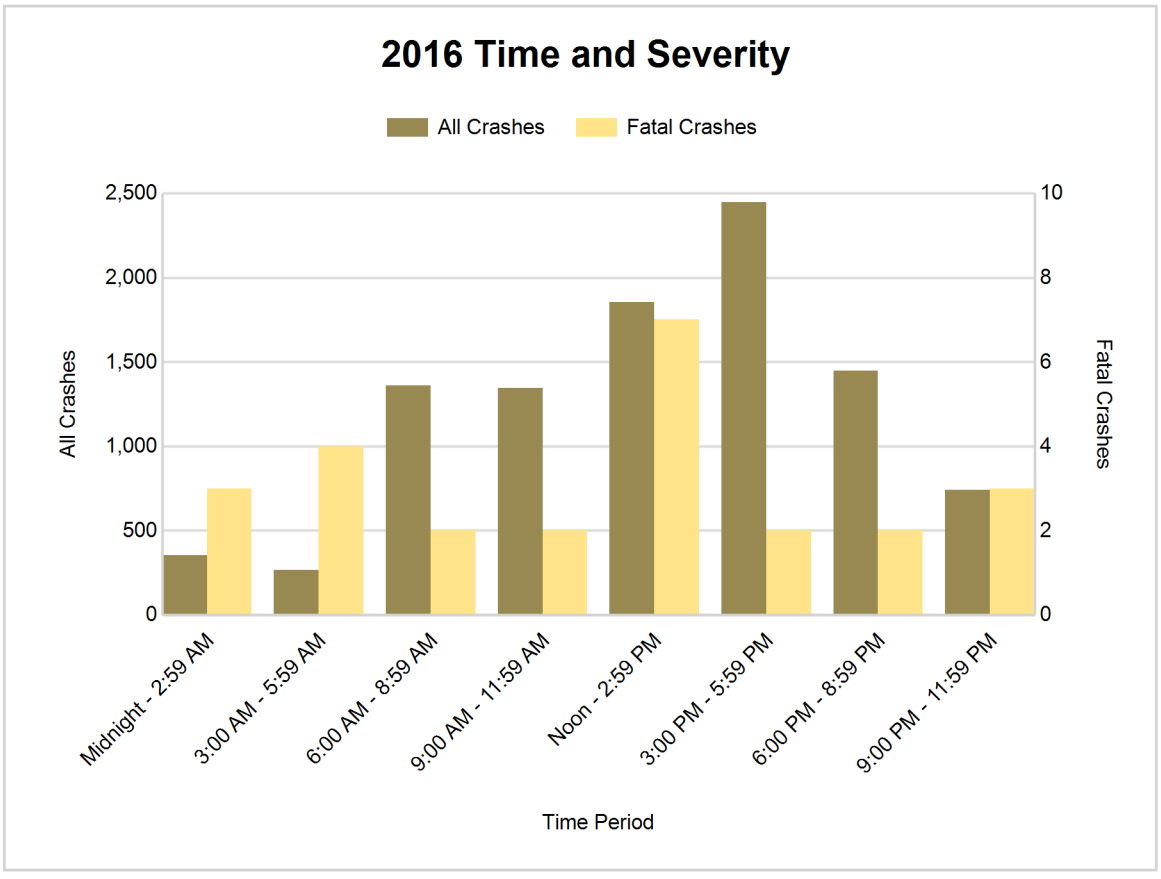


	Midnight - 2:59 AM	3:00 AM - 5:59 AM	6:00 AM - 8:59 AM	9:00 AM - 11:59 AM	Noon - 2:59 PM	3:00 PM - 5:59 PM	6:00 PM - 8:59 PM	9:00 PM - 11:59 PM	Unknown	Total
2012	1	1	6	3	3	2	2	1	0	19
2013	1	2	3	2	1	0	4	4	0	17
2014	2	0	1	2	1	4	5	3	0	18
2015	2	2	3	1	0	1	2	1	1	13
2016	3	4	2	2	7	2	2	3	0	25
Average	2	2	3	2	2	2	3	2	0	18

Ingham County (continued)

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	353	3.5	3	12.0	10	23	38	279
3:00 AM - 5:59 AM	264	2.7	4	16.0	6	19	28	207
6:00 AM - 8:59 AM	1,360	13.7	2	8.0	18	42	162	1,136
9:00 AM - 11:59 AM	1,345	13.5	2	8.0	11	54	190	1,088
Noon - 2:59 PM	1,854	18.6	7	28.0	22	71	287	1,467
3:00 PM - 5:59 PM	2,449	24.6	2	8.0	35	99	367	1,946
6:00 PM - 8:59 PM	1,448	14.6	2	8.0	27	68	179	1,172
9:00 PM - 11:59 PM	742	7.5	3	12.0	7	39	96	597
Unknown	132	1.3	0	0.0	1	3	24	104
Total	**9,947**	**100.0**	**25**	**100.0**	**137**	**418**	**1,371**	**7,996**

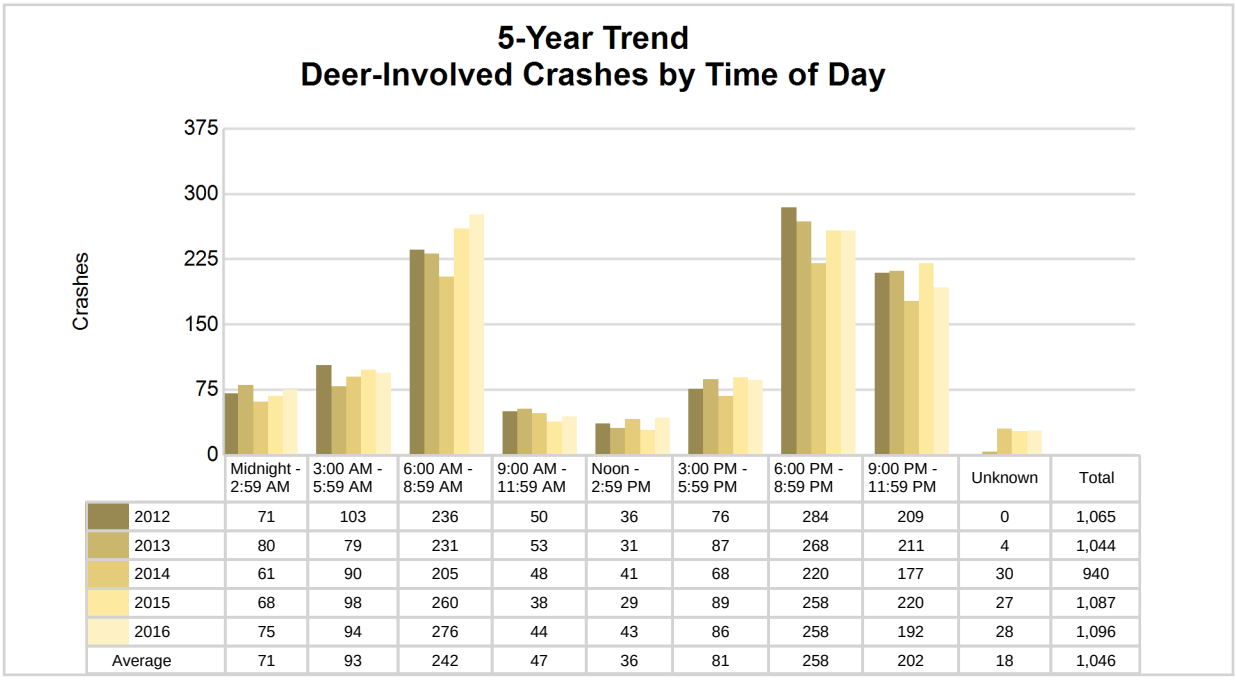


Ingham County (continued)

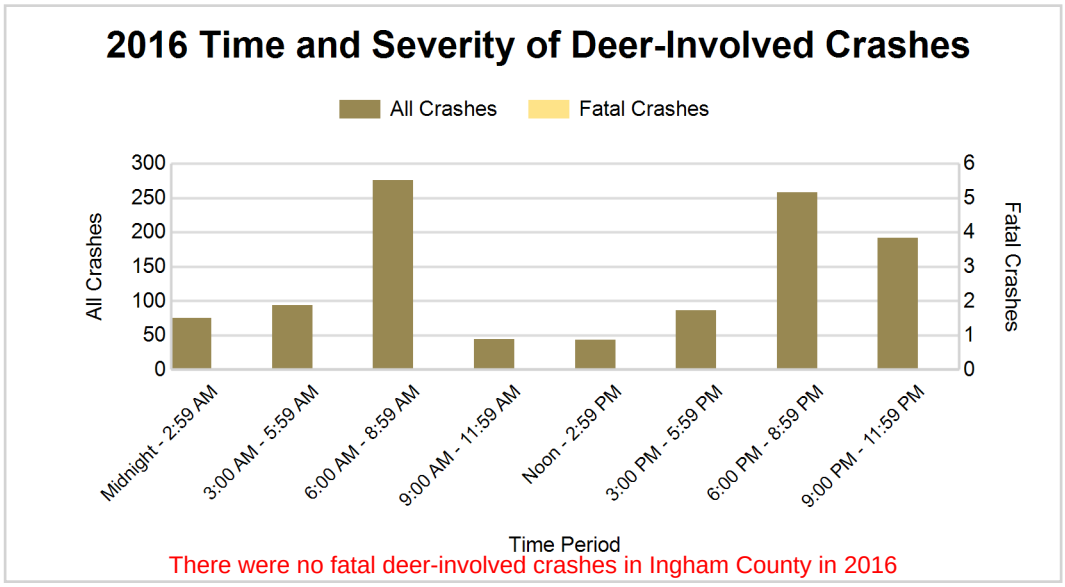
5-Year Trend - Deer-Involved Crashes by Time of Day

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	71	0	80	0	61	0	68	0	75	0
3:00 AM - 5:59 AM	103	0	79	0	90	0	98	1	94	0
6:00 AM - 8:59 AM	236	0	231	0	205	0	260	0	276	0
9:00 AM - 11:59 AM	50	0	53	0	48	0	38	0	44	0
Noon - 2:59 PM	36	0	31	0	41	0	29	0	43	0
3:00 PM - 5:59 PM	76	0	87	0	68	0	89	0	86	0
6:00 PM - 8:59 PM	284	0	268	0	220	0	258	0	258	0
9:00 PM - 11:59 PM	209	0	211	0	177	0	220	0	192	0
Unknown	0	0	4	0	30	0	27	0	28	0
Total	**1,065**	**0**	**1,044**	**0**	**940**	**0**	**1,087**	**1**	**1,096**	**0**

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



	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
2012	71	103	236	50	36	76	284	209	0	1,065
2013	80	79	231	53	31	87	268	211	4	1,044
2014	61	90	205	48	41	68	220	177	30	940
2015	68	98	260	38	29	89	258	220	27	1,087
2016	75	94	276	44	43	86	258	192	28	1,096
Average	71	93	242	47	36	81	258	202	18	1,046



There were no fatal deer-involved crashes in Ingham County in 2016

Ingham County (continued)

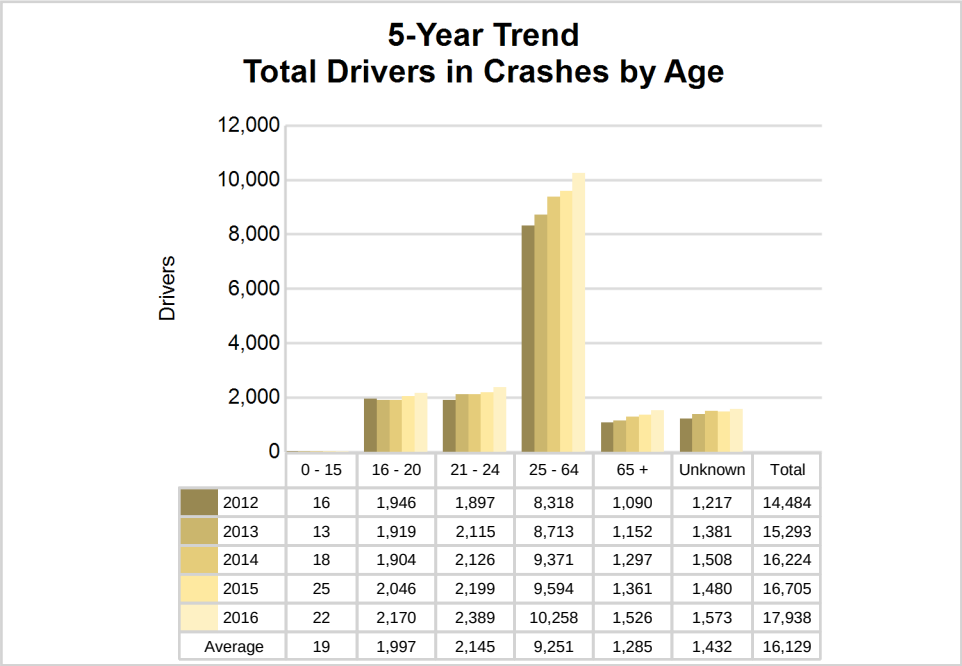
2016 - Reported Motor Vehicle Crashes by Municipality

Municipality	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Alaiedon Twp.	298	3	38	257	140	65	0	93	4	1	80	3	73
Aurelius Twp.	99	1	13	85	0	0	0	99	3	0	52	1	23
Bunker Hill Twp.	35	0	7	28	0	0	0	35	1	0	23	0	10
Dansville	1	0	0	1	0	0	0	1	0	0	0	0	0
Delhi Twp.	546	1	101	444	86	20	33	407	19	6	92	1	140
East Lansing	1,536	0	284	1,252	226	76	397	837	40	6	45	0	357
Ingham Twp.	54	0	9	45	0	0	9	45	1	0	32	0	13
Lansing	4,359	9	941	3,409	1,207	4	950	2,196	140	41	82	9	1,303
Lansing Twp.	748	1	156	591	57	196	302	193	22	5	22	1	203
Leroy Twp.	167	2	36	129	116	0	33	18	3	1	44	2	56
Leslie	17	0	4	13	0	0	0	17	2	2	0	0	5
Leslie Twp.	102	0	15	87	0	45	0	57	3	1	48	0	24
Locke Twp.	52	1	11	40	0	0	17	35	2	0	30	1	18
Mason	182	1	29	152	0	27	58	97	8	5	23	1	37
Meridian Twp.	988	0	172	816	35	0	228	724	27	4	164	0	233
Onondaga Twp.	96	2	18	76	0	0	2	94	8	3	61	2	28
Stockbridge	22	0	3	19	0	0	20	2	0	0	5	0	4
Stockbridge Twp.	64	0	12	52	0	0	42	22	2	0	37	0	13
Vevay Twp.	167	2	29	136	0	48	12	107	6	1	66	2	46
Webberville	21	0	4	17	0	0	11	10	0	0	2	0	5
Wheatfield Twp.	135	0	19	116	81	0	0	54	4	1	51	0	22
White Oak Twp.	66	0	5	61	0	0	34	32	1	0	53	0	6
Williamston	42	0	4	38	0	0	19	23	2	1	3	0	5
Williamstown Twp.	150	2	16	132	0	0	31	119	5	2	81	3	29
Unknown Community	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	**9,947**	**25**	**1,926**	**7,996**	**1,948**	**481**	**2,198**	**5,317**	**303**	**80**	**1,096**	**26**	**2,653**

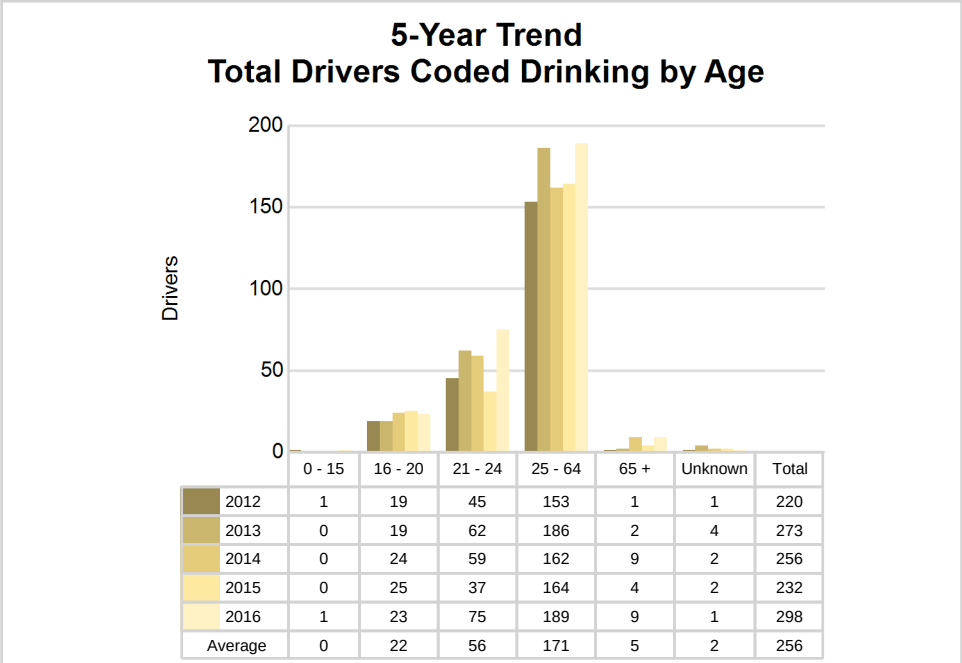
Ingham County (continued)

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	16	1	13	0	18	0	25	0	22	1
16 - 20	1,946	19	1,919	19	1,904	24	2,046	25	2,170	23
21 - 24	1,897	45	2,115	62	2,126	59	2,199	37	2,389	75
25 - 64	8,318	153	8,713	186	9,371	162	9,594	164	10,258	189
65 +	1,090	1	1,152	2	1,297	9	1,361	4	1,526	9
Unknown	1,217	1	1,381	4	1,508	2	1,480	2	1,573	1
Total	**14,484**	**220**	**15,293**	**273**	**16,224**	**256**	**16,705**	**232**	**17,938**	**298**



	0 - 15	16 - 20	21 - 24	25 - 64	65 +	Unknown	Total
2012	16	1,946	1,897	8,318	1,090	1,217	14,484
2013	13	1,919	2,115	8,713	1,152	1,381	15,293
2014	18	1,904	2,126	9,371	1,297	1,508	16,224
2015	25	2,046	2,199	9,594	1,361	1,480	16,705
2016	22	2,170	2,389	10,258	1,526	1,573	17,938
Average	19	1,997	2,145	9,251	1,285	1,432	16,129



	0 - 15	16 - 20	21 - 24	25 - 64	65 +	Unknown	Total
2012	1	19	45	153	1	1	220
2013	0	19	62	186	2	4	273
2014	0	24	59	162	9	2	256
2015	0	25	37	164	4	2	232
2016	1	23	75	189	9	1	298
Average	0	22	56	171	5	2	256

Ingham County (continued)

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	1	1	1	1	0	0	0	0	1
16 - 20	39	33	21	23	0	4	4	1	14
21 - 24	98	77	68	75	1	4	20	27	23
25 - 64	272	215	161	189	2	12	38	43	94
65 +	16	13	7	9	0	1	1	1	6
Unknown	40	1	0	1	0	0	0	0	1
Total	**466**	**340**	**258**	**298**	**3**	**21**	**63**	**72**	**139**

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

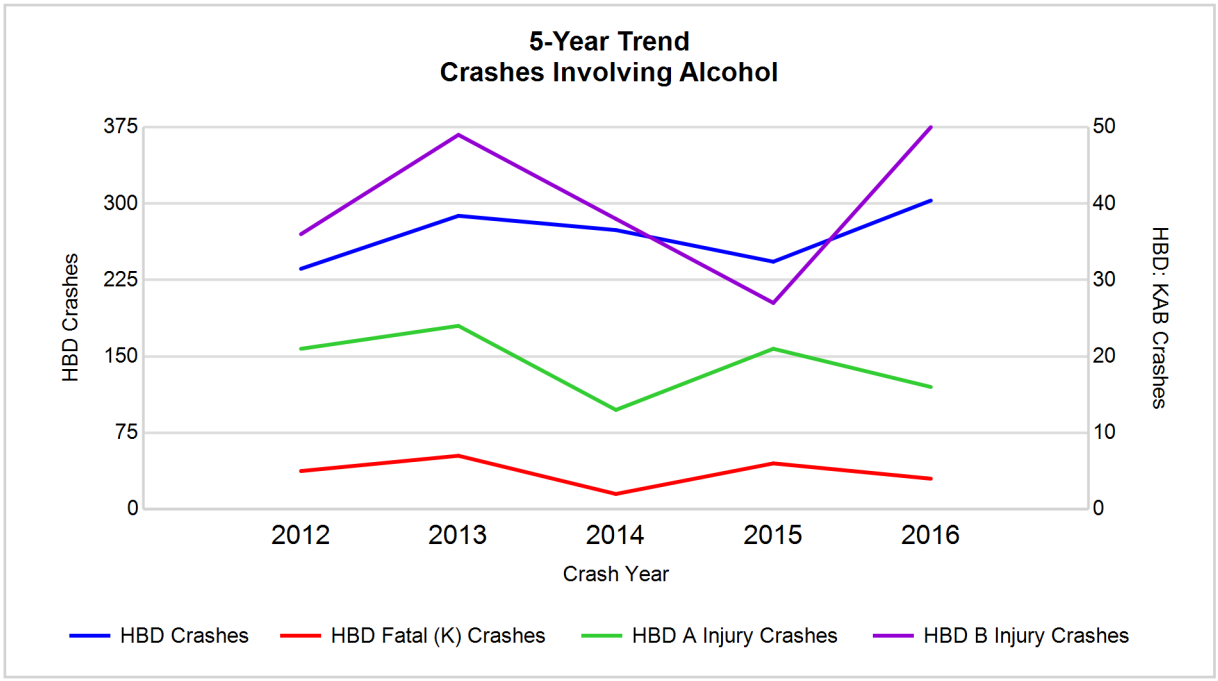
In 2016, there were 466 drivers in alcohol-involved crashes; 298 (63.9%) of those drivers were coded as had-been-drinking by the officer on the crash form.

- 135 (45.3%) of the 298 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 72 (53.3%) of the 135 drivers had a BAC at or above 0.17 g/dL.
- 258 (86.6%) of the 298 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	8,251	236	2.9	19	5	26.3	120	21	17.5	320	36	11.3
2013	8,696	288	3.3	17	7	41.2	122	24	19.7	377	49	13.0
2014	9,114	274	3.0	18	2	11.1	118	13	11.0	325	38	11.7
2015	9,350	243	2.6	13	6	46.2	136	21	15.4	338	27	8.0
2016	9,947**	303**	3.0	25**	4	16.0	137**	16	11.7	418**	50**	12.0

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



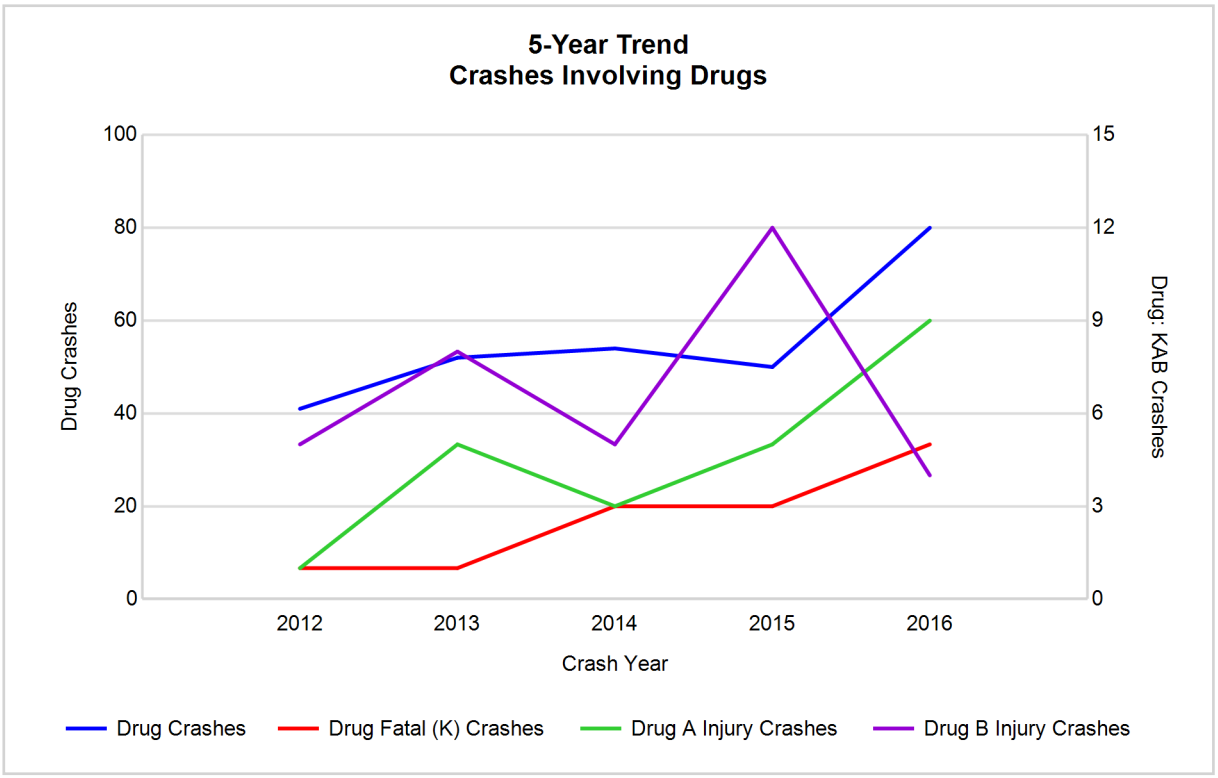
Note: Had-Been-Drinking (HBD)

Ingham 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
2012	8,251	41	0.5	19	1	5.3	120	1	0.8	320	5	1.6
2013	8,696	52	0.6	17	1	5.9	122	5	4.1	377	8	2.1
2014	9,114	54	0.6	18	3	16.7	118	3	2.5	325	5	1.5
2015	9,350	50	0.5	13	3	23.1	136	5	3.7	338	12	3.6
2016	9,947**	80**	0.8**	25**	5**	20.0	137**	9**	6.6**	418**	4*	1.0*

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

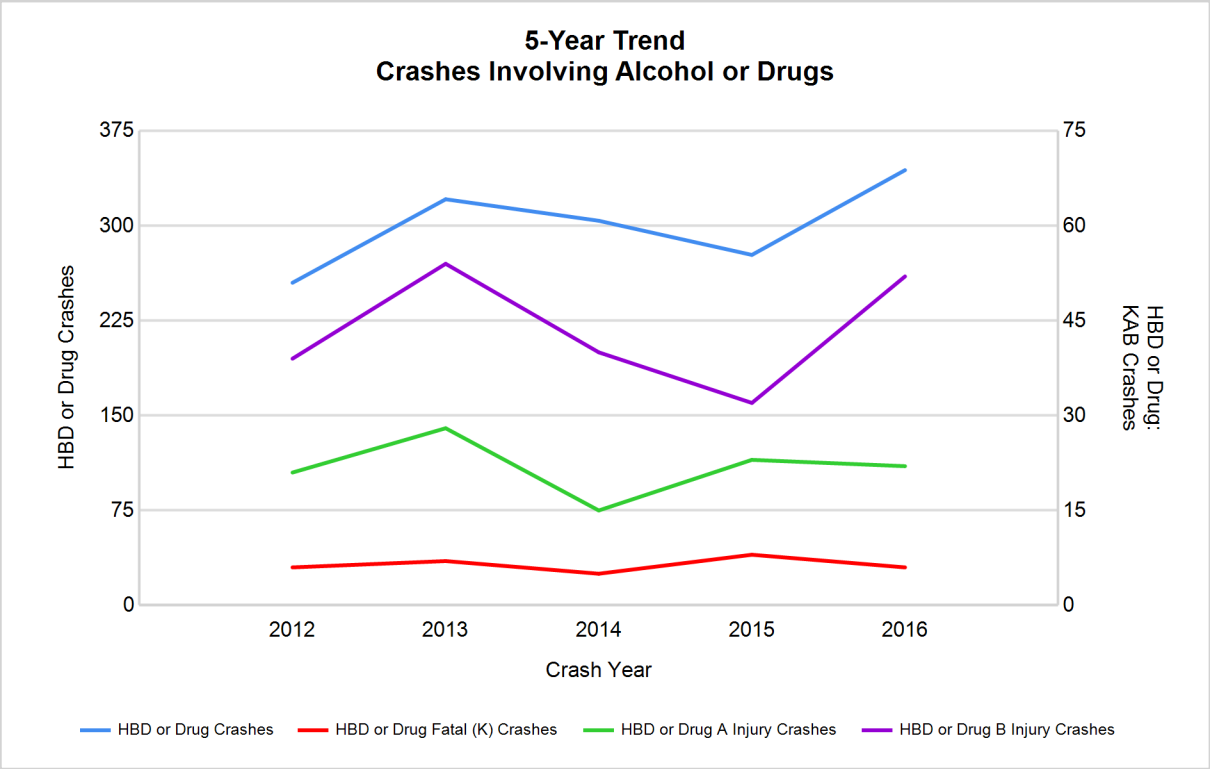


Ingham County (continued)

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	8,251	255	3.1	19	6	31.6	120	21	17.5	320	39	12.2
2013	8,696	321	3.7	17	7	41.2	122	28	23.0	377	54	14.3
2014	9,114	304	3.3	18	5	27.8	118	15	12.7	325	40	12.3
2015	9,350	277	3.0	13	8	61.5	136	23	16.9	338	32	9.5
2016	9,947**	344**	3.5	25**	6	24.0*	137**	22	16.1	418**	52	12.4

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)

Ingham County (continued)

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	15,570	14,151	90.9	17	9	52.9	110	92	83.6	368	343	93.2	1,642	1,588	96.7	12,268	11,930	97.2
Motor home	276	253	91.7	0	0	0.0	0	0	0.0	4	4	100.0	26	24	92.3	233	225	96.6
Pickup truck	1,448	1,265	87.4	3	1	33.3	8	4	50.0	30	25	83.3	112	104	92.9	1,168	1,124	96.2
Small truck under 10,000 lbs. GVWR	233	216	92.7	0	0	0.0	2	2	100.0	2	2	100.0	24	22	91.7	192	188	97.9
Motorcycle	96	48	50.0	5	2	40.0	23	14	60.9	28	21	75.0	17	6	35.3	16	5	31.3
Moped / goped	39	0	0.0	0	0	0.0	3	0	0.0	15	0	0.0	12	0	0.0	6	0	0.0
Go-cart / golf cart	1	1	100.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	1	1	100.0
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	4	3	75.0	1	1	100.0	1	1	100.0	0	0	0.0	2	1	50.0	0	0	0.0
Other	132	107	81.1	0	0	0.0	0	0	0.0	4	2	50.0	12	8	66.7	89	80	89.9
Truck/bus over 10,000 lbs.	411	362	88.1	0	0	0.0	0	0	0.0	5	0	0.0	26	11	42.3	361	344	95.3
Unknown	365	9	2.5	0	0	0.0	0	0	0.0	0	0	0.0	1	1	100.0	17	8	47.1
Total	**18,575**	**16,415**	**88.4**	**26**	**13**	**0.0**	**147**	**113**	**76.9**	**456**	**397**	**87.1**	**1,874**	**1,765**	**94.2**	**14,351**	**13,905**	**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	204	187	91.7	3	1	33.3	10	8	80.0	20	17	85.0	150	141	94.0	19	18	94.7
16 - 20	2,249	2,158	96.0	1	1	100.0	20	13	65.0	69	57	82.6	218	201	92.2	1,920	1,867	97.2
21 - 24	2,451	2,358	96.2	2	1	50.0	21	15	71.4	70	60	85.7	208	189	90.9	2,112	2,063	97.7
25 - 64	10,514	10,151	96.5	13	6	46.2	80	61	76.3	258	226	87.6	1,110	1,052	94.8	8,870	8,656	97.6
65 +	1,582	1,542	97.5	7	4	57.1	16	16	100.0	39	37	94.9	186	181	97.3	1,311	1,285	98.0
Unknown	1,575	19	1.2	0	0	0.0	0	0	0.0	0	0	0.0	2	1	50.0	119	16	13.4
Total	**18,575**	**16,415**	**88.4**	**26**	**13**	**0.0**	**147**	**113**	**76.9**	**456**	**397**	**87.1**	**1,874**	**1,765**	**94.2**	**14,351**	**13,905**	**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.

Ingham County (continued)

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	57	0	10	57	0	10	53	0	7	51	0	7	46	0	12
Shoulder belt only used	4	0	0	12	0	3	11	0	1	10	0	3	41	0	5
Lap belt only used	51	0	4	46	0	5	74	0	5	68	1	6	42	0	2
Both lap & shoulder belts used	12,781	5	1,294	13,467	5	1,323	14,177	6	1,332	14,628	3	1,395	15,707	7	1,670
No belts used	52	2	20	54	3	21	58	0	18	85	3	18	83	7	23
Child restraint used	0	0	0	1	0	0	0	0	0	0	0	0	5	0	1
Child restraint not used, unavailable or improper use	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0
Restraint failure	5	0	1	2	0	0	2	0	0	6	0	2	6	0	0
Restraint use unknown	354	3	23	342	1	31	377	1	19	360	1	35	1,266	1	46
Helmet worn	63	2	36	78	1	54	65	2	46	56	0	37	48	3	40
Helmet not worn	46	2	36	30	3	19	40	3	29	49	2	37	58	3	43
Helmet use unknown	9	0	5	8	0	4	7	1	1	11	1	3	15	0	8
Uncoded & errors	1,061	0	2	1,196	0	0	1,359	0	3	1,380	0	1	621	0	1
Total	**14,484**	**14**	**1,431**	**15,293**	**13**	**1,470**	**16,224**	**13**	**1,461**	**16,705**	**11**	**1,544**	**17,938**	**21**	**1,851**

5-Year Trend - Restraint Use Among Drivers Coded Drinking

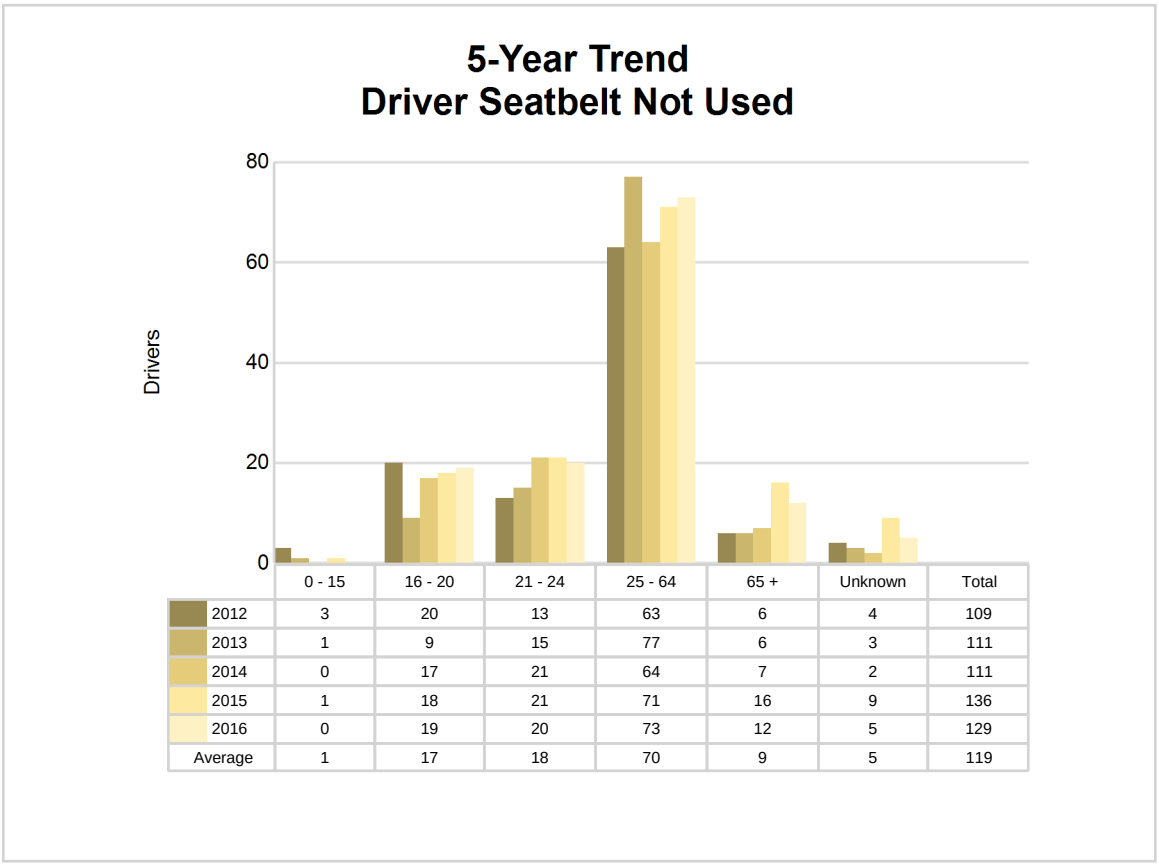
Restraint Use	2012			2013			2014			2015			2016		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	2	0	0	0	0	0	1	0	1	1	0	1	1	0	1
Shoulder belt only used	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lap belt only used	0	0	0	1	0	0	2	0	0	1	1	0	0	0	0
Both lap & shoulder belts used	172	1	53	212	2	67	206	2	54	168	0	51	235	1	73
No belts used	8	1	5	7	0	4	7	0	3	8	2	5	12	2	8
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	1	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	30	1	10	39	0	15	34	0	8	44	0	10	41	0	17
Helmet worn	3	0	3	3	0	1	1	0	1	2	0	1	0	0	0
Helmet not worn	3	1	2	8	3	5	2	0	2	7	1	5	6	1	3
Helmet use unknown	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0
Uncoded & errors	2	0	0	3	0	0	2	0	0	0	0	0	2	0	0
Total	**220**	**4**	**73**	**273**	**5**	**92**	**256**	**2**	**69**	**232**	**5**	**73**	**298**	**4**	**102**

Ingham County (continued)

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	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0
16 - 20	20	0	10	9	1	1	17	0	5	18	0	5	19	0	5
21 - 24	13	0	3	15	0	7	21	0	4	21	0	3	20	1	7
25 - 64	63	2	15	77	1	23	64	0	13	71	2	16	73	3	19
65 +	6	0	2	6	1	0	7	0	3	16	1	1	12	3	4
Unknown	4	0	0	3	0	0	2	0	0	9	0	0	5	0	0
Total	**109**	**2**	**30**	**111**	**3**	**31**	**111**	**0**	**25**	**136**	**3**	**25**	**129**	**7**	**35**

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



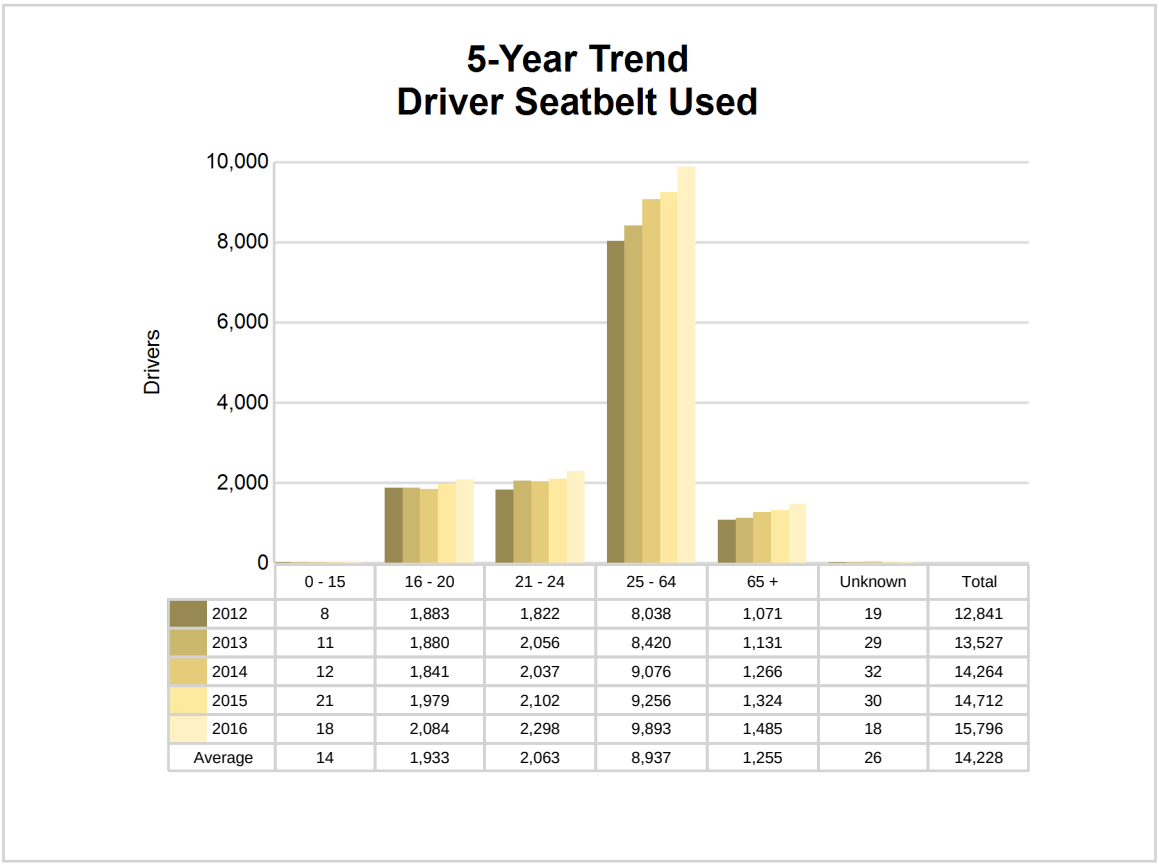
	0 - 15	16 - 20	21 - 24	25 - 64	65 +	Unknown	Total
2012	3	20	13	63	6	4	109
2013	1	9	15	77	6	3	111
2014	0	17	21	64	7	2	111
2015	1	18	21	71	16	9	136
2016	0	19	20	73	12	5	129
Average	1	17	18	70	9	5	119

Ingham County (continued)

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	8	0	3	11	0	0	12	0	1	21	0	3	18	0	0
16 - 20	1,883	1	153	1,880	0	151	1,841	1	137	1,979	1	176	2,084	1	200
21 - 24	1,822	0	184	2,056	3	171	2,037	0	196	2,102	1	183	2,298	0	208
25 - 64	8,038	2	826	8,420	1	853	9,076	4	876	9,256	1	916	9,893	3	1,090
65 +	1,071	2	133	1,131	1	156	1,266	1	128	1,324	1	128	1,485	3	179
Unknown	19	0	0	29	0	0	32	0	0	30	0	0	18	0	0
Total	**12,841**	**5**	**1,299**	**13,527**	**5**	**1,331**	**14,264**	**6**	**1,338**	**14,712**	**4**	**1,406**	**15,796**	**7**	**1,677**

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



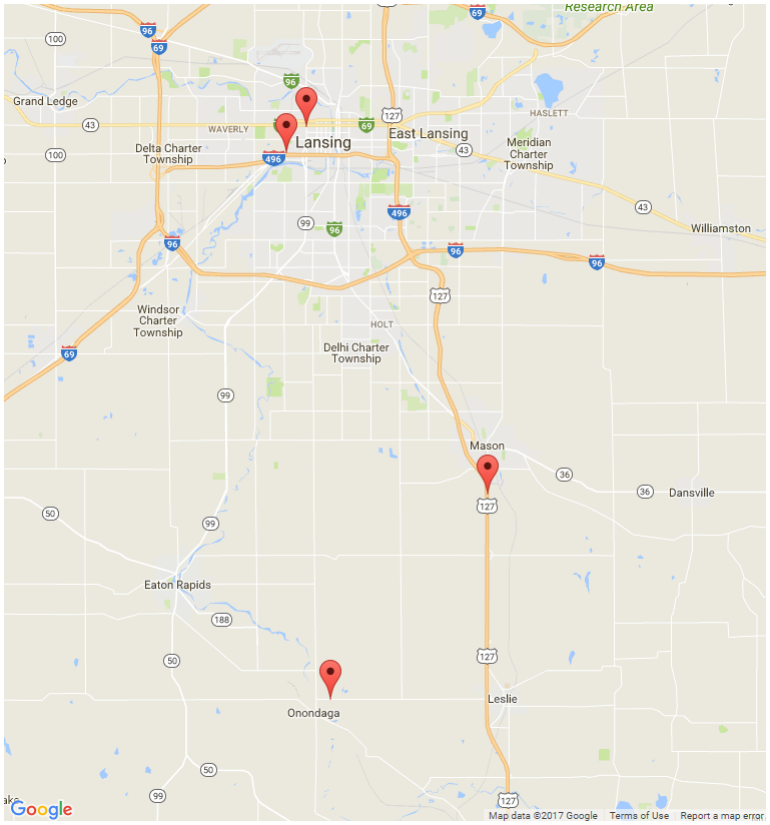
	0 - 15	16 - 20	21 - 24	25 - 64	65 +	Unknown	Total
2012	8	1,883	1,822	8,038	1,071	19	12,841
2013	11	1,880	2,056	8,420	1,131	29	13,527
2014	12	1,841	2,037	9,076	1,266	32	14,264
2015	21	1,979	2,102	9,256	1,324	30	14,712
2016	18	2,084	2,298	9,893	1,485	18	15,796
Average	14	1,933	2,063	8,937	1,255	26	14,228

Ingham County (continued)

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	7,631	10	8,097	12	8,526	11	8,835	7	9,208	20
Speed too fast	643	3	653	3	877	3	679	1	741	6
Speed too slow	11	0	12	0	10	0	21	0	15	0
Failed to yield	1,505	3	1,529	2	1,582	5	1,554	1	1,753	3
Disregard traffic control	411	1	430	0	463	1	544	3	546	2
Drove wrong way	16	0	23	0	37	1	25	1	29	0
Drove left of center	41	1	50	0	58	0	67	1	53	0
Improper passing	49	0	60	1	80	1	78	0	92	0
Improper lane use	335	0	365	1	421	0	445	0	504	0
Improper turn	225	0	216	0	239	0	273	0	275	1
Improper/no signal	19	0	20	0	20	0	39	0	23	0
Improper backing	304	0	315	0	344	0	327	0	326	0
Unable to stop in assured clear distance	2,129	3	2,278	0	2,282	0	2,396	0	2,743	2
Other	305	1	336	2	403	1	372	1	374	1
Unknown	420	2	422	2	394	1	491	4	704	5
Reckless driving	59	1	88	3	68	2	76	0	64	1
Careless/negligent driving	288	0	291	3	308	3	326	1	318	3
Uncoded & errors	93	2	108	0	112	1	157	0	170	1
Total	**14,484**	**27**	**15,293**	**29**	**16,224**	**30**	**16,705**	**20**	**17,938**	**45**

Ingham County (continued)



The picture above represents all 2016 alcohol-involved fatal crashes in Ingham County.

In 2016, there were 303 alcohol-involved crashes in Ingham County:

4	K - Fatal Crashes
16	A - Suspected Serious Injury Crashes
50	B - Suspected Minor Injury Crashes
67	C - Possible Injury Crashes
166	O - Property Damage Only/No Injury Crashes

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