



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)



Governor's Prosperity Region - East Central Michigan Prosperity Region

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

Prosperity Region - 5 is comprised of Arenac, Bay, Clare, Gladwin, Gratiot, Isabella, Midland, and Saginaw counties. Trend tables for this report are based on those counties.

5. East Central Prosperity Region



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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East Central Michigan Prosperity Region Experience

The 2016* comprehensive cost of traffic crashes was **\$2,375,000,000.** ** Fatalities cost **\$475,000,000**, injuries cost **\$1,185,000,000**, and 'Property Damage Only' crashes cost **\$720,000,000.**

In 2016:

There were 27,547 drivers involved in 18,179 motor vehicle crashes in East Central Michigan Prosperity Region. Of those crashes, 38 were classified as fatal, resulting in 46 fatalities. An additional 4,271 persons were injured.

East Central Michigan Prosperity Region experienced the highest number of motor vehicle crashes (1,990) in November, the highest number of fatal crashes (5) and the highest number of persons killed (7) in August.

Michigan driver statistics indicate 6.6 percent of licensed drivers in East Central Michigan Prosperity Region were age 16-20, and 13.0 percent of drivers in crashes were also in that age group.

* 2016 National Safety Council data for average costs of motor vehicle crashes were used for this report.

** Cost estimates derived from the National Safety Council are approximations and have been rounded to the nearest \$5,000,000. With rounding, the total cost may not equal the sum of all crash types.

2016 - Crashes and Injuries by Month

Month	Crashes				Persons	
	Total	Fatal	Injury	Property Damage Only (PDO)	Fatalities	Injuries
January	1,735	4	237	1,494	4	326
February	1,609	2	211	1,396	3	288
March	1,351	2	219	1,130	2	296
April	1,194	1	200	993	1	272
May	1,269	3	246	1,020	3	343
June	1,366	4	248	1,114	6	363
July	1,273	4	289	980	4	401
August	1,231	5	299	927	7	414
September	1,403	2	289	1,112	2	420
October	1,796	3	264	1,529	4	384
November	1,990	4	271	1,715	4	391
December	1,962	4	267	1,691	6	373
Total	18,179	38	3,040	15,101	46	4,271

2016 - Driver Statistics

Age Group	East Central Michigan Prosperity Region			Driver Rates	
	2016 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	101,118	2,919	53	5.2	181.6
16 - 20	42,558	26,567	3,580	841.2	1,347.5
21 - 24	35,541	25,801	2,916	820.5	1,130.2
25 - 64	282,206	256,039	16,437	582.4	642.0
65 +	102,198	92,233	3,251	318.1	352.5
Unknown	0	0	1,310	- -	- -
Total	563,621	403,559	27,547	488.8	682.6

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	21,362	77.5	37	62.7	3,946	17,379
Motor home	461	1.7	2	3.4	73	386
Pickup truck	4,345	15.8	8	13.6	787	3,550
Small truck under 10,000 lbs. GVWR	240	0.9	0	0.0	45	195
Motorcycle	217	0.8	8	13.6	174	35
Moped / goped	17	0.1	0	0.0	14	3
Go-cart / golf cart	5	0.0	0	0.0	3	2
Snowmobile	4	0.0	0	0.0	2	2
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	35	0.1	1	1.7	28	6
Other	121	0.4	1	1.7	20	100
Truck/bus over 10,000 lbs.	435	1.6	2	3.4	70	363
Unknown	305	1.1	0	0.0	31	274
Total	27,547	100.0	59	100.0	5,193	22,295

East Central Michigan Prosperity Region (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	1,804	1	1,624	4	1,994	3	1,797	3	1,735	4
February	1,590	3	1,626	4	1,552	5	1,291	2	1,609	2
March	1,118	9	1,372	5	1,328	3	1,194	2	1,351	2
April	1,013	3	1,208	2	1,020	4	1,119	5	1,194	1
May	1,300	4	1,342	8	1,147	0	1,321	7	1,269	3
June	1,237	4	1,247	5	1,348	8	1,324	7	1,366	4
July	1,148	6	1,111	7	1,119	4	1,215	15	1,273	4
August	1,135	7	1,191	4	1,082	6	1,106	6	1,231	5
September	1,378	9	1,357	5	1,290	2	1,292	6	1,403	2
October	1,848	10	1,770	3	1,837	2	1,934	6	1,796	3
November	1,916 †	5	2,252 †	3	2,213 †	5	2,113 †	10	1,990 †	4
December	1,607	5	2,026	4	1,365	3	1,497	5	1,962	4
Total	17,094	66	18,126	54	17,295	45	17,203	74	18,179	38

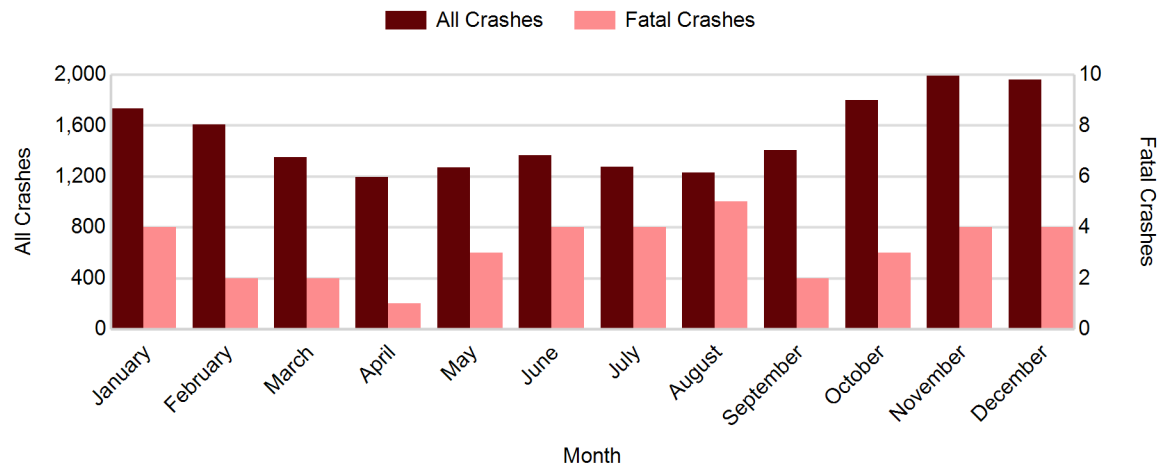
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

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	2,299	7	2,710	6	2,300	5	2,525	9	2,581	5
Tuesday	2,432	12	2,754	6	2,454	6	2,593	14	2,690	5
Wednesday	2,405	6	2,583	6	2,756	3	2,588	10	2,946	4
Thursday	2,564	9	2,794	3	2,571	6	2,501	6	2,623	7
Friday	3,259	12	2,888	7	3,065	7	2,696	14	2,941	8
Saturday	2,129	10	2,324	16	2,182	8	2,318	13	2,289	6
Sunday	2,006	10	2,073	10	1,967	10	1,982	8	2,109	3
Total	17,094	66	18,126	54	17,295	45	17,203	74	18,179	38

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

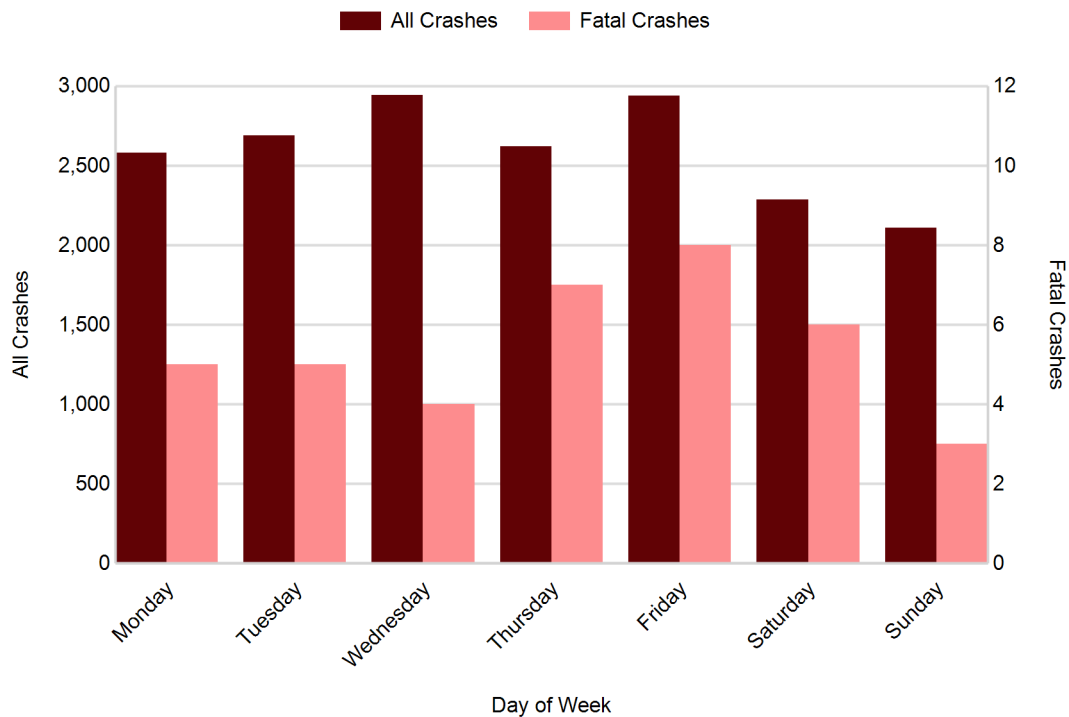
2016 Crashes by Month



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	2,581	14.2	5	13.2	56	105	295	2,120
Tuesday	2,690	14.8	5	13.2	39	112	286	2,248
Wednesday	2,946	16.2	4	10.5	44	130	322	2,446
Thursday	2,623	14.4	7	18.4	37	109	263	2,207
Friday	2,941	16.2	8	21.1	46	143	309	2,435
Saturday	2,289	12.6	6	15.8	57	108	226	1,892
Sunday	2,109	11.6	3	7.9	57	100	196	1,753
Total	18,179	100.0	38	100.0	336	807	1,897	15,101

2016 Day of Week and Severity

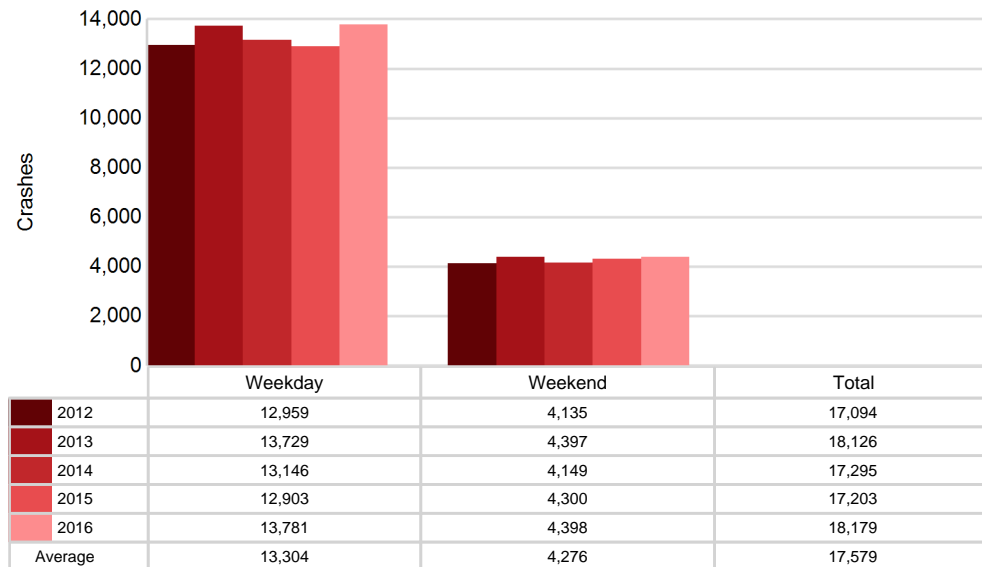


East Central Michigan Prosperity Region (continued)

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	12,959	46	13,729	28	13,146	27	12,903	53	13,781	29
Weekend	4,135	20	4,397	26	4,149	18	4,300	21	4,398	9
Total	17,094	66	18,126	54	17,295	45	17,203	74	18,179	38

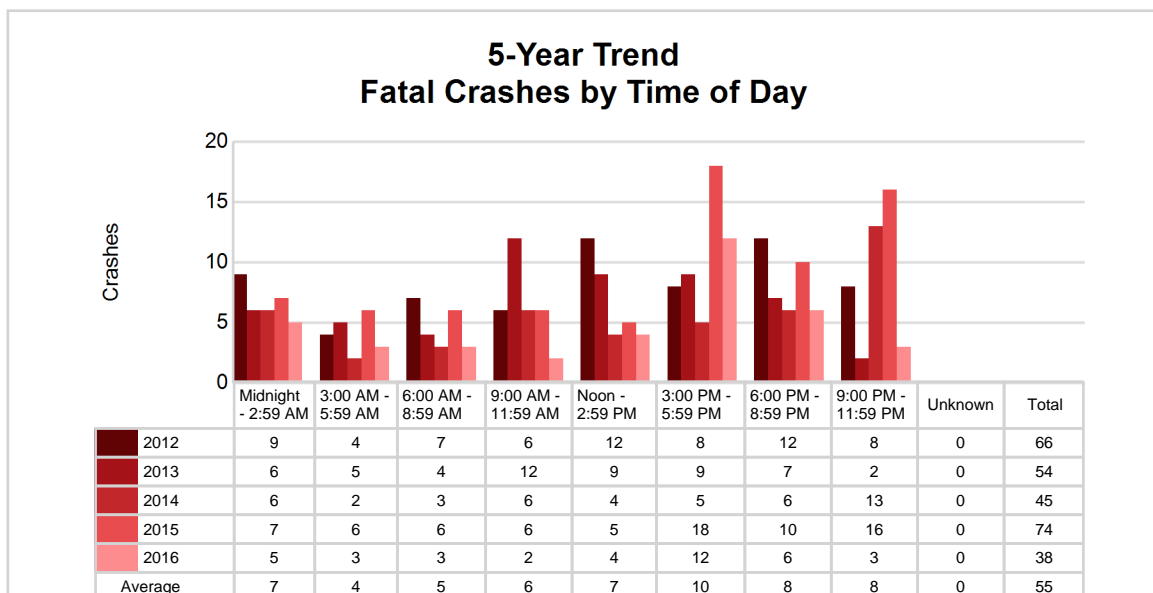
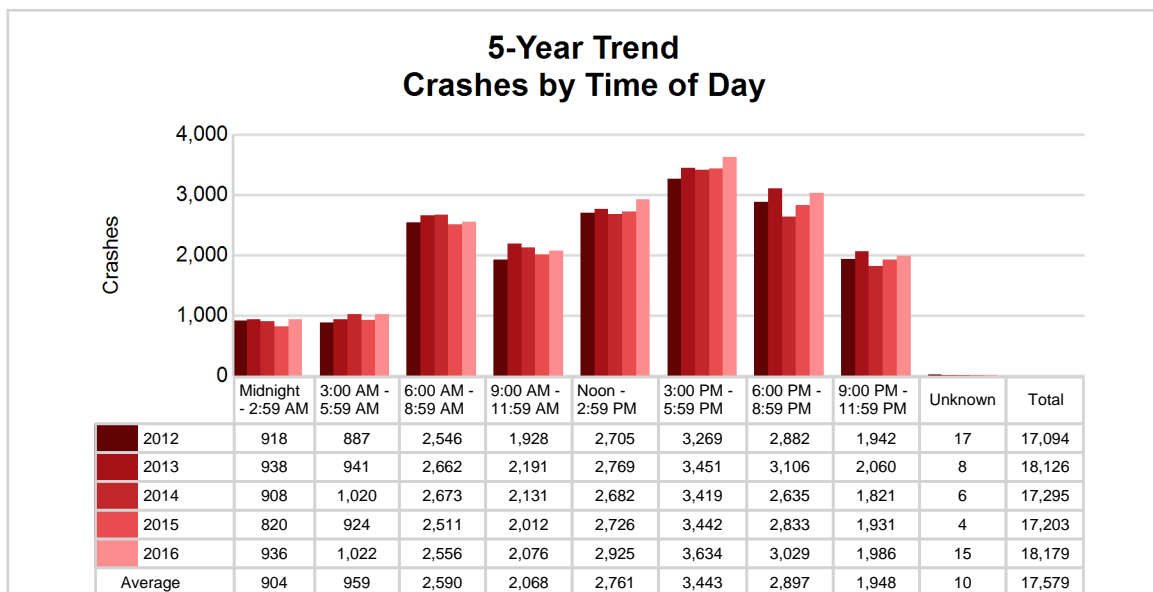
5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



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	918	9	938	6	908	6	820	7	936	5
3:00 AM - 5:59 AM	887	4	941	5	1,020	2	924	6	1,022	3
6:00 AM - 8:59 AM	2,546	7	2,662	4	2,673	3	2,511	6	2,556	3
9:00 AM - 11:59 AM	1,928	6	2,191	12	2,131	6	2,012	6	2,076	2
Noon - 2:59 PM	2,705	12	2,769	9	2,682	4	2,726	5	2,925	4
3:00 PM - 5:59 PM	3,269 †	8	3,451 †	9	3,419 †	5	3,442 †	18	3,634 †	12
6:00 PM - 8:59 PM	2,882	12	3,106	7	2,635	6	2,833	10	3,029	6
9:00 PM - 11:59 PM	1,942	8	2,060	2	1,821	13	1,931	16	1,986	3
Unknown	17	0	8	0	6	0	4	0	15	0
Total	17,094	66	18,126	54	17,295	45	17,203	74	18,179	38

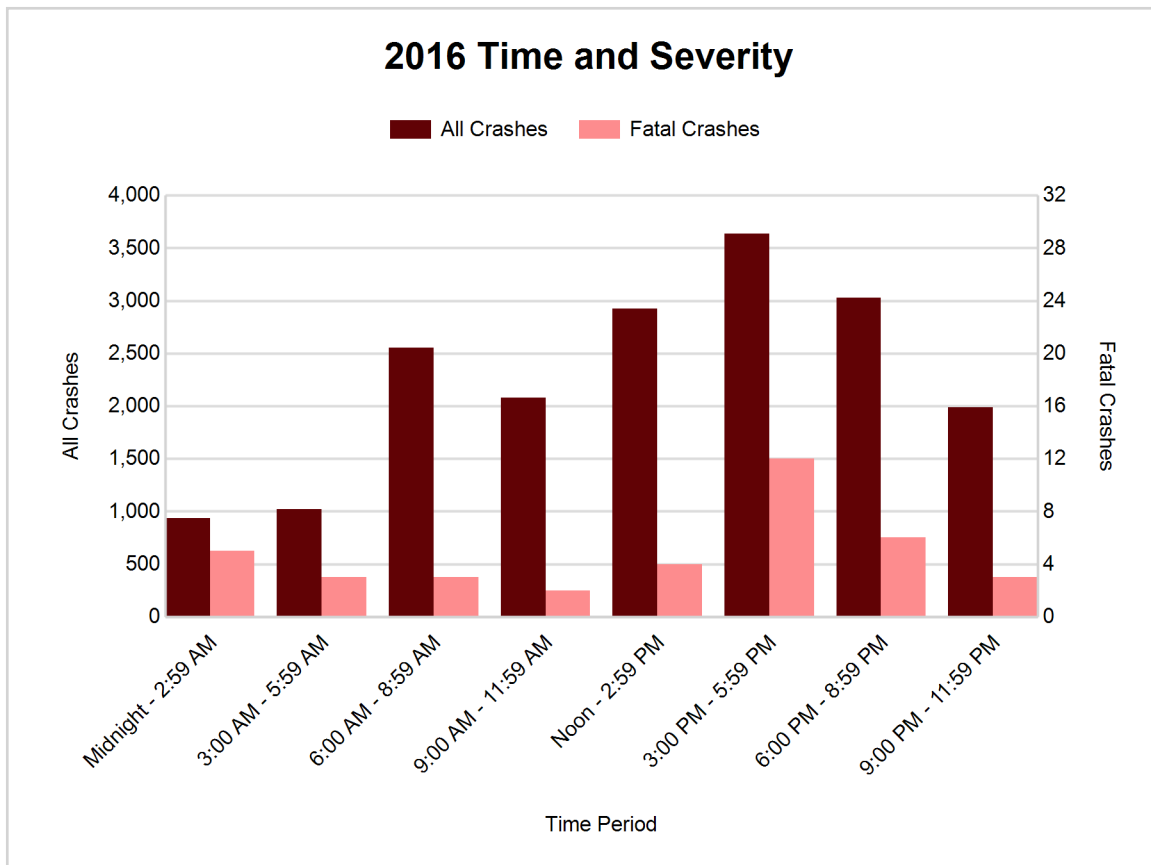
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same time period



East Central Michigan Prosperity Region (continued)

2016 - Time and Severity

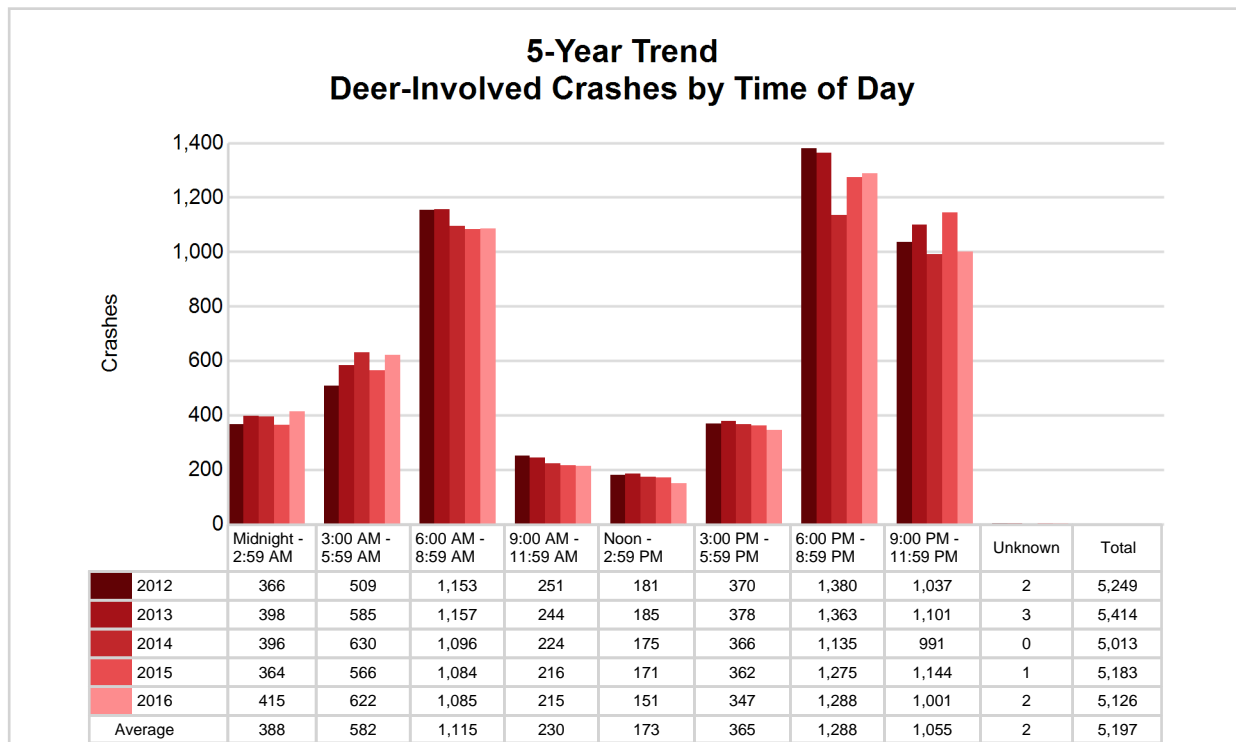
Time of Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Midnight - 2:59 AM	936	5.1	5	13.2	25	48	65	793
3:00 AM - 5:59 AM	1,022	5.6	3	7.9	19	38	55	907
6:00 AM - 8:59 AM	2,556	14.1	3	7.9	33	76	202	2,242
9:00 AM - 11:59 AM	2,076	11.4	2	5.3	36	110	251	1,677
Noon - 2:59 PM	2,925	16.1	4	10.5	67	134	426	2,294
3:00 PM - 5:59 PM	3,634	20.0	12	31.6	69	185	473	2,895
6:00 PM - 8:59 PM	3,029	16.7	6	15.8	49	128	277	2,569
9:00 PM - 11:59 PM	1,986	10.9	3	7.9	37	86	148	1,712
Unknown	15	0.1	0	0.0	1	2	0	12
Total	18,179	100.0	38	100.0	336	807	1,897	15,101



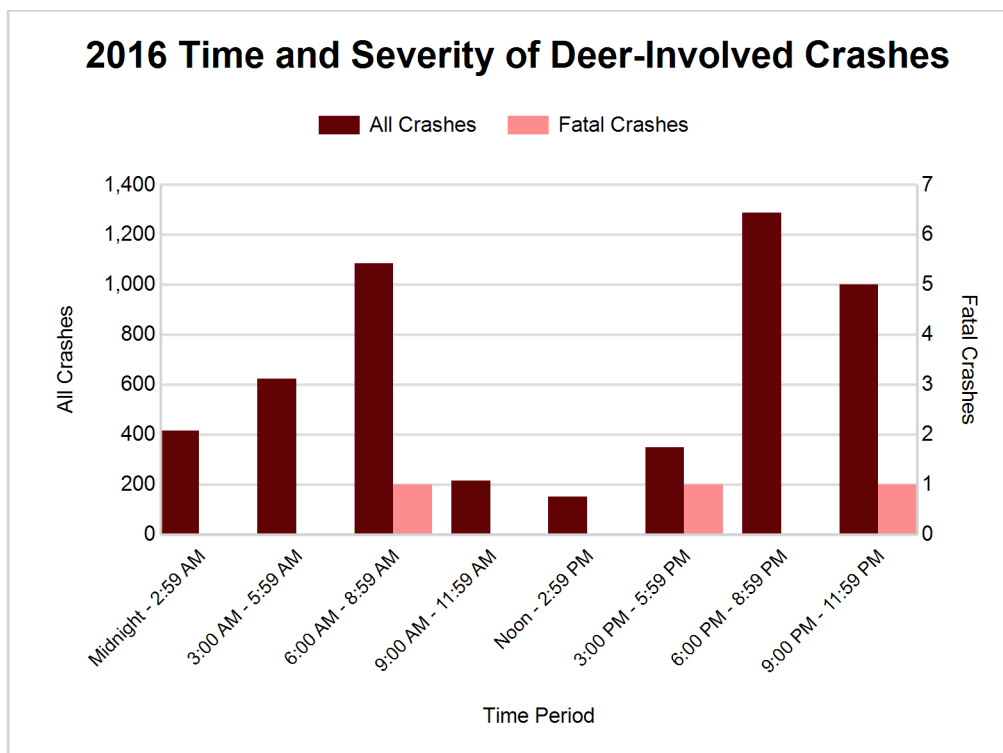
5-Year Trend - Deer-Involved Crashes by Time of Day

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	366	0	398	0	396	1	364	0	415	0
3:00 AM - 5:59 AM	509	0	585	0	630	0	566	0	622	0
6:00 AM - 8:59 AM	1,153	0	1,157	0	1,096	0	1,084	0	1,085	1
9:00 AM - 11:59 AM	251	0	244	0	224	0	216	0	215	0
Noon - 2:59 PM	181	0	185	0	175	0	171	0	151	0
3:00 PM - 5:59 PM	370	1	378	0	366	0	362	0	347	1
6:00 PM - 8:59 PM	1,380 †	0	1,363 †	0	1,135 †	0	1,275 †	0	1,288 †	0
9:00 PM - 11:59 PM	1,037	0	1,101	1	991	1	1,144	0	1,001	1
Unknown	2	0	3	0	0	0	1	0	2	0
Total	5,249	1	5,414	1	5,013	2	5,183	0	5,126	3

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



East Central Michigan Prosperity Region (continued)



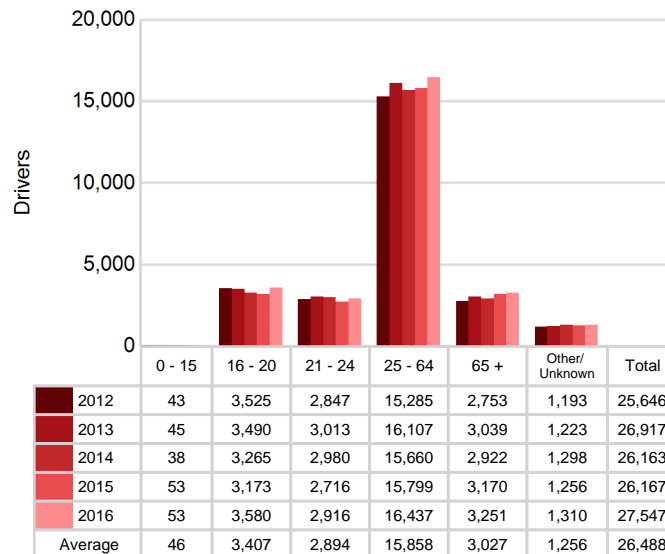
2016 - Reported Motor Vehicle Crashes by County

County	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Arenac	629	1	104	524	122	147	68	291	38	5	235	1	138
Bay	3,007	8	600	2,399	280	133	940	1,650	146	28	513	10	816
Clare	1,140	6	128	1,006	0	412	199	526	29	16	558	8	184
Gladwin	455	2	135	318	0	0	174	277	37	5	74	2	196
Gratiot	1,688	2	203	1,483	0	408	306	974	38	19	917	2	290
Isabella	2,859	4	383	2,472	0	664	380	1,810	77	20	980	6	533
Midland	2,672	3	397	2,272	0	355	431	1,877	66	10	948	3	544
Saginaw	5,729	12	1,090	4,627	667	0	1,974	3,086	196	50	901	14	1,570
Total	18,179	38	3,040	15,101	1,069	2,119	4,472	10,491	627	153	5,126	46	4,271

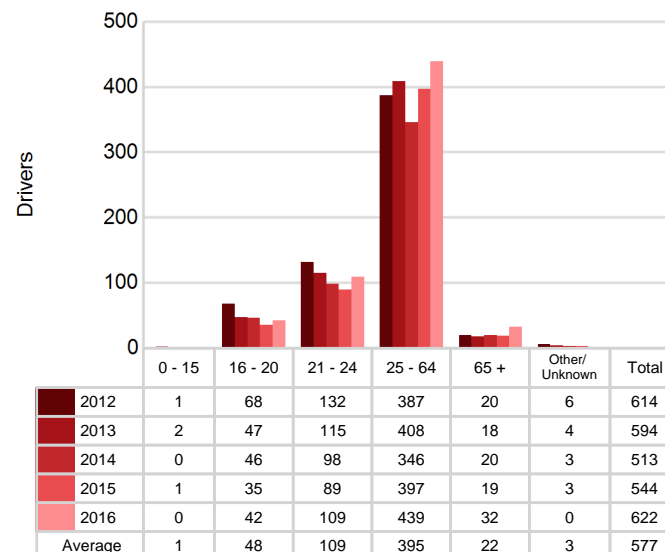
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

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	43	1	45	2	38	0	53	1	53	0
16 - 20	3,525	68	3,490	47	3,265	46	3,173	35	3,580	42
21 - 24	2,847	132	3,013	115	2,980	98	2,716	89	2,916	109
25 - 64	15,285	387	16,107	408	15,660	346	15,799	397	16,437	439
65 +	2,753	20	3,039	18	2,922	20	3,170	19	3,251	32
Unknown	1,193	6	1,223	4	1,298	3	1,256	3	1,310	0
Total	25,646	614	26,917	594	26,163	513	26,167	544	27,547	622

**5-Year Trend
Total Drivers in Crashes by Age**



**5-Year Trend
Total Drivers Coded Drinking by Age**



East Central Michigan Prosperity Region (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	0	1	0	0	0	0	0	0	0
16 - 20	54	65	36	42	1	9	12	4	16
21 - 24	119	102	93	109	0	16	35	26	32
25 - 64	548	452	356	439	3	32	114	101	189
65 +	53	40	28	32	1	4	11	7	9
Unknown	34	1	0	0	0	0	0	0	0
Total	808	661	513	622	5	61	172	138	246

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 808 drivers in alcohol-involved crashes; 622 (77.0%) of those drivers were coded as had-been-drinking by the officer on the crash form.

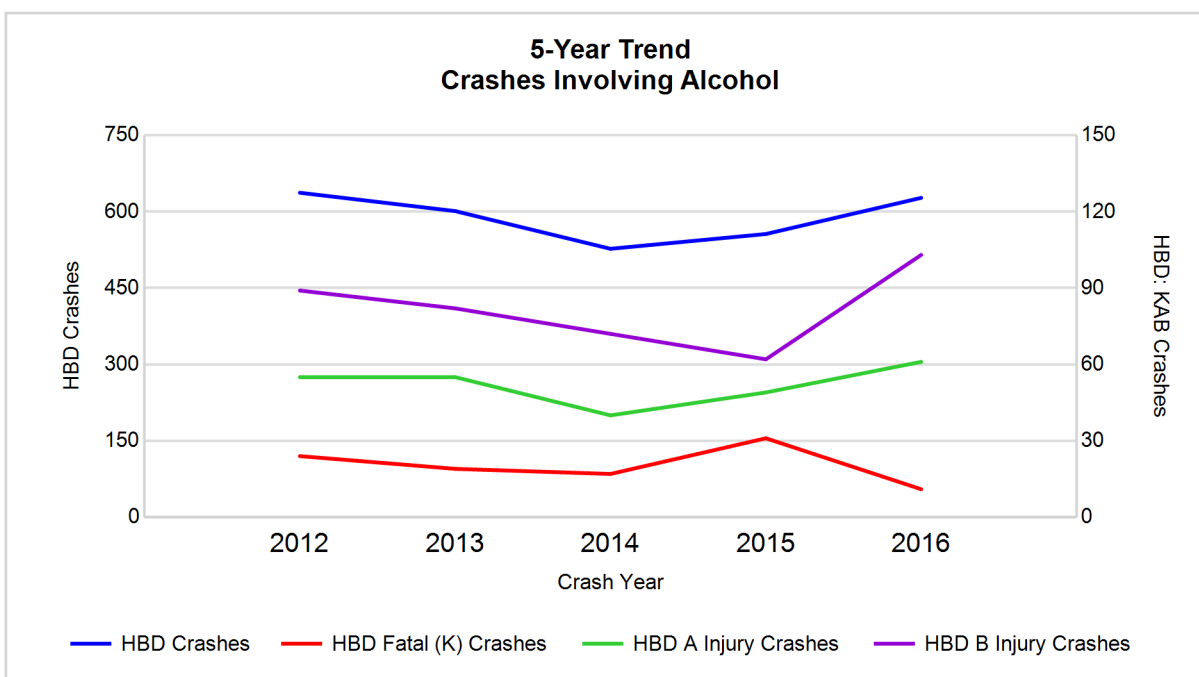
- 310 (49.8%) of the 622 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 138 (44.5%) of the 310 drivers had a BAC at or above 0.17 g/dL.
- 513 (82.5%) of the 622 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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	17,094	637	3.7	66	24	36.4	295	55	18.6	720	89	12.4
2013	18,126	601	3.3	54	19	35.2	292	55	18.8	743	82	11.0
2014	17,295	527	3.0	45	17	37.8	240	40	16.7	658	72	10.9
2015	17,203	556	3.2	74	31	41.9	253	49	19.4	727	62	8.5
2016	18,179**	627	3.4	38*	11*	28.9*	336**	61**	18.2	807**	103**	12.8**

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

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



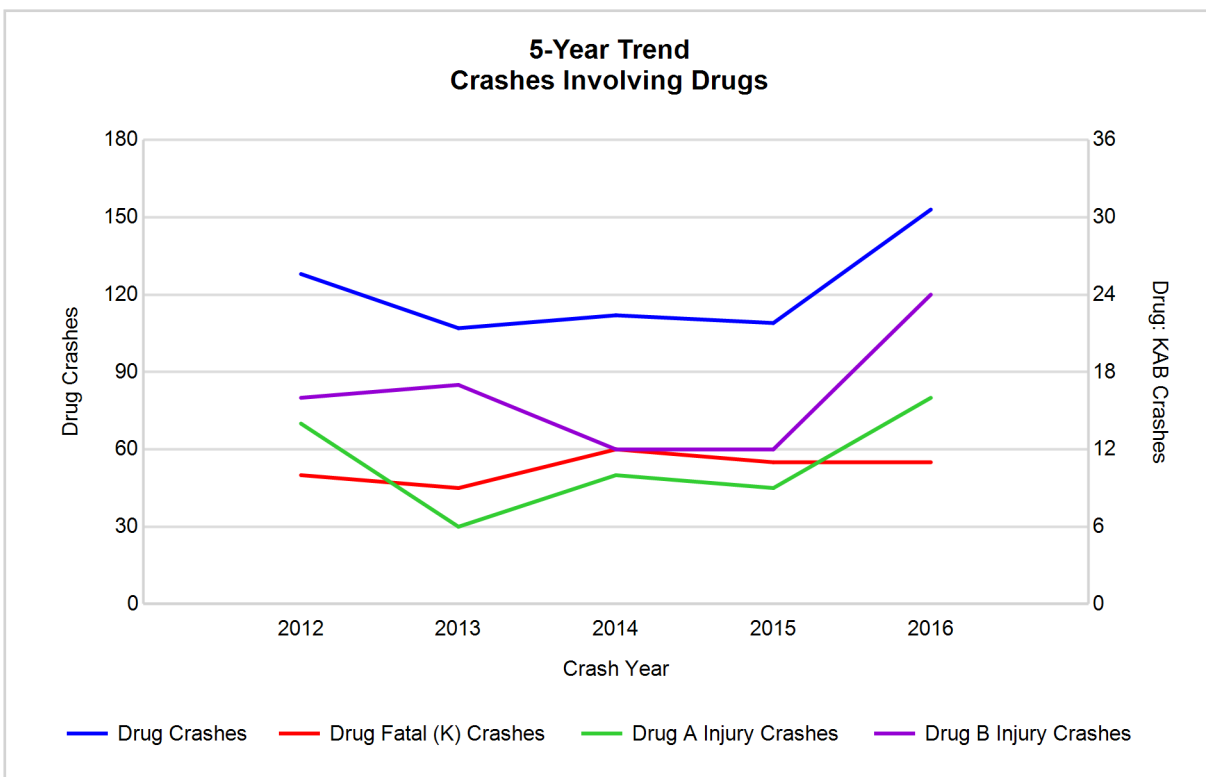
Note: Had-Been-Drinking (HBD)

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	17,094	128	0.7	66	10	15.2	295	14	4.7	720	16	2.2
2013	18,126	107	0.6	54	9	16.7	292	6	2.1	743	17	2.3
2014	17,295	112	0.6	45	12	26.7	240	10	4.2	658	12	1.8
2015	17,203	109	0.6	74	11	14.9	253	9	3.6	727	12	1.7
2016	18,179**	153**	0.8**	38*	11	28.9**	336**	16**	4.8**	807**	24**	3.0**

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



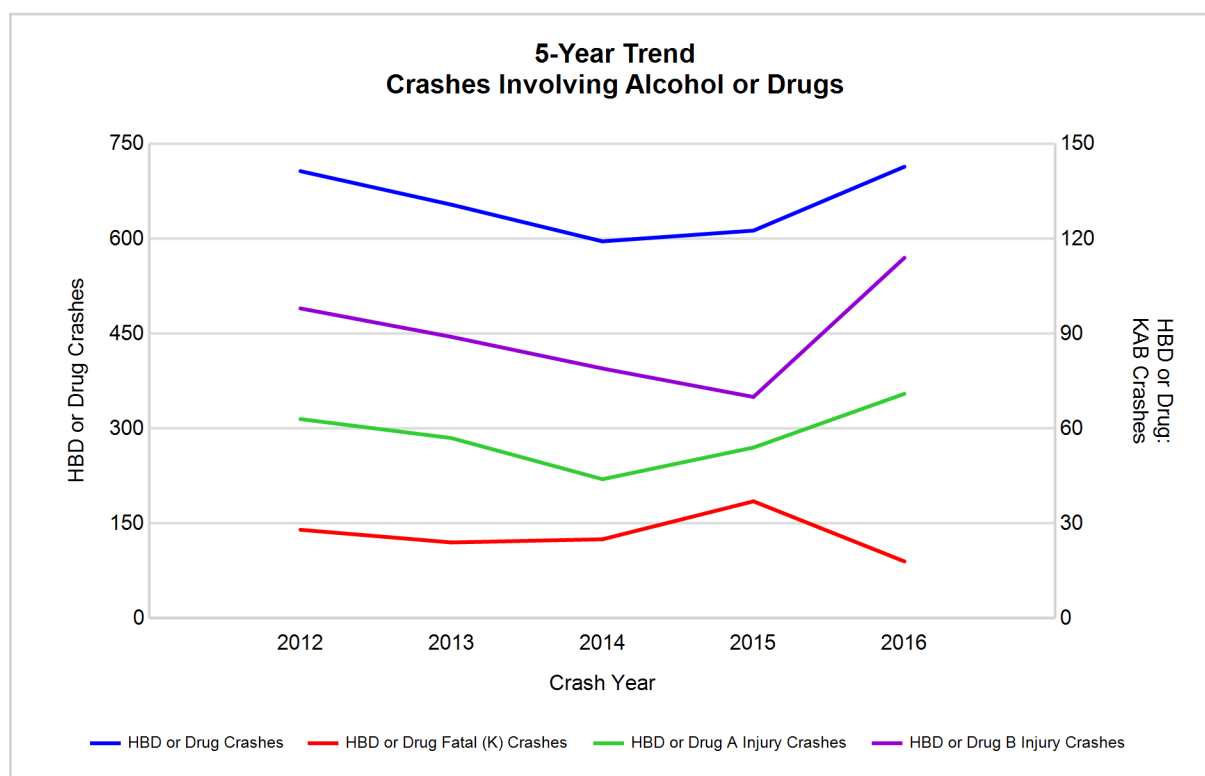
East Central Michigan Prosperity Region (continued)

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	17,094	707	4.1	66	28	42.4	295	63	21.4	720	98	13.6
2013	18,126	654	3.6	54	24	44.4	292	57	19.5	743	89	12.0
2014	17,295	596	3.4	45	25	55.6	240	44	18.3	658	79	12.0
2015	17,203	613	3.6	74	37	50.0	253	54	21.3	727	70	9.6
2016	18,179**	714**	3.9	38*	18*	47.4	336**	71**	21.1	807**	114**	14.1**

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



Note: Had-Been-Drinking (HBD)

East Central Michigan Prosperity Region (continued)

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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	22,334	20,850	93.4	29	20	69.0	240	191	79.6	718	636	88.6	2,278	2,185	95.9	18,273	17,807	97.4
Motor home	474	433	91.4	0	0	0.0	7	6	85.7	12	9	75.0	35	35	100.0	398	383	96.2
Pickup truck	4,491	4,174	92.9	2	2	100.0	46	27	58.7	145	120	82.8	338	322	95.3	3,810	3,693	96.9
Small truck under 10,000 lbs. GVWR	243	226	93.0	0	0	0.0	0	0	0.0	6	5	83.3	15	14	93.3	209	207	99.0
Motorcycle	234	146	62.4	8	4	50.0	55	26	47.3	69	45	65.2	58	44	75.9	43	27	62.8
Moped / goped	17	3	17.6	0	0	0.0	5	1	20.0	5	1	20.0	4	1	25.0	3	0	0.0
Go-cart / golf cart	10	1	10.0	0	0	0.0	3	0	0.0	3	0	0.0	1	0	0.0	3	1	33.3
Snowmobile	5	5	100.0	0	0	0.0	1	1	100.0	0	0	0.0	2	2	100.0	2	2	100.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	44	15	34.1	1	0	0.0	13	4	30.8	12	4	33.3	9	4	44.4	7	2	28.6
Other	121	71	58.7	0	0	0.0	2	0	0.0	5	2	40.0	3	1	33.3	99	68	68.7
Truck/bus over 10,000 lbs.	440	400	90.9	0	0	0.0	1	0	0.0	1	1	100.0	15	11	73.3	416	388	93.3
Unknown	305	3	1.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	12	3	25.0
Total	28,718	26,327	91.7	40	26	65.0	373	256	68.6	976	823	84.3	2,758	2,619	95.0	23,275	22,581	97.0

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	319	285	89.3	3	2	66.7	15	12	80.0	63	50	79.4	199	188	94.5	38	33	86.8
16 - 20	3,777	3,627	96.0	2	1	50.0	47	34	72.3	159	134	84.3	408	378	92.6	3,158	3,079	97.5
21 - 24	3,006	2,872	95.5	3	3	100.0	37	24	64.9	129	107	82.9	232	216	93.1	2,599	2,522	97.0
25 - 64	16,918	16,239	96.0	22	12	54.5	227	149	65.6	496	414	83.5	1,546	1,475	95.4	14,589	14,178	97.2
65 +	3,387	3,296	97.3	10	8	80.0	47	37	78.7	129	118	91.5	372	362	97.3	2,819	2,764	98.0
Unknown	1,311	8	0.6	0	0	0.0	0	0	0.0	0	0	0.0	1	0	0.0	72	5	6.9
Total	28,718	26,327	91.7	40	26	65.0	373	256	68.6	976	823	84.3	2,758	2,619	95.0	23,275	22,581	97.0

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.

East Central Michigan Prosperity Region (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	138	1	23	143	0	30	208	0	23	177	3	28	99	0	19
Shoulder belt only used	27	0	4	12	0	1	38	0	4	30	0	4	77	0	13
Lap belt only used	70	0	11	94	0	12	172	1	14	216	0	23	141	0	18
Both lap & shoulder belts used	23,282	28	2,295	24,565	12	2,285	23,535	15	2,121	23,547	23	2,249	24,924	13	2,539
No belts used	203	17	89	160	11	82	196	11	77	223	16	85	227	4	92
Child restraint used	1	0	0	1	0	0	0	0	0	0	0	0	3	0	0
Child restraint not used, unavailable or improper use	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0
Restraint failure	5	0	2	1	0	0	9	0	2	15	0	1	11	0	2
Restraint use unknown	1,032	1	96	1,067	2	58	808	2	67	599	5	64	1,308	2	62
Helmet worn	166	2	119	165	6	116	140	1	99	134	2	96	155	4	119
Helmet not worn	79	5	63	76	7	55	57	2	44	80	6	56	108	5	71
Helmet use unknown	12	0	6	7	0	4	10	1	6	8	1	4	17	0	13
Uncoded & errors	631	0	6	625	0	1	988	0	2	1,138	0	1	477	0	0
Total	25,646	54	2,714	26,917	38	2,644	26,163	33	2,459	26,167	56	2,611	27,547	28	2,948

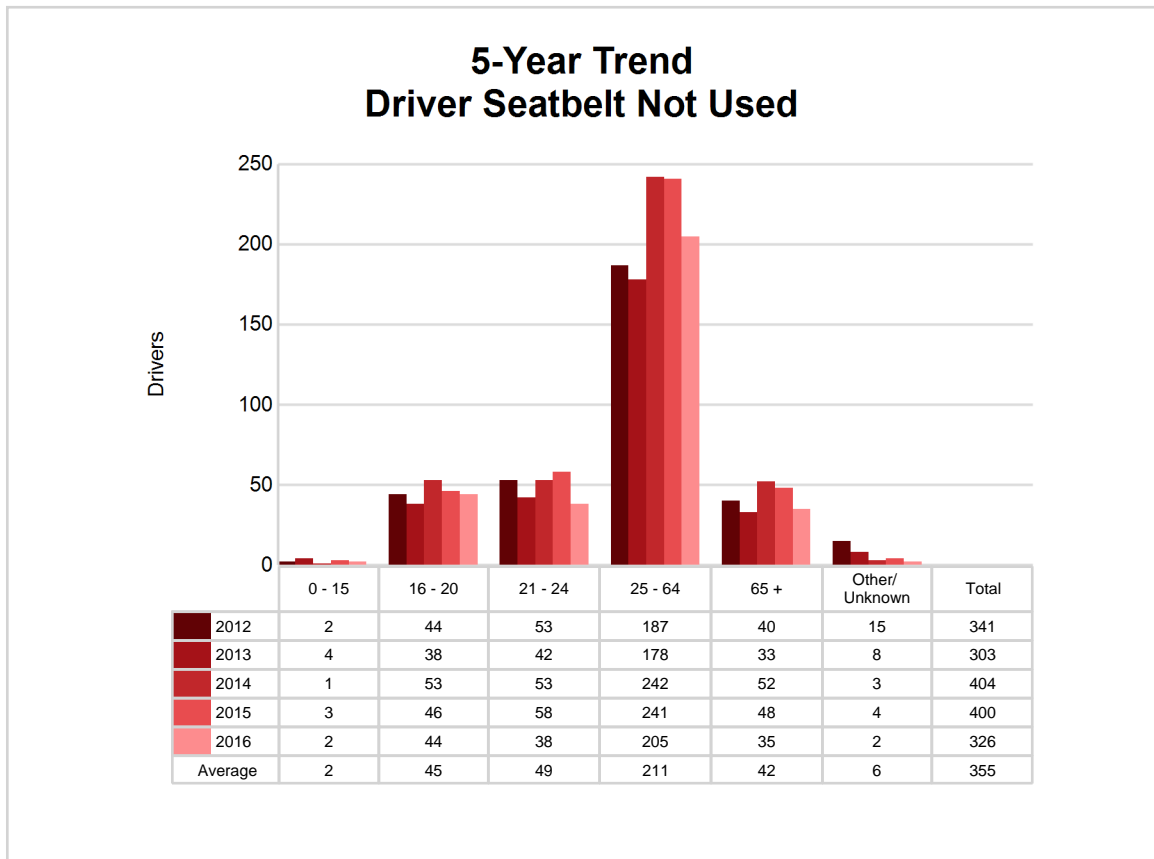
5-Year Trend - Restraint Use Among Drivers Coded Drinking

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	5	1	3	10	0	7	7	0	2	4	1	2	4	0	3
Shoulder belt only used	0	0	0	0	0	0	0	0	0	0	0	0	5	0	1
Lap belt only used	1	0	1	1	0	0	3	0	2	4	0	2	1	0	1
Both lap & shoulder belts used	418	5	102	436	1	104	379	3	82	398	6	84	459	2	122
No belts used	48	5	28	40	7	24	30	4	21	38	7	26	41	2	29
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	1	0	1	0	0	0	0	0	0
Restraint use unknown	106	1	31	73	0	20	82	1	25	74	3	16	81	1	18
Helmet worn	9	0	8	10	1	9	4	0	1	7	0	7	8	0	8
Helmet not worn	17	2	15	21	5	13	5	1	3	16	5	9	22	2	15
Helmet use unknown	3	0	3	1	0	1	1	0	1	2	0	2	1	0	1
Uncoded & errors	7	0	1	2	0	0	1	0	0	1	0	0	0	0	0
Total	614	14	192	594	14	178	513	9	138	544	22	148	622	7	198

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	2	0	1	4	0	2	1	1	0	3	1	2	2	0	1
16 - 20	44	2	17	38	1	16	53	2	14	46	2	9	44	0	15
21 - 24	53	3	18	42	1	22	53	1	19	58	3	21	38	0	15
25 - 64	187	8	65	178	6	59	242	4	57	241	11	66	205	4	66
65 +	40	5	11	33	3	11	52	3	10	48	2	14	35	0	14
Unknown	15	0	0	8	0	2	3	0	0	4	0	1	2	0	0
Total	341	18	112	303	11	112	404	11	100	400	19	113	326	4	111

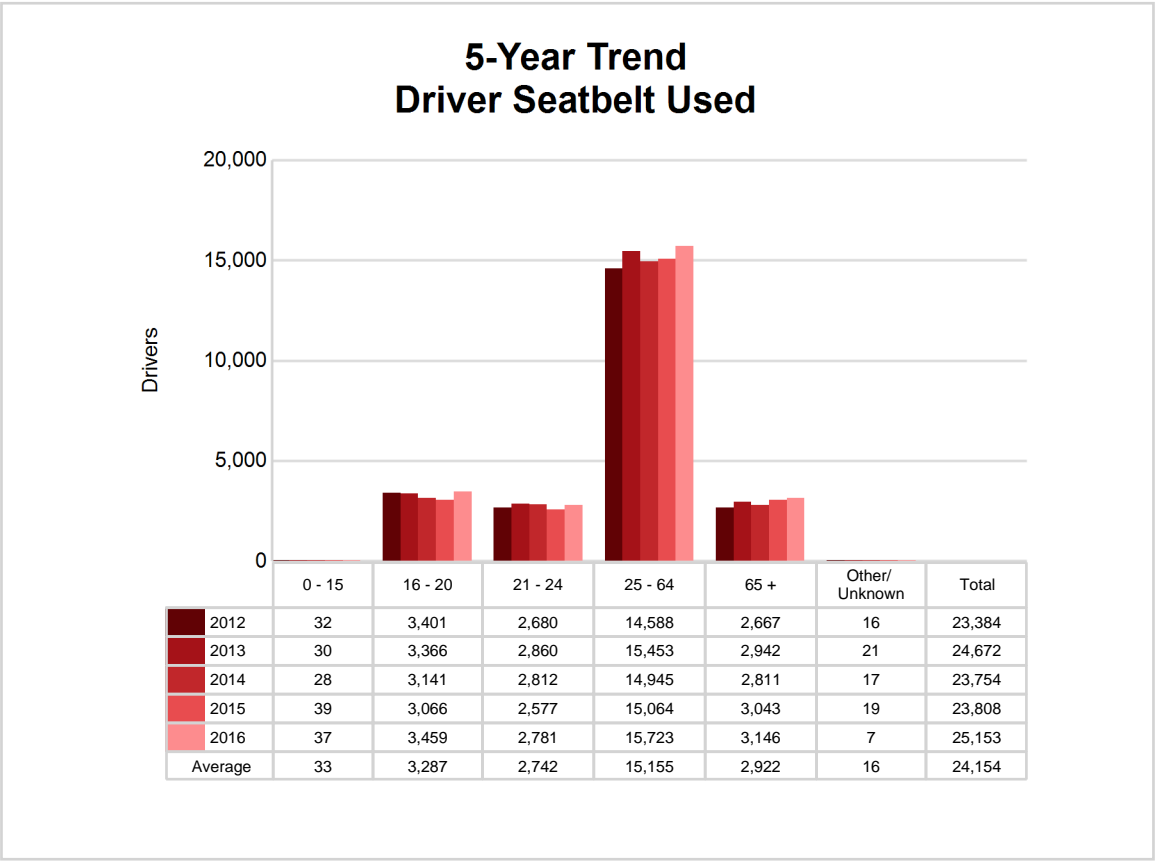
Note: Seatbelt Not Used includes no belts available or no belts used.



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	32	0	4	30	0	3	28	0	5	39	0	3	37	0	5
16 - 20	3,401	3	355	3,366	0	335	3,141	1	294	3,066	1	328	3,459	1	380
21 - 24	2,680	2	264	2,860	1	272	2,812	1	274	2,577	0	261	2,781	2	264
25 - 64	14,588	14	1,380	15,453	6	1,402	14,945	10	1,262	15,064	14	1,340	15,723	7	1,546
65 +	2,667	9	308	2,942	5	286	2,811	4	305	3,043	8	344	3,146	3	377
Unknown	16	0	1	21	0	0	17	0	1	19	0	1	7	0	0
Total	23,384	28	2,312	24,672	12	2,298	23,754	16	2,141	23,808	23	2,277	25,153	13	2,572

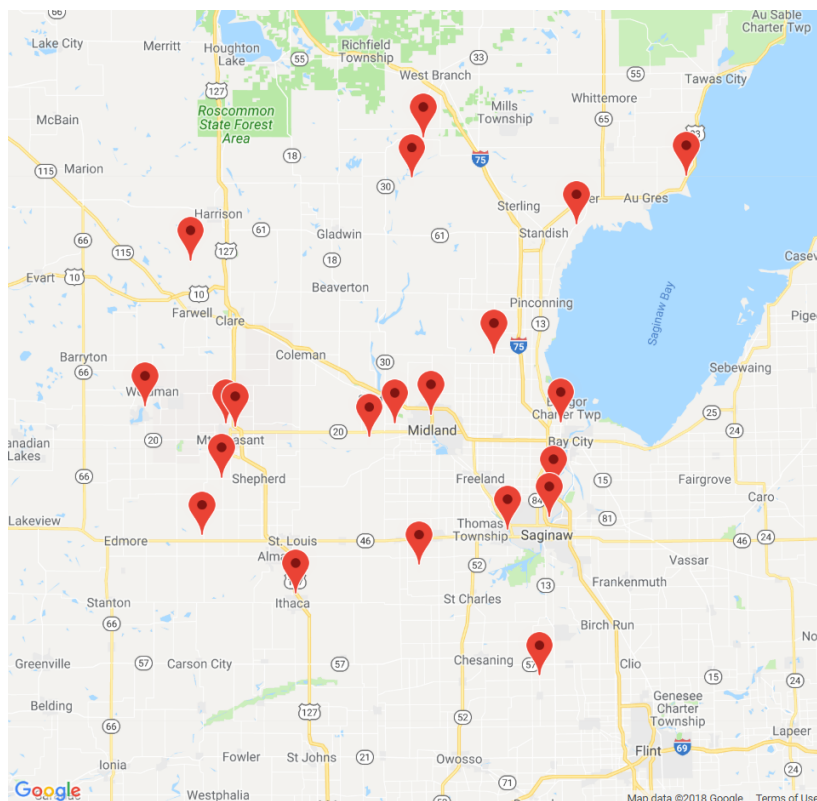
Note: Seatbelt Used includes shoulder belt only used, lap belt only used, both lap and shoulder belts used, and restraint failure.



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	14,163	43	14,671	26	14,496	30	14,796	41	15,187	27
Speed too fast	2,104	15	2,737	14	2,367	10	1,904	20	2,295	5
Speed too slow	26	0	25	0	36	0	37	0	27	0
Failed to yield	2,184	9	2,294	5	2,265	3	2,312	7	2,450	4
Disregard traffic control	672	9	632	3	544	4	630	5	636	2
Drove wrong way	18	0	14	0	22	1	28	1	24	2
Drove left of center	105	3	113	4	111	6	113	2	121	1
Improper passing	99	0	106	1	111	0	101	0	128	1
Improper lane use	386	1	395	0	347	0	430	0	403	2
Improper turn	278	1	252	0	281	1	307	0	316	0
Improper/no signal	41	0	47	0	52	0	50	0	29	0
Improper backing	486	0	466	0	502	0	497	0	503	0
Unable to stop in assured clear distance	2,583	1	2,663	4	2,657	2	2,674	3	2,797	2
Other	848	7	884	7	895	6	870	9	958	3
Unknown	671	10	671	7	503	6	413	11	569	4
Reckless driving	118	1	106	1	130	0	147	2	124	2
Careless/negligent driving	755	3	769	5	792	3	821	8	907	4
Uncoded & errors	109	0	72	1	52	0	37	0	73	0
Total	25,646	103	26,917	78	26,163	72	26,167	109	27,547	59

East Central Michigan Prosperity Region (continued)



The picture above represents all 2016 alcohol-involved fatal crashes in East Central Michigan Prosperity Region.

In 2016, there were 627 alcohol-involved crashes in East Central Michigan Prosperity Region:

11	K - Fatal Crashes
61	A - Suspected Serious Injury Crashes
103	B - Suspected Minor Injury Crashes
85	C - Possible Injury Crashes
367	O - Property Damage Only/No Injury Crashes

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