



2017

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

2017 Traffic Crash Data & 2013-2017 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 2017* comprehensive cost of traffic crashes was \$2,665,000,000.** Fatalities cost \$775,000,000, injuries cost \$1,160,000,000, and 'Property Damage Only' crashes cost \$730,000,000.

In 2017:

There were 27,383 drivers involved in 18,356 motor vehicle crashes in East Central Michigan Prosperity Region. Of those crashes, 69 were classified as fatal, resulting in 75 fatalities. An additional 4,072 persons were injured.

East Central Michigan Prosperity Region experienced the highest number of motor vehicle crashes (2,375) in December, the highest number of fatal crashes (8) in June and July, and the highest number of persons killed (9) in June and September.

Michigan driver statistics indicate 6.5 percent of licensed drivers in East Central Michigan Prosperity Region were age 16-20, and 12.6 percent of drivers in crashes were also in that age group.

* 2017 National Safety Council data for average costs of motor vehicle crashes are not yet available. This report uses the previous year's National Safety Council data.

** 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.

2017 - Crashes and Injuries by Month

Month	Crashes				Persons	
	Total	Fatal	Injury	Property Damage Only (PDO)	Fatalities	Injuries
January	1,605	3	241	1,361	3	326
February	1,086	1	168	917	1	224
March	1,422	6	237	1,179	7	340
April	1,181	5	194	982	5	282
May	1,317	5	247	1,065	6	336
June	1,404	8	269	1,127	9	372
July	1,333	8	266	1,059	8	369
August	1,231	7	241	983	7	355
September	1,360	7	253	1,100	9	357
October	2,030	7	280	1,743	8	401
November	2,012	7	237	1,768	7	336
December	2,375	5	281	2,089	5	374
Total	18,356	69	2,914	15,373	75	4,072

2017 - Driver Statistics

Age Group	East Central Michigan Prosperity Region			Driver Rates	
	2017 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	100,245	2,965	46	4.6	155.1
16 - 20	42,195	26,116	3,441	815.5	1,317.6
21 - 24	34,784	24,812	2,855	820.8	1,150.7
25 - 64	280,699	253,644	16,411	584.6	647.0
65 +	104,674	94,447	3,400	324.8	360.0
Unknown	0	0	1,230	- -	- -
Total	562,597	401,984	27,383	486.7	681.2

2017 - 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	21,527	78.6	75	68.2	3,919	17,533
Motor home	126	0.5	0	0.0	18	108
Pickup truck	4,428	16.2	20	18.2	742	3,666
Small truck under 10,000 lbs. GVWR	162	0.6	2	1.8	20	140
Motorcycle	167	0.6	9	8.2	129	29
Moped / goped	13	0.0	1	0.9	12	0
Go-cart / golf cart	2	0.0	0	0.0	0	2
Snowmobile	1	0.0	0	0.0	1	0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	32	0.1	0	0.0	26	6
Other	145	0.5	0	0.0	28	117
Truck/bus over 10,000 lbs.	469	1.7	2	1.8	106	361
Unknown	311	1.1	1	0.9	25	285
Total	27,383	100.0	110	100.0	5,026	22,247

East Central Michigan Prosperity Region (continued)

5-Year Trend - Crashes by Month

Month	2013		2014		2015		2016		2017	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
January	1,624	4	1,994	3	1,797	3	1,735	4	1,605	3
February	1,626	4	1,552	5	1,291	2	1,609	2	1,086	1
March	1,372	5	1,328	3	1,194	2	1,351	2	1,422	6
April	1,208	2	1,020	4	1,119	5	1,194	1	1,181	5
May	1,342	8	1,147	0	1,321	7	1,269	3	1,317	5
June	1,247	5	1,348	8	1,324	7	1,366	4	1,404	8
July	1,111	7	1,119	4	1,215	15	1,273	4	1,333	8
August	1,191	4	1,082	6	1,106	6	1,231	5	1,231	7
September	1,357	5	1,290	2	1,292	6	1,403	2	1,360	7
October	1,770	3	1,837	2	1,934	6	1,796	3	2,030	7
November	2,252	3	2,213	5	2,113	10	1,990	4	2,012	7
December	2,026	4	1,365	3	1,497	5	1,962	4	2,375	5
Total	18,126	54	17,295	45	17,203	74	18,179	38	18,356	69

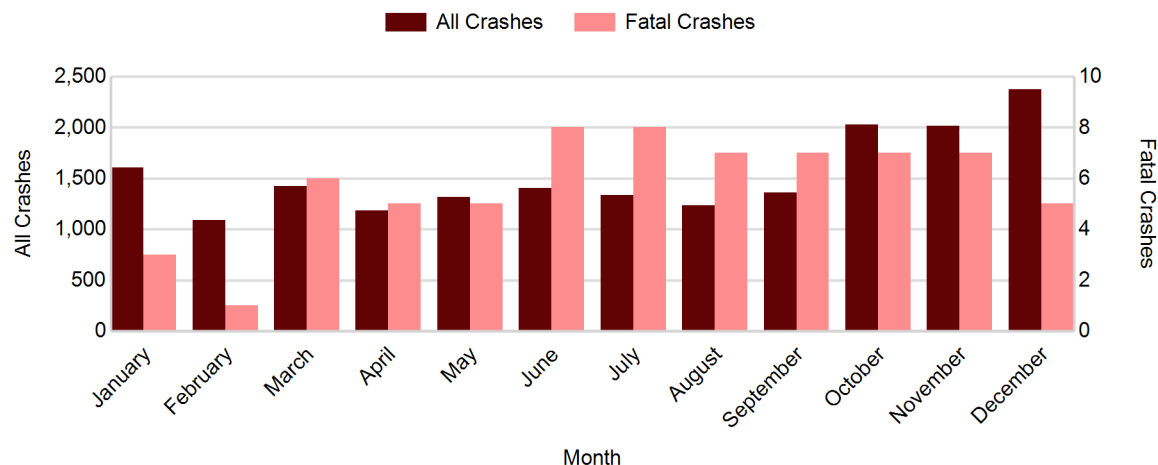
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

5-Year Trend - Crashes by Day of Week

Day	2013		2014		2015		2016		2017	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Monday	2,710	6	2,300	5	2,525	9	2,581	5	2,664	7
Tuesday	2,754	6	2,454	6	2,593	14	2,690	5	2,780	11
Wednesday	2,583	6	2,756	3	2,588	10	2,946	4	2,783	11
Thursday	2,794	3	2,571	6	2,501	6	2,623	7	2,801	8
Friday	2,888	7	3,065	7	2,696	14	2,941	8	2,861	9
Saturday	2,324	16	2,182	8	2,318	13	2,289	6	2,432	14
Sunday	2,073	10	1,967	10	1,982	8	2,109	3	2,035	9
Total	18,126	54	17,295	45	17,203	74	18,179	38	18,356	69

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

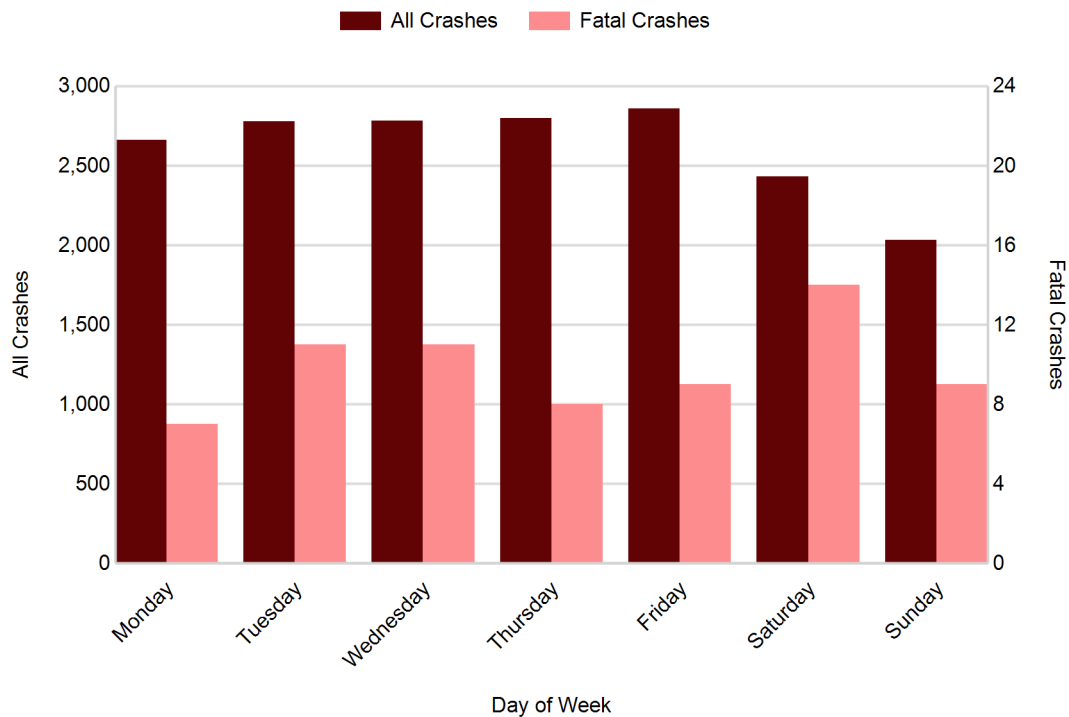
2017 Crashes by Month



2017 - 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	2,664	14.5	7	10.1	50	125	269	2,213
Tuesday	2,780	15.1	11	15.9	41	136	268	2,324
Wednesday	2,783	15.2	11	15.9	41	107	299	2,325
Thursday	2,801	15.3	8	11.6	49	119	276	2,349
Friday	2,861	15.6	9	13.0	40	137	246	2,429
Saturday	2,432	13.2	14	20.3	58	103	215	2,042
Sunday	2,035	11.1	9	13.0	47	112	176	1,691
Total	18,356	100.0	69	100.0	326	839	1,749	15,373

2017 Day of Week and Severity

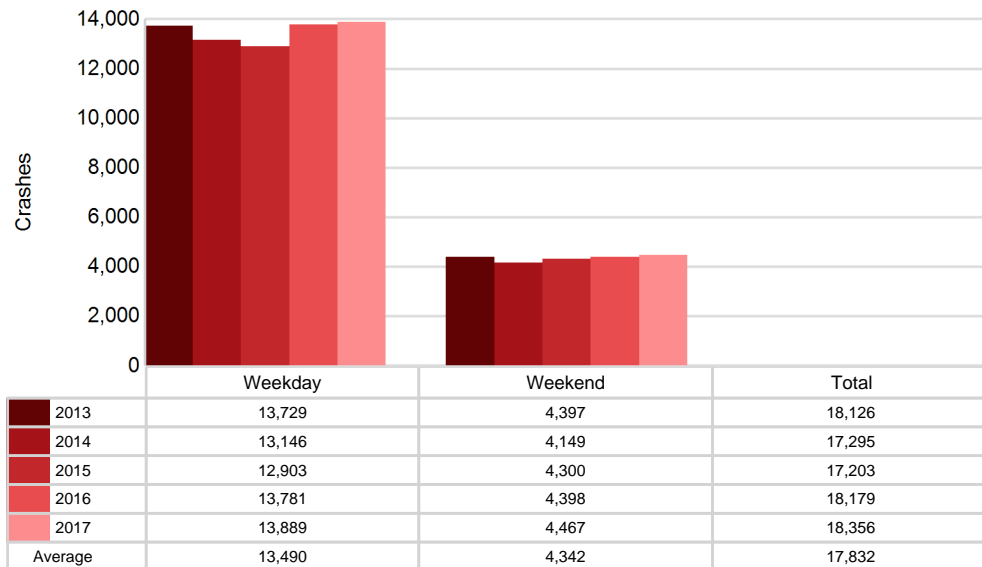


East Central Michigan Prosperity Region (continued)

5-Year Trend - Crashes by Weekday and Weekend

Portion of Week	2013		2014		2015		2016		2017	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Weekday	13,729	28	13,146	27	12,903	53	13,781	29	13,889	46
Weekend	4,397	26	4,149	18	4,300	21	4,398	9	4,467	23
Total	18,126	54	17,295	45	17,203	74	18,179	38	18,356	69

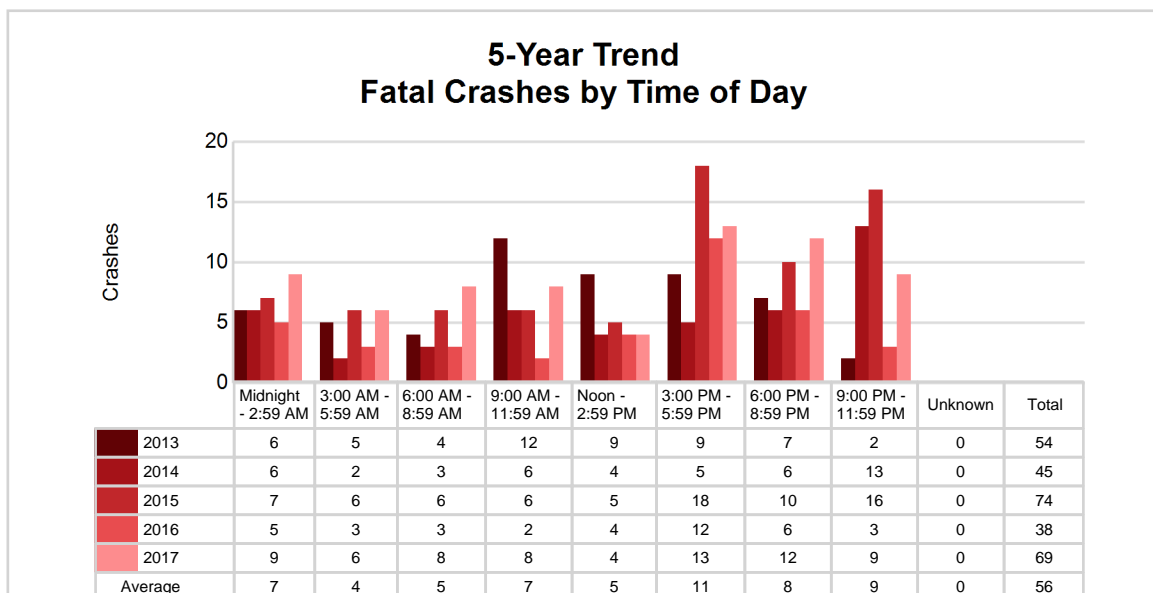
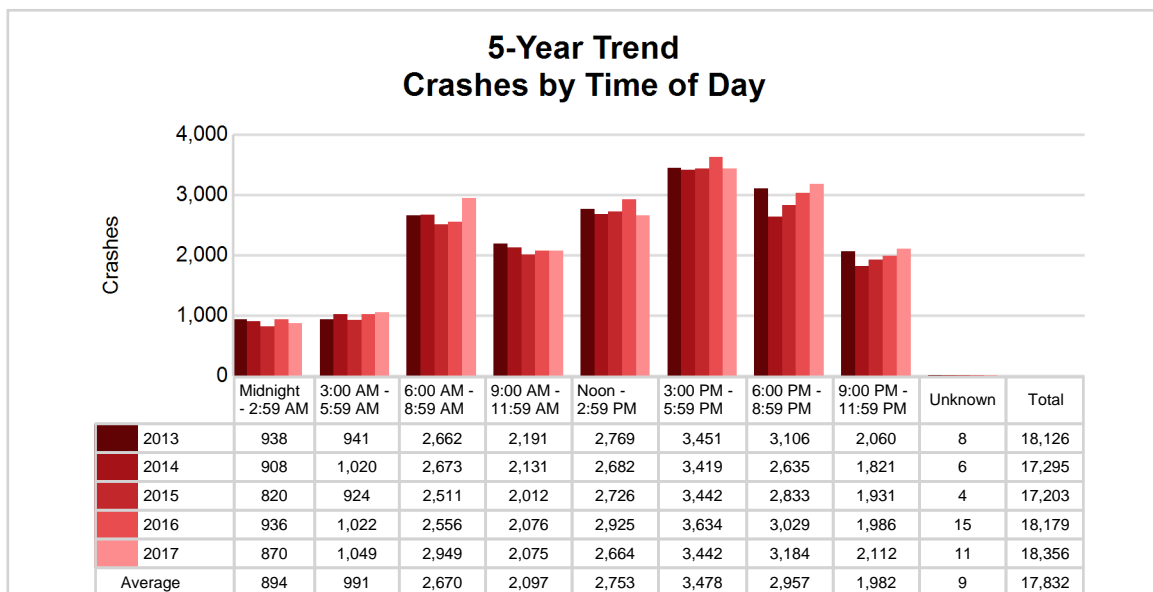
5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



5-Year Trend - Crashes by Time of Day

Time of Day	2013		2014		2015		2016		2017	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	938	6	908	6	820	7	936	5	870	9
3:00 AM - 5:59 AM	941	5	1,020	2	924	6	1,022	3	1,049	6
6:00 AM - 8:59 AM	2,662	4	2,673	3	2,511	6	2,556	3	2,949	8
9:00 AM - 11:59 AM	2,191	12	2,131	6	2,012	6	2,076	2	2,075	8
Noon - 2:59 PM	2,769	9	2,682	4	2,726	5	2,925	4	2,664	4
3:00 PM - 5:59 PM	3,451 †	9	3,419 †	5	3,442 †	18	3,634 †	12	3,442 †	13
6:00 PM - 8:59 PM	3,106	7	2,635	6	2,833	10	3,029	6	3,184	12
9:00 PM - 11:59 PM	2,060	2	1,821	13	1,931	16	1,986	3	2,112	9
Unknown	8	0	6	0	4	0	15	0	11	0
Total	18,126	54	17,295	45	17,203	74	18,179	38	18,356	69

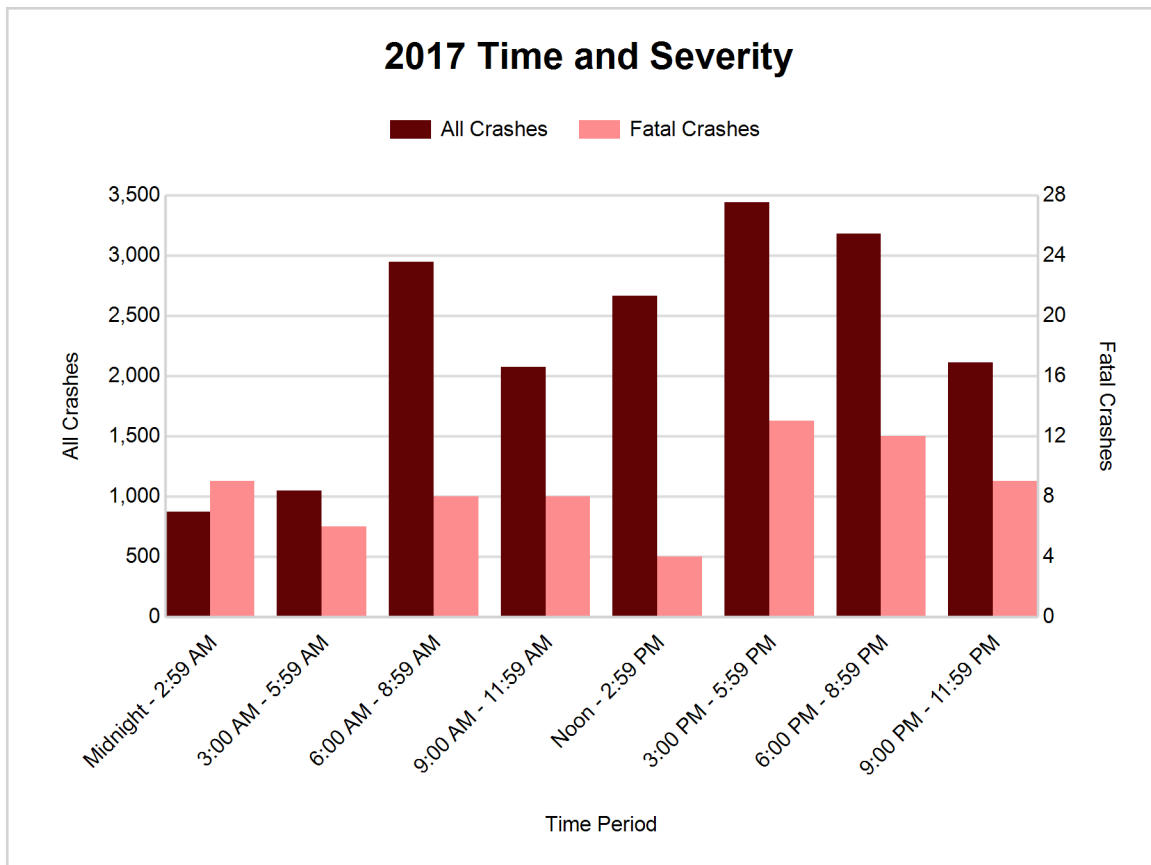
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same time period



East Central Michigan Prosperity Region (continued)

2017 - Time and Severity

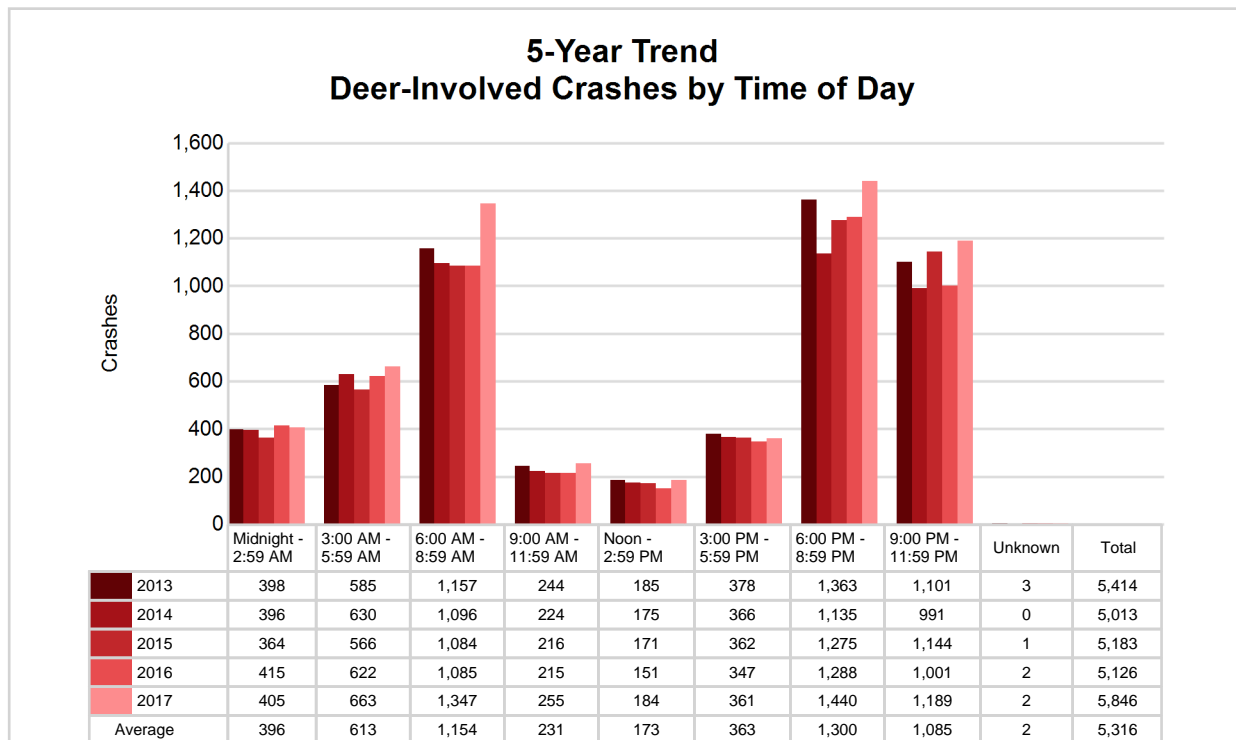
Time of Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Midnight - 2:59 AM	870	4.7	9	13.0	21	48	73	719
3:00 AM - 5:59 AM	1,049	5.7	6	8.7	14	35	54	940
6:00 AM - 8:59 AM	2,949	16.1	8	11.6	31	116	216	2,578
9:00 AM - 11:59 AM	2,075	11.3	8	11.6	52	98	215	1,702
Noon - 2:59 PM	2,664	14.5	4	5.8	52	157	345	2,106
3:00 PM - 5:59 PM	3,442	18.8	13	18.8	66	183	472	2,708
6:00 PM - 8:59 PM	3,184	17.3	12	17.4	51	129	251	2,741
9:00 PM - 11:59 PM	2,112	11.5	9	13.0	39	73	123	1,868
Unknown	11	0.1	0	0.0	0	0	0	11
Total	18,356	100.0	69	100.0	326	839	1,749	15,373



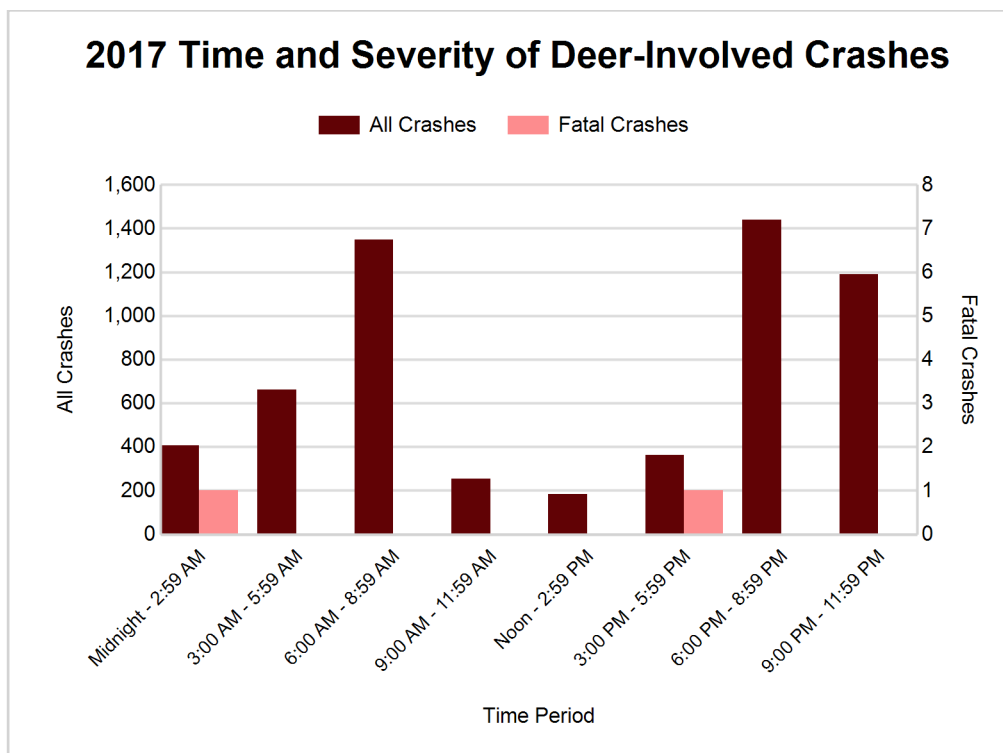
5-Year Trend - Deer-Involved Crashes by Time of Day

Time of Day	2013		2014		2015		2016		2017	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	398	0	396	1	364	0	415	0	405	1
3:00 AM - 5:59 AM	585	0	630	0	566	0	622	0	663	0
6:00 AM - 8:59 AM	1,157	0	1,096	0	1,084	0	1,085	1	1,347	0
9:00 AM - 11:59 AM	244	0	224	0	216	0	215	0	255	0
Noon - 2:59 PM	185	0	175	0	171	0	151	0	184	0
3:00 PM - 5:59 PM	378	0	366	0	362	0	347	1	361	1
6:00 PM - 8:59 PM	1,363 †	0	1,135 †	0	1,275 †	0	1,288 †	0	1,440 †	0
9:00 PM - 11:59 PM	1,101	1	991	1	1,144	0	1,001	1	1,189	0
Unknown	3	0	0	0	1	0	2	0	2	0
Total	5,414	1	5,013	2	5,183	0	5,126	3	5,846	2

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)



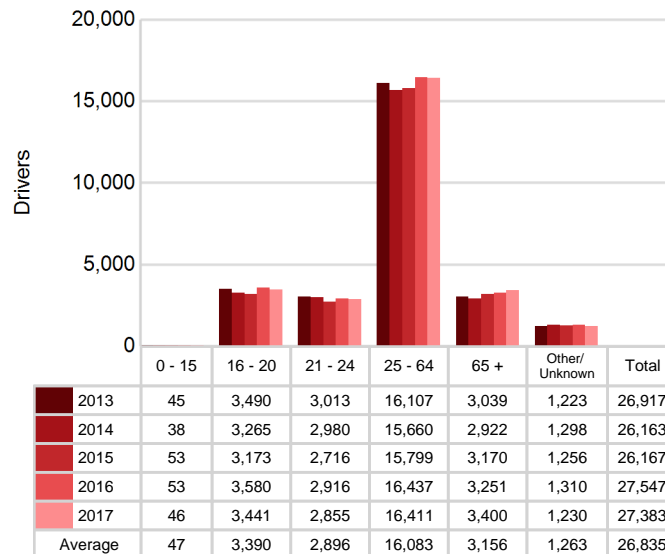
2017 - Reported Motor Vehicle Crashes by County

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	737	6	101	630	120	194	84	338	33	6	387	7	131
Bay	3,052	5	564	2,483	358	174	932	1,585	149	38	563	5	765
Clare	1,144	2	159	983	0	372	212	558	35	10	555	3	224
Gladwin	767	3	90	674	0	0	287	477	40	4	425	3	122
Gratiot	1,585	5	166	1,414	0	395	267	922	47	13	908	5	236
Isabella	2,812	11	379	2,422	0	626	402	1,771	87	22	1,057	12	542
Midland	2,714	16	435	2,263	0	397	495	1,820	79	23	952	18	605
Saginaw	5,545	21	1,020	4,504	551	0	1,988	2,999	204	60	999	22	1,447
Total	18,356	69	2,914	15,373	1,029	2,158	4,667	10,470	674	176	5,846	75	4,072

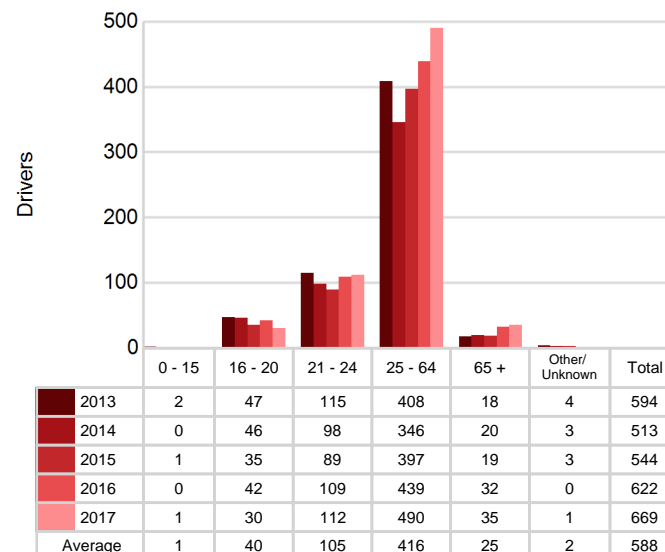
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

Driver Age	2013		2014		2015		2016		2017	
	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	45	2	38	0	53	1	53	0	46	1
16 - 20	3,490	47	3,265	46	3,173	35	3,580	42	3,441	30
21 - 24	3,013	115	2,980	98	2,716	89	2,916	109	2,855	112
25 - 64	16,107	408	15,660	346	15,799	397	16,437	439	16,411	490
65 +	3,039	18	2,922	20	3,170	19	3,251	32	3,400	35
Unknown	1,223	4	1,298	3	1,256	3	1,310	0	1,230	1
Total	26,917	594	26,163	513	26,167	544	27,547	622	27,383	669

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



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



East Central Michigan Prosperity Region (continued)

2017 - 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	2	1	1	0	0	0	1	0
16 - 20	54	40	26	30	1	1	11	8	9
21 - 24	139	119	100	112	1	7	38	23	43
25 - 64	603	456	386	490	5	26	113	124	222
65 +	57	44	30	35	0	8	8	8	11
Unknown	34	0	0	1	0	0	0	0	1
Total	888	661	543	669	7	42	170	164	286

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 2017, there were 888 drivers in alcohol-involved crashes; 669 (75.3%) of those drivers were coded as had-been-drinking by the officer on the crash form.

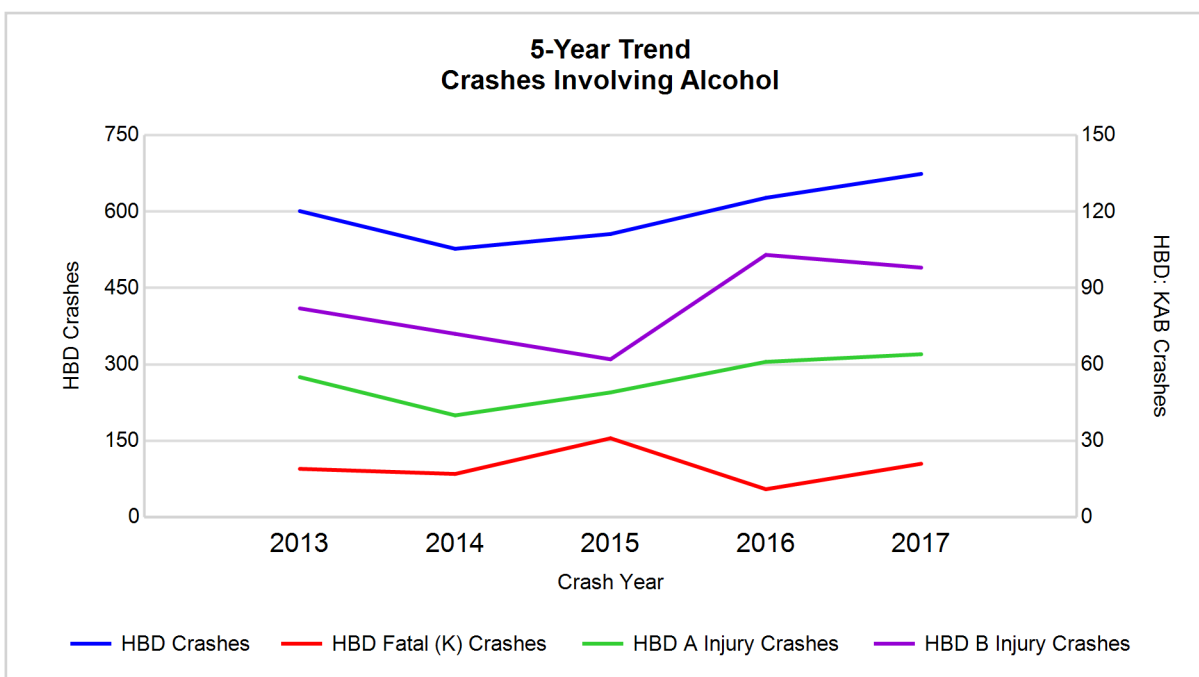
- 334 (49.9%) of the 669 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 164 (49.1%) of the 334 drivers had a BAC at or above 0.17 g/dL.
- 543 (81.2%) of the 669 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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
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
2017	18,356**	674**	3.7**	69	21	30.4	326	64**	19.6**	839**	98	11.7

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



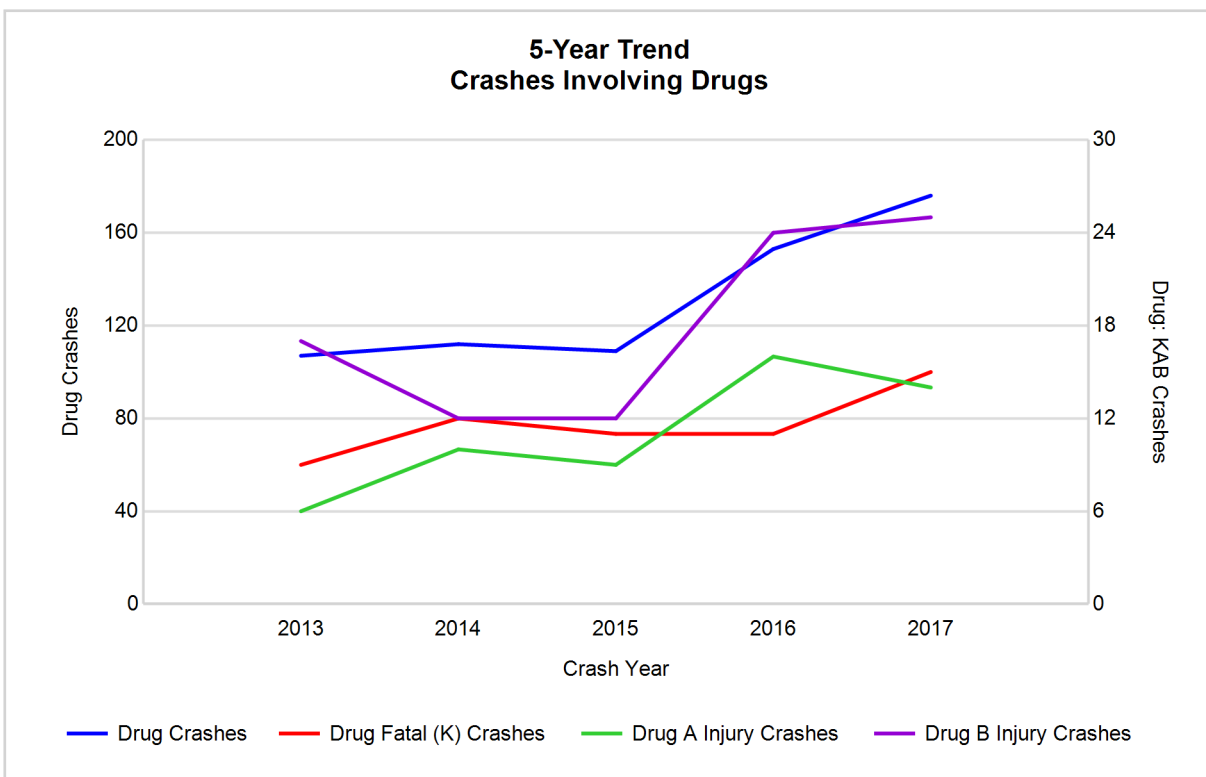
Note: Had-Been-Drinking (HBD)

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
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
2017	18,356**	176**	1.0**	69	15**	21.7	326	14	4.3	839**	25**	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



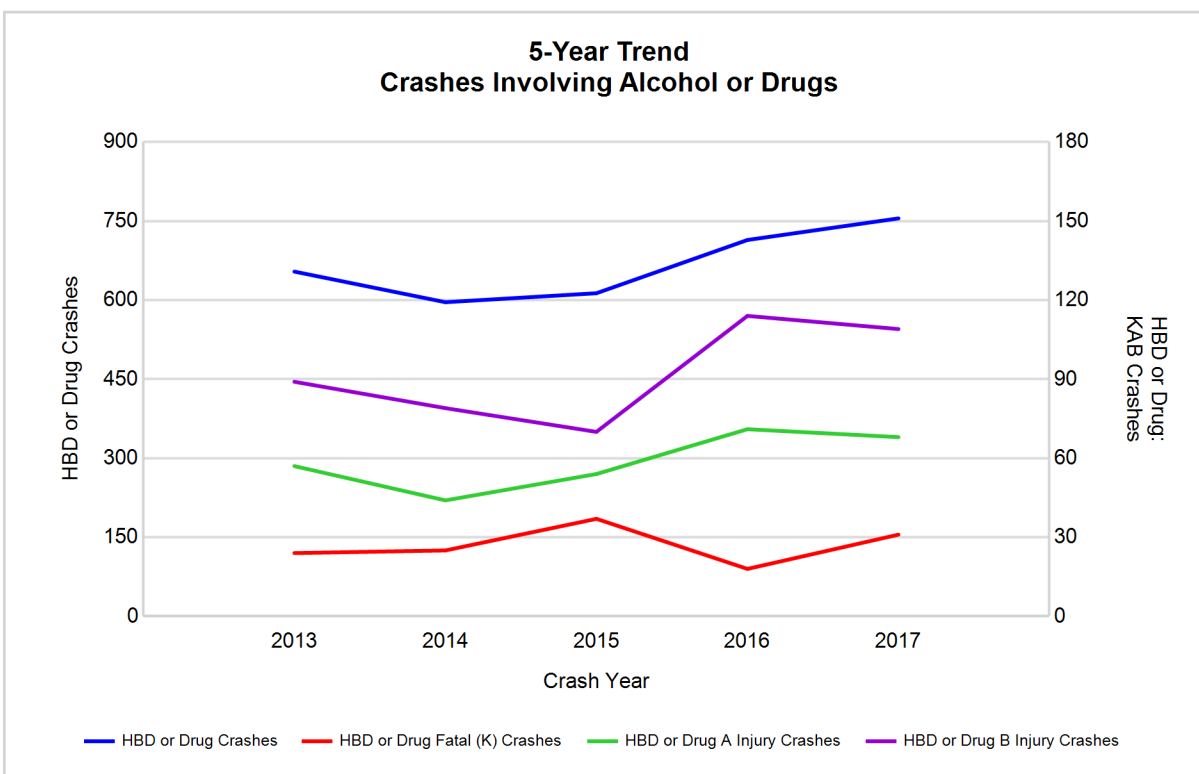
East Central Michigan Prosperity Region (continued)

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
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
2017	18,356**	755**	4.1**	69	31	44.9	326	68	20.9	839**	109	13.0

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)

East Central Michigan Prosperity Region (continued)

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2017 - 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	22,438	20,910	93.2	47	25	53.2	258	192	74.4	760	673	88.6	2,173	2,062	94.9	18,406	17,922	97.4
Motor home	128	122	95.3	0	0	0.0	0	0	0.0	7	7	100.0	9	9	100.0	108	106	98.1
Pickup truck	4,540	4,249	93.6	8	4	50.0	50	36	72.0	145	125	86.2	268	252	94.0	3,932	3,824	97.3
Small truck under 10,000 lbs. GVWR	167	148	88.6	0	0	0.0	2	2	100.0	1	1	100.0	10	10	100.0	143	135	94.4
Motorcycle	182	109	59.9	9	5	55.6	53	30	56.6	57	37	64.9	27	17	63.0	34	20	58.8
Moped / goped	13	5	38.5	1	0	0.0	2	2	100.0	7	2	28.6	3	1	33.3	0	0	0.0
Go-cart / golf cart	2	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	2	0	0.0
Snowmobile	1	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	1	0	0.0	0	0	0.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	40	17	42.5	0	0	0.0	10	2	20.0	15	5	33.3	6	4	66.7	9	6	66.7
Other	148	113	76.4	0	0	0.0	2	0	0.0	2	2	100.0	7	5	71.4	125	106	84.8
Truck/bus over 10,000 lbs.	486	448	92.2	0	0	0.0	7	7	100.0	14	8	57.1	22	12	54.5	430	419	97.4
Unknown	313	0	0.0	1	0	0.0	1	0	0.0	0	0	0.0	0	0	0.0	4	0	0.0
Total	28,458	26,121	91.8	66	34	51.5	385	271	70.4	1,008	860	85.3	2,526	2,372	93.9	23,193	22,538	97.2

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.

2017 - 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	336	297	88.4	1	0	0.0	19	15	78.9	63	53	84.1	221	202	91.4	30	26	86.7
16 - 20	3,618	3,480	96.2	8	4	50.0	48	34	70.8	154	130	84.4	360	337	93.6	3,041	2,971	97.7
21 - 24	2,939	2,803	95.4	10	5	50.0	44	27	61.4	107	87	81.3	236	214	90.7	2,534	2,467	97.4
25 - 64	16,802	16,093	95.8	29	12	41.4	224	155	69.2	557	473	84.9	1,350	1,267	93.9	14,580	14,152	97.1
65 +	3,532	3,440	97.4	18	13	72.2	50	40	80.0	127	117	92.1	358	351	98.0	2,970	2,915	98.1
Unknown	1,231	8	0.6	0	0	0.0	0	0	0.0	0	0	0.0	1	1	100.0	38	7	18.4
Total	28,458	26,121	91.8	66	34	51.5	385	271	70.4	1,008	860	85.3	2,526	2,372	93.9	23,193	22,538	97.2

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	2013			2014			2015			2016			2017		
	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	143	0	30	208	0	23	177	3	28	99	0	19	66	0	11
Shoulder belt only used	12	0	1	38	0	4	30	0	4	77	0	13	122	0	11
Lap belt only used	94	0	12	172	1	14	216	0	23	141	0	18	108	0	14
Both lap & shoulder belts used	24,565	12	2,285	23,535	15	2,121	23,547	23	2,249	24,924	13	2,539	24,855	23	2,483
No belts used	160	11	82	196	11	77	223	16	85	227	4	92	253	14	106
Child restraint used	1	0	0	0	0	0	0	0	0	3	0	0	1	0	0
Child restraint not used, unavailable or improper use	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0
Restraint failure	1	0	0	9	0	2	15	0	1	11	0	2	12	0	3
Restraint use unknown	1,067	2	58	808	2	67	599	5	64	1,308	2	62	1,720	4	84
Helmet worn	165	6	116	140	1	99	134	2	96	155	4	119	112	5	87
Helmet not worn	76	7	55	57	2	44	80	6	56	108	5	71	76	4	58
Helmet use unknown	7	0	4	10	1	6	8	1	4	17	0	13	5	0	3
Uncoded & errors	625	0	1	988	0	2	1,138	0	1	477	0	0	53	0	0
Total	26,917	38	2,644	26,163	33	2,459	26,167	56	2,611	27,547	28	2,948	27,383	50	2,860

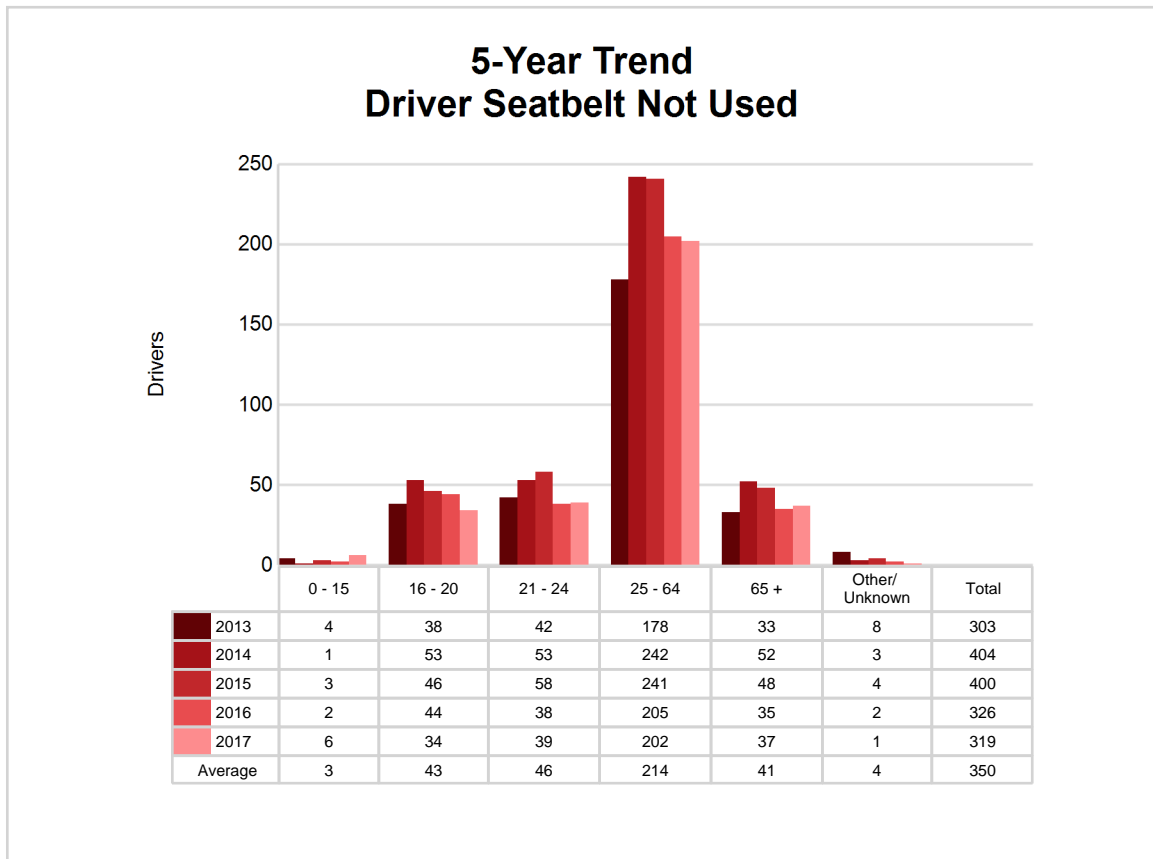
5-Year Trend - Restraint Use Among Drivers Coded Drinking

Restraint Use	2013			2014			2015			2016			2017		
	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	10	0	7	7	0	2	4	1	2	4	0	3	3	0	1
Shoulder belt only used	0	0	0	0	0	0	0	0	0	5	0	1	5	0	2
Lap belt only used	1	0	0	3	0	2	4	0	2	1	0	1	3	0	1
Both lap & shoulder belts used	436	1	104	379	3	82	398	6	84	459	2	122	470	3	130
No belts used	40	7	24	30	4	21	38	7	26	41	2	29	54	5	37
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	1	0	0	0	0	0	0	0	0	0
Restraint use unknown	73	0	20	82	1	25	74	3	16	81	1	18	108	4	30
Helmet worn	10	1	9	4	0	1	7	0	7	8	0	8	8	0	6
Helmet not worn	21	5	13	5	1	3	16	5	9	22	2	15	18	1	15
Helmet use unknown	1	0	1	1	0	1	2	0	2	1	0	1	0	0	0
Uncoded & errors	2	0	0	1	0	0	1	0	0	0	0	0	0	0	0
Total	594	14	178	513	9	138	544	22	148	622	7	198	669	13	222

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

Age Group	2013			2014			2015			2016			2017		
	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	2	1	1	0	3	1	2	2	0	1	6	0	4
16 - 20	38	1	16	53	2	14	46	2	9	44	0	15	34	0	15
21 - 24	42	1	22	53	1	19	58	3	21	38	0	15	39	3	18
25 - 64	178	6	59	242	4	57	241	11	66	205	4	66	202	7	71
65 +	33	3	11	52	3	10	48	2	14	35	0	14	37	4	9
Unknown	8	0	2	3	0	0	4	0	1	2	0	0	1	0	0
Total	303	11	112	404	11	100	400	19	113	326	4	111	319	14	117

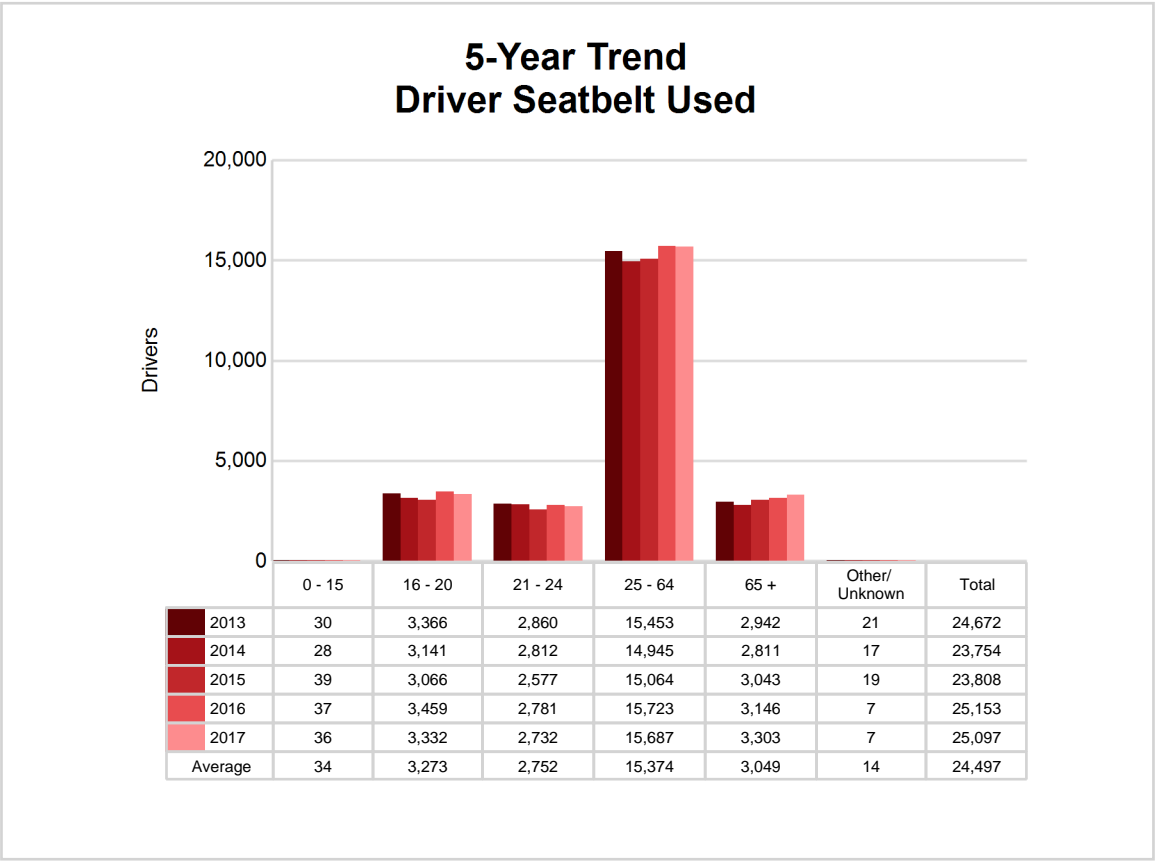
Note: Seatbelt Not Used includes no belts available or no belts used.



5-Year Trend - Seatbelt Used Among Drivers by Age

Age Group	2013			2014			2015			2016			2017		
	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	30	0	3	28	0	5	39	0	3	37	0	5	36	0	9
16 - 20	3,366	0	335	3,141	1	294	3,066	1	328	3,459	1	380	3,332	3	355
21 - 24	2,860	1	272	2,812	1	274	2,577	0	261	2,781	2	264	2,732	4	261
25 - 64	15,453	6	1,402	14,945	10	1,262	15,064	14	1,340	15,723	7	1,546	15,687	7	1,510
65 +	2,942	5	286	2,811	4	305	3,043	8	344	3,146	3	377	3,303	9	376
Unknown	21	0	0	17	0	1	19	0	1	7	0	0	7	0	0
Total	24,672	12	2,298	23,754	16	2,141	23,808	23	2,277	25,153	13	2,572	25,097	23	2,511

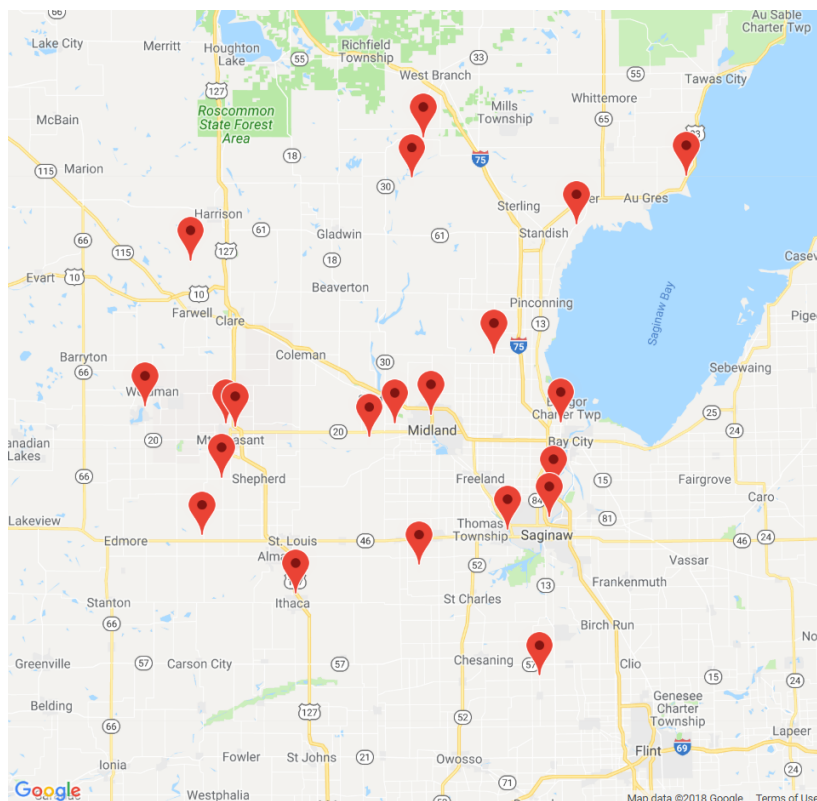
Note: Seatbelt Used includes shoulder belt only used, lap belt only used, both lap and shoulder belts used, and restraint failure.



5-Year Trend - Drivers in Crashes by Hazardous Action

Hazardous Action	2013		2014		2015		2016		2017	
	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	14,671	26	14,496	30	14,796	41	15,187	27	15,364	48
Speed too fast	2,737	14	2,367	10	1,904	20	2,295	5	2,058	7
Speed too slow	25	0	36	0	37	0	27	0	25	0
Failed to yield	2,294	5	2,265	3	2,312	7	2,450	4	2,397	13
Disregard traffic control	632	3	544	4	630	5	636	2	589	8
Drove wrong way	14	0	22	1	28	1	24	2	17	1
Drove left of center	113	4	111	6	113	2	121	1	118	6
Improper passing	106	1	111	0	101	0	128	1	136	0
Improper lane use	395	0	347	0	430	0	403	2	376	0
Improper turn	252	0	281	1	307	0	316	0	344	0
Improper/no signal	47	0	52	0	50	0	29	0	25	0
Improper backing	466	0	502	0	497	0	503	0	397	0
Unable to stop in assured clear distance	2,663	4	2,657	2	2,674	3	2,797	2	2,640	3
Other	884	7	895	6	870	9	958	3	942	7
Unknown	671	7	503	6	413	11	569	4	793	7
Reckless driving	106	1	130	0	147	2	124	2	114	5
Careless/negligent driving	769	5	792	3	821	8	907	4	965	3
Uncoded & errors	72	1	52	0	37	0	73	0	83	2
Total	26,917	78	26,163	72	26,167	109	27,547	59	27,383	110

East Central Michigan Prosperity Region (continued)



The picture above represents all 2017 alcohol-involved fatal crashes in East Central Michigan Prosperity Region.

In 2017, there were 674 alcohol-involved crashes in East Central Michigan Prosperity Region:

21	K - Fatal Crashes
64	A - Suspected Serious Injury Crashes
98	B - Suspected Minor Injury Crashes
111	C - Possible Injury Crashes
380	O - Property Damage Only/No Injury Crashes

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