



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)



Macomb County

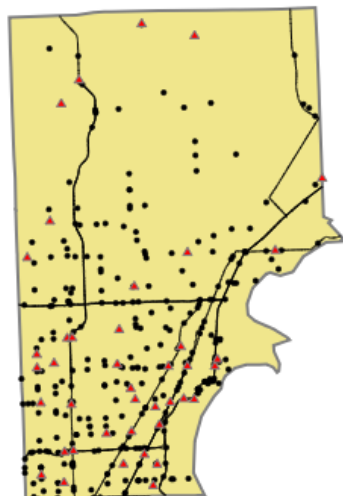
2017 Traffic Crash Data & 2013-2017 5-Year Trends



Sources:

The crashes in this report occurred on public roadways in Michigan and resulted in injuries, fatalities, or property damage (with \$1,000 as a reporting threshold). The information was gathered from Michigan Traffic Crash Report Forms (UD-10) submitted by local police departments, sheriff's offices, and the Michigan State Police. Other related information was obtained from the departments of Transportation, State, and Community Health.

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Crashes by most severe injury (mapped/actual)

▲ K - Fatal (41/41)

● A - Suspected Serious (305/306)

Macomb County

In 2017:

There were 49,789 drivers involved in 25,385 motor vehicle crashes in Macomb County. Of those crashes, 41 were classified as fatal, resulting in 42 fatalities. An additional 7,348 persons were injured.

Macomb County experienced the highest number of motor vehicle crashes (2,748) in December, the highest number of fatal crashes (6) and the highest number of persons killed (6) in June and September.

Michigan driver statistics indicate 6.5 percent of licensed drivers in Macomb County were age 16-20, and 11.0 percent of drivers in crashes were also in that age group.

2017 - Crashes and Injuries by Month

Month	Crashes				Persons	
	Total	Fatal	Injury	Property Damage Only (PDO)	Fatalities	Injuries
January	2,018	3	401	1,614	4	546
February	1,646	3	374	1,269	3	508
March	2,190	2	467	1,721	2	613
April	1,865	3	399	1,463	3	526
May	2,273	5	517	1,751	5	709
June	2,161	6	478	1,677	6	666
July	1,901	1	467	1,433	1	620
August	2,014	3	472	1,539	3	614
September	2,034	6	461	1,567	6	623
October	2,365	4	510	1,851	4	704
November	2,170	4	438	1,728	4	586
December	2,748	1	470	2,277	1	633
Total	25,385	41	5,454	19,890	42	7,348

2017 - Driver Statistics

Age Group	Macomb County			Driver Rates	
	2017 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	162,034	4,319	63	3.9	145.9
16 - 20	50,535	43,115	5,496	1,087.6	1,274.7
21 - 24	44,463	42,875	4,578	1,029.6	1,067.8
25 - 64	469,634	449,494	30,286	644.9	673.8
65 +	144,709	126,080	4,880	337.2	387.1
Unknown	0	0	4,486	- -	- -
Total	871,375	665,883	49,789	571.4	747.7

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	42,135	84.6	51	73.9	9,453	32,631
Motor home	36	0.1	1	1.4	5	30
Pickup truck	4,877	9.8	6	8.7	976	3,895
Small truck under 10,000 lbs. GVWR	276	0.6	0	0.0	50	226
Motorcycle	240	0.5	10	14.5	167	63
Moped / goped	16	0.0	0	0.0	13	3
Go-cart / golf cart	1	0.0	0	0.0	1	0
Snowmobile	2	0.0	0	0.0	0	2
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	5	0.0	0	0.0	5	0
Other	144	0.3	0	0.0	28	116
Truck/bus over 10,000 lbs.	1,108	2.2	1	1.4	211	896
Unknown	949	1.9	0	0.0	70	879
Total	49,789	100.0	69	100.0	10,979	38,741

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	1,898	4	2,741	1	2,391	2	2,025	3	2,018	3
February	1,818	4	2,157	4	2,121	5	2,033	6	1,646	3
March	1,776	5	2,016	1	1,904	2	2,001	3	2,190	2
April	1,792	4	1,553	2	1,744	2	1,970	6	1,865	3
May	2,102	5	1,980	4	2,098	9	2,014	4	2,273	5
June	1,902	4	1,975	4	2,025	5	2,046	4	2,161	6
July	1,840	5	1,693	3	1,964	9	1,973	4	1,901	1
August	1,682	3	1,858	3	1,874	4	2,024	7	2,014	3
September	1,936	8	2,020	3	2,174	2	2,263	8	2,034	6
October	2,199	2	2,286	7	2,217	2	2,325	4	2,365	4
November	1,946	3	2,322	3	2,167	4	2,184	9	2,170	4
December	2,324	2	1,870	6	2,183	9	2,553	2	2,748	1
Total	23,215	49	24,471	41	24,862	55	25,411	60	25,385	41

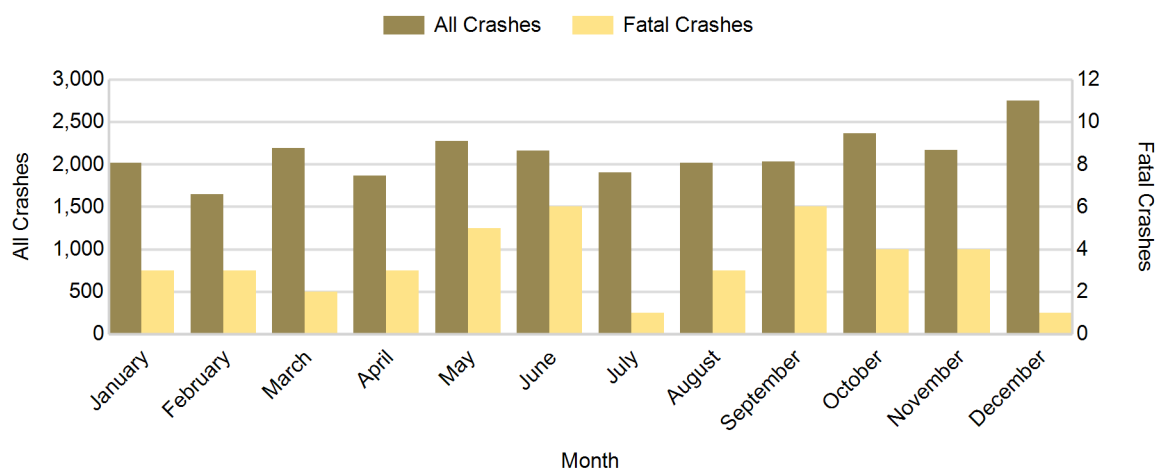
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

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	3,450	6	3,681	4	3,808	5	3,655	6	3,925	4
Tuesday	3,514	10	3,973	2	4,054	4	4,013	7	4,148	7
Wednesday	3,686	5	4,079	5	4,023	8	4,179	17	4,003	6
Thursday	3,756	6	3,825	10	3,724	8	4,040	10	4,037	9
Friday	3,590	3	3,973	3	3,967	15	4,253	8	4,034	4
Saturday	3,150	13	2,768	9	3,053	10	2,930	10	2,992	3
Sunday	2,069	6	2,172	8	2,233	5	2,341	2	2,246	8
Total	23,215	49	24,471	41	24,862	55	25,411	60	25,385	41

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

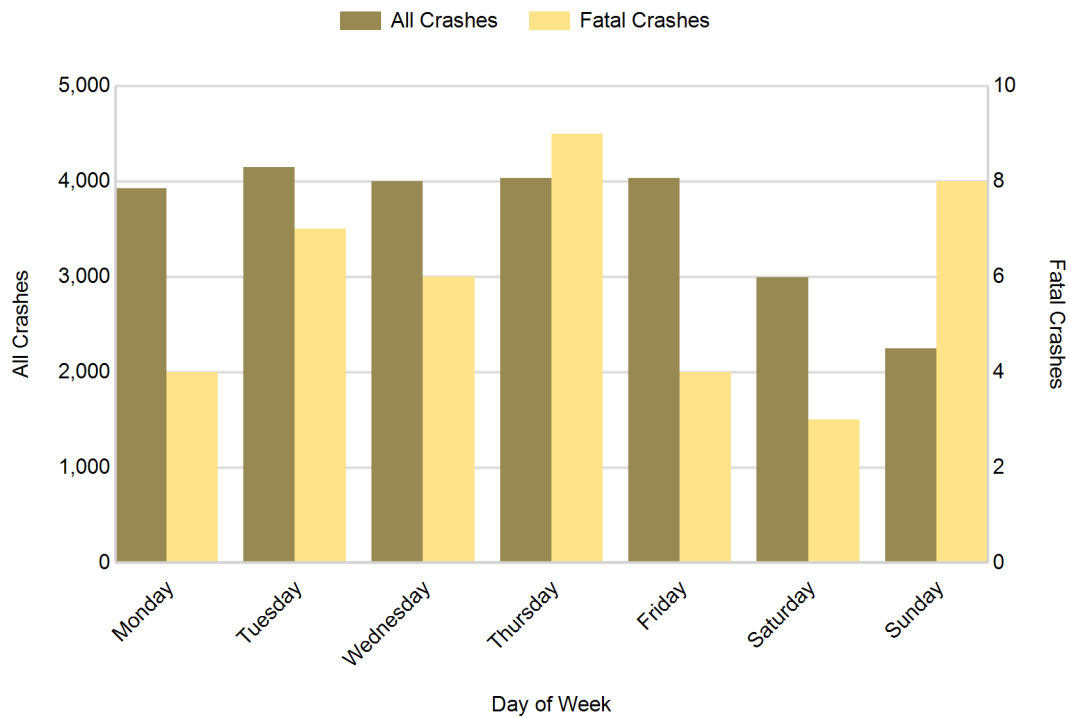
2017 Crashes by Month



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	3,925	15.5	4	9.8	44	201	580	3,096
Tuesday	4,148	16.3	7	17.1	39	221	609	3,272
Wednesday	4,003	15.8	6	14.6	50	224	568	3,155
Thursday	4,037	15.9	9	22.0	47	230	591	3,160
Friday	4,034	15.9	4	9.8	41	236	597	3,156
Saturday	2,992	11.8	3	7.3	49	186	418	2,336
Sunday	2,246	8.8	8	19.5	36	152	335	1,715
Total	25,385	100.0	41	100.0	306	1,450	3,698	19,890

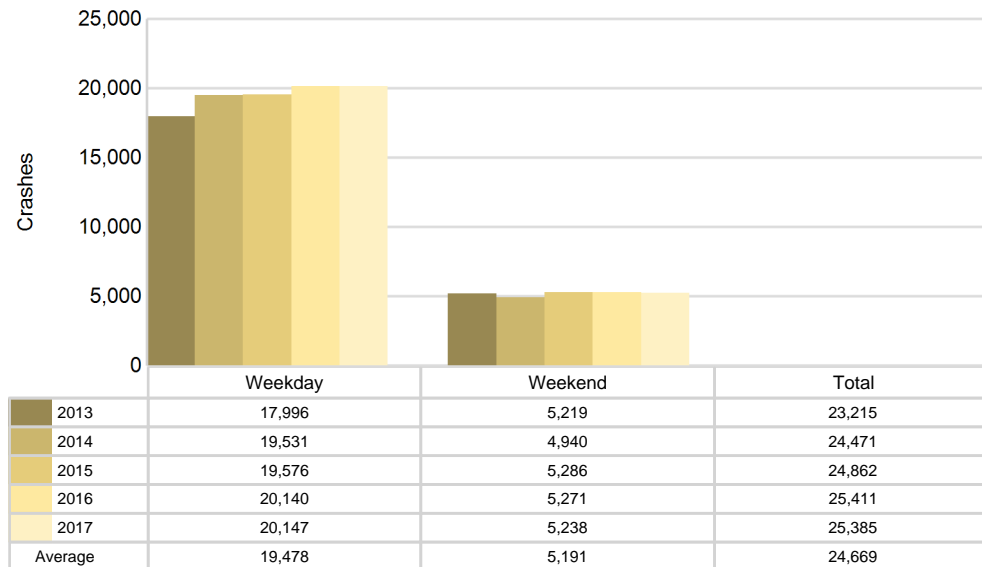
2017 Day of Week and Severity



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	17,996	30	19,531	24	19,576	40	20,140	48	20,147	30
Weekend	5,219	19	4,940	17	5,286	15	5,271	12	5,238	11
Total	23,215	49	24,471	41	24,862	55	25,411	60	25,385	41

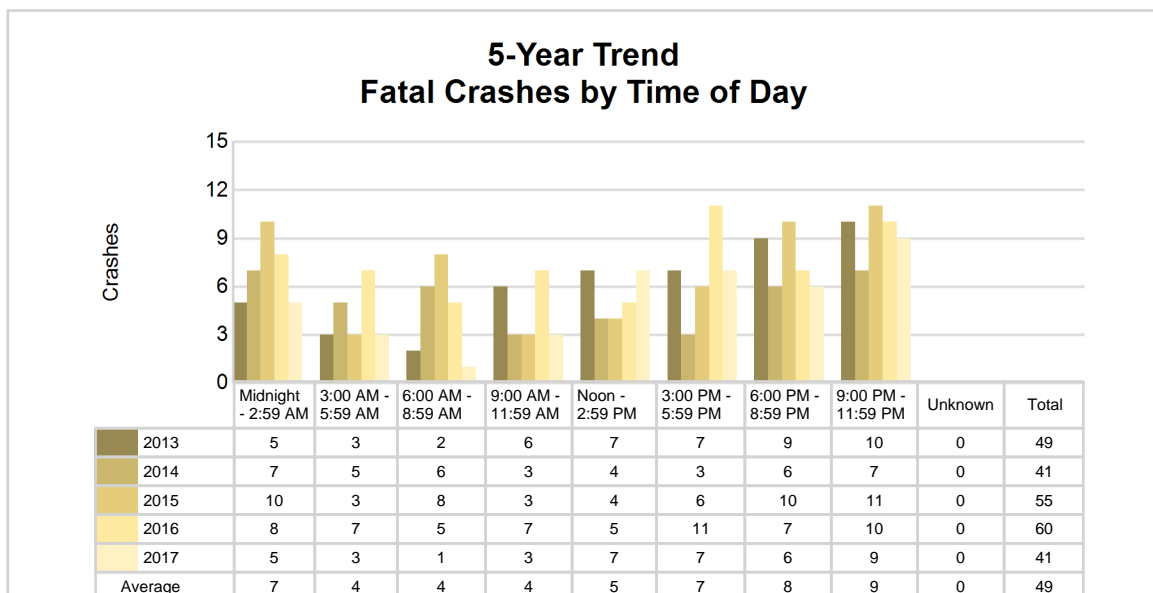
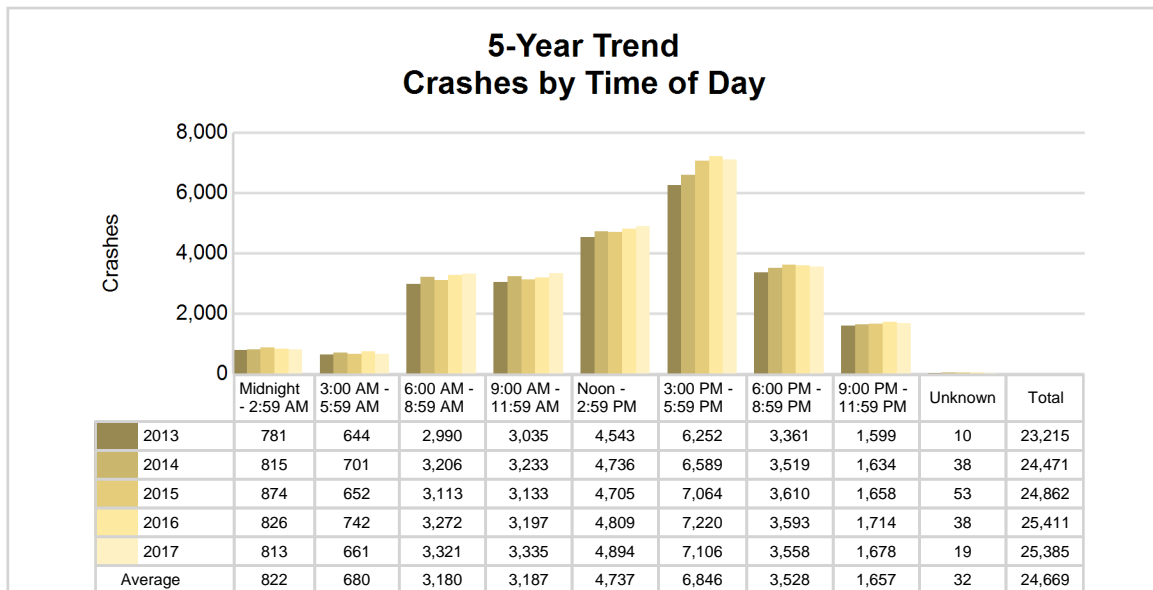
5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



5-Year Trend - Crashes by Time of Day

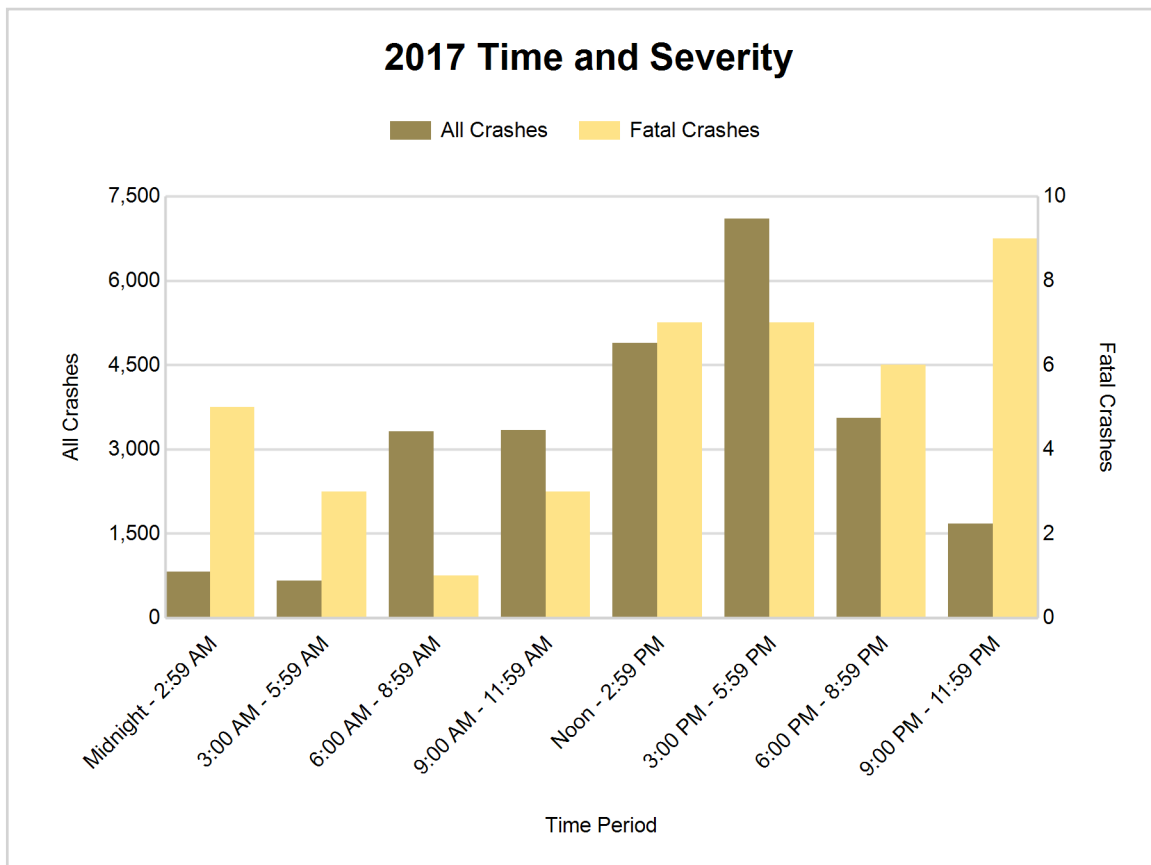
Time of Day	2013		2014		2015		2016		2017	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	781	5	815	7	874	10	826	8	813	5
3:00 AM - 5:59 AM	644	3	701	5	652	3	742	7	661	3
6:00 AM - 8:59 AM	2,990	2	3,206	6	3,113	8	3,272	5	3,321	1
9:00 AM - 11:59 AM	3,035	6	3,233	3	3,133	3	3,197	7	3,335	3
Noon - 2:59 PM	4,543	7	4,736	4	4,705	4	4,809	5	4,894	7
3:00 PM - 5:59 PM	6,252 †	7	6,589 †	3	7,064 †	6	7,220 †	11	7,106 †	7
6:00 PM - 8:59 PM	3,361	9	3,519	6	3,610	10	3,593	7	3,558	6
9:00 PM - 11:59 PM	1,599	10	1,634	7	1,658	11	1,714	10	1,678	9
Unknown	10	0	38	0	53	0	38	0	19	0
Total	23,215	49	24,471	41	24,862	55	25,411	60	25,385	41

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



2017 - Time and Severity

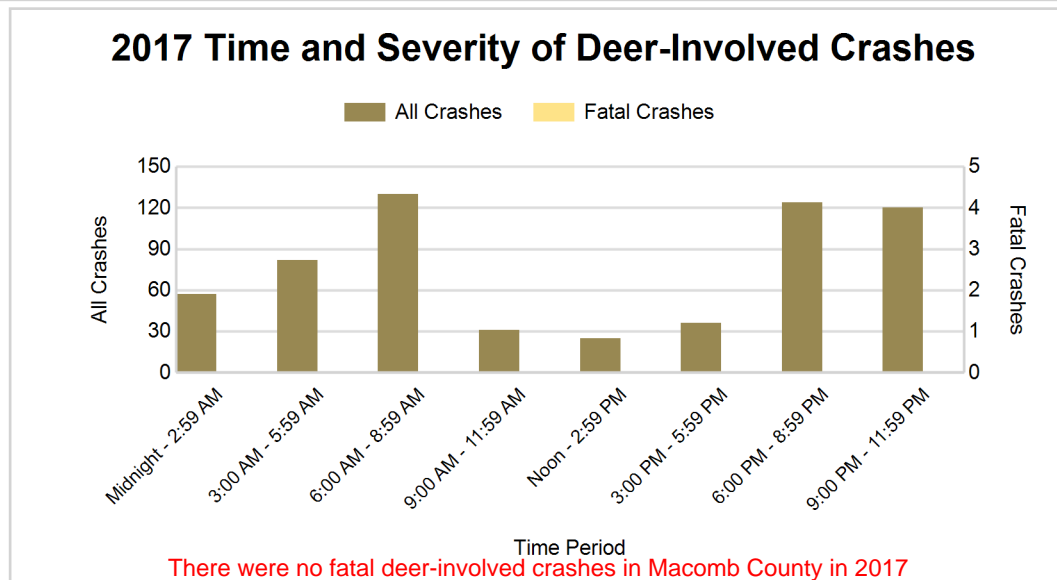
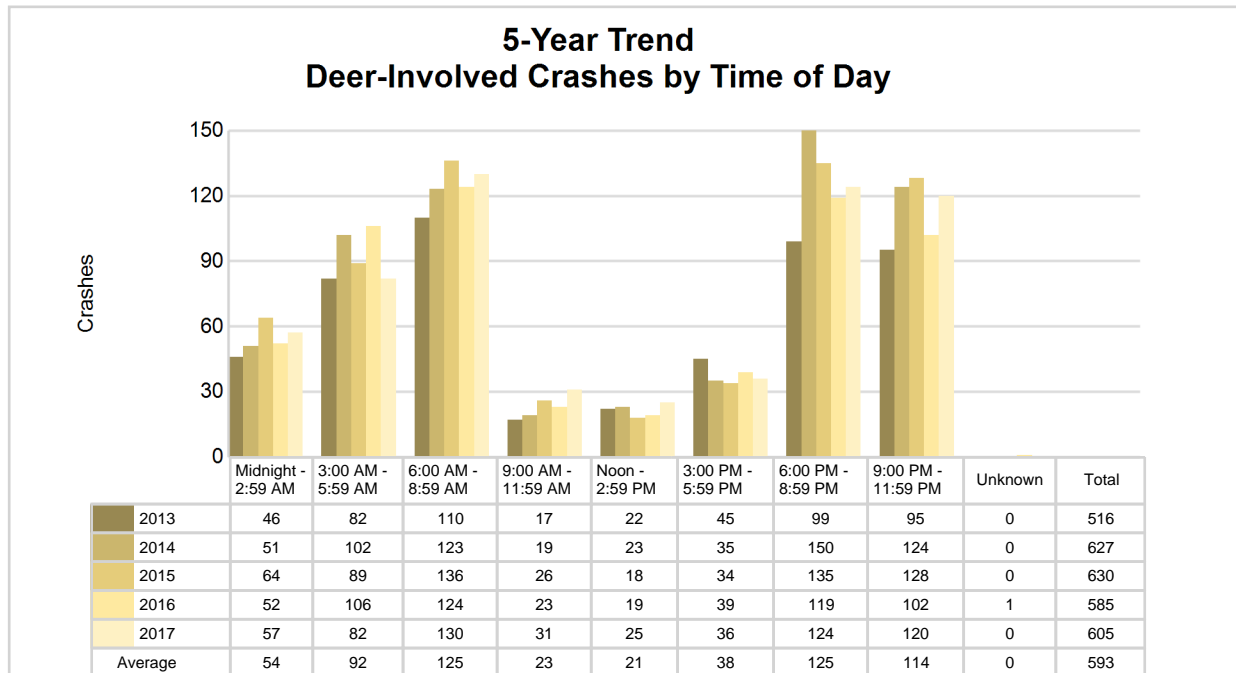
Time of Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Midnight - 2:59 AM	813	3.2	5	12.2	17	79	115	597
3:00 AM - 5:59 AM	661	2.6	3	7.3	16	46	79	517
6:00 AM - 8:59 AM	3,321	13.1	1	2.4	33	189	447	2,651
9:00 AM - 11:59 AM	3,335	13.1	3	7.3	41	201	483	2,607
Noon - 2:59 PM	4,894	19.3	7	17.1	46	283	733	3,825
3:00 PM - 5:59 PM	7,106	28.0	7	17.1	67	346	1,092	5,594
6:00 PM - 8:59 PM	3,558	14.0	6	14.6	52	208	533	2,759
9:00 PM - 11:59 PM	1,678	6.6	9	22.0	34	98	213	1,324
Unknown	19	0.1	0	0.0	0	0	3	16
Total	25,385	100.0	41	100.0	306	1,450	3,698	19,890



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	46	0	51	0	64	0	52	0	57	0
3:00 AM - 5:59 AM	82	0	102	0	89	0	106	0	82	0
6:00 AM - 8:59 AM	110	0	123	0	136	0	124	0	130	0
9:00 AM - 11:59 AM	17	0	19	0	26	0	23	0	31	0
Noon - 2:59 PM	22	0	23	0	18	0	19	0	25	0
3:00 PM - 5:59 PM	45	0	35	0	34	0	39	0	36	0
6:00 PM - 8:59 PM	99	0	150	0	135	0	119	0	124	0
9:00 PM - 11:59 PM	95	0	124	0	128	0	102	0	120	0
Unknown	0	0	0	0	0	0	1	0	0	0
Total	516	0	627	0	630	0	585	0	605	0

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



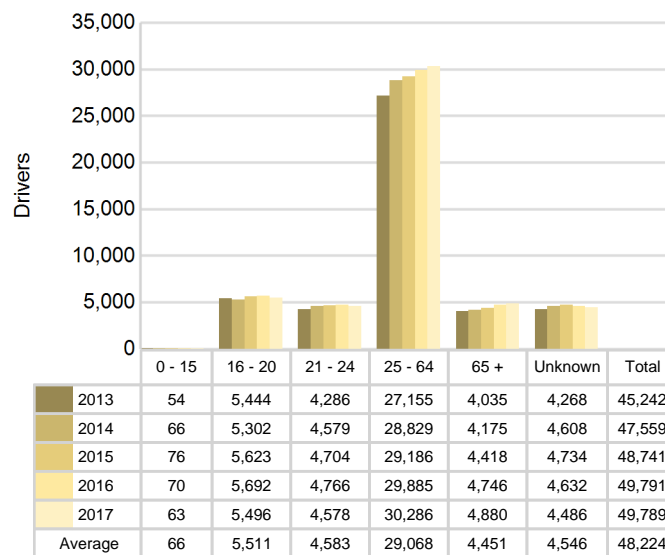
2017 - Reported Motor Vehicle Crashes by Municipality

Municipality	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Armada	10	0	3	7	0	0	0	10	0	0	1	0	3
Armada Twp.	113	2	32	79	0	0	0	113	4	2	33	2	42
Bruce Twp.	161	2	37	122	0	0	94	67	11	5	46	2	56
Center Line	370	1	76	293	185	0	112	72	12	4	0	1	96
Chesterfield Twp.	1,105	1	284	820	260	0	467	376	48	17	50	1	391
Clinton Twp.	2,454	2	573	1,879	193	0	759	1,502	70	19	26	2	778
Eastpointe	688	2	169	517	3	0	244	441	36	19	0	2	244
Fraser	434	2	90	342	0	0	137	297	13	3	4	2	122
Grosse Pte. Shores	0	0	0	0	0	0	0	0	0	0	0	0	0
Harrison Twp.	685	2	168	515	363	0	55	267	37	12	19	2	219
Lake Twp.	0	0	0	0	0	0	0	0	0	0	0	0	0
Lenox Twp.	180	1	42	137	34	0	23	123	4	3	46	1	58
Macomb Twp.	1,783	2	403	1,378	0	0	657	1,125	35	12	57	2	573
Memphis	6	0	1	5	0	0	6	0	0	0	1	0	2
Mt. Clemens	541	1	109	431	1	0	291	249	21	10	2	1	155
New Baltimore	196	0	45	151	0	0	105	90	13	3	12	0	68
New Haven	81	0	21	60	0	0	42	38	3	1	5	0	33
Ray Twp.	219	0	55	164	0	0	0	219	11	2	63	0	78
Richmond	117	0	27	90	0	0	81	36	2	1	7	0	31
Richmond Twp.	87	0	20	67	0	0	20	67	4	3	37	0	26
Romeo	129	0	26	103	0	0	42	84	1	1	5	0	40
Roseville	2,011	5	426	1,580	512	0	817	682	61	24	1	5	575
St. Clair Shores	1,522	2	299	1,221	537	0	0	985	59	17	1	2	380
Shelby Twp.	1,948	2	428	1,518	0	0	287	1,657	58	16	53	2	559
Sterling Heights	4,775	7	954	3,814	0	0	1,274	3,501	81	25	37	8	1,270
Utica	552	0	91	461	0	0	365	187	15	2	0	0	115
Warren	4,640	7	963	3,670	972	0	764	2,901	112	51	9	7	1,285
Washington Twp.	578	0	112	466	0	0	176	400	20	4	90	0	149
Unknown Community	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	25,385	41	5,454	19,890	3,060	0	6,818	15,489	731	256	605	42	7,348

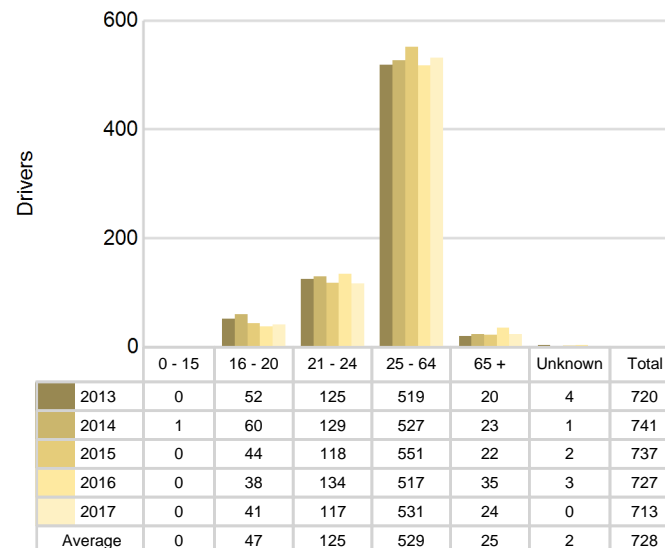
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

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	54	0	66	1	76	0	70	0	63	0
16 - 20	5,444	52	5,302	60	5,623	44	5,692	38	5,496	41
21 - 24	4,286	125	4,579	129	4,704	118	4,766	134	4,578	117
25 - 64	27,155	519	28,829	527	29,186	551	29,885	517	30,286	531
65 +	4,035	20	4,175	23	4,418	22	4,746	35	4,880	24
Unknown	4,268	4	4,608	1	4,734	2	4,632	3	4,486	0
Total	45,242	720	47,559	741	48,741	737	49,791	727	49,789	713

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



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



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	0	0	0	0	0	0	0	0
16 - 20	67	57	35	41	2	6	5	12	16
21 - 24	166	111	99	117	0	5	31	38	43
25 - 64	837	521	451	531	15	20	119	187	190
65 +	51	25	21	24	0	3	6	7	8
Unknown	130	0	0	0	0	0	0	0	0
Total	1,252	714	606	713	17	34	161	244	257

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 1,252 drivers in alcohol-involved crashes; 713 (56.9%) of those drivers were coded as had-been-drinking by the officer on the crash form.

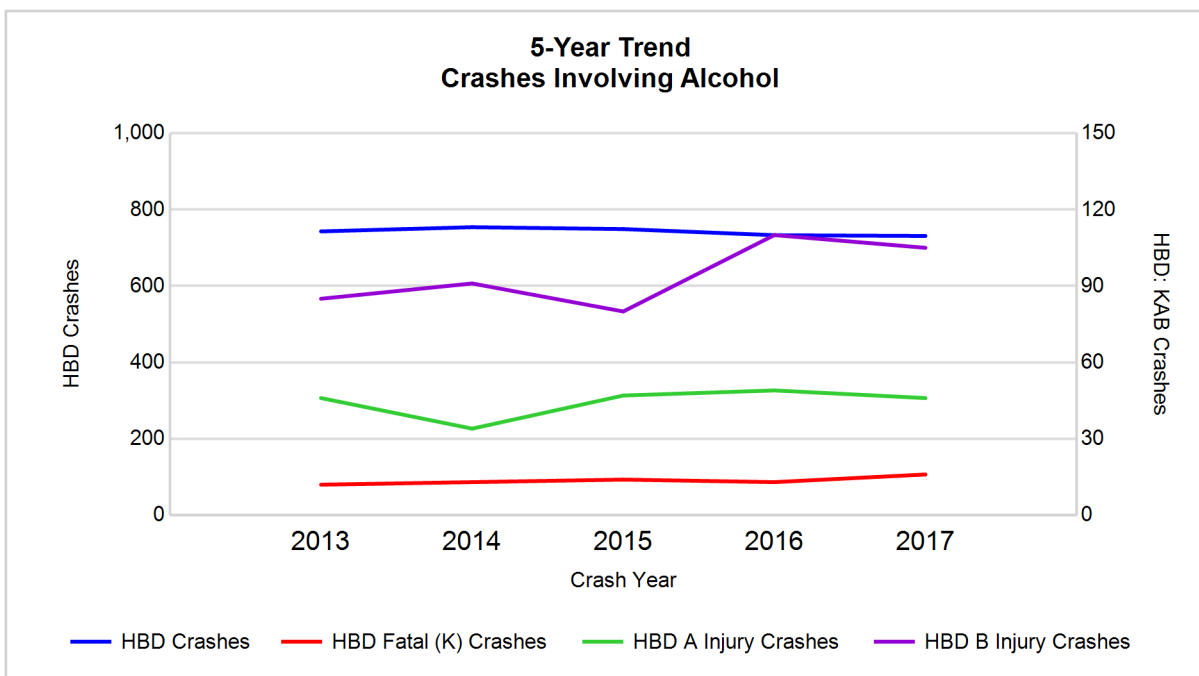
- 405 (56.8%) of the 713 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 244 (60.2%) of the 405 drivers had a BAC at or above 0.17 g/dL.
- 606 (85.0%) of the 713 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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	23,215	743	3.2	49	12	24.5	284	46	16.2	1,158	85	7.3
2014	24,471	754	3.1	41	13	31.7	243	34	14.0	1,210	91	7.5
2015	24,862	749	3.0	55	14	25.5	284	47	16.5	1,100	80	7.3
2016	25,411	733	2.9	60	13	21.7	288	49	17.0	1,305	110	8.4
2017	25,385	731*	2.9	41	16**	39.0**	306**	46	15.0	1,450**	105	7.2*

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



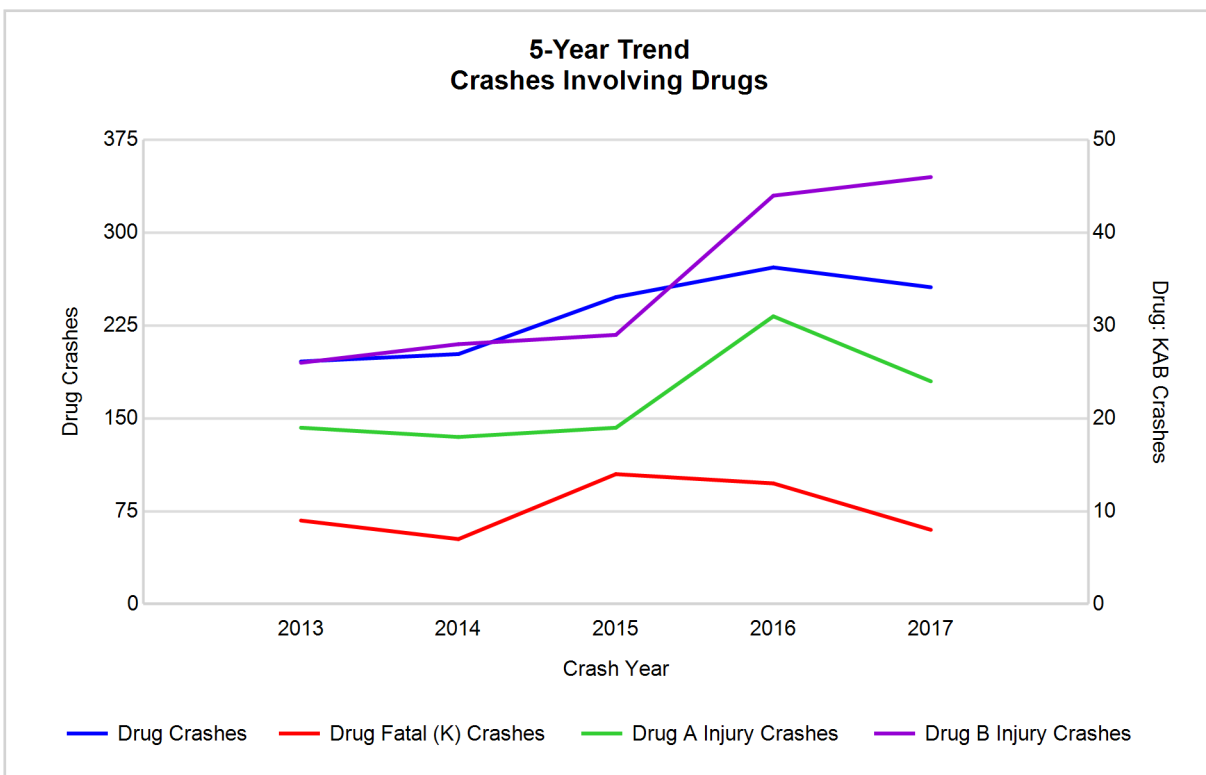
Note: Had-Been-Drinking (HBD)

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	23,215	196	0.8	49	9	18.4	284	19	6.7	1,158	26	2.2
2014	24,471	202	0.8	41	7	17.1	243	18	7.4	1,210	28	2.3
2015	24,862	248	1.0	55	14	25.5	284	19	6.7	1,100	29	2.6
2016	25,411	272	1.1	60	13	21.7	288	31	10.8	1,305	44	3.4
2017	25,385	256	1.0	41	8	19.5	306**	24	7.8	1,450**	46**	3.2

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

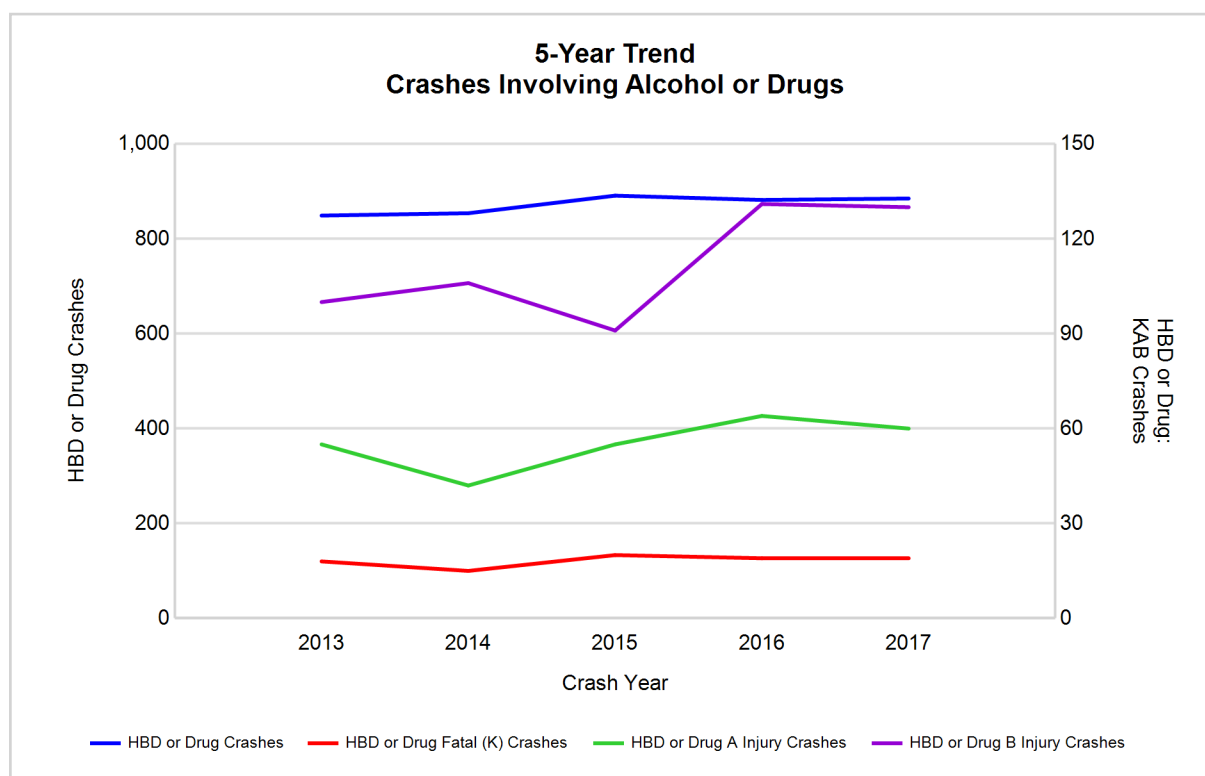


5-Year Trend - Crashes Involving Alcohol or Drugs

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
2013	23,215	849	3.7	49	18	36.7	284	55	19.4	1,158	100	8.6
2014	24,471	854	3.5	41	15	36.6	243	42	17.3	1,210	106	8.8
2015	24,862	891	3.6	55	20	36.4	284	55	19.4	1,100	91	8.3
2016	25,411	882	3.5	60	19	31.7	288	64	22.2	1,305	131	10.0
2017	25,385	885	3.5	41	19	46.3**	306**	60	19.6	1,450**	130	9.0

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)

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	43,482	39,162	90.1	18	10	55.6	248	192	77.4	1,387	1,295	93.4	4,684	4,514	96.4	33,936	33,144	97.7
Motor home	36	33	91.7	0	0	0.0	0	0	0.0	1	1	100.0	2	2	100.0	30	30	100.0
Pickup truck	4,954	4,354	87.9	0	0	0.0	30	24	80.0	103	93	90.3	331	315	95.2	4,022	3,919	97.4
Small truck under 10,000 lbs. GVWR	282	253	89.7	0	0	0.0	0	0	0.0	3	3	100.0	13	11	84.6	244	239	98.0
Motorcycle	256	176	68.8	10	4	40.0	44	30	68.2	85	63	74.1	48	36	75.0	61	43	70.5
Moped / goped	16	6	37.5	0	0	0.0	2	0	0.0	7	5	71.4	4	1	25.0	3	0	0.0
Go-cart / golf cart	1	0	0.0	0	0	0.0	0	0	0.0	1	0	0.0	0	0	0.0	0	0	0.0
Snowmobile	2	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	5	0	0.0	0	0	0.0	2	0	0.0	1	0	0.0	2	0	0.0	0	0	0.0
Other	145	104	71.7	0	0	0.0	1	1	100.0	5	1	20.0	7	6	85.7	107	96	89.7
Truck/bus over 10,000 lbs.	1,128	1,026	91.0	0	0	0.0	0	0	0.0	11	11	100.0	45	27	60.0	1,013	987	97.4
Unknown	949	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Total	51,256	45,114	88.0	28	14	0.0	327	247	75.5	1,604	1,472	91.8	5,136	4,912	95.6	39,416	38,458	97.6

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	449	414	92.2	0	0	0.0	7	4	57.1	65	57	87.7	328	310	94.5	48	43	89.6
16 - 20	5,696	5,494	96.5	2	1	50.0	35	24	68.6	200	183	91.5	534	511	95.7	4,890	4,773	97.6
21 - 24	4,690	4,484	95.6	5	3	60.0	36	26	72.2	170	157	92.4	472	441	93.4	3,976	3,857	97.0
25 - 64	30,877	29,781	96.5	16	7	43.8	206	158	76.7	959	870	90.7	3,205	3,066	95.7	26,315	25,675	97.6
65 +	5,056	4,938	97.7	5	3	60.0	42	34	81.0	209	204	97.6	595	583	98.0	4,185	4,110	98.2
Unknown	4,488	3	0.1	0	0	0.0	1	1	100.0	1	1	100.0	2	1	50.0	2	0	0.0
Total	51,256	45,114	88.0	28	14	0.0	327	247	75.5	1,604	1,472	91.8	5,136	4,912	95.6	39,416	38,458	97.6

Note: Restraint Use includes shoulder belt only used, lap belt only used, both lap and shoulder belts used, child restraint used, restraint failure, and helmet worn.

5-Year Trend - Restraint Use Among Drivers

Restraint Use	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	81	0	7	47	1	8	152	1	22	66	0	13	43	0	10
Shoulder belt only used	31	0	2	17	0	2	16	0	2	100	0	18	154	0	19
Lap belt only used	54	0	9	49	0	6	94	0	15	56	0	7	50	0	6
Both lap & shoulder belts used	39,628	14	4,612	41,749	14	4,917	42,310	16	5,063	43,369	17	5,064	43,408	9	5,161
No belts used	201	6	97	150	3	65	175	9	67	198	3	88	151	2	85
Child restraint used	0	0	0	0	0	0	0	0	0	4	0	1	2	0	1
Child restraint not used, unavailable or improper use	0	0	0	1	0	0	3	0	1	1	0	0	0	0	0
Restraint failure	0	0	0	1	0	0	2	0	0	2	0	0	9	0	1
Restraint use unknown	4,210	5	84	4,454	4	93	3,894	3	153	4,648	6	130	4,605	1	148
Helmet worn	176	9	130	133	3	101	168	5	127	159	5	112	169	4	122
Helmet not worn	72	3	58	66	2	52	87	3	67	74	3	54	70	5	50
Helmet use unknown	8	0	4	15	2	7	11	0	4	15	1	5	10	1	3
Uncoded & errors	781	0	0	877	0	0	1,829	0	2	1,099	0	0	1,118	0	0
Total	45,242	37	5,003	47,559	29	5,251	48,741	37	5,523	49,791	35	5,492	49,789	22	5,606

5-Year Trend - Restraint Use Among Drivers Coded Drinking

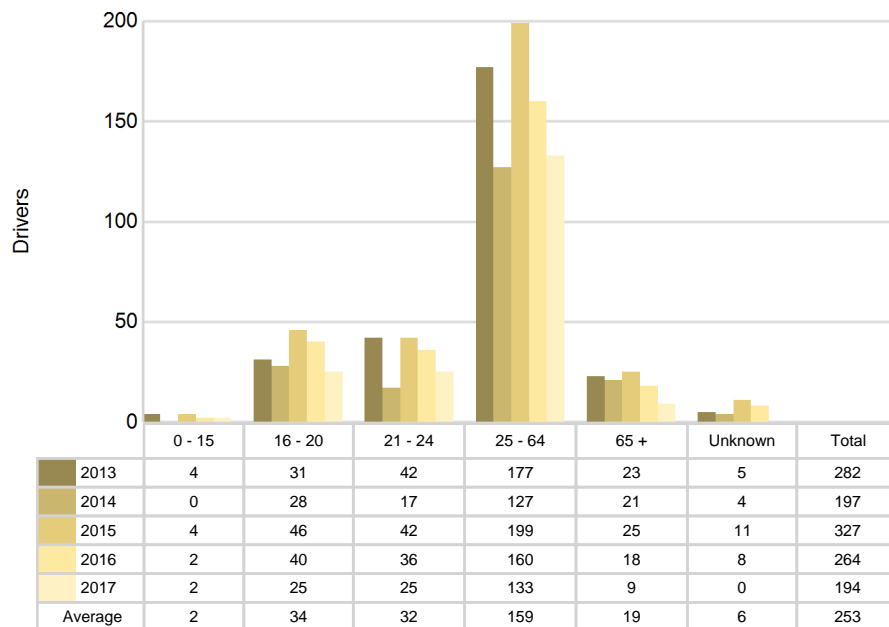
Restraint Use	2013			2014			2015			2016			2017		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	3	0	1	1	0	0	6	0	2	1	0	1	0	0	0
Shoulder belt only used	1	0	0	1	0	1	0	0	0	1	0	0	1	0	0
Lap belt only used	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Both lap & shoulder belts used	563	0	111	604	1	127	565	3	105	576	3	141	563	3	131
No belts used	38	2	27	25	2	13	30	2	18	33	0	17	23	2	15
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	108	2	25	97	1	22	123	1	38	98	2	25	116	0	27
Helmet worn	1	0	1	3	0	2	6	0	6	10	0	9	2	0	2
Helmet not worn	5	1	4	9	0	8	7	0	7	7	1	6	7	1	6
Helmet use unknown	1	0	0	0	0	0	0	0	0	1	0	1	1	0	1
Uncoded & errors	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	720	5	169	741	4	173	737	6	176	727	6	200	713	6	182

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	0	0	0	4	0	0	2	0	0	2	0	1
16 - 20	31	0	11	28	0	7	46	2	13	40	1	22	25	0	12
21 - 24	42	2	20	17	1	4	42	1	14	36	0	23	25	1	14
25 - 64	177	3	63	127	1	55	199	6	55	160	1	47	133	1	66
65 +	23	1	8	21	2	7	25	1	7	18	1	9	9	0	2
Unknown	5	0	0	4	0	0	11	0	0	8	0	0	0	0	0
Total	282	6	104	197	4	73	327	10	89	264	3	101	194	2	95

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

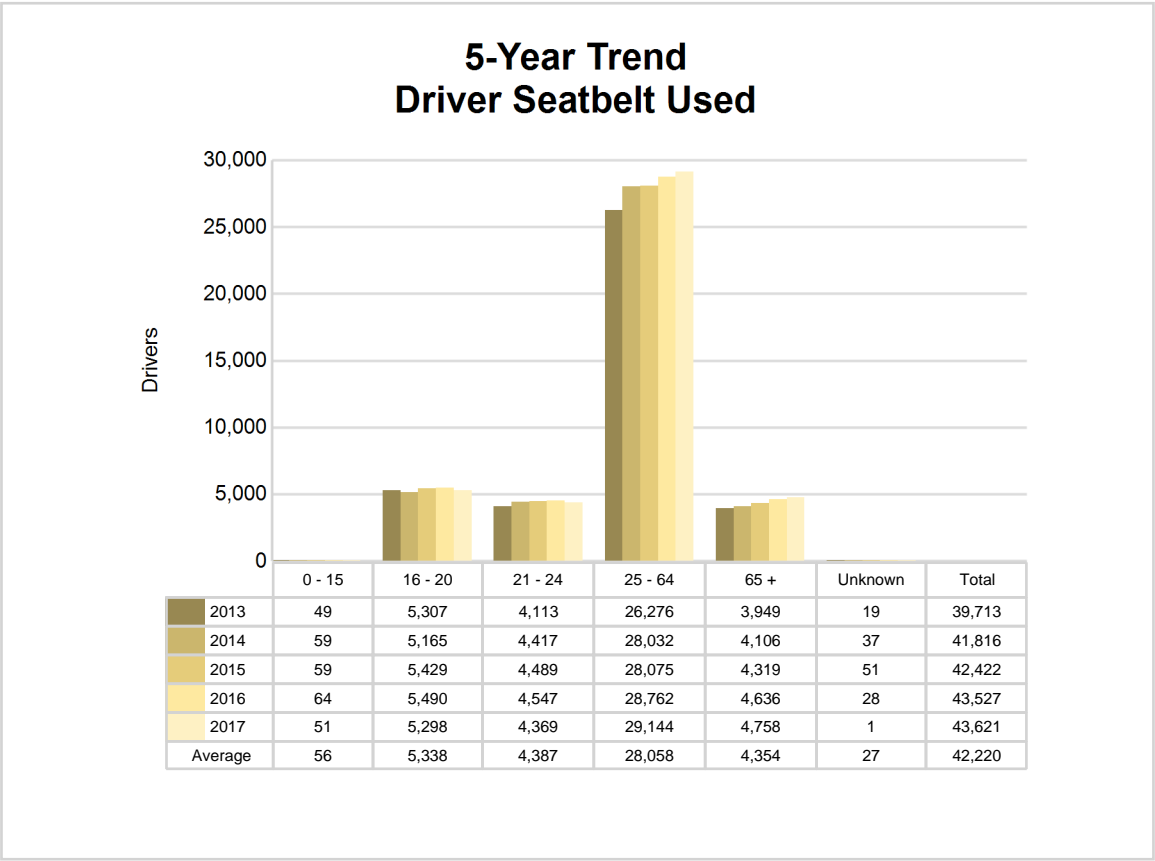
5-Year Trend Driver Seatbelt Not Used



5-Year Trend - Seatbelt Used Among Drivers by Age

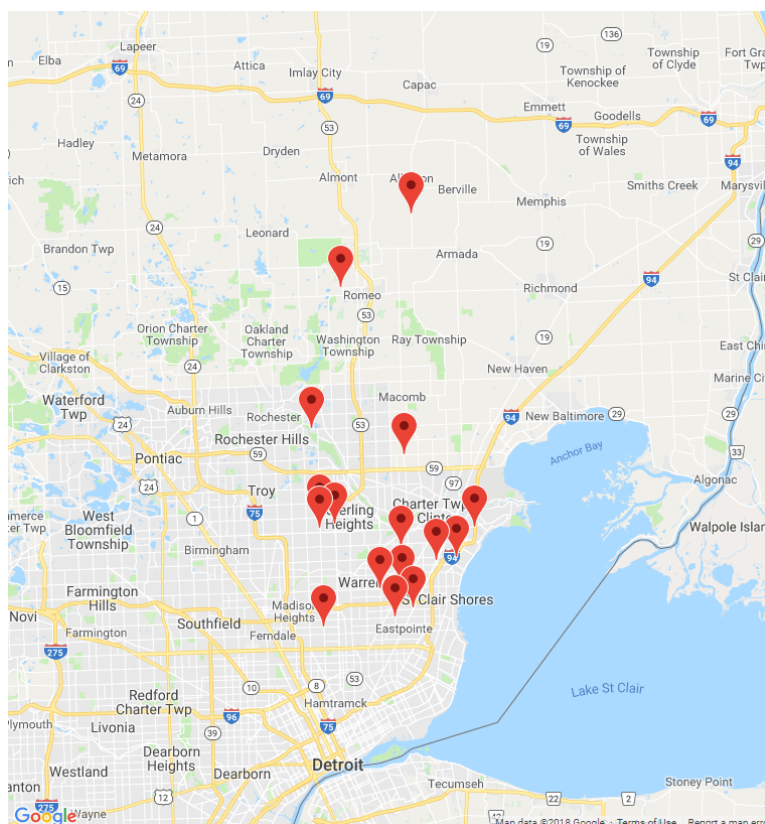
Age Group	2013			2014			2015			2016			2017		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
0 - 15	49	0	2	59	0	9	59	0	9	64	0	3	51	0	8
16 - 20	5,307	1	528	5,165	0	506	5,429	2	567	5,490	1	555	5,298	0	529
21 - 24	4,113	1	481	4,417	0	531	4,489	1	508	4,547	0	526	4,369	2	513
25 - 64	26,276	6	3,100	28,032	10	3,334	28,075	8	3,378	28,762	9	3,376	29,144	5	3,490
65 +	3,949	6	509	4,106	4	543	4,319	5	618	4,636	7	629	4,758	2	646
Unknown	19	0	3	37	0	2	51	0	0	28	0	0	1	0	1
Total	39,713	14	4,623	41,816	14	4,925	42,422	16	5,080	43,527	17	5,089	43,621	9	5,187

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	21,044	39	22,089	30	23,624	38	23,819	52	23,841	33
Speed too fast	1,216	6	1,418	1	983	6	1,073	8	1,094	3
Speed too slow	9	0	5	0	16	0	10	0	7	0
Failed to yield	4,675	9	4,775	4	5,032	7	5,299	5	5,356	5
Disregard traffic control	821	2	796	4	846	2	873	6	824	3
Drove wrong way	14	0	32	1	23	0	39	0	27	0
Drove left of center	162	2	208	3	199	3	212	5	211	2
Improper passing	168	0	159	1	168	0	177	1	182	0
Improper lane use	963	0	1,067	0	1,192	3	1,273	0	1,310	0
Improper turn	360	1	407	0	482	1	411	0	421	1
Improper/no signal	42	0	27	0	39	0	34	0	41	0
Improper backing	648	0	684	1	727	0	745	0	669	0
Unable to stop in assured clear distance	7,876	2	8,254	0	8,769	3	9,066	6	8,974	1
Other	1,829	4	2,070	4	1,892	4	1,758	3	1,776	4
Unknown	2,484	10	2,680	13	2,208	10	2,460	9	2,788	9
Reckless driving	168	4	149	1	157	2	166	0	168	3
Careless/negligent driving	1,296	4	1,221	5	1,377	6	1,340	4	1,184	4
Uncoded & errors	1,467	0	1,518	0	1,007	0	1,036	0	916	1
Total	45,242	83	47,559	68	48,741	85	49,791	99	49,789	69



The picture above represents all 2017 alcohol-involved fatal crashes in Macomb County.

In 2017, there were 731 alcohol-involved crashes in Macomb County:

- 16 K - Fatal Crashes
- 46 A - Suspected Serious Injury Crashes
- 105 B - Suspected Minor Injury Crashes
- 137 C - Possible Injury Crashes
- 427 O - Property Damage Only/No Injury Crashes

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