



2018

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

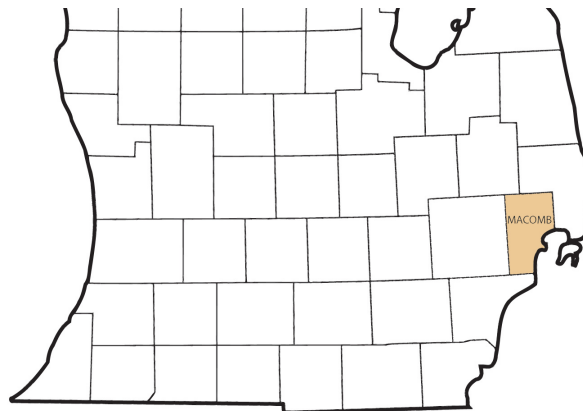
Property Damage Only (PDO)



Traffic Safety Network Macomb County

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

Traffic Safety Network Macomb County is comprised of and Macomb counties. Trend tables for this report are based on those counties.



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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TSN Macomb County Experience

In 2018:

There were 50,910 drivers involved in 25,784 motor vehicle crashes in Traffic Safety Network Macomb County. Of those crashes, 52 were classified as fatal, resulting in 53 fatalities. An additional 7,360 persons were injured.

Traffic Safety Network Macomb County experienced the highest number of motor vehicle crashes (2,440) in October, the highest number of fatal crashes (9) and the highest number of persons killed (10) in August.

Michigan driver statistics indicate 6.4 percent of licensed drivers in Traffic Safety Network Macomb County were age 16-20, and 10.0 percent of drivers in crashes were also in that age group.

2018 - Crashes and Injuries by Month

Month	Crashes				Persons	
	Total	Fatal	Injury	Property Damage Only (PDO)	Fatalities	Injuries
January	2,412	3	423	1,986	3	556
February	2,140	5	375	1,760	5	533
March	1,926	5	370	1,551	5	501
April	1,794	5	392	1,397	5	529
May	2,303	4	527	1,772	4	706
June	2,280	2	504	1,774	2	682
July	1,957	1	456	1,500	1	632
August	2,011	9	469	1,533	10	637
September	2,106	4	509	1,593	4	697
October	2,440	3	500	1,937	3	700
November	2,342	5	433	1,904	5	613
December	2,073	6	414	1,653	6	574
Total	25,784	52	5,372	20,360	53	7,360

2018 - Driver Statistics

Age Group	Macomb County			Driver Rates	
	2018 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	161,342	4,505	55	3.4	122.1
16 - 20	50,020	42,168	5,111	1,021.8	1,212.1
21 - 24	44,198	42,291	4,587	1,037.8	1,084.6
25 - 64	470,563	449,350	31,346	666.1	697.6
65 +	148,636	129,828	5,007	336.9	385.7
Unknown	0	0	4,804	--	--
Total	874,759	668,142	50,910	582.0	762.0

2018 - Vehicles in Crashes

Vehicle Type	Motor Vehicles		Fatal Crashes		Injury Crashes	PDO Crashes
	Number of Vehicles	% of Total	Number	% of Total	Number	Number
Passenger car, SUV, van	42,898	84.3	69	71.1	9,548	33,281
Motor home	61	0.1	0	0.0	9	52
Pickup truck	5,066	10.0	14	14.4	973	4,079
Small truck under 10,000 lbs. GVWR	220	0.4	0	0.0	42	178
Motorcycle	207	0.4	8	8.2	142	57
Moped / goped	22	0.0	1	1.0	17	4
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	0	0.0	3	1
Other	144	0.3	0	0.0	22	122
Truck/bus over 10,000 lbs.	1,337	2.6	5	5.2	213	1,119
Unknown	950	1.9	0	0.0	73	877
Total	50,910	100.0	97	100.0	11,042	39,771

TSN Macomb County (continued)

5-Year Trend - Crashes by Month

Month	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
January	2,741	1	2,391	2	2,025	3	2,018	3	2,412	3
February	2,157	4	2,121	5	2,033	6	1,646	3	2,140	5
March	2,016	1	1,904	2	2,001	3	2,190	2	1,926	5
April	1,553	2	1,744	2	1,970	6	1,865	3	1,794	5
May	1,980	4	2,098	9	2,014	4	2,273	5	2,303	4
June	1,975	4	2,025	5	2,046	4	2,161	6	2,280	2
July	1,693	3	1,964	9	1,973	4	1,901	1	1,957	1
August	1,858	3	1,874	4	2,024	7	2,014	3	2,011	9
September	2,020	3	2,174	2	2,263	8	2,034	6	2,106	4
October	2,286	7	2,217	2	2,325	4	2,365	4	2,440	3
November	2,322	3	2,167	4	2,184	9	2,170	4	2,342	5
December	1,870	6	2,183	9	2,553	2	2,748	1	2,073	6
Total	24,471	41	24,862	55	25,411	60	25,385	41	25,784	52

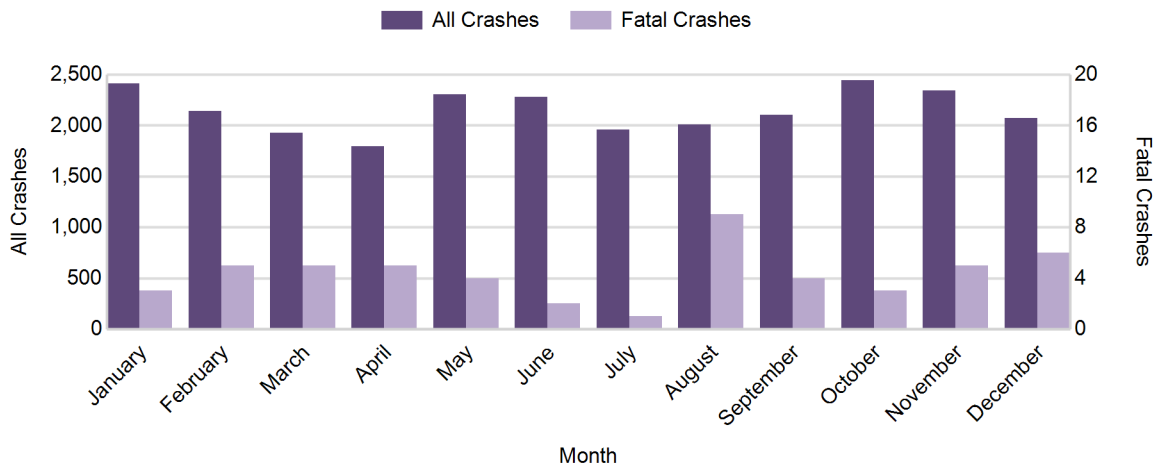
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

5-Year Trend - Crashes by Day of Week

Day	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Monday	3,681	4	3,808	5	3,655	6	3,925	4	4,133	9
Tuesday	3,973	2	4,054	4	4,013	7	4,148	7	4,247	7
Wednesday	4,079	5	4,023	8	4,179	17	4,003	6	4,045	3
Thursday	3,825	10	3,724	8	4,040	10	4,037	9	3,953	6
Friday	3,973	3	3,967	15	4,253	8	4,034	4	4,308	13
Saturday	2,768	9	3,053	10	2,930	10	2,992	3	2,935	8
Sunday	2,172	8	2,233	5	2,341	2	2,246	8	2,163	6
Total	24,471	41	24,862	55	25,411	60	25,385	41	25,784	52

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

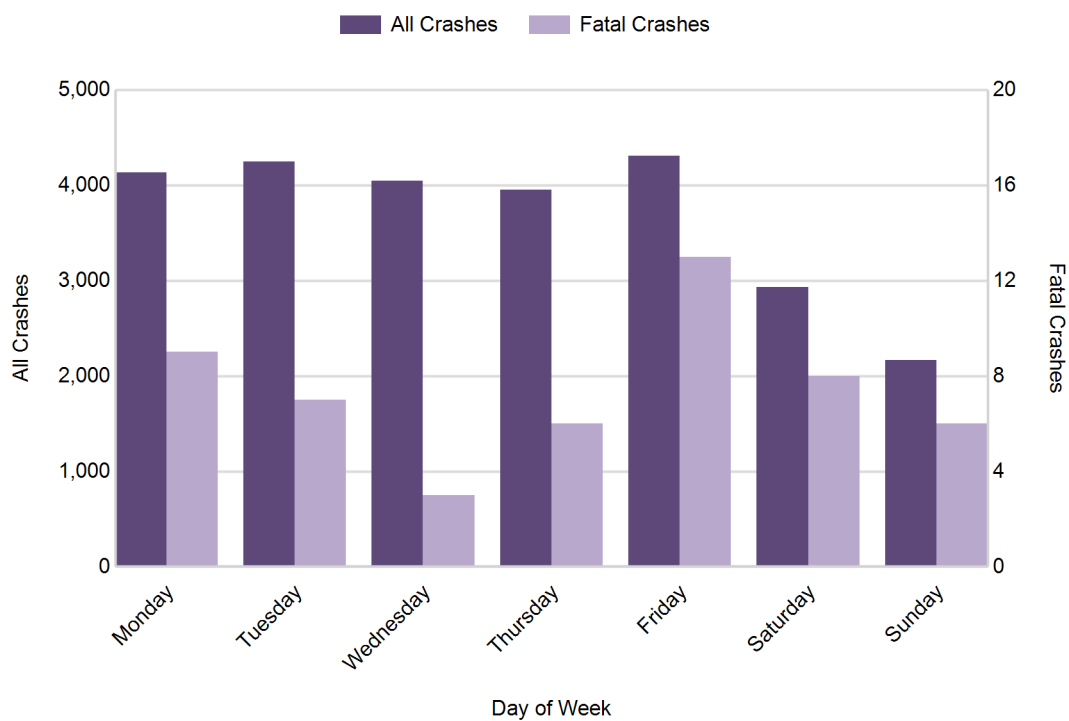
2018 Crashes by Month



2018 - Crashes by Day of Week

Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Monday	4,133	16.0	9	17.3	55	211	551	3,307
Tuesday	4,247	16.5	7	13.5	41	240	572	3,387
Wednesday	4,045	15.7	3	5.8	40	227	572	3,203
Thursday	3,953	15.3	6	11.5	40	200	602	3,105
Friday	4,308	16.7	13	25.0	43	250	648	3,354
Saturday	2,935	11.4	8	15.4	34	162	422	2,309
Sunday	2,163	8.4	6	11.5	42	131	289	1,695
Total	25,784	100.0	52	100.0	295	1,421	3,656	20,360

2018 Day of Week and Severity

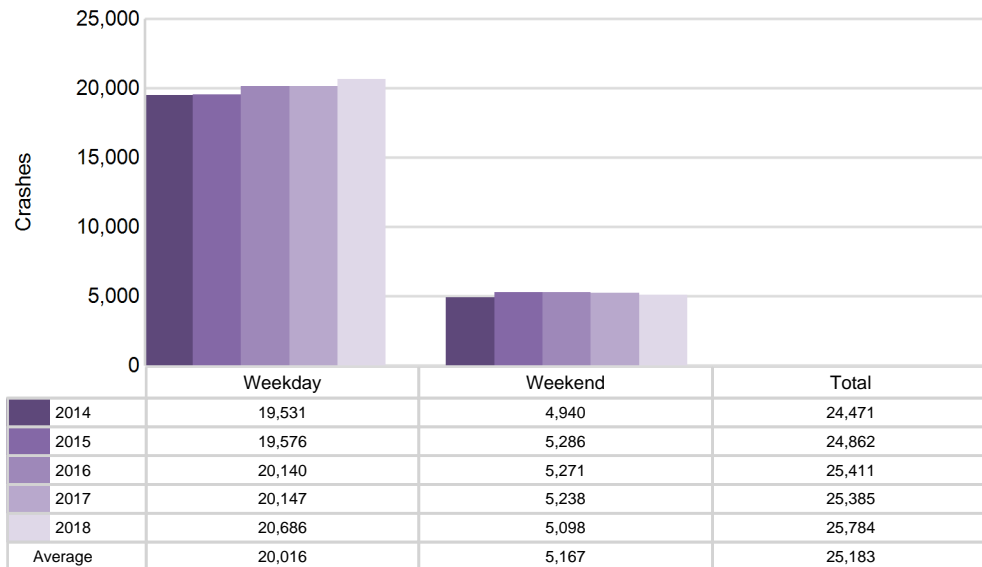


TSN Macomb County (continued)

5-Year Trend - Crashes by Weekday and Weekend

Portion of Week	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Weekday	19,531	24	19,576	40	20,140	48	20,147	30	20,686	38
Weekend	4,940	17	5,286	15	5,271	12	5,238	11	5,098	14
Total	24,471	41	24,862	55	25,411	60	25,385	41	25,784	52

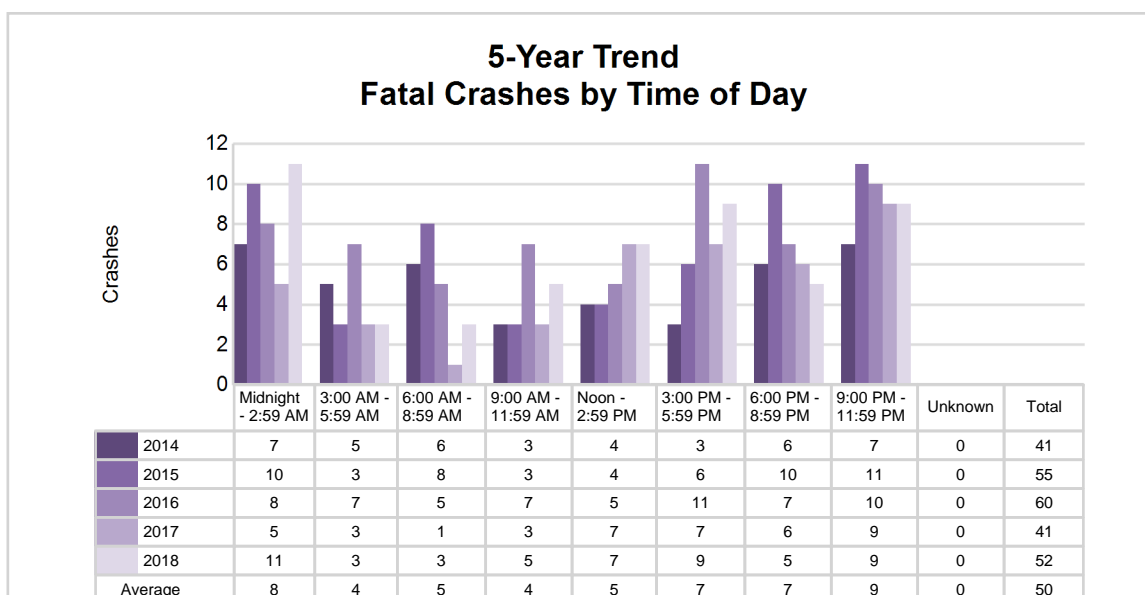
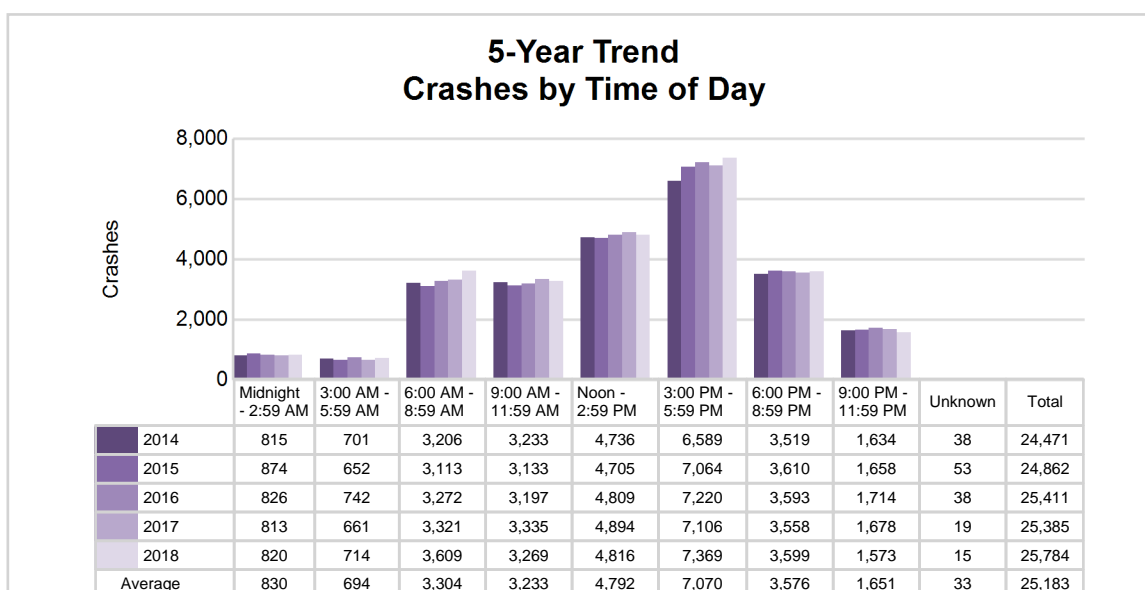
5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



5-Year Trend - Crashes by Time of Day

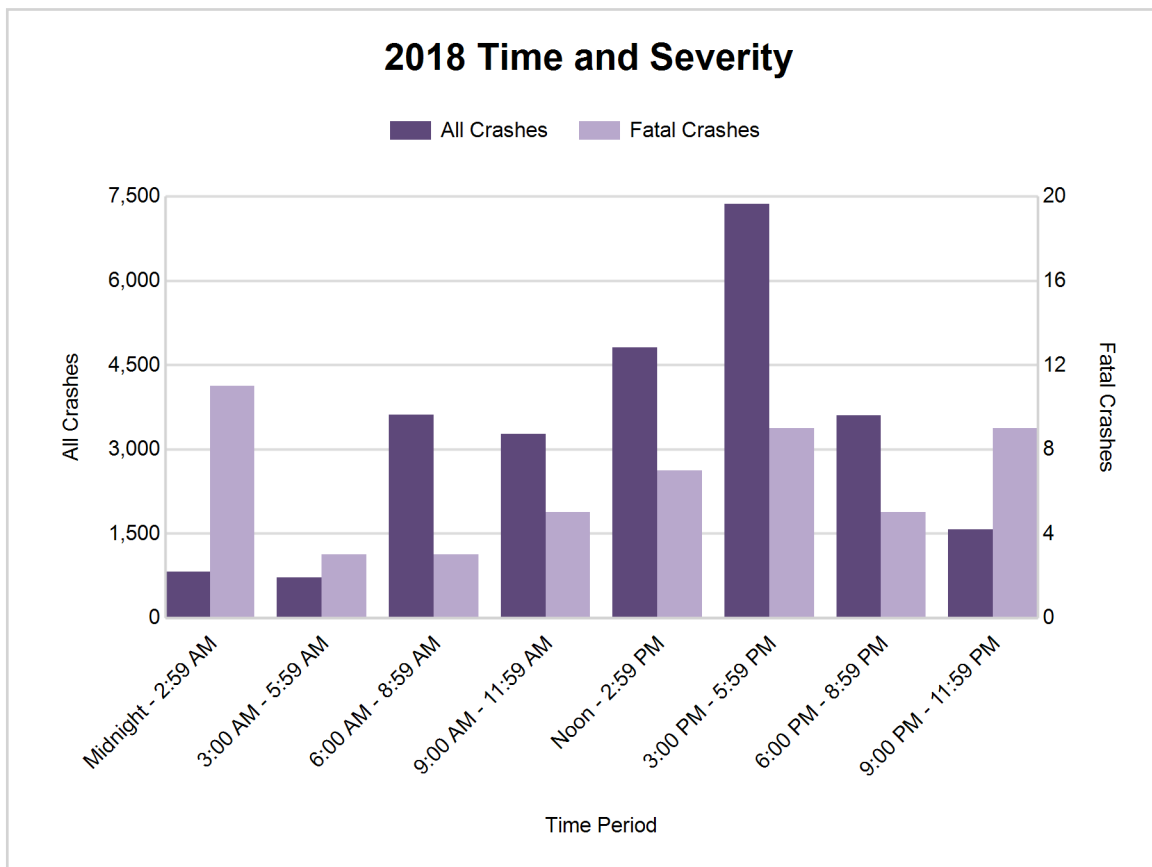
Time of Day	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	815	7	874	10	826	8	813	5	820	11
3:00 AM - 5:59 AM	701	5	652	3	742	7	661	3	714	3
6:00 AM - 8:59 AM	3,206	6	3,113	8	3,272	5	3,321	1	3,609	3
9:00 AM - 11:59 AM	3,233	3	3,133	3	3,197	7	3,335	3	3,269	5
Noon - 2:59 PM	4,736	4	4,705	4	4,809	5	4,894	7	4,816	7
3:00 PM - 5:59 PM	6,589 †	3	7,064 †	6	7,220 †	11	7,106 †	7	7,369 †	9
6:00 PM - 8:59 PM	3,519	6	3,610	10	3,593	7	3,558	6	3,599	5
9:00 PM - 11:59 PM	1,634	7	1,658	11	1,714	10	1,678	9	1,573	9
Unknown	38	0	53	0	38	0	19	0	15	0
Total	24,471	41	24,862	55	25,411	60	25,385	41	25,784	52

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



2018 - Time and Severity

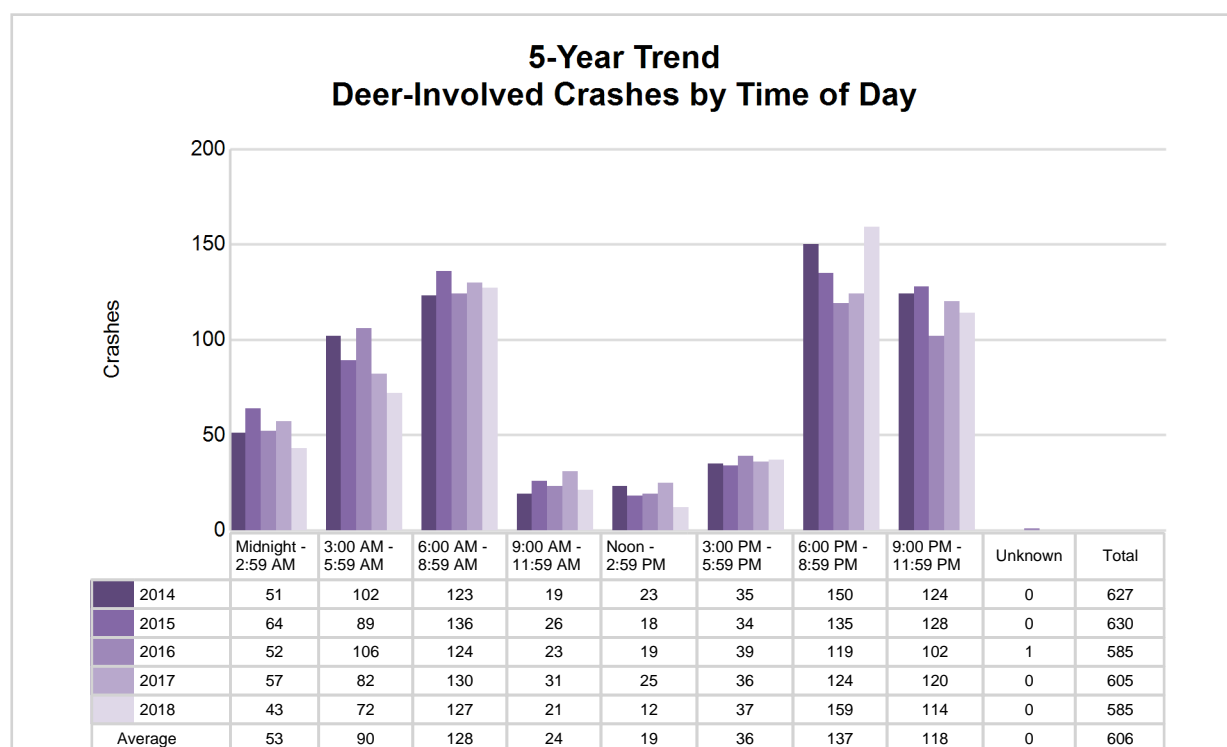
Time of Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Midnight - 2:59 AM	820	3.2	11	21.2	21	58	106	624
3:00 AM - 5:59 AM	714	2.8	3	5.8	20	47	83	561
6:00 AM - 8:59 AM	3,609	14.0	3	5.8	28	170	481	2,927
9:00 AM - 11:59 AM	3,269	12.7	5	9.6	35	178	446	2,605
Noon - 2:59 PM	4,816	18.7	7	13.5	52	269	718	3,770
3:00 PM - 5:59 PM	7,369	28.6	9	17.3	59	381	1,071	5,849
6:00 PM - 8:59 PM	3,599	14.0	5	9.6	43	216	512	2,823
9:00 PM - 11:59 PM	1,573	6.1	9	17.3	37	101	238	1,188
Unknown	15	0.1	0	0.0	0	1	1	13
Total	25,784	100.0	52	100.0	295	1,421	3,656	20,360

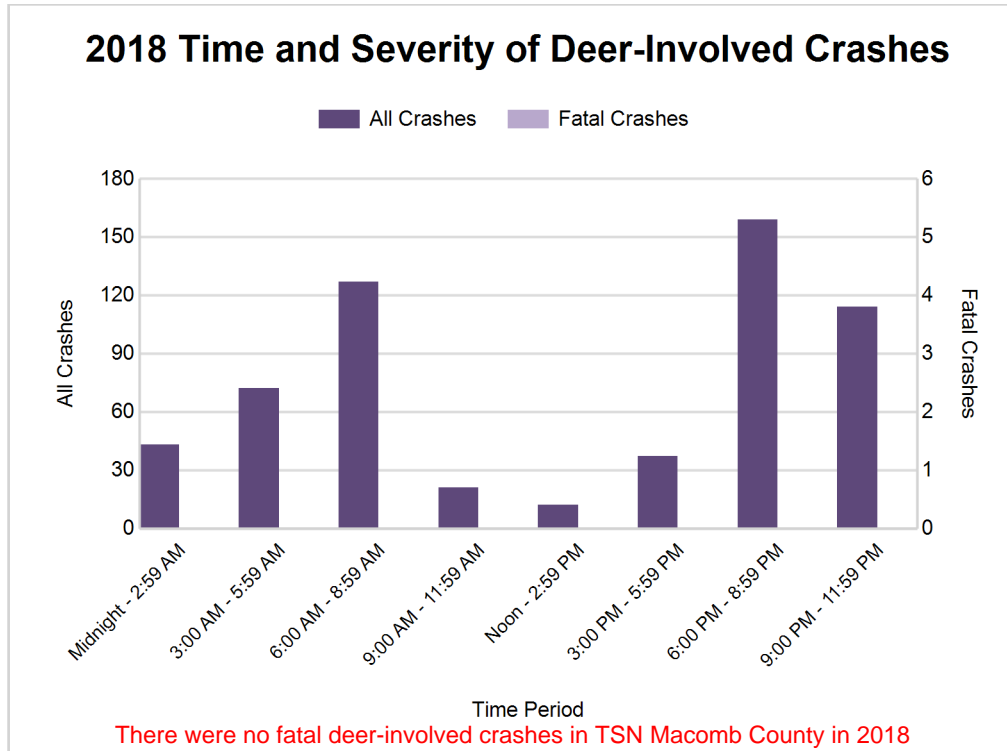


5-Year Trend - Deer-Involved Crashes by Time of Day

Time of Day	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	51	0	64	0	52	0	57	0	43	0
3:00 AM - 5:59 AM	102	0	89	0	106	0	82	0	72	0
6:00 AM - 8:59 AM	123	0	136	0	124	0	130	0	127	0
9:00 AM - 11:59 AM	19	0	26	0	23	0	31	0	21	0
Noon - 2:59 PM	23	0	18	0	19	0	25	0	12	0
3:00 PM - 5:59 PM	35	0	34	0	39	0	36	0	37	0
6:00 PM - 8:59 PM	150	0	135	0	119	0	124	0	159	0
9:00 PM - 11:59 PM	124	0	128	0	102	0	120	0	114	0
Unknown	0	0	0	0	1	0	0	0	0	0
Total	627	0	630	0	585	0	605	0	585	0

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





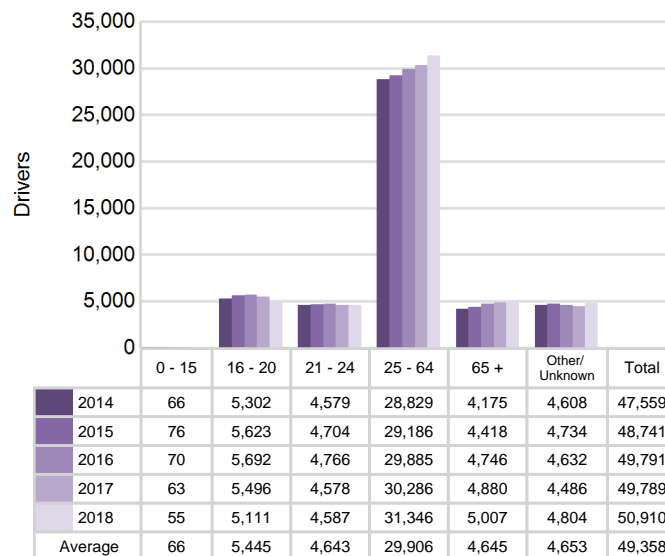
2018 - Reported Motor Vehicle Crashes by County

County	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Macomb	25,784	52	5,372	20,360	2,691	0	7,047	16,030	737	208	585	53	7,360
Total	25,784	52	5,372	20,360	2,691	0	7,047	16,030	737	208	585	53	7,360

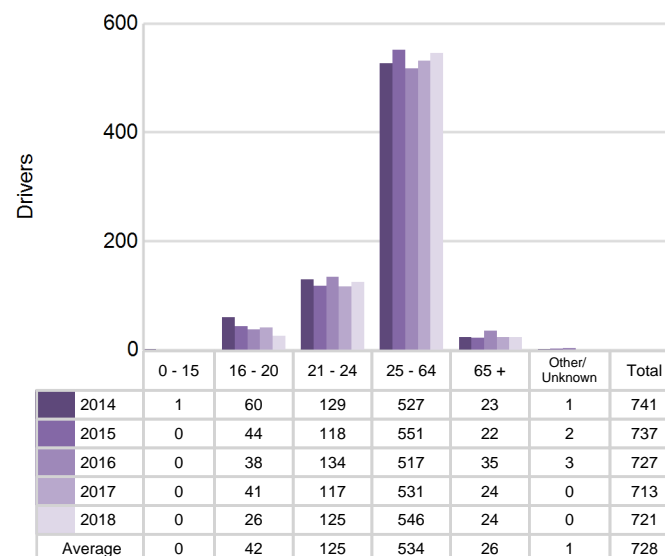
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

Driver Age	2014		2015		2016		2017		2018	
	Total Drivers in Crashes	Total Drivers Coded Drinking	Total Drivers in Crashes	Total Drivers Coded Drinking	Total Drivers in Crashes	Total Drivers Coded Drinking	Total Drivers in Crashes	Total Drivers Coded Drinking	Total Drivers in Crashes	Total Drivers Coded Drinking
0 - 15	66	1	76	0	70	0	63	0	55	0
16 - 20	5,302	60	5,623	44	5,692	38	5,496	41	5,111	26
21 - 24	4,579	129	4,704	118	4,766	134	4,578	117	4,587	125
25 - 64	28,829	527	29,186	551	29,885	517	30,286	531	31,346	546
65 +	4,175	23	4,418	22	4,746	35	4,880	24	5,007	24
Unknown	4,608	1	4,734	2	4,632	3	4,486	0	4,804	0
Total	47,559	741	48,741	737	49,791	727	49,789	713	50,910	721

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

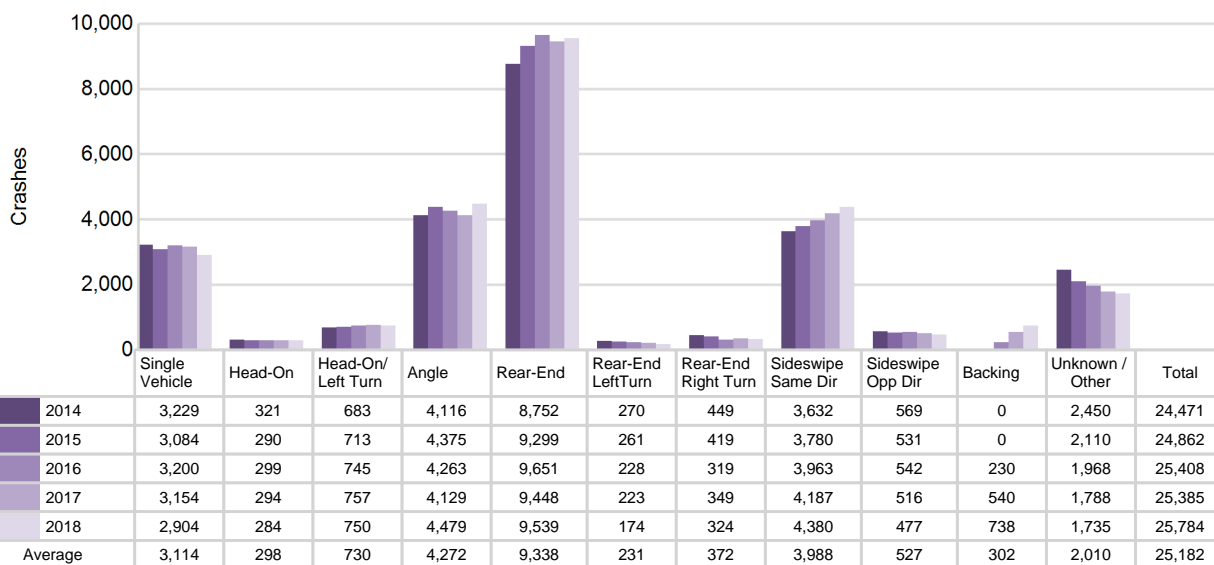


**5-Year Trend
Total Drivers Coded Drinking by Age**



5-Year Trend - Crashes by Crash Type

Crash Type	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Single motor vehicle	3,229	20	3,084	28	3,200	30	3,154	17	2,904	20
Head-on	321	7	290	6	299	6	294	5	284	5
Head-on / left turn	683	2	713	3	745	3	757	2	750	1
Angle	4,116	9	4,375	4	4,263	10	4,129	8	4,479	10
Rear-end	8,752	1	9,299	5	9,651	9	9,448	1	9,539	7
Rear-end left turn	270	0	261	0	228	0	223	0	174	0
Rear-end right turn	449	0	419	0	319	0	349	0	324	0
Sideswipe same direction	3,632	0	3,780	1	3,963	0	4,187	0	4,380	1
Sideswipe opposite direction	569	0	531	0	542	1	516	1	477	0
Backing	0	0	0	0	230	0	540	0	738	0
Other / Unknown	2,450	2	2,110	8	1,968	1	1,788	7	1,735	8
Uncoded and Errors	0	0	0	0	3	0	0	0	0	0
Total	24,471	41	24,862	55	25,411	60	25,385	41	25,784	52

5-Year Trend
Crashes by Crash Type

2018 - Bodily Alcohol Concentration (BAC) Results Among All Vehicle Drivers in Alcohol-Involved Crashes by Age

Age Group	Drivers				BAC Result Range for Drivers Coded Drinking				
	Total Drivers in Alcohol-Involved Crashes	Total Drivers Tested in all Crashes	Total Drivers Coded Drinking, Tested	Total Drivers Coded Drinking	BAC = 0.00	BAC 0.01 g/dL to 0.07 g/dL	BAC 0.08 g/dL to 0.16 g/dL	BAC 0.17 g/dL and Above	BAC Not Reported
0 - 15	1	0	0	0	0	0	0	0	0
16 - 20	65	34	23	26	0	1	8	8	9
21 - 24	171	125	112	125	0	13	41	45	26
25 - 64	858	570	482	546	0	20	124	235	167
65 +	55	30	22	24	0	4	9	6	5
Unknown	127	1	0	0	0	0	0	0	0
Total	1,277	760	639	721	0	38	182	294	207

Notes: BAC measured in grams (g) per deciliter (dL).

BAC may not be reported if drivers are not tested or if the results are not available immediately (as in the case of a blood test).

A driver may be coded by the officer as drinking even though no test is administered.

Alcohol-Involved Crashes

In 2018, there were 1,277 drivers in alcohol-involved crashes; 721 (56.5%) of those drivers were coded as had-been-drinking by the officer on the crash form.

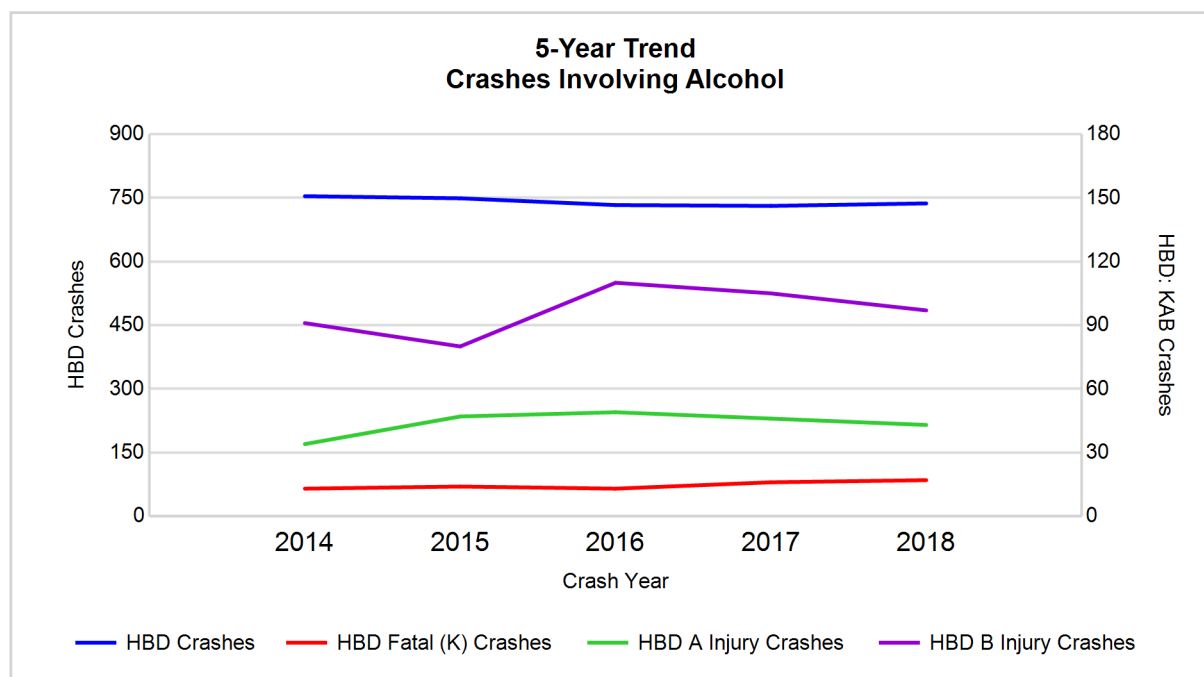
- 476 (66.0%) of the 721 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 294 (61.8%) of the 476 drivers had a BAC at or above 0.17 g/dL.
- 639 (88.6%) of the 721 drivers were coded as had-been-drinking and were tested for alcohol consumption.

5-Year Trend - Crashes Involving Alcohol

Year	All Crashes	HBD Crashes	% HBD	Fatal Crashes	HBD Fatal Crashes	% HBD	A Injury Crashes	HBD A Injury Crashes	% HBD	B Injury Crashes	HBD B Injury Crashes	% HBD
2014	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
2018	25,784**	737	2.9	52	17**	32.7	295	43	14.6	1,421	97	6.8*

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



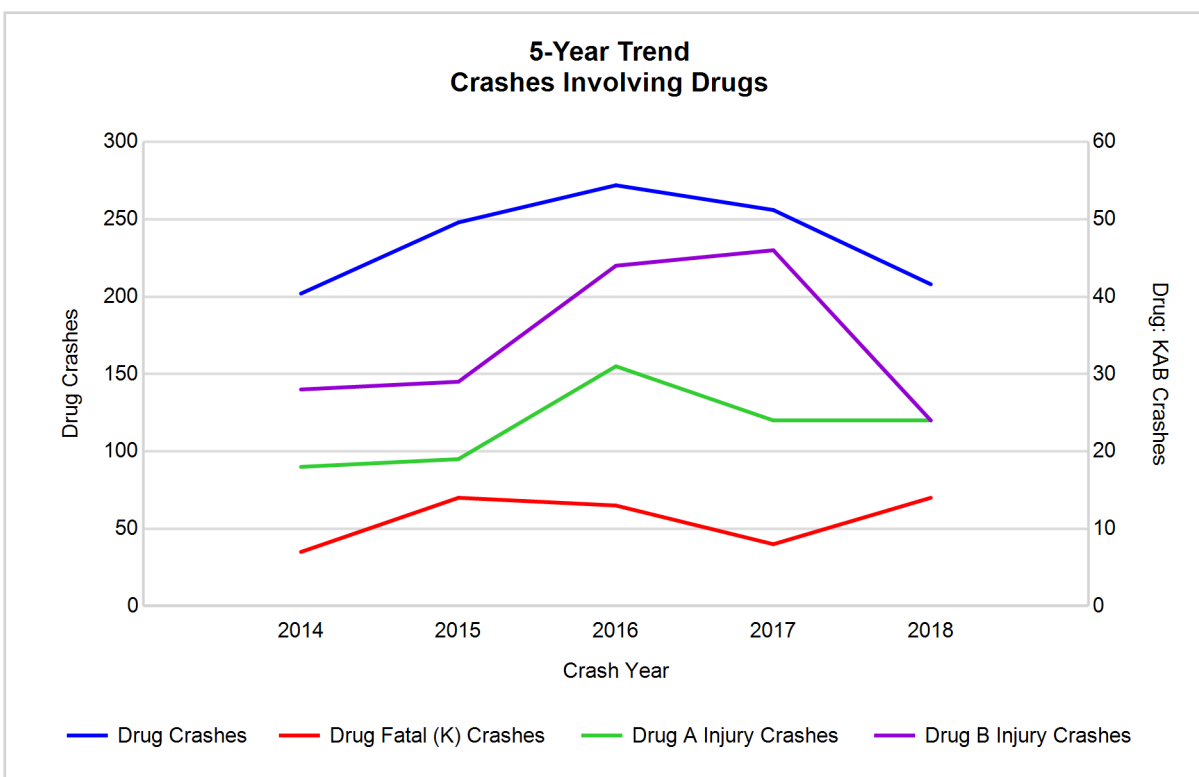
Note: Had-Been-Drinking (HBD)

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
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
2018	25,784**	208	0.8	52	14	26.9**	295	24	8.1	1,421	24*	1.7*

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

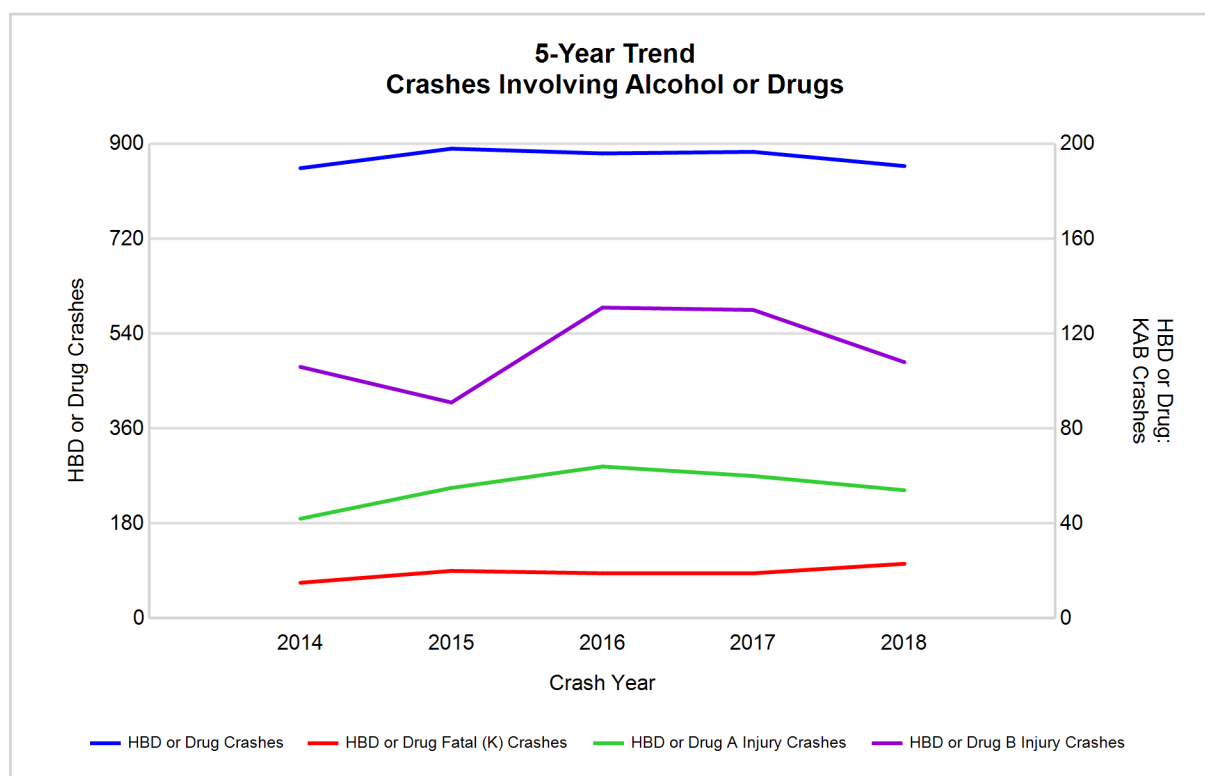


5-Year Trend - Crashes Involving Alcohol or Drugs

Year	All Crashes	HBD or Drug Crashes	% HBD or Drug	Fatal Crashes	HBD or Drug Fatal Crashes	% HBD or Drug	A Injury Crashes	HBD or Drug A Injury Crashes	% HBD or Drug	B Injury Crashes	HBD or Drug B Injury Crashes	% HBD or Drug
2014	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
2018	25,784**	858	3.3*	52	23**	44.2	295	54	18.3	1,421	108	7.6*

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

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



Note: Had-Been-Drinking (HBD)

2018 - Restraints Worn Among Vehicle Drivers and Injured Passengers by Vehicle Type

Vehicle Type	Total Occupants			Fatalities			A - Suspected Serious			B - Suspected Minor			C - Possible Injury			No Injury		
	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%
Passenger car, SUV, van	44,319	39,729	89.6	24	23	95.8	248	210	84.7	1,399	1,296	92.6	4,732	4,552	96.2	34,521	33,646	97.5
Motor home	63	57	90.5	0	0	0.0	2	2	100.0	2	2	100.0	3	2	66.7	52	51	98.1
Pickup truck	5,153	4,480	86.9	2	2	100.0	17	11	64.7	82	72	87.8	357	336	94.1	4,168	4,059	97.4
Small truck under 10,000 lbs. GVWR	222	202	91.0	0	0	0.0	1	1	100.0	2	2	100.0	8	8	100.0	196	191	97.4
Motorcycle	223	139	62.3	9	2	22.2	42	23	54.8	76	48	63.2	36	28	77.8	53	38	71.7
Moped / goped	22	8	36.4	1	0	0.0	6	2	33.3	7	3	42.9	4	2	50.0	3	1	33.3
Go-cart / golf cart	1	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Snowmobile	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	8	2	25.0	0	0	0.0	5	1	20.0	1	0	0.0	1	1	100.0	1	0	0.0
Other	148	94	63.5	0	0	0.0	0	0	0.0	4	3	75.0	8	4	50.0	98	87	88.8
Truck/bus over 10,000 lbs.	1,360	1,227	90.2	0	0	0.0	1	1	100.0	13	10	76.9	38	20	52.6	1,221	1,196	98.0
Unknown	950	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Total	52,469	45,938	87.6	36	27	75.0	322	251	78.0	1,586	1,436	90.5	5,187	4,953	95.5	40,313	39,269	97.4

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

2018 - Restraints Worn Among Vehicle Drivers and Injured Passengers by Age

Age Group	Total Occupants			Fatalities			A - Suspected Serious			B - Suspected Minor			C - Possible Injury			No Injury		
	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%
0 - 15	461	412	89.4	0	0	0.0	9	7	77.8	64	55	85.9	338	304	89.9	50	46	92.0
16 - 20	5,331	5,139	96.4	2	1	50.0	33	24	72.7	170	158	92.9	569	530	93.1	4,532	4,426	97.7
21 - 24	4,728	4,496	95.1	5	3	60.0	36	24	66.7	184	160	87.0	474	446	94.1	4,005	3,862	96.4
25 - 64	31,964	30,817	96.4	17	11	64.7	203	159	78.3	949	851	89.7	3,182	3,061	96.2	27,445	26,734	97.4
65 +	5,181	5,073	97.9	12	12	100.0	41	37	90.2	219	212	96.8	624	612	98.1	4,279	4,200	98.2
Unknown	4,804	1	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	2	1	50.0
Total	52,469	45,938	87.6	36	27	75.0	322	251	78.0	1,586	1,436	90.5	5,187	4,953	95.5	40,313	39,269	97.4

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	2014			2015			2016			2017			2018		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	47	1	8	152	1	22	66	0	13	43	0	10	28	0	8
Shoulder belt only used	17	0	2	16	0	2	100	0	18	154	0	19	91	0	15
Lap belt only used	49	0	6	94	0	15	56	0	7	50	0	6	61	0	6
Both lap & shoulder belts used	41,749	14	4,917	42,310	16	5,063	43,369	17	5,064	43,408	9	5,161	44,268	21	5,153
No belts used	150	3	65	175	9	67	198	3	88	151	2	85	139	0	70
Child restraint used	0	0	0	0	0	0	4	0	1	2	0	1	1	0	0
Child restraint not used, unavailable or improper use	1	0	0	3	0	1	1	0	0	0	0	0	0	0	0
Restraint failure	1	0	0	2	0	0	2	0	0	9	0	1	7	0	1
Restraint use unknown	4,454	4	93	3,894	3	153	4,648	6	130	4,605	1	148	4,935	1	129
Helmet worn	133	3	101	168	5	127	159	5	112	169	4	122	138	2	97
Helmet not worn	66	2	52	87	3	67	74	3	54	70	5	50	75	7	54
Helmet use unknown	15	2	7	11	0	4	15	1	5	10	1	3	12	0	8
Uncoded & errors	877	0	0	1,829	0	2	1,099	0	0	1,118	0	0	1,155	0	0
Total	47,559	29	5,251	48,741	37	5,523	49,791	35	5,492	49,789	22	5,606	50,910	31	5,541

5-Year Trend - Restraint Use Among Drivers Coded Drinking

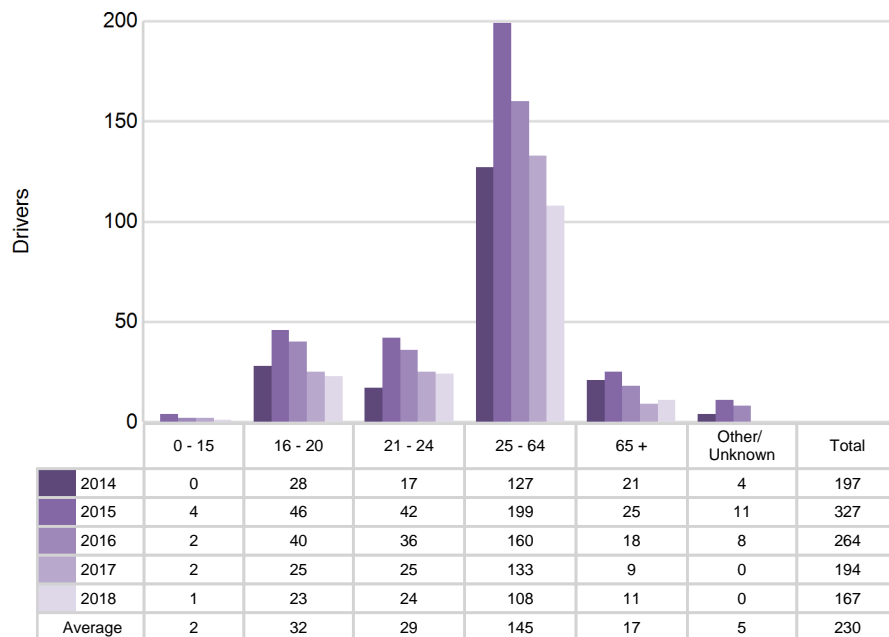
Restraint Use	2014			2015			2016			2017			2018		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	1	0	0	6	0	2	1	0	1	0	0	0	1	0	0
Shoulder belt only used	1	0	1	0	0	0	1	0	0	1	0	0	0	0	0
Lap belt only used	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Both lap & shoulder belts used	604	1	127	565	3	105	576	3	141	563	3	131	582	1	136
No belts used	25	2	13	30	2	18	33	0	17	23	2	15	25	0	16
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	97	1	22	123	1	38	98	2	25	116	0	27	101	1	27
Helmet worn	3	0	2	6	0	6	10	0	9	2	0	2	5	1	3
Helmet not worn	9	0	8	7	0	7	7	1	6	7	1	6	7	2	4
Helmet use unknown	0	0	0	0	0	0	1	0	1	1	0	1	0	0	0
Uncoded & errors	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	741	4	173	737	6	176	727	6	200	713	6	182	721	5	186

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

Age Group	2014			2015			2016			2017			2018		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
0 - 15	0	0	0	4	0	0	2	0	0	2	0	1	1	0	0
16 - 20	28	0	7	46	2	13	40	1	22	25	0	12	23	0	10
21 - 24	17	1	4	42	1	14	36	0	23	25	1	14	24	0	14
25 - 64	127	1	55	199	6	55	160	1	47	133	1	66	108	0	50
65 +	21	2	7	25	1	7	18	1	9	9	0	2	11	0	4
Unknown	4	0	0	11	0	0	8	0	0	0	0	0	0	0	0
Total	197	4	73	327	10	89	264	3	101	194	2	95	167	0	78

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

5-Year Trend Driver Seatbelt Not Used

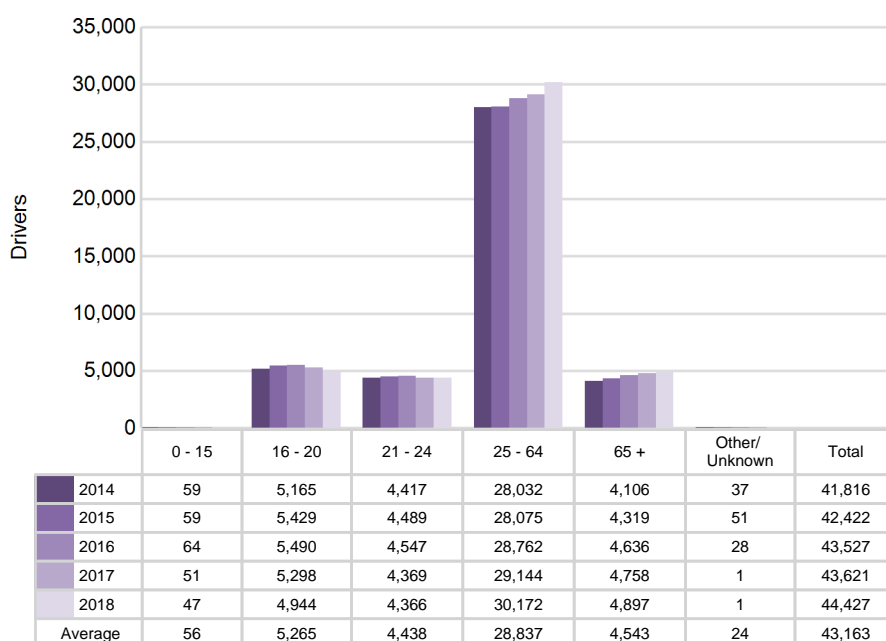


5-Year Trend - Seatbelt Used Among Drivers by Age

Age Group	2014			2015			2016			2017			2018		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
0 - 15	59	0	9	59	0	9	64	0	3	51	0	8	47	0	1
16 - 20	5,165	0	506	5,429	2	567	5,490	1	555	5,298	0	529	4,944	1	521
21 - 24	4,417	0	531	4,489	1	508	4,547	0	526	4,369	2	513	4,366	3	506
25 - 64	28,032	10	3,334	28,075	8	3,378	28,762	9	3,376	29,144	5	3,490	30,172	9	3,452
65 +	4,106	4	543	4,319	5	618	4,636	7	629	4,758	2	646	4,897	8	695
Unknown	37	0	2	51	0	0	28	0	0	1	0	1	1	0	0
Total	41,816	14	4,925	42,422	16	5,080	43,527	17	5,089	43,621	9	5,187	44,427	21	5,175

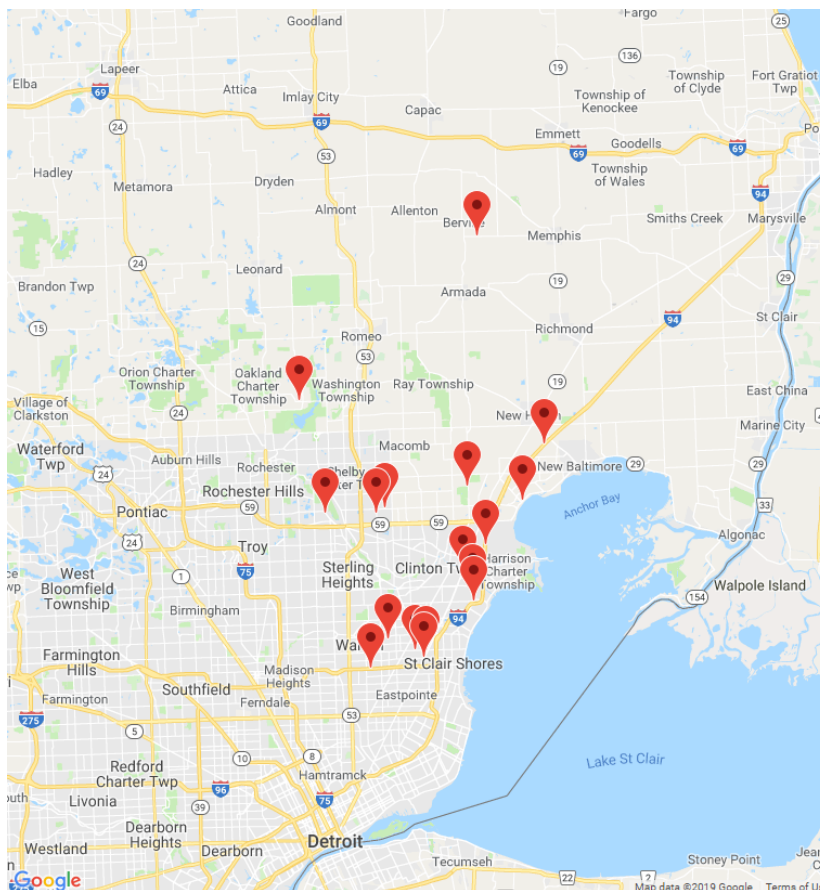
Note: Seatbelt Used includes shoulder belt only used, lap belt only used, both lap and shoulder belts used, and restraint failure.

5-Year Trend Driver Seatbelt Used



5-Year Trend - Drivers in Crashes by Hazardous Action

Hazardous Action	2014		2015		2016		2017		2018	
	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes
None	22,089	30	23,624	38	23,819	52	23,841	33	24,315	51
Speed too fast	1,418	1	983	6	1,073	8	1,094	3	1,076	5
Speed too slow	5	0	16	0	10	0	7	0	8	0
Failed to yield	4,775	4	5,032	7	5,299	5	5,356	5	5,927	4
Disregard traffic control	796	4	846	2	873	6	824	3	865	4
Drove wrong way	32	1	23	0	39	0	27	0	26	0
Drove left of center	208	3	199	3	212	5	211	2	184	5
Improper passing	159	1	168	0	177	1	182	0	208	1
Improper lane use	1,067	0	1,192	3	1,273	0	1,310	0	1,297	0
Improper turn	407	0	482	1	411	0	421	1	429	0
Improper/no signal	27	0	39	0	34	0	41	0	20	0
Improper backing	684	1	727	0	745	0	669	0	675	0
Unable to stop in assured clear distance	8,254	0	8,769	3	9,066	6	8,974	1	8,816	4
Other	2,070	4	1,892	4	1,758	3	1,776	4	1,886	8
Unknown	2,680	13	2,208	10	2,460	9	2,788	9	2,904	10
Reckless driving	149	1	157	2	166	0	168	3	159	2
Careless/negligent driving	1,221	5	1,377	6	1,340	4	1,184	4	1,148	3
Uncoded & errors	1,518	0	1,007	0	1,036	0	916	1	967	0
Total	47,559	68	48,741	85	49,791	99	49,789	69	50,910	97



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

In 2018, there were 737 alcohol-involved crashes in TSN Macomb County:

- 17 K - Fatal Crashes
- 43 A - Suspected Serious Injury Crashes
- 97 B - Suspected Minor Injury Crashes
- 133 C - Possible Injury Crashes
- 447 O - Property Damage Only/No Injury Crashes

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