July 2020
Revised 8/24/2020

MICHIGAN
Office of Highway Safety Planning
2019

MTCF
Michigan Traffic Crash Facts

Michigan Traffic Crash Facts

Reporting Criteria

Please pay particular attention to the wording when interpreting the three levels of data gathered for this report.

Crash
The Crash Level analyzes data related to crash events and returns one result per crash.

Examples: Time, weather, and location.

Units
The Units Level analyzes the experience of the units in the crash and returns one result per vehicle, driver, pedestrian, bicyclist, or train.

Examples: Vehicle type, driver condition, and unit events.

People
The People Level analyzes the experience of the people involved in the crash and returns one result per occupant/person/party.

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

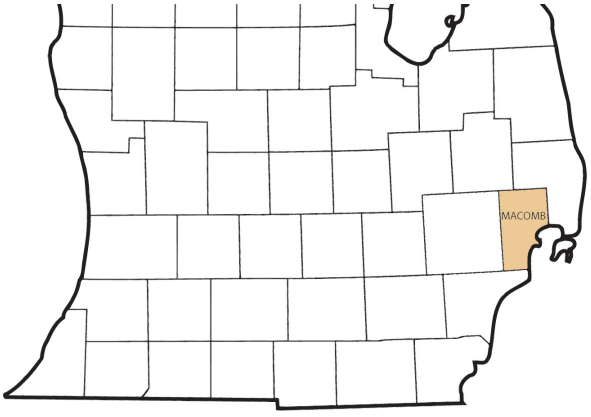
KABCO Injury Indicator:
K = Killed
A = Suspected Serious Injury
B = Suspected Minor Injury
C = Possible Injury
O = No Injury
Property Damage Only (PDO)

UMTRI
University of Michigan
Transportation Research Institute

Traffic Safety Network
Macomb County

2019 Traffic Crash Data
& 2015-2019 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

TSN Macomb County Experience

In 2019:

There were 46,908 drivers involved in 23,929 motor vehicle crashes in Traffic Safety Network Macomb County. Of those crashes, 50 were classified as fatal, resulting in 53 fatalities. An additional 6,719 persons were injured.

Traffic Safety Network Macomb County experienced the highest number of motor vehicle crashes (2,346) in October, the highest number of fatal crashes (11) and the highest number of persons killed (12) in October.

Michigan driver statistics indicate 6.2 percent of licensed drivers in Traffic Safety Network Macomb County were age 16-20, and 9.8 percent of drivers in crashes were also in that age group.

2019 - Crashes and Injuries by Month

Month	Crashes				Persons	
	Total	Fatal	Injury	Property Damage Only (PDO)	Fatalities	Injuries
January	2,079	6	387	1,686	6	530
February	1,884	4	334	1,546	5	449
March	1,875	1	362	1,512	1	517
April	1,652	5	339	1,308	5	450
May	1,995	4	408	1,583	4	550
June	2,031	3	426	1,602	3	598
July	1,991	3	459	1,529	3	619
August	1,871	1	438	1,432	1	607
September	2,080	3	444	1,633	3	634
October	2,346	11	502	1,833	12	671
November	2,134	5	396	1,733	6	553
December	1,991	4	394	1,593	4	541
Total	**23,929**	**50**	**4,889**	**18,990**	**53**	**6,719**

2019 - Driver Statistics

Age Group	Macomb County			Driver Rates	
	2019 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	159,640	4,291	57	3.6	132.8
16 - 20	49,113	41,675	4,599	936.4	1,103.5
21 - 24	43,232	41,889	3,947	913.0	942.3
25 - 64	469,719	448,889	29,088	619.3	648.0
65 +	152,268	134,301	4,925	323.4	366.7
Unknown	0	0	4,292	- -	- -
Total	**873,972**	**671,045**	**46,908**	**536.7**	**699.0**

2019 - 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	38,969	83.1	67	77.9	8,467	30,435
Motor home	71	0.2	0	0.0	16	55
Pickup truck	5,092	10.9	7	8.1	970	4,115
Small truck under 10,000 lbs. GVWR	209	0.4	0	0.0	48	161
Motorcycle	198	0.4	6	7.0	150	42
Moped / goped	11	0.0	0	0.0	9	2
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	3	0.0	0	0.0	1	2
Other	124	0.3	0	0.0	16	108
Truck/bus over 10,000 lbs.	1,319	2.8	4	4.7	233	1,082
Unknown	911	1.9	2	2.3	84	825
Total	**46,908**	**100.0**	**86**	**100.0**	**9,994**	**36,828**

TSN Macomb County (continued)

5-Year Trend - Crashes by Month

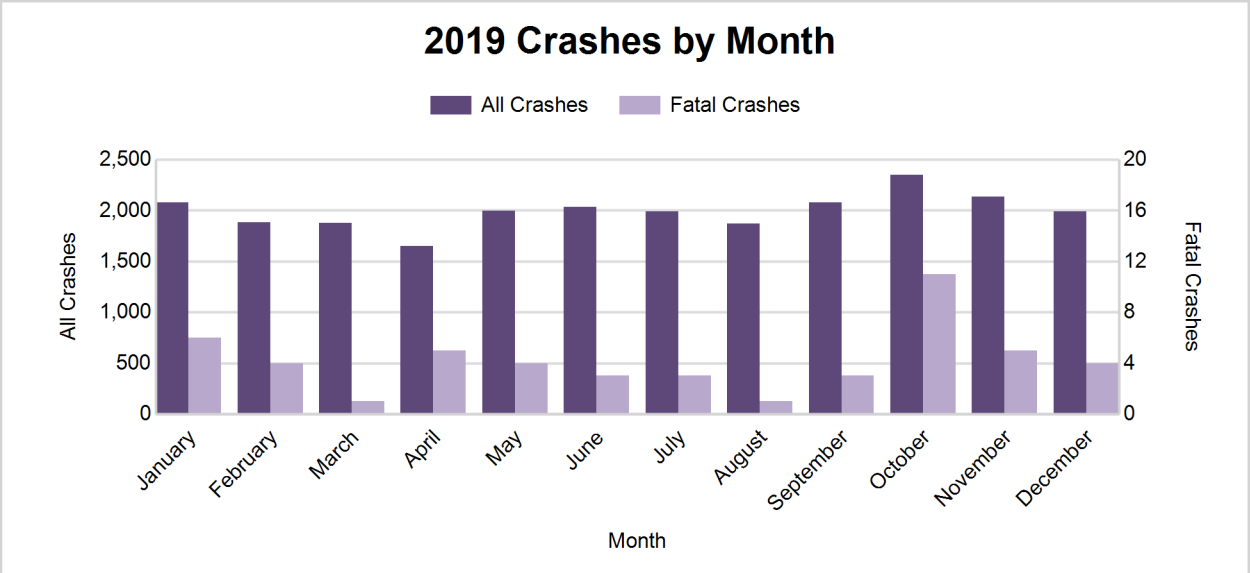
Month	2015		2016		2017		2018		2019	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
January	2,391	2	2,025	3	2,018	3	2,412	3	2,079	6
February	2,121	5	2,033	6	1,646	3	2,140	5	1,884	4
March	1,904	2	2,001	3	2,190	2	1,926	5	1,875	1
April	1,744	2	1,970	6	1,865	3	1,794	5	1,652	5
May	2,098	9	2,014	4	2,273	5	2,303	4	1,995	4
June	2,025	5	2,046	4	2,161	6	2,280	2	2,031	3
July	1,964	9	1,973	4	1,901	1	1,957	1	1,991	3
August	1,874	4	2,024	7	2,014	3	2,011	9	1,871	1
September	2,174	2	2,263	8	2,034	6	2,106	4	2,080	3
October	2,217	2	2,325	4	2,365	4	2,440	3	2,346	11
November	2,167	4	2,184	9	2,170	4	2,342	5	2,134	5
December	2,183	9	2,553	2	2,748	1	2,073	6	1,991	4
Total	**24,862**	**55**	**25,411**	**60**	**25,385**	**41**	**25,784**	**52**	**23,929**	**50**

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	2015		2016		2017		2018		2019	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Monday	3,808	5	3,655	6	3,925	4	4,133	9	3,747	5
Tuesday	4,054	4	4,013	7	4,148	7	4,247	7	3,746	7
Wednesday	4,023	8	4,179	17	4,003	6	4,045	3	3,957	6
Thursday	3,724	8	4,040	10	4,037	9	3,953	6	3,680	7
Friday	3,967	15	4,253	8	4,034	4	4,308	13	3,740	9
Saturday	3,053	10	2,930	10	2,992	3	2,935	8	2,808	8
Sunday	2,233	5	2,341	2	2,246	8	2,163	6	2,251	8
Total	**24,862**	**55**	**25,411**	**60**	**25,385**	**41**	**25,784**	**52**	**23,929**	**50**

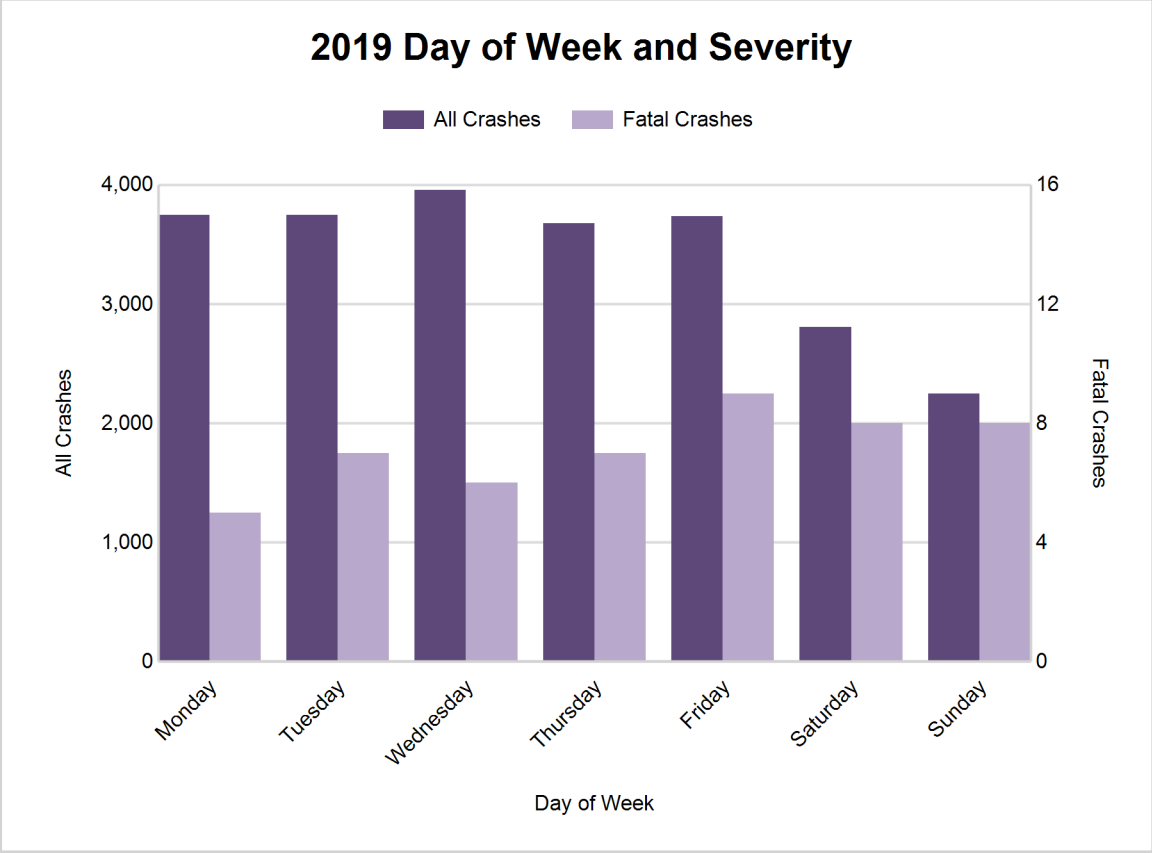
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred on the same day of the week



TSN Macomb County (continued)

2019 - Crashes by Day of Week

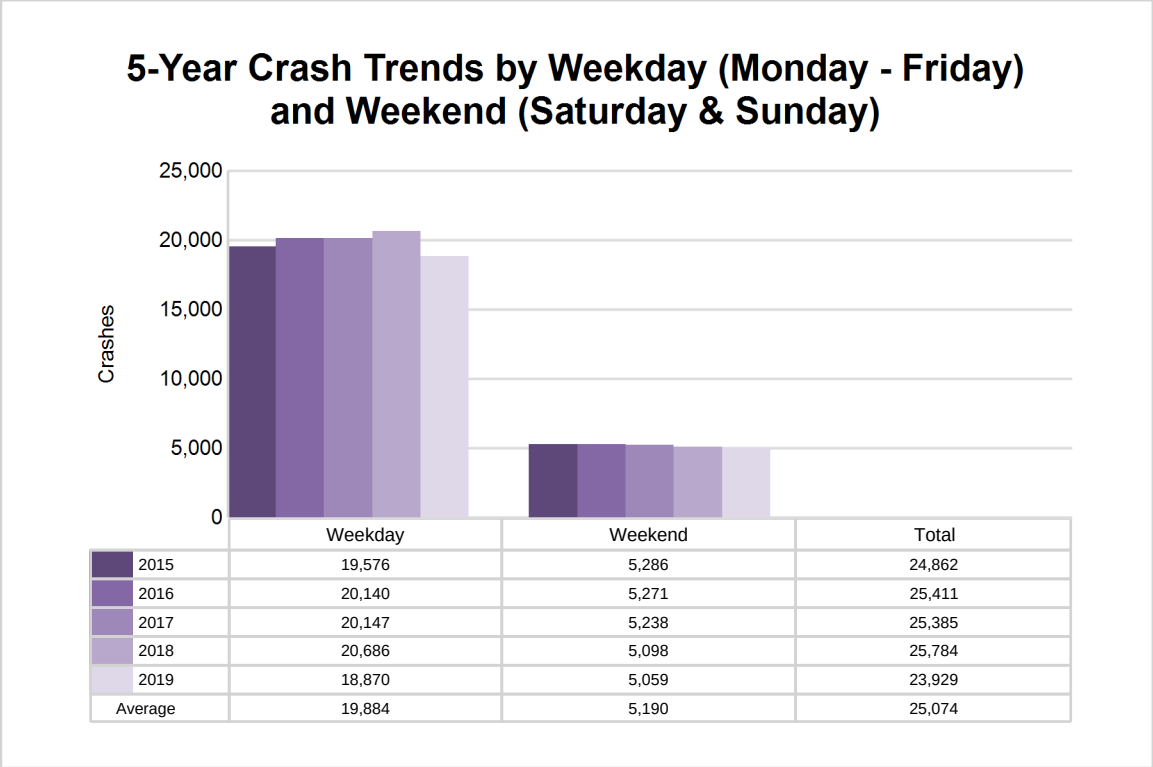
Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Monday	3,747	15.7	5	10.0	31	177	547	2,987
Tuesday	3,746	15.7	7	14.0	32	228	517	2,962
Wednesday	3,957	16.5	6	12.0	33	207	539	3,172
Thursday	3,680	15.4	7	14.0	33	208	529	2,903
Friday	3,740	15.6	9	18.0	30	222	466	3,013
Saturday	2,808	11.7	8	16.0	35	188	388	2,189
Sunday	2,251	9.4	8	16.0	28	149	302	1,764
Total	**23,929**	**100.0**	**50**	**100.0**	**222**	**1,379**	**3,288**	**18,990**



TSN Macomb County (continued)

5-Year Trend - Crashes by Weekday and Weekend

Portion of Week	2015		2016		2017		2018		2019	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Weekday	19,576	40	20,140	48	20,147	30	20,686	38	18,870	34
Weekend	5,286	15	5,271	12	5,238	11	5,098	14	5,059	16
Total	**24,862**	**55**	**25,411**	**60**	**25,385**	**41**	**25,784**	**52**	**23,929**	**50**



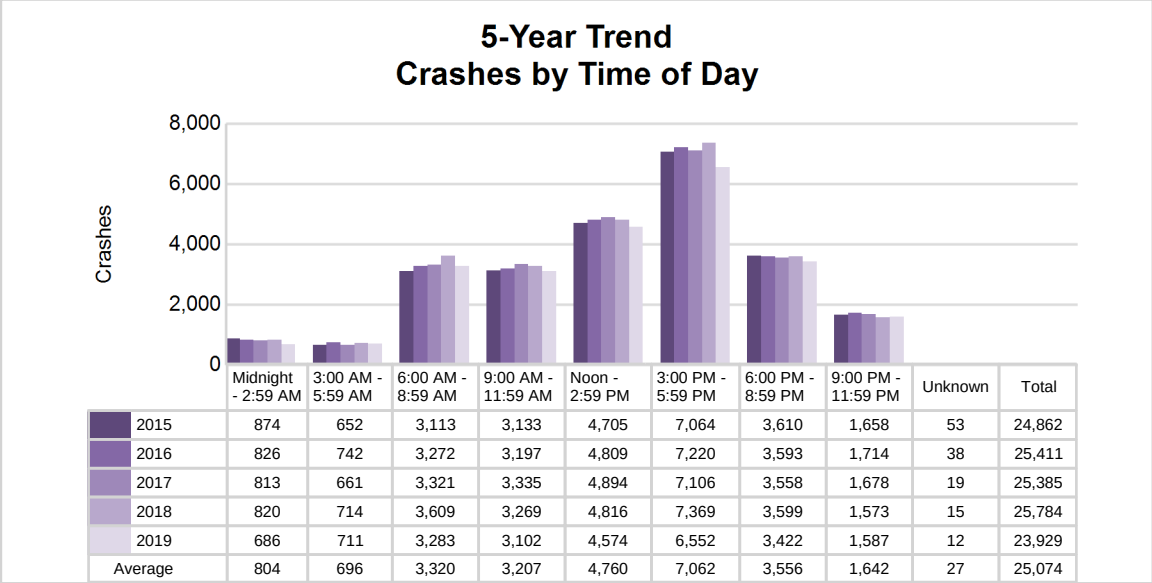
	Weekday	Weekend	Total
2015	19,576	5,286	24,862
2016	20,140	5,271	25,411
2017	20,147	5,238	25,385
2018	20,686	5,098	25,784
2019	18,870	5,059	23,929
Average	19,884	5,190	25,074

TSN Macomb County (continued)

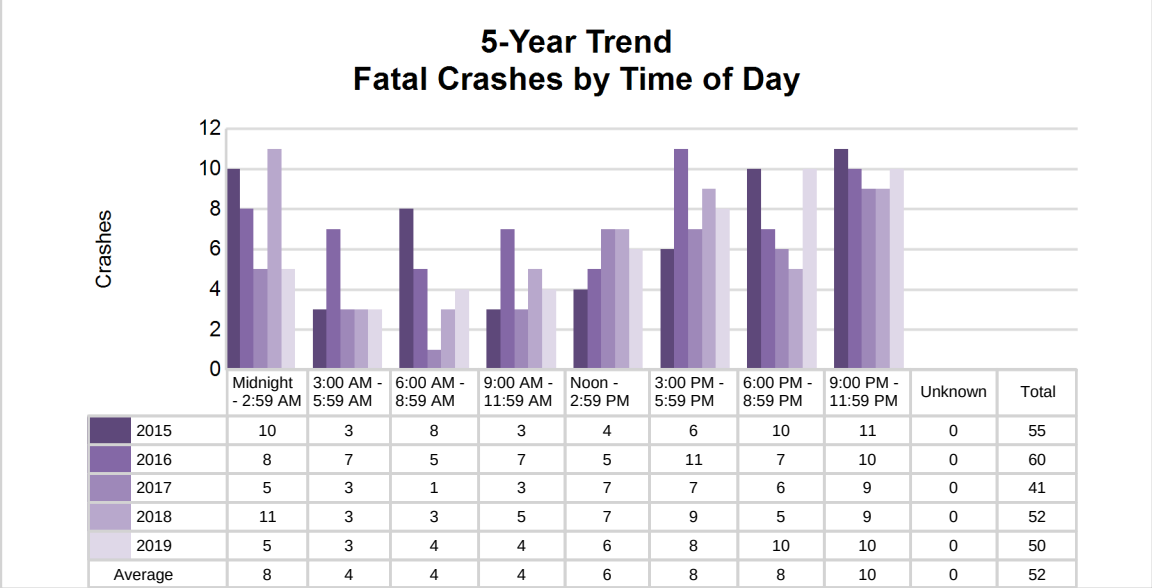
5-Year Trend - Crashes by Time of Day

Time of Day	2015		2016		2017		2018		2019	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	874	10	826	8	813	5	820	11	686	5
3:00 AM - 5:59 AM	652	3	742	7	661	3	714	3	711	3
6:00 AM - 8:59 AM	3,113	8	3,272	5	3,321	1	3,609	3	3,283	4
9:00 AM - 11:59 AM	3,133	3	3,197	7	3,335	3	3,269	5	3,102	4
Noon - 2:59 PM	4,705	4	4,809	5	4,894	7	4,816	7	4,574	6
3:00 PM - 5:59 PM	7,064 †	6	7,220 †	11	7,106 †	7	7,369 †	9	6,552 †	8
6:00 PM - 8:59 PM	3,610	10	3,593	7	3,558	6	3,599	5	3,422	10
9:00 PM - 11:59 PM	1,658	11	1,714	10	1,678	9	1,573	9	1,587	10
Unknown	53	0	38	0	19	0	15	0	12	0
Total	**24,862**	**55**	**25,411**	**60**	**25,385**	**41**	**25,784**	**52**	**23,929**	**50**

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



	Midnight - 2:59 AM	3:00 AM - 5:59 AM	6:00 AM - 8:59 AM	9:00 AM - 11:59 AM	Noon - 2:59 PM	3:00 PM - 5:59 PM	6:00 PM - 8:59 PM	9:00 PM - 11:59 PM	Unknown	Total
2015	874	652	3,113	3,133	4,705	7,064	3,610	1,658	53	24,862
2016	826	742	3,272	3,197	4,809	7,220	3,593	1,714	38	25,411
2017	813	661	3,321	3,335	4,894	7,106	3,558	1,678	19	25,385
2018	820	714	3,609	3,269	4,816	7,369	3,599	1,573	15	25,784
2019	686	711	3,283	3,102	4,574	6,552	3,422	1,587	12	23,929
Average	804	696	3,320	3,207	4,760	7,062	3,556	1,642	27	25,074

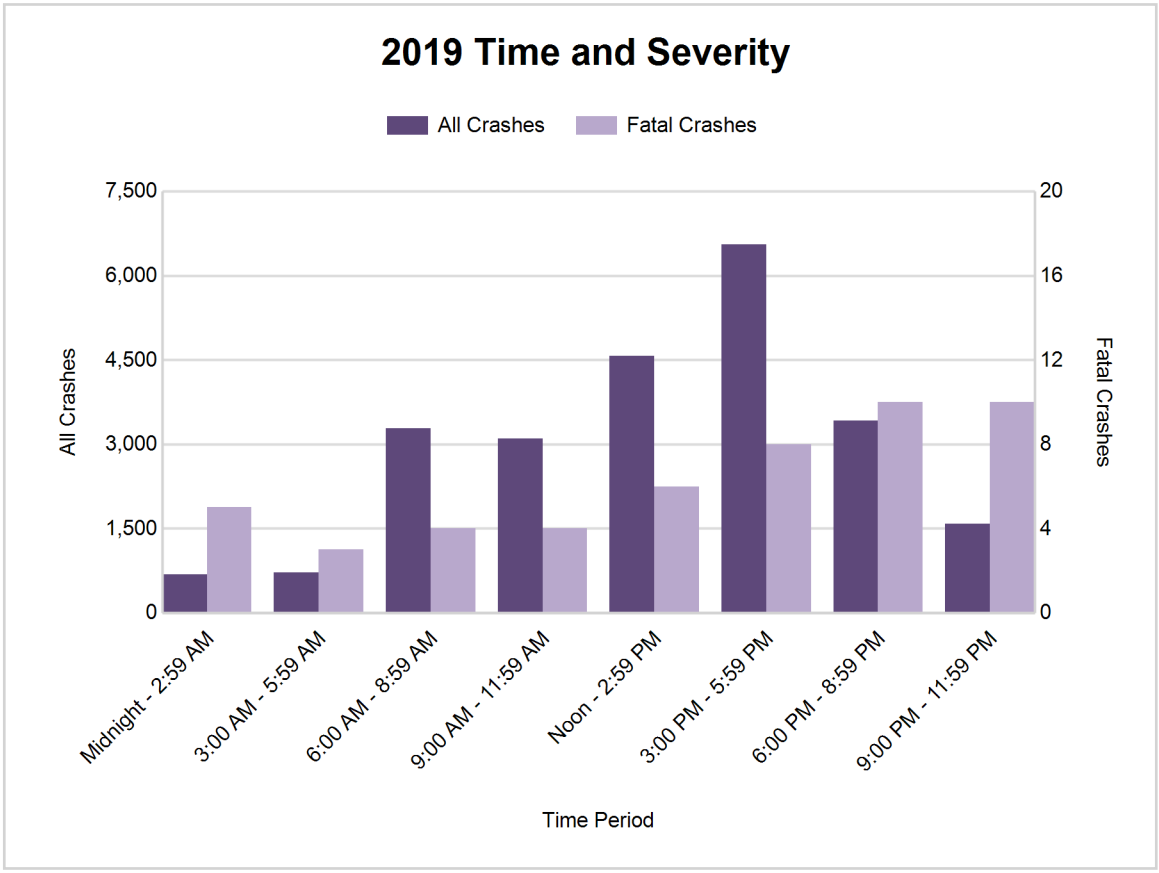


	Midnight - 2:59 AM	3:00 AM - 5:59 AM	6:00 AM - 8:59 AM	9:00 AM - 11:59 AM	Noon - 2:59 PM	3:00 PM - 5:59 PM	6:00 PM - 8:59 PM	9:00 PM - 11:59 PM	Unknown	Total
2015	10	3	8	3	4	6	10	11	0	55
2016	8	7	5	7	5	11	7	10	0	60
2017	5	3	1	3	7	7	6	9	0	41
2018	11	3	3	5	7	9	5	9	0	52
2019	5	3	4	4	6	8	10	10	0	50
Average	8	4	4	4	6	8	8	10	0	52

TSN Macomb County (continued)

2019 - 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	686	2.9	5	10.0	19	50	70	542
3:00 AM - 5:59 AM	711	3.0	3	6.0	17	52	82	557
6:00 AM - 8:59 AM	3,283	13.7	4	8.0	17	158	410	2,694
9:00 AM - 11:59 AM	3,102	13.0	4	8.0	22	174	466	2,436
Noon - 2:59 PM	4,574	19.1	6	12.0	25	251	657	3,635
3:00 PM - 5:59 PM	6,552	27.4	8	16.0	48	377	885	5,234
6:00 PM - 8:59 PM	3,422	14.3	10	20.0	38	206	504	2,664
9:00 PM - 11:59 PM	1,587	6.6	10	20.0	36	111	214	1,216
Unknown	12	0.1	0	0.0	0	0	0	12
Total	**23,929**	**100.0**	**50**	**100.0**	**222**	**1,379**	**3,288**	**18,990**

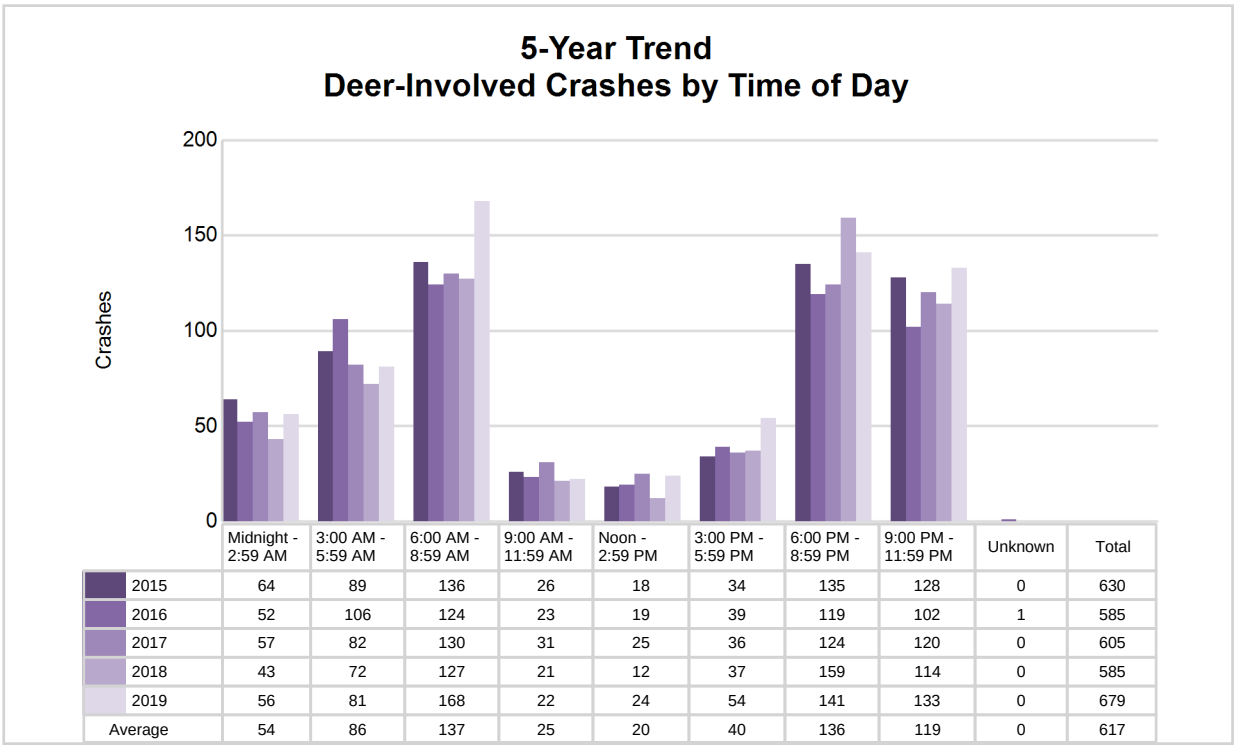


TSN Macomb County (continued)

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

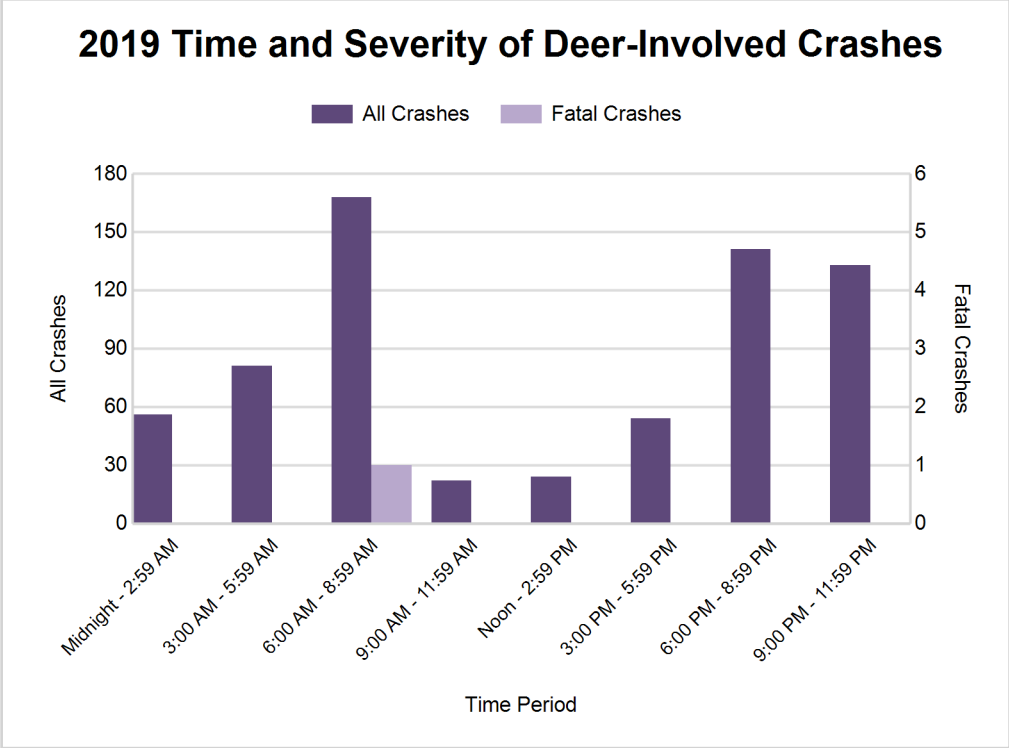
Time of Day	2015		2016		2017		2018		2019	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	64	0	52	0	57	0	43	0	56	0
3:00 AM - 5:59 AM	89	0	106	0	82	0	72	0	81	0
6:00 AM - 8:59 AM	136	0	124	0	130	0	127	0	168	1
9:00 AM - 11:59 AM	26	0	23	0	31	0	21	0	22	0
Noon - 2:59 PM	18	0	19	0	25	0	12	0	24	0
3:00 PM - 5:59 PM	34	0	39	0	36	0	37	0	54	0
6:00 PM - 8:59 PM	135	0	119	0	124	0	159	0	141	0
9:00 PM - 11:59 PM	128	0	102	0	120	0	114	0	133	0
Unknown	0	0	1	0	0	0	0	0	0	0
Total	**630**	**0**	**585**	**0**	**605**	**0**	**585**	**0**	**679**	**1**

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



	Midnight - 2:59 AM	3:00 AM - 5:59 AM	6:00 AM - 8:59 AM	9:00 AM - 11:59 AM	Noon - 2:59 PM	3:00 PM - 5:59 PM	6:00 PM - 8:59 PM	9:00 PM - 11:59 PM	Unknown	Total
2015	64	89	136	26	18	34	135	128	0	630
2016	52	106	124	23	19	39	119	102	1	585
2017	57	82	130	31	25	36	124	120	0	605
2018	43	72	127	21	12	37	159	114	0	585
2019	56	81	168	22	24	54	141	133	0	679
Average	54	86	137	25	20	40	136	119	0	617

TSN Macomb County (continued)



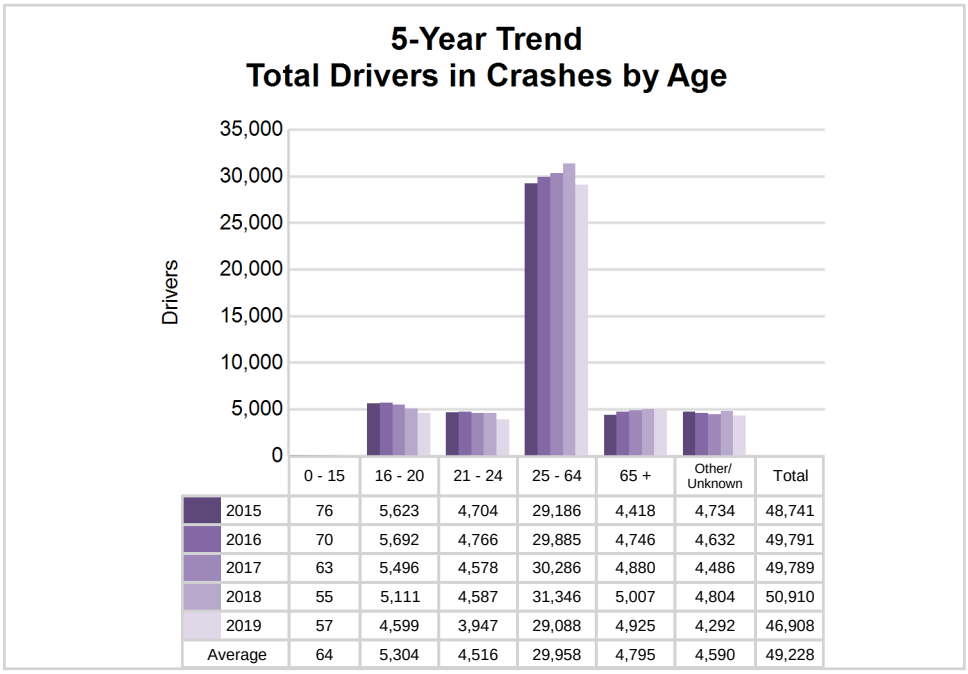
2019 - Reported Motor Vehicle Crashes by County

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	23,929	50	4,889	18,990	2,623	0	6,545	14,728	687	201	679	53	6,719
Total	**23,929**	**50**	**4,889**	**18,990**	**2,623**	**0**	**6,545**	**14,728**	**687**	**201**	**679**	**53**	**6,719**

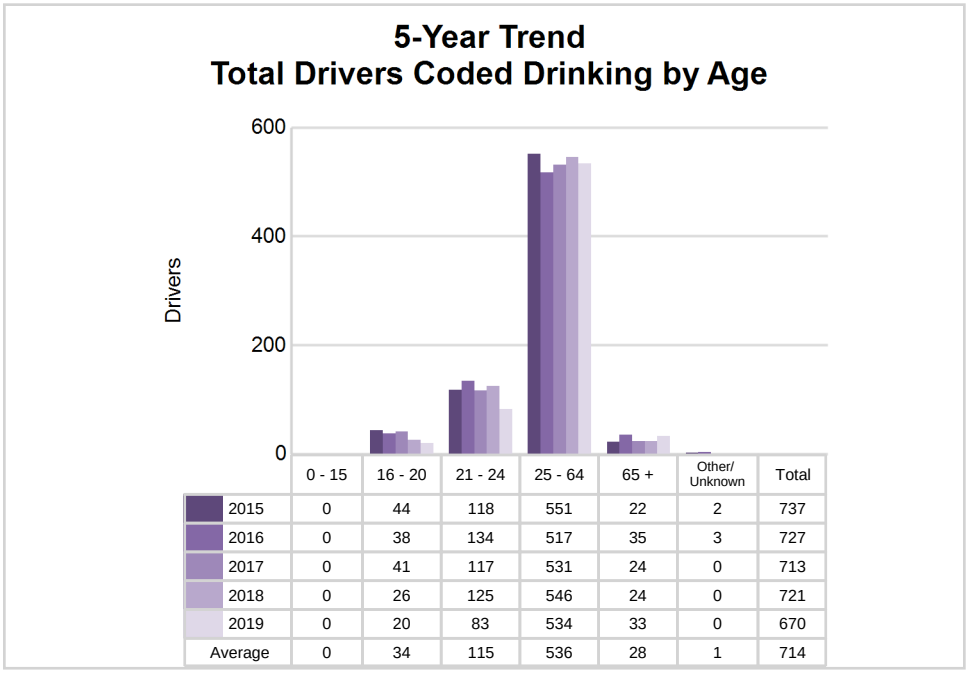
TSN Macomb County (continued)

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

Driver Age	2015		2016		2017		2018		2019	
	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	76	0	70	0	63	0	55	0	57	0
16 - 20	5,623	44	5,692	38	5,496	41	5,111	26	4,599	20
21 - 24	4,704	118	4,766	134	4,578	117	4,587	125	3,947	83
25 - 64	29,186	551	29,885	517	30,286	531	31,346	546	29,088	534
65 +	4,418	22	4,746	35	4,880	24	5,007	24	4,925	33
Unknown	4,734	2	4,632	3	4,486	0	4,804	0	4,292	0
Total	**48,741**	**737**	**49,791**	**727**	**49,789**	**713**	**50,910**	**721**	**46,908**	**670**



	0 - 15	16 - 20	21 - 24	25 - 64	65 +	Other/ Unknown	Total
2015	76	5,623	4,704	29,186	4,418	4,734	48,741
2016	70	5,692	4,766	29,885	4,746	4,632	49,791
2017	63	5,496	4,578	30,286	4,880	4,486	49,789
2018	55	5,111	4,587	31,346	5,007	4,804	50,910
2019	57	4,599	3,947	29,088	4,925	4,292	46,908
Average	64	5,304	4,516	29,958	4,795	4,590	49,228

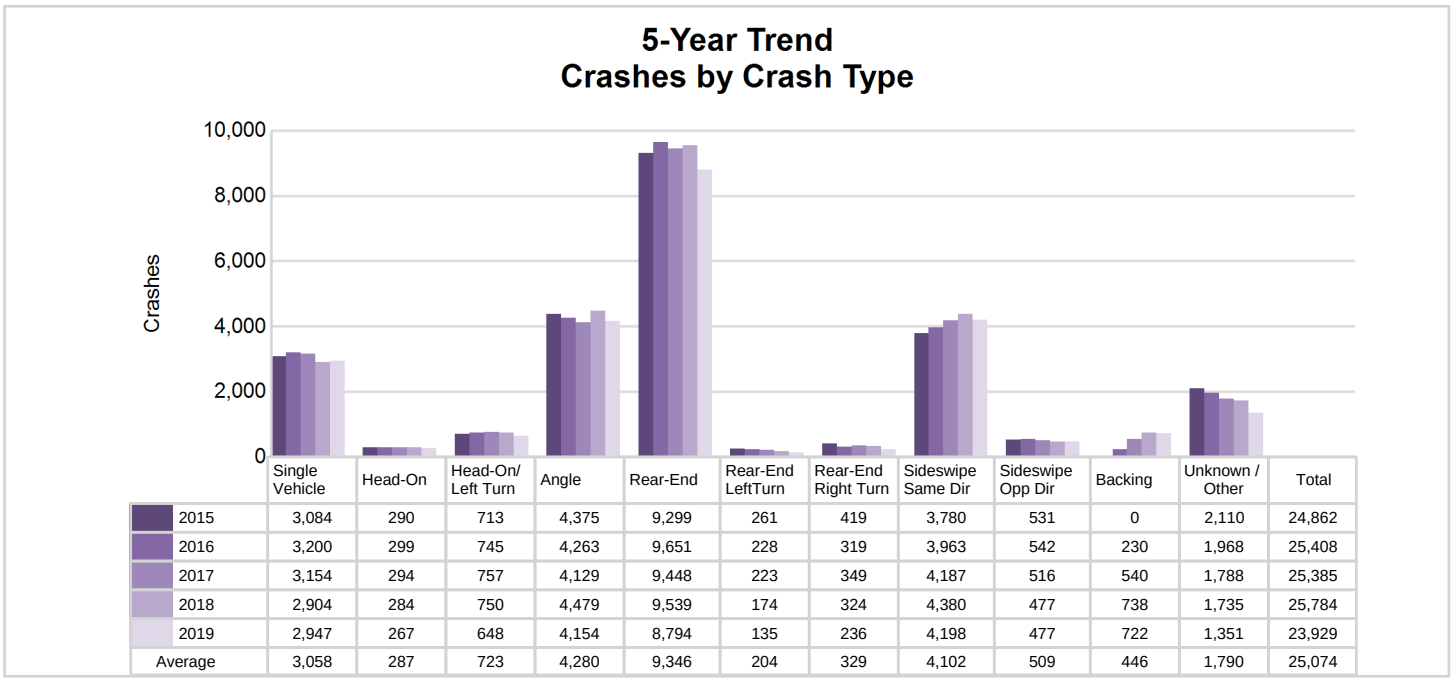


	0 - 15	16 - 20	21 - 24	25 - 64	65 +	Other/ Unknown	Total
2015	0	44	118	551	22	2	737
2016	0	38	134	517	35	3	727
2017	0	41	117	531	24	0	713
2018	0	26	125	546	24	0	721
2019	0	20	83	534	33	0	670
Average	0	34	115	536	28	1	714

TSN Macomb County (continued)

5-Year Trend - Crashes by Crash Type

Crash Type	2015		2016		2017		2018		2019	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Single motor vehicle	3,084	28	3,200	30	3,154	17	2,904	20	2,947	23
Head-on	290	6	299	6	294	5	284	5	267	5
Head-on / left turn	713	3	745	3	757	2	750	1	648	4
Angle	4,375	4	4,263	10	4,129	8	4,479	10	4,154	9
Rear-end	9,299	5	9,651	9	9,448	1	9,539	7	8,794	3
Rear-end left turn	261	0	228	0	223	0	174	0	135	0
Rear-end right turn	419	0	319	0	349	0	324	0	236	0
Sideswipe same direction	3,780	1	3,963	0	4,187	0	4,380	1	4,198	2
Sideswipe opposite direction	531	0	542	1	516	1	477	0	477	1
Backing	0	0	230	0	540	0	738	0	722	0
Other / Unknown	2,110	8	1,968	1	1,788	7	1,735	8	1,351	3
Uncoded and Errors	0	0	3	0	0	0	0	0	0	0
Total	**24,862**	**55**	**25,411**	**60**	**25,385**	**41**	**25,784**	**52**	**23,929**	**50**



	Single Vehicle	Head-On	Head-On/ Left Turn	Angle	Rear-End	Rear-End LeftTurn	Rear-End Right Turn	Sideswipe Same Dir	Sideswipe Opp Dir	Backing	Unknown / Other	Total
2015	3,084	290	713	4,375	9,299	261	419	3,780	531	0	2,110	24,862
2016	3,200	299	745	4,263	9,651	228	319	3,963	542	230	1,968	25,408
2017	3,154	294	757	4,129	9,448	223	349	4,187	516	540	1,788	25,385
2018	2,904	284	750	4,479	9,539	174	324	4,380	477	738	1,735	25,784
2019	2,947	267	648	4,154	8,794	135	236	4,198	477	722	1,351	23,929
Average	3,058	287	723	4,280	9,346	204	329	4,102	509	446	1,790	25,074

TSN Macomb County (continued)

2019 - 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	52	31	18	20	0	1	7	6	6
21 - 24	111	90	74	83	0	6	32	27	18
25 - 64	806	591	467	534	0	33	150	187	164
65 +	70	44	32	33	0	2	7	11	13
Unknown	128	1	0	0	0	0	0	0	0
Total	**1,168**	**757**	**591**	**670**	**0**	**42**	**196**	**231**	**201**

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

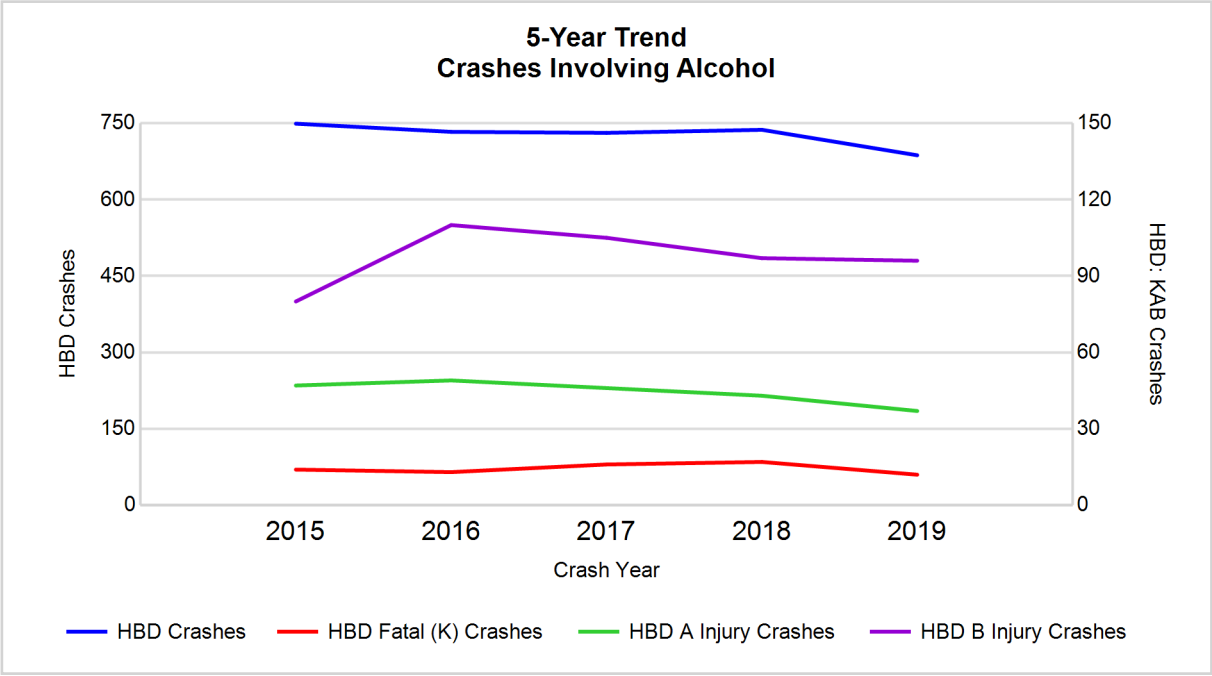
In 2019, there were 1,168 drivers in alcohol-involved crashes; 670 (57.4%) of those drivers were coded as had-been-drinking by the officer on the crash form.

- 427 (63.7%) of the 670 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 231 (54.1%) of the 427 drivers had a BAC at or above 0.17 g/dL.
- 591 (88.2%) of the 670 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
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
2019	23,929*	687*	2.9	50	12*	24.0	222*	37*	16.7	1,379	96	7.0

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



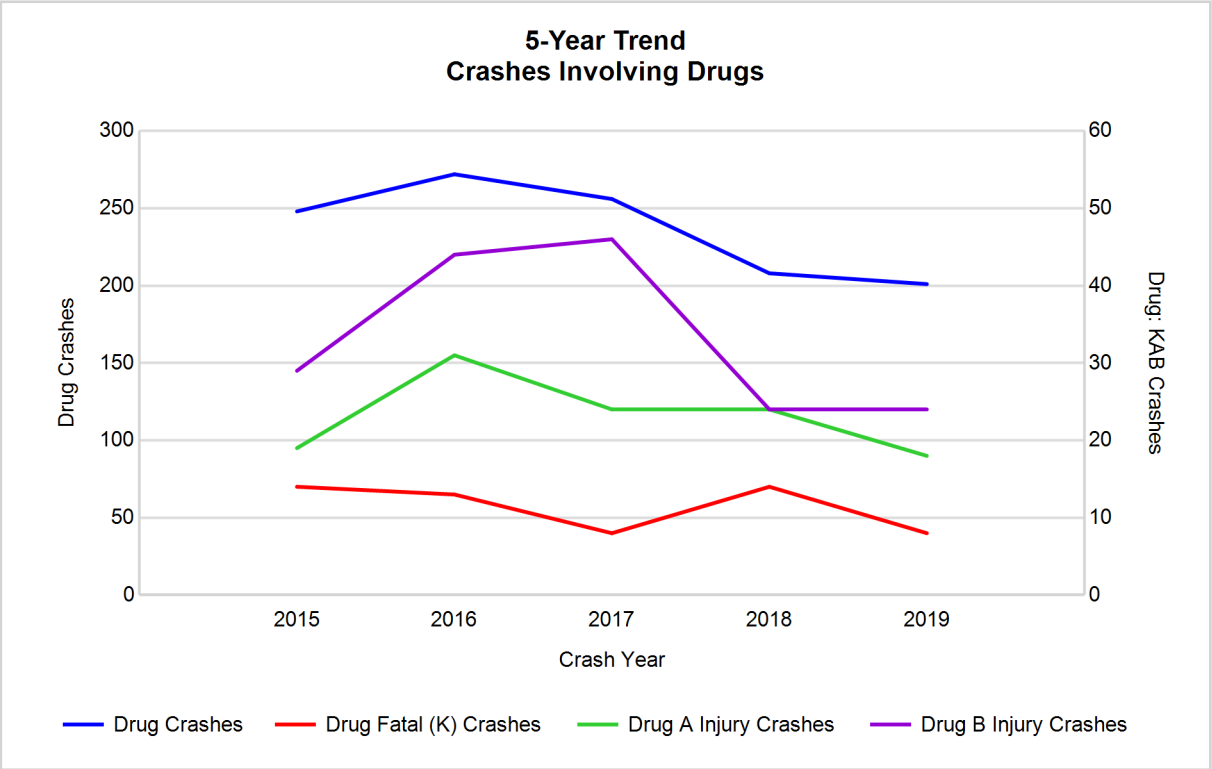
Note: Had-Been-Drinking (HBD)

TSN Macomb County (continued)

5-Year Trend - Crashes Involving Drugs

Year	All Crashes	Drug Crashes	% Drug	Fatal Crashes	Drug Fatal Crashes	% Drug	A Injury Crashes	Drug A Injury Crashes	% Drug	B Injury Crashes	Drug B Injury Crashes	% Drug
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
2019	23,929*	201*	0.8	50	8	16.0*	222*	18*	8.1	1,379	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

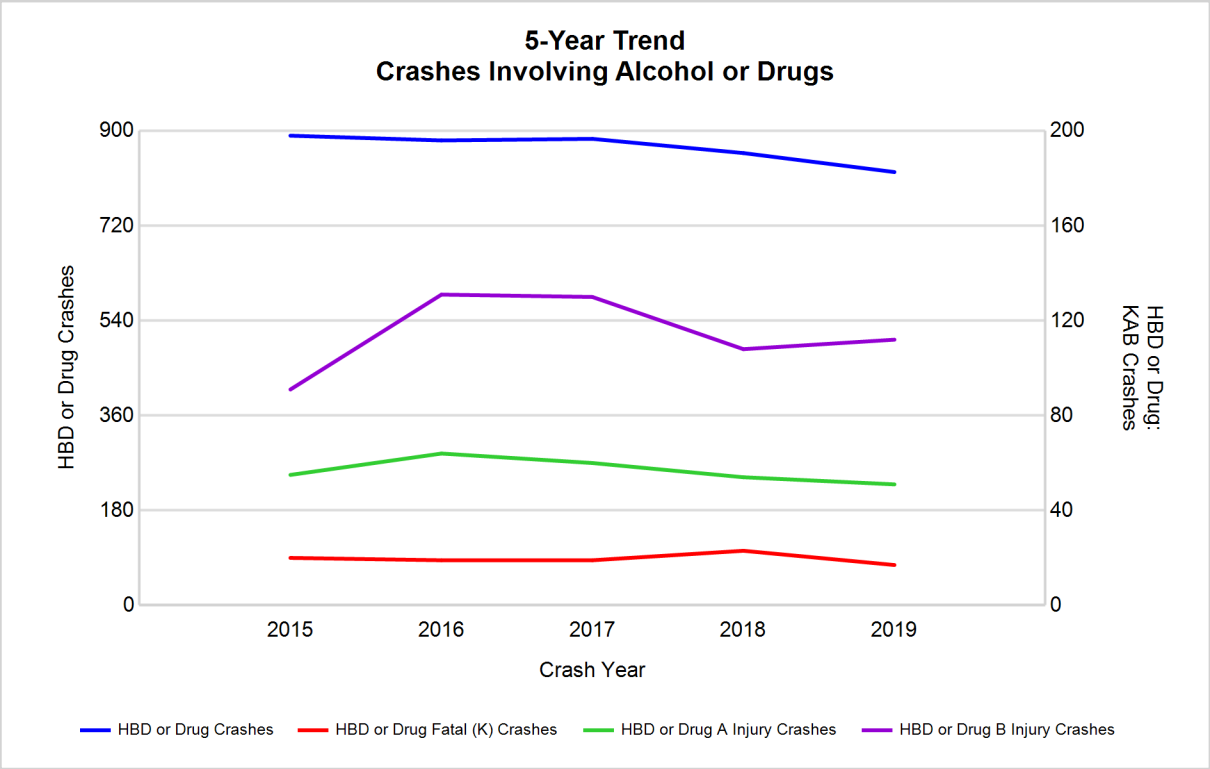


TSN Macomb County (continued)

5-Year Trend - Crashes Involving Alcohol or Drugs

Year	All Crashes	HBD or Drug Crashes	% HBD or Drug	Fatal Crashes	HBD or Drug Fatal Crashes	% HBD or Drug	A Injury Crashes	HBD or Drug A Injury Crashes	% HBD or Drug	B Injury Crashes	HBD or Drug B Injury Crashes	% HBD or Drug
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
2019	23,929*	822*	3.4	50	17*	34.0	222*	51*	23.0**	1,379	112	8.1

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)

TSN Macomb County (continued)

2019 - 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	40,239	36,262	90.1	30	20	66.7	167	142	85.0	1,346	1,266	94.1	4,235	4,084	96.4	31,482	30,749	97.7
Motor home	76	70	92.1	0	0	0.0	0	0	0.0	5	5	100.0	11	10	90.9	57	55	96.5
Pickup truck	5,175	4,598	88.9	1	0	0.0	15	12	80.0	104	95	91.3	347	336	96.8	4,258	4,155	97.6
Small truck under 10,000 lbs. GVWR	214	189	88.3	0	0	0.0	0	0	0.0	5	5	100.0	11	9	81.8	178	175	98.3
Motorcycle	212	134	63.2	6	3	50.0	41	19	46.3	74	48	64.9	43	35	81.4	40	29	72.5
Moped / goped	11	3	27.3	0	0	0.0	1	0	0.0	6	2	33.3	1	0	0.0	1	1	100.0
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	3	1	33.3	0	0	0.0	0	0	0.0	1	0	0.0	0	0	0.0	2	1	50.0
Other	126	75	59.5	0	0	0.0	0	0	0.0	6	3	50.0	3	1	33.3	83	71	85.5
Truck/bus over 10,000 lbs.	1,337	1,222	91.4	0	0	0.0	2	1	50.0	12	10	83.3	45	34	75.6	1,199	1,177	98.2
Unknown	912	1	0.1	0	0	0.0	0	0	0.0	0	0	0.0	1	1	100.0	0	0	0.0
Total	**48,306**	**42,555**	**88.1**	**37**	**23**	**62.2**	**226**	**174**	**77.0**	**1,559**	**1,434**	**92.0**	**4,697**	**4,510**	**96.0**	**37,300**	**36,413**	**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.

2019 - 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	431	393	91.2	3	3	100.0	6	5	83.3	69	60	87.0	303	281	92.7	50	44	88.0
16 - 20	4,795	4,655	97.1	3	3	100.0	15	12	80.0	192	179	93.2	452	427	94.5	4,113	4,034	98.1
21 - 24	4,057	3,901	96.2	4	2	50.0	28	20	71.4	144	131	91.0	391	367	93.9	3,474	3,381	97.3
25 - 64	29,626	28,614	96.6	11	5	45.5	139	103	74.1	931	849	91.2	2,959	2,852	96.4	25,439	24,805	97.5
65 +	5,105	4,991	97.8	16	10	62.5	38	34	89.5	223	215	96.4	592	583	98.5	4,222	4,149	98.3
Unknown	4,292	1	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	2	0	0.0
Total	**48,306**	**42,555**	**88.1**	**37**	**23**	**62.2**	**226**	**174**	**77.0**	**1,559**	**1,434**	**92.0**	**4,697**	**4,510**	**96.0**	**37,300**	**36,413**	**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.

TSN Macomb County (continued)

5-Year Trend - Restraint Use Among Drivers

Restraint Use	2015			2016			2017			2018			2019		
	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	152	1	22	66	0	13	43	0	10	28	0	8	46	0	6
Shoulder belt only used	16	0	2	100	0	18	154	0	19	91	0	15	112	0	15
Lap belt only used	94	0	15	56	0	7	50	0	6	61	0	6	46	0	8
Both lap & shoulder belts used	42,310	16	5,063	43,369	17	5,064	43,408	9	5,161	44,268	21	5,153	41,009	10	4,757
No belts used	175	9	67	198	3	88	151	2	85	139	0	70	128	8	64
Child restraint used	0	0	0	4	0	1	2	0	1	1	0	0	1	0	0
Child restraint not used, unavailable or improper use	3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
Restraint failure	2	0	0	2	0	0	9	0	1	7	0	1	6	0	1
Restraint use unknown	3,894	3	153	4,648	6	130	4,605	1	148	4,935	1	129	4,282	2	92
Helmet worn	168	5	127	159	5	112	169	4	122	138	2	97	128	3	94
Helmet not worn	87	3	67	74	3	54	70	5	50	75	7	54	63	3	52
Helmet use unknown	11	0	4	15	1	5	10	1	3	12	0	8	11	0	7
Uncoded & errors	1,829	0	2	1,099	0	0	1,118	0	0	1,155	0	0	1,076	0	0
Total	**48,741**	**37**	**5,523**	**49,791**	**35**	**5,492**	**49,789**	**22**	**5,606**	**50,910**	**31**	**5,541**	**46,908**	**26**	**5,096**

5-Year Trend - Restraint Use Among Drivers Coded Drinking

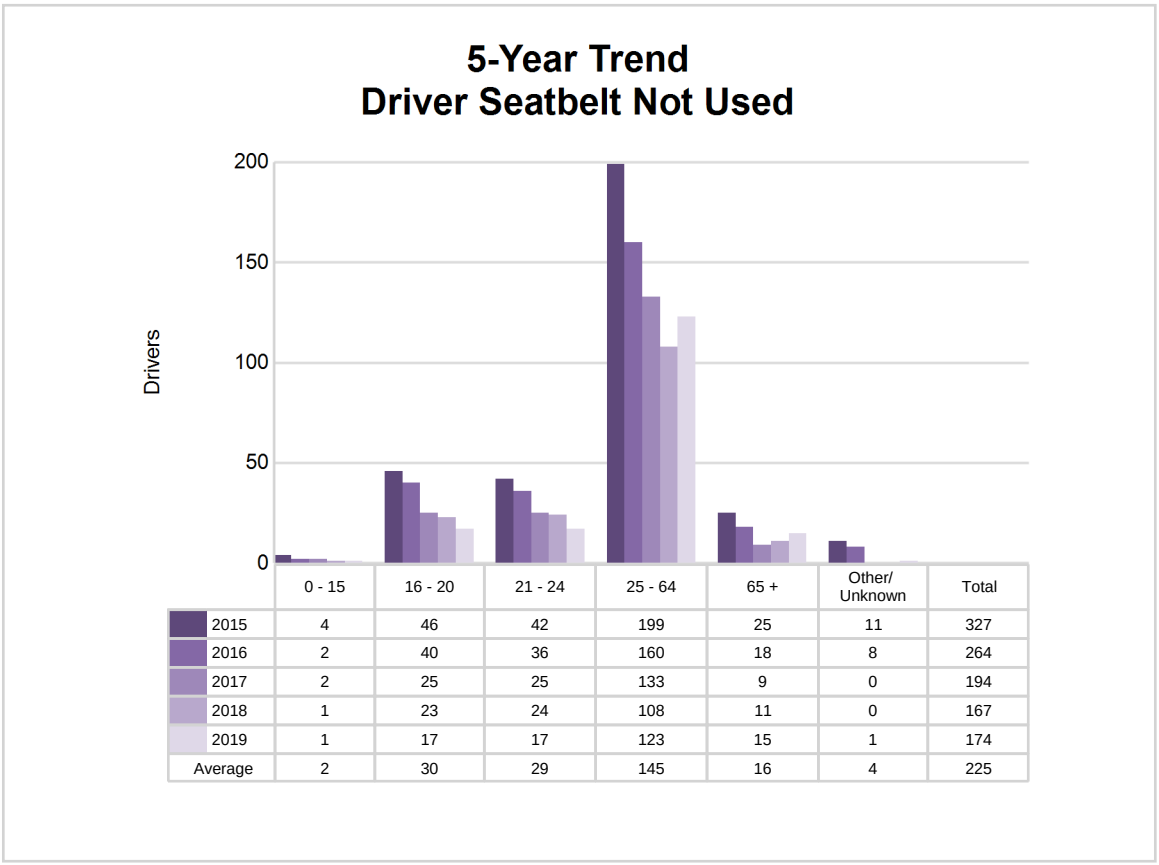
Restraint Use	2015			2016			2017			2018			2019		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	6	0	2	1	0	1	0	0	0	1	0	0	0	0	0
Shoulder belt only used	0	0	0	1	0	0	1	0	0	0	0	0	4	0	0
Lap belt only used	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Both lap & shoulder belts used	565	3	105	576	3	141	563	3	131	582	1	136	549	2	119
No belts used	30	2	18	33	0	17	23	2	15	25	0	16	16	1	10
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	123	1	38	98	2	25	116	0	27	101	1	27	85	1	19
Helmet worn	6	0	6	10	0	9	2	0	2	5	1	3	3	1	1
Helmet not worn	7	0	7	7	1	6	7	1	6	7	2	4	11	0	10
Helmet use unknown	0	0	0	1	0	1	1	0	1	0	0	0	1	0	1
Uncoded & errors	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	**737**	**6**	**176**	**727**	**6**	**200**	**713**	**6**	**182**	**721**	**5**	**186**	**670**	**5**	**160**

TSN Macomb County (continued)

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

Age Group	2015			2016			2017			2018			2019		
	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	0	2	0	0	2	0	1	1	0	0	1	0	0
16 - 20	46	2	13	40	1	22	25	0	12	23	0	10	17	0	10
21 - 24	42	1	14	36	0	23	25	1	14	24	0	14	17	2	8
25 - 64	199	6	55	160	1	47	133	1	66	108	0	50	123	3	49
65 +	25	1	7	18	1	9	9	0	2	11	0	4	15	3	3
Unknown	11	0	0	8	0	0	0	0	0	0	0	0	1	0	0
Total	**327**	**10**	**89**	**264**	**3**	**101**	**194**	**2**	**95**	**167**	**0**	**78**	**174**	**8**	**70**

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



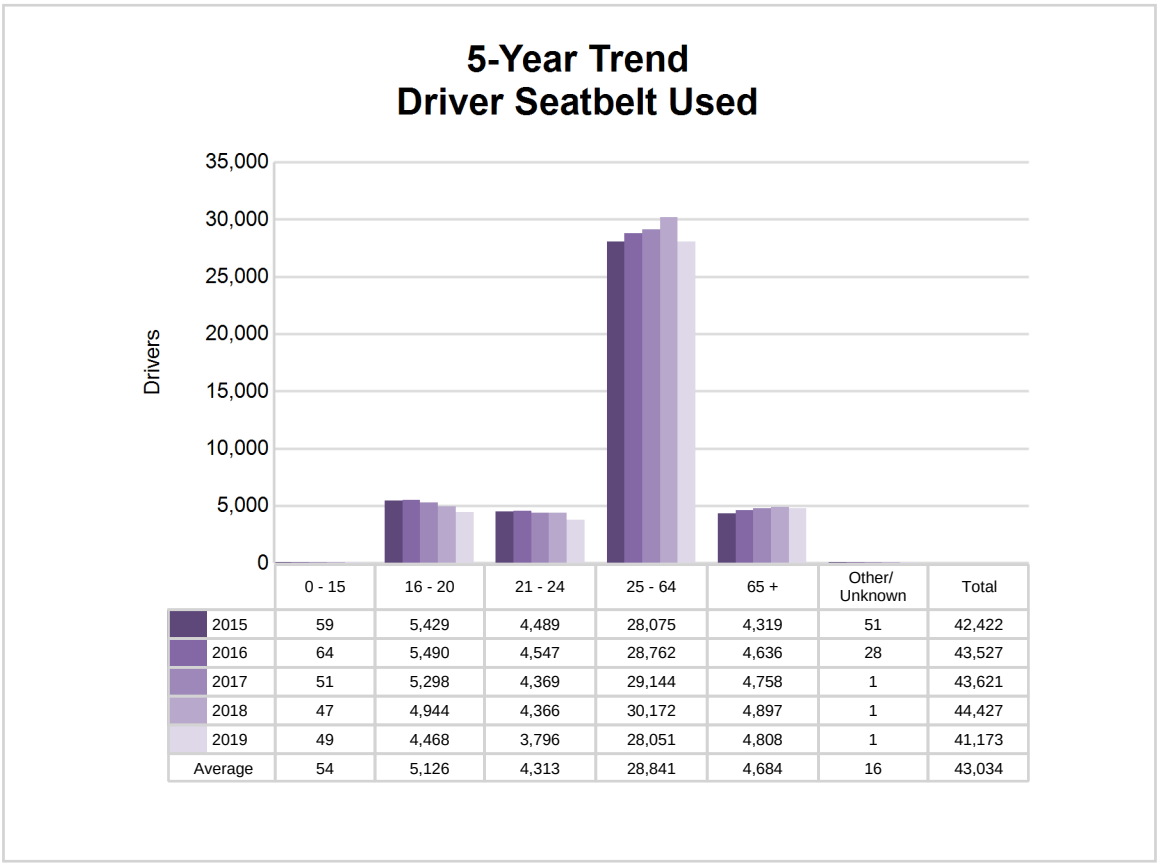
	0 - 15	16 - 20	21 - 24	25 - 64	65 +	Other/ Unknown	Total
2015	4	46	42	199	25	11	327
2016	2	40	36	160	18	8	264
2017	2	25	25	133	9	0	194
2018	1	23	24	108	11	0	167
2019	1	17	17	123	15	1	174
Average	2	30	29	145	16	4	225

TSN Macomb County (continued)

5-Year Trend - Seatbelt Used Among Drivers by Age

Age Group	2015			2016			2017			2018			2019		
	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	64	0	3	51	0	8	47	0	1	49	0	5
16 - 20	5,429	2	567	5,490	1	555	5,298	0	529	4,944	1	521	4,468	1	436
21 - 24	4,489	1	508	4,547	0	526	4,369	2	513	4,366	3	506	3,796	2	418
25 - 64	28,075	8	3,378	28,762	9	3,376	29,144	5	3,490	30,172	9	3,452	28,051	3	3,264
65 +	4,319	5	618	4,636	7	629	4,758	2	646	4,897	8	695	4,808	4	658
Unknown	51	0	0	28	0	0	1	0	1	1	0	0	1	0	0
Total	**42,422**	**16**	**5,080**	**43,527**	**17**	**5,089**	**43,621**	**9**	**5,187**	**44,427**	**21**	**5,175**	**41,173**	**10**	**4,781**

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



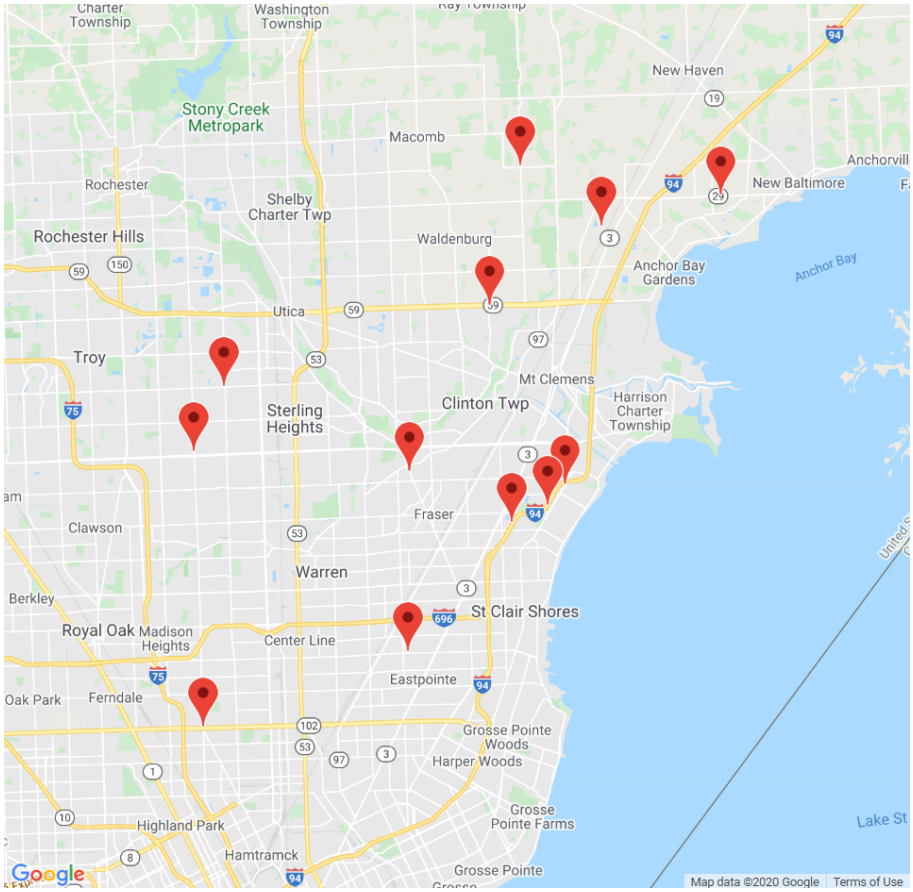
	0 - 15	16 - 20	21 - 24	25 - 64	65 +	Other/ Unknown	Total
2015	59	5,429	4,489	28,075	4,319	51	42,422
2016	64	5,490	4,547	28,762	4,636	28	43,527
2017	51	5,298	4,369	29,144	4,758	1	43,621
2018	47	4,944	4,366	30,172	4,897	1	44,427
2019	49	4,468	3,796	28,051	4,808	1	41,173
Average	54	5,126	4,313	28,841	4,684	16	43,034

TSN Macomb County (continued)

5-Year Trend - Drivers in Crashes by Hazardous Action

Hazardous Action	2015		2016		2017		2018		2019	
	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	23,624	38	23,819	52	23,841	33	24,315	51	22,254	36
Speed too fast	983	6	1,073	8	1,094	3	1,076	5	1,031	4
Speed too slow	16	0	10	0	7	0	8	0	8	0
Failed to yield	5,032	7	5,299	5	5,356	5	5,927	4	5,424	6
Disregard traffic control	846	2	873	6	824	3	865	4	809	4
Drove wrong way	23	0	39	0	27	0	26	0	35	0
Drove left of center	199	3	212	5	211	2	184	5	184	6
Improper passing	168	0	177	1	182	0	208	1	205	0
Improper lane use	1,192	3	1,273	0	1,310	0	1,297	0	1,295	0
Improper turn	482	1	411	0	421	1	429	0	381	0
Improper/no signal	39	0	34	0	41	0	20	0	39	0
Improper backing	727	0	745	0	669	0	675	0	668	0
Unable to stop in assured clear distance	8,769	3	9,066	6	8,974	1	8,816	4	8,140	2
Other	1,892	4	1,758	3	1,776	4	1,886	8	1,727	10
Unknown	2,208	10	2,460	9	2,788	9	2,904	10	2,657	11
Reckless driving	157	2	166	0	168	3	159	2	137	5
Careless/negligent driving	1,377	6	1,340	4	1,184	4	1,148	3	950	1
Uncoded & errors	1,007	0	1,036	0	916	1	967	0	964	1
Total	**48,741**	**85**	**49,791**	**99**	**49,789**	**69**	**50,910**	**97**	**46,908**	**86**

TSN Macomb County (continued)



The picture above represents all 2019 alcohol-involved fatal crashes in TSN Macomb County.

In 2019, there were 687 alcohol-involved crashes in TSN Macomb County:

12	K - Fatal Crashes
37	A - Suspected Serious Injury Crashes
96	B - Suspected Minor Injury Crashes
113	C - Possible Injury Crashes
429	O - Property Damage Only/No Injury Crashes

Office of Highway Safety Planning

Physical Address:
7150 Harris Drive
Dimondale, Michigan 48821

Mailing Address:
P.O. Box 30634
Lansing, Michigan 48909

Phone: (517) 284-3112
Fax: (517) 284-3151

Find us on the web:
MichiganTrafficCrashFacts.org

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