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

MDOT Region - Metro

2019 Traffic Crash Data & 2015-2019 5-Year Trends

Beginning October 2015, MDOT Region - Metro is comprised of Macomb, Oakland, and Wayne 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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MDOT Region - Metro

MDOT Region - Metro Experience

In 2019:

There were 228,129 drivers involved in 117,358 motor vehicle crashes in MDOT Region Metro. Of those crashes, 264 were classified as fatal, resulting in 287 fatalities. An additional 33,591 persons were injured.

MDOT Region Metro experienced the highest number of motor vehicle crashes (11,345) in October, the highest number of fatal crashes (35) and the highest number of persons killed (38) in October.

Michigan driver statistics indicate 6.2 percent of licensed drivers in MDOT Region Metro were age 16-20, and 8.7 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	10,325	21	1,910	8,394	24	2,561
February	9,135	17	1,625	7,493	18	2,178
March	8,911	23	1,844	7,044	23	2,503
April	8,300	22	1,774	6,504	23	2,434
May	10,043	25	2,212	7,806	28	3,154
June	10,021	26	2,235	7,760	30	3,173
July	9,490	22	2,135	7,333	26	3,023
August	9,453	18	2,147	7,288	21	2,962
September	9,921	21	2,198	7,702	21	3,035
October	11,345	35	2,354	8,956	38	3,267
November	10,932	17	1,977	8,938	18	2,694
December	9,482	17	1,872	7,593	17	2,607
Total	**117,358**	**264**	**24,283**	**92,811**	**287**	**33,591**

2019 - Driver Statistics

Age Group	MDOT Region - Metro			Driver Rates	
	2019 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	753,175	17,876	280	3.7	156.6
16 - 20	228,751	172,954	19,936	871.5	1,152.7
21 - 24	192,476	173,259	19,458	1,010.9	1,123.1
25 - 64	2,060,023	1,861,692	138,447	672.1	743.7
65 +	646,474	548,501	21,724	336.0	396.1
Unknown	0	0	28,284	- -	- -
Total	**3,880,899**	**2,774,282**	**228,129**	**587.8**	**822.3**

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	192,913	84.6	324	76.1	41,946	150,643
Motor home	394	0.2	0	0.0	73	321
Pickup truck	18,394	8.1	22	5.2	3,461	14,911
Small truck under 10,000 lbs. GVWR	978	0.4	0	0.0	181	797
Motorcycle	902	0.4	37	8.7	643	222
Moped / goped	120	0.1	5	1.2	85	30
Go-cart / golf cart	13	0.0	0	0.0	5	8
Snowmobile	2	0.0	2	0.5	0	0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	35	0.0	1	0.2	20	14
Other	760	0.3	2	0.5	115	643
Truck/bus over 10,000 lbs.	6,769	3.0	23	5.4	1,162	5,584
Unknown	6,849	3.0	10	2.3	927	5,912
Total	**228,129**	**100.0**	**426**	**100.0**	**48,618**	**179,085**

MDOT Region - Metro (continued)

5-Year Trend - Crashes by Month

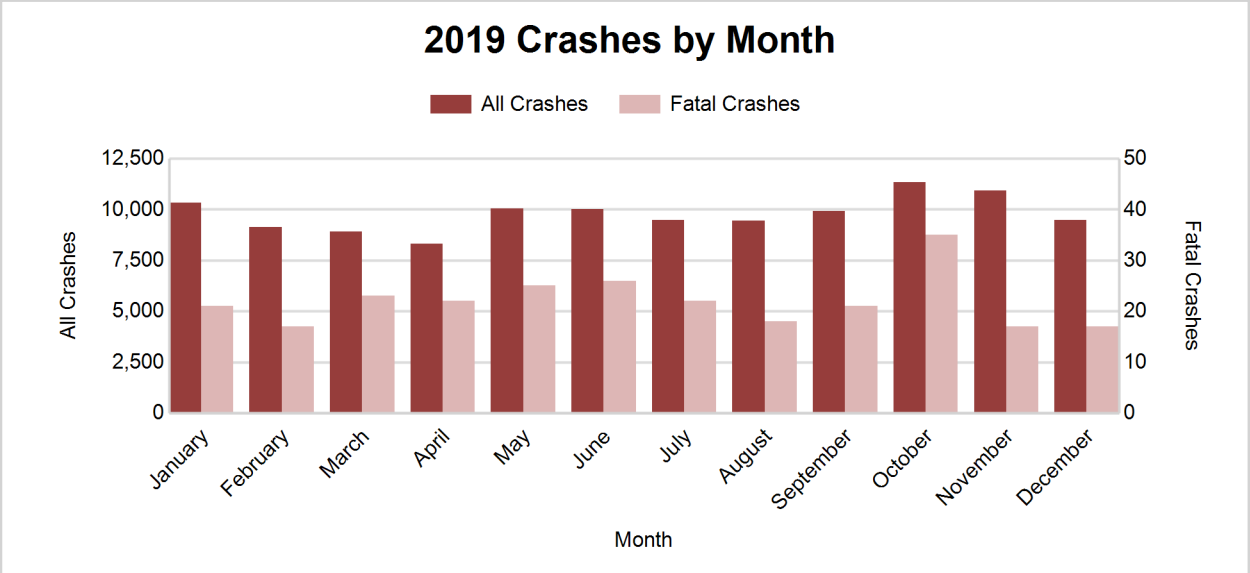
Month	2015		2016		2017		2018		2019	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
January	11,314	19	9,778	17	9,733	23	11,443	8	10,325	21
February	10,234	12	9,649	23	8,079	20	10,051	18	9,135	17
March	8,739	18	9,783	13	10,744	18	9,077	11	8,911	23
April	7,918	23	9,287	32	8,697	18	8,681	20	8,300	22
May	9,558	20	9,973	24	10,917	24	10,679	22	10,043	25
June	9,451	36	10,002	30	10,469	29	10,372	30	10,021	26
July	8,960	33	9,549	23	9,213	19	9,238	21	9,490	22
August	8,943	36	9,841	39	9,820	19	9,474	38	9,453	18
September	9,755	22	10,447	34	9,814	24	9,706	31	9,921	21
October	10,015	17	10,675	29	11,248	18	11,485	15	11,345	35
November	10,407	33	10,282	34	10,463	19	10,532	22	10,932	17
December	9,869	24	11,969	23	12,891	23	9,932	22	9,482	17
Total	**115,163**	**293**	**121,235**	**321**	**122,088**	**254**	**120,670**	**258**	**117,358**	**264**

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	16,936	39	17,242	32	18,636	34	18,671	40	18,155	29
Tuesday	17,868	35	18,669	37	19,371	39	19,467	35	18,061	40
Wednesday	18,438	36	19,477	44	19,532	31	18,378	20	18,976	27
Thursday	17,573	36	19,612	44	19,209	40	18,850	34	18,097	40
Friday	18,687	52	20,093	47	19,805	35	19,783	47	18,442	32
Saturday	14,551	58	14,573	62	14,270	40	14,361	49	14,062	58
Sunday	11,110	37	11,569	55	11,265	35	11,160	33	11,565	38
Total	**115,163**	**293**	**121,235**	**321**	**122,088**	**254**	**120,670**	**258**	**117,358**	**264**

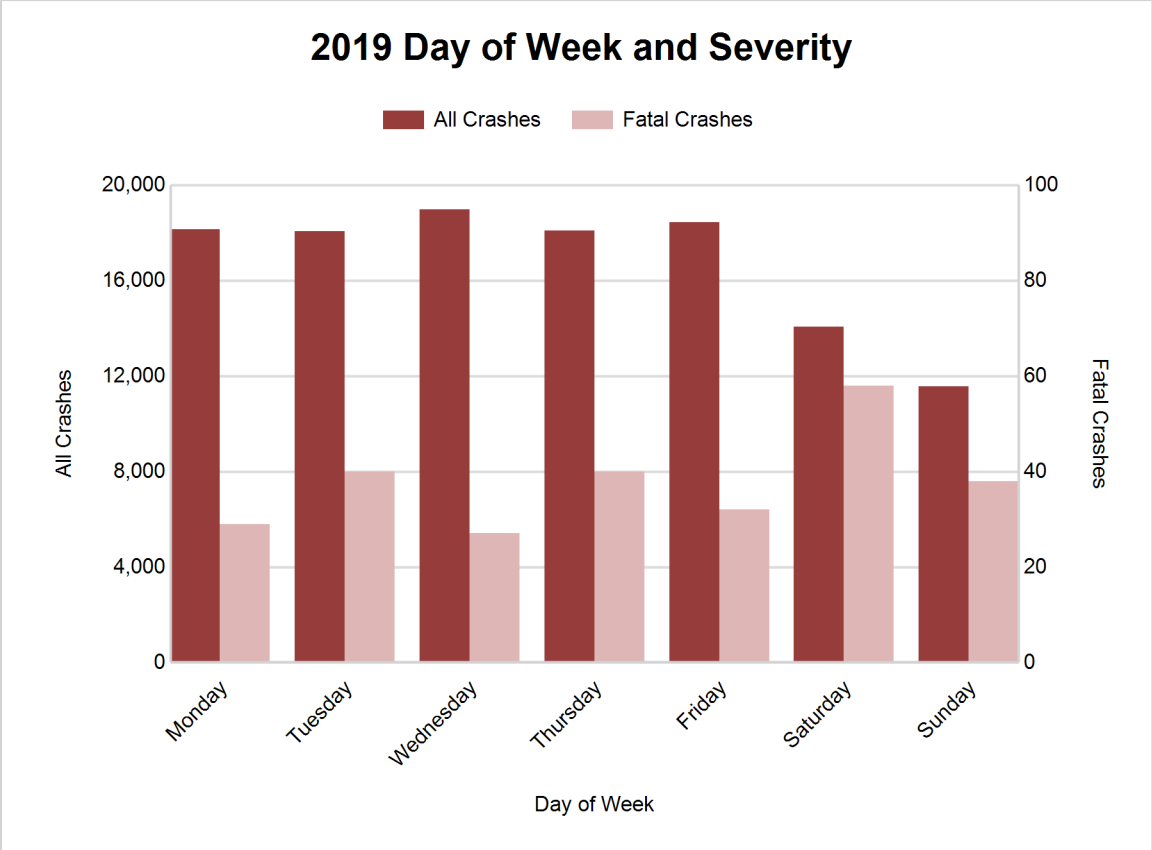
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred on the same day of the week



MDOT Region - Metro (continued)

2019 - Crashes by Day of Week

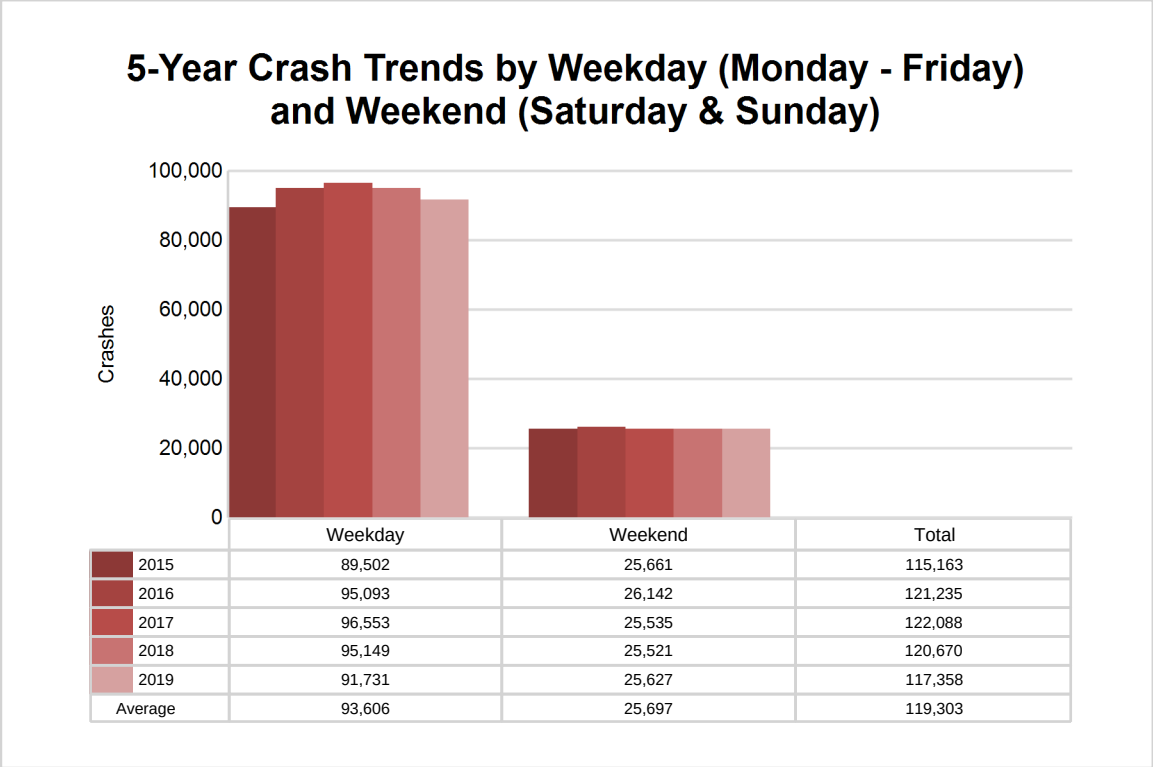
Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Monday	18,155	15.5	29	11.0	187	966	2,414	14,559
Tuesday	18,061	15.4	40	15.2	187	1,018	2,530	14,286
Wednesday	18,976	16.2	27	10.2	206	1,049	2,531	15,163
Thursday	18,097	15.4	40	15.2	204	1,059	2,465	14,329
Friday	18,442	15.7	32	12.1	202	1,090	2,450	14,668
Saturday	14,062	12.0	58	22.0	220	931	1,982	10,871
Sunday	11,565	9.9	38	14.4	196	764	1,632	8,935
Total	**117,358**	**100.0**	**264**	**100.0**	**1,402**	**6,877**	**16,004**	**92,811**



MDOT Region - Metro (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	89,502	198	95,093	204	96,553	179	95,149	176	91,731	168
Weekend	25,661	95	26,142	117	25,535	75	25,521	82	25,627	96
Total	**115,163**	**293**	**121,235**	**321**	**122,088**	**254**	**120,670**	**258**	**117,358**	**264**

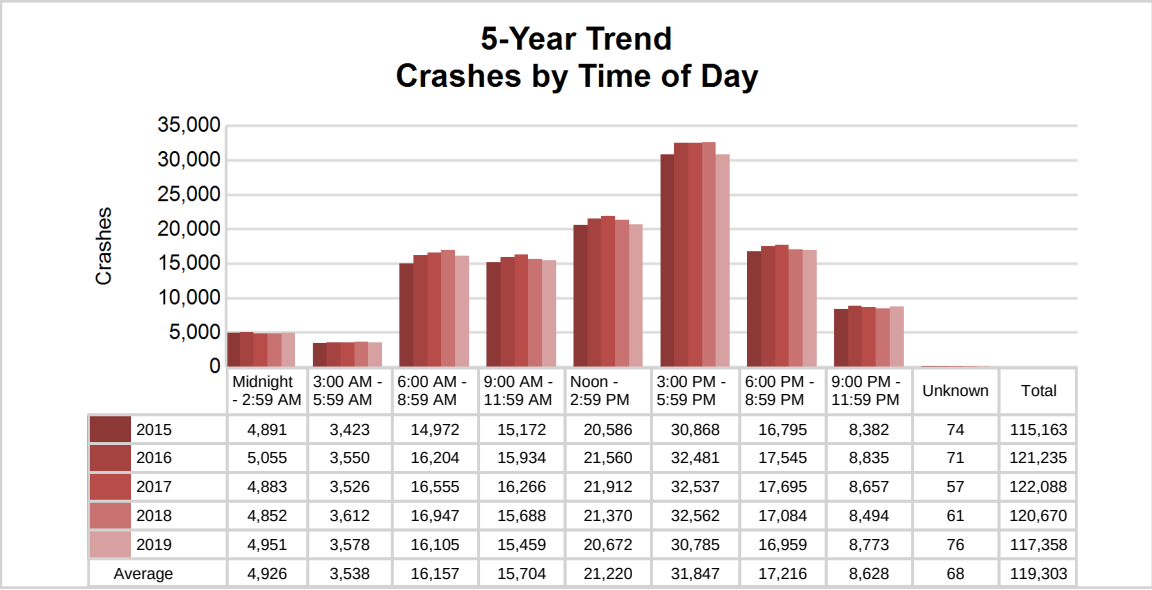


MDOT Region - Metro (continued)

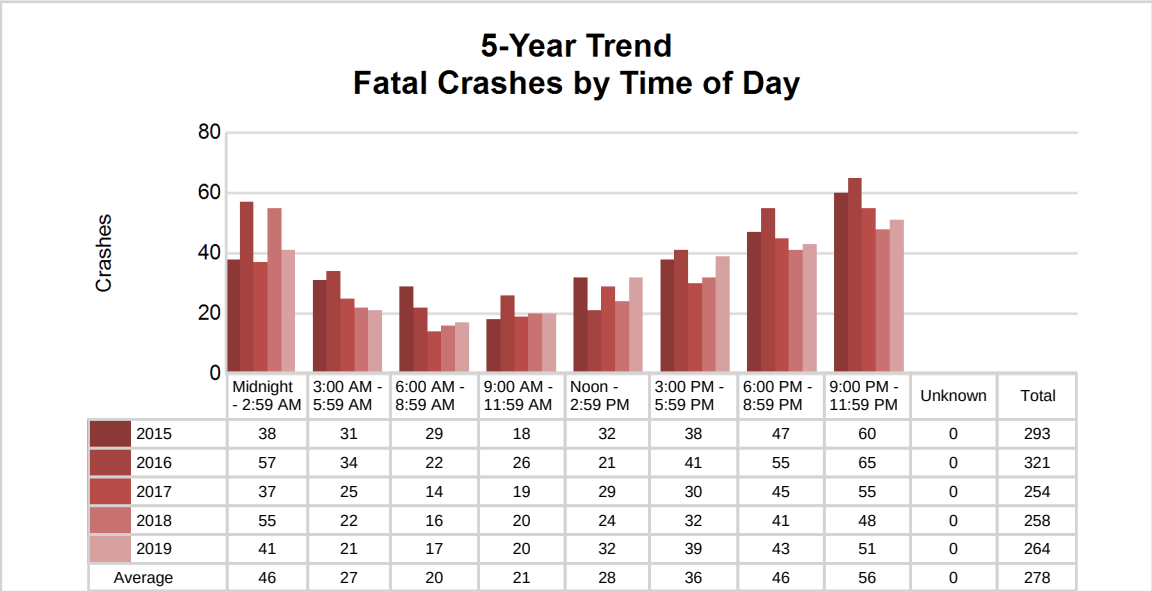
5-Year Trend - Crashes by Time of Day

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	4,891	38	5,055	57	4,883	37	4,852	55	4,951	41
3:00 AM - 5:59 AM	3,423	31	3,550	34	3,526	25	3,612	22	3,578	21
6:00 AM - 8:59 AM	14,972	29	16,204	22	16,555	14	16,947	16	16,105	17
9:00 AM - 11:59 AM	15,172	18	15,934	26	16,266	19	15,688	20	15,459	20
Noon - 2:59 PM	20,586	32	21,560	21	21,912	29	21,370	24	20,672	32
3:00 PM - 5:59 PM	30,868 †	38	32,481 †	41	32,537 †	30	32,562 †	32	30,785 †	39
6:00 PM - 8:59 PM	16,795	47	17,545	55	17,695	45	17,084	41	16,959	43
9:00 PM - 11:59 PM	8,382	60	8,835	65	8,657	55	8,494	48	8,773	51
Unknown	74	0	71	0	57	0	61	0	76	0
Total	**115,163**	**293**	**121,235**	**321**	**122,088**	**254**	**120,670**	**258**	**117,358**	**264**

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	4,891	3,423	14,972	15,172	20,586	30,868	16,795	8,382	74	115,163
2016	5,055	3,550	16,204	15,934	21,560	32,481	17,545	8,835	71	121,235
2017	4,883	3,526	16,555	16,266	21,912	32,537	17,695	8,657	57	122,088
2018	4,852	3,612	16,947	15,688	21,370	32,562	17,084	8,494	61	120,670
2019	4,951	3,578	16,105	15,459	20,672	30,785	16,959	8,773	76	117,358
Average	4,926	3,538	16,157	15,704	21,220	31,847	17,216	8,628	68	119,303

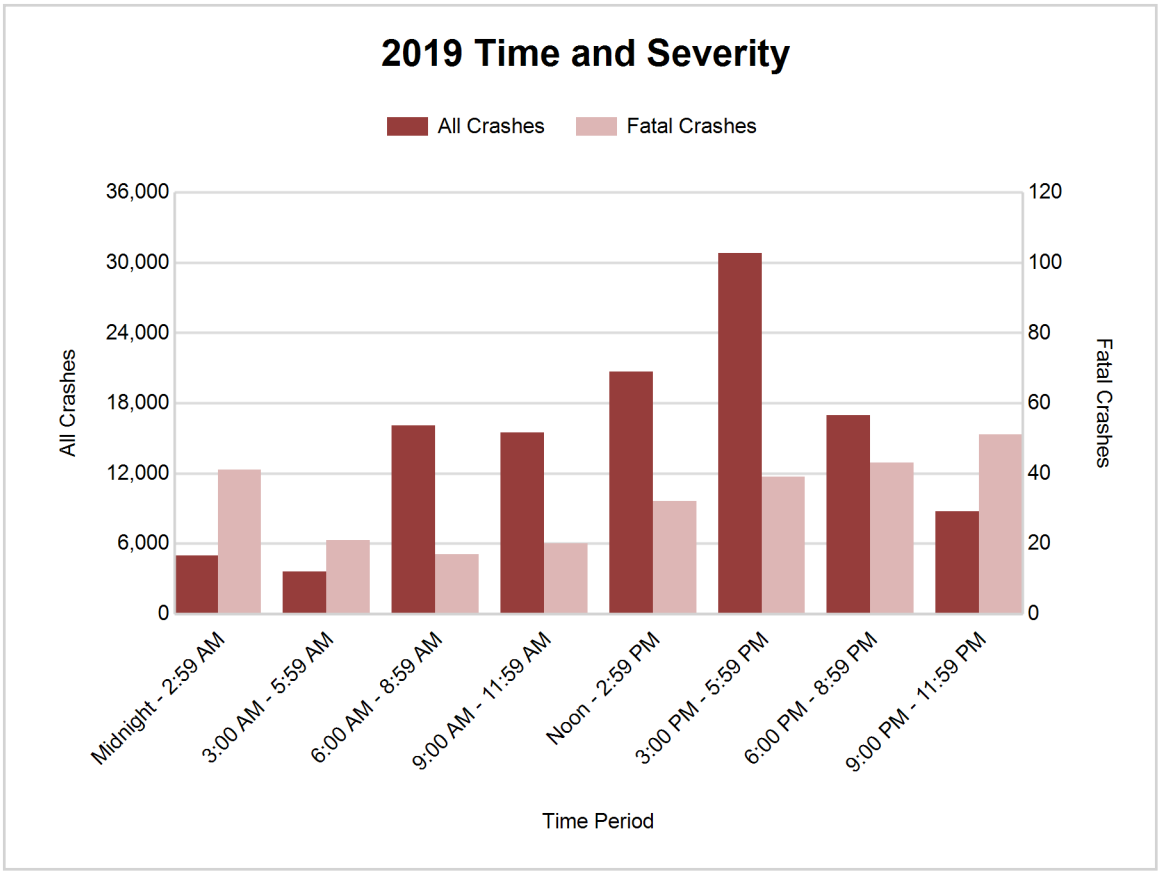


	Midnight - 2:59 AM	3:00 AM - 5:59 AM	6:00 AM - 8:59 AM	9:00 AM - 11:59 AM	Noon - 2:59 PM	3:00 PM - 5:59 PM	6:00 PM - 8:59 PM	9:00 PM - 11:59 PM	Unknown	Total
2015	38	31	29	18	32	38	47	60	0	293
2016	57	34	22	26	21	41	55	65	0	321
2017	37	25	14	19	29	30	45	55	0	254
2018	55	22	16	20	24	32	41	48	0	258
2019	41	21	17	20	32	39	43	51	0	264
Average	46	27	20	21	28	36	46	56	0	278

MDOT Region - Metro (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	4,951	4.2	41	15.5	155	424	728	3,603
3:00 AM - 5:59 AM	3,578	3.0	21	8.0	83	233	465	2,776
6:00 AM - 8:59 AM	16,105	13.7	17	6.4	134	779	1,949	13,226
9:00 AM - 11:59 AM	15,459	13.2	20	7.6	122	886	2,075	12,356
Noon - 2:59 PM	20,672	17.6	32	12.1	194	1,166	2,910	16,370
3:00 PM - 5:59 PM	30,785	26.2	39	14.8	285	1,660	4,226	24,575
6:00 PM - 8:59 PM	16,959	14.5	43	16.3	212	1,046	2,364	13,294
9:00 PM - 11:59 PM	8,773	7.5	51	19.3	216	679	1,281	6,546
Unknown	76	0.1	0	0.0	1	4	6	65
Total	**117,358**	**100.0**	**264**	**100.0**	**1,402**	**6,877**	**16,004**	**92,811**

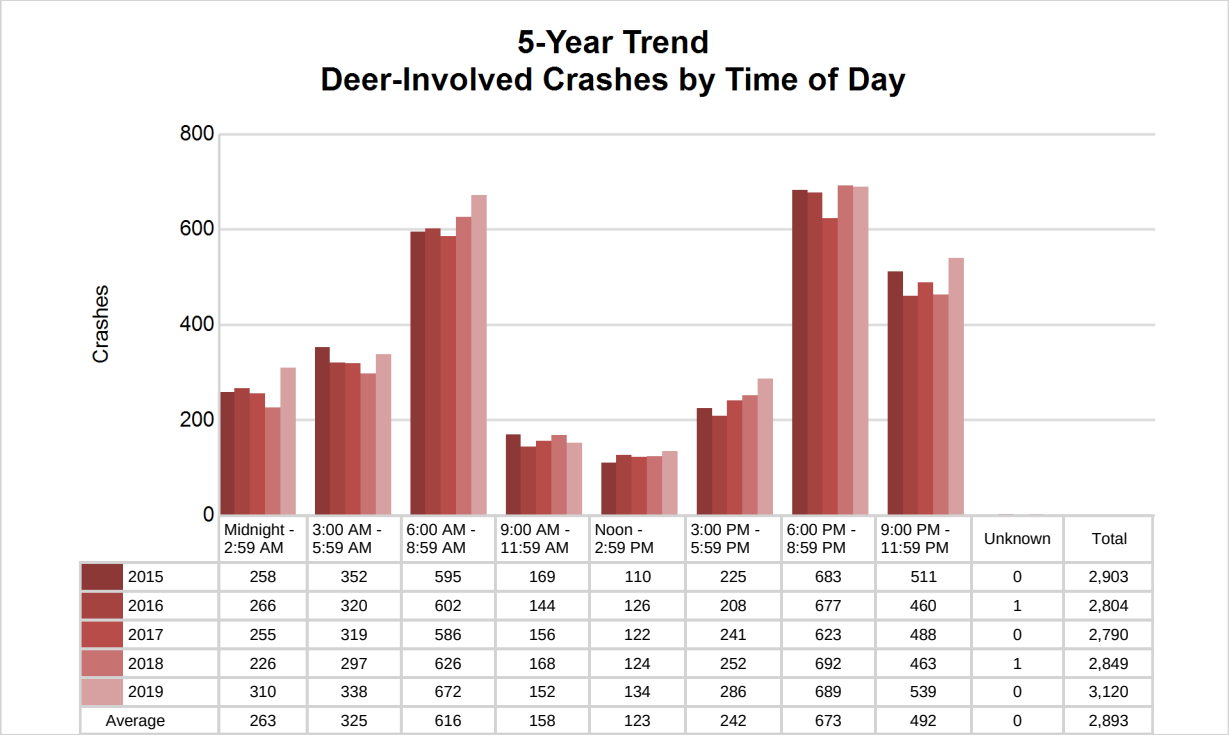


MDOT Region - Metro (continued)

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

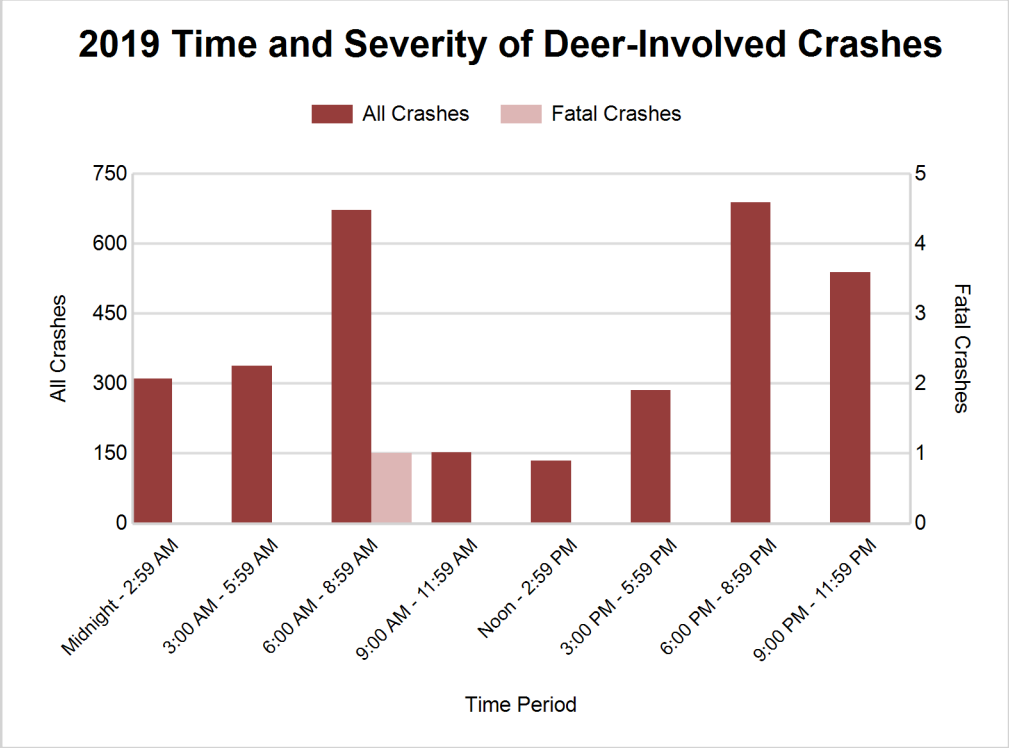
Time of Day	2015		2016		2017		2018		2019	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	258	0	266	0	255	1	226	0	310	0
3:00 AM - 5:59 AM	352	0	320	0	319	0	297	0	338	0
6:00 AM - 8:59 AM	595	0	602	0	586	0	626	0	672	1
9:00 AM - 11:59 AM	169	0	144	0	156	0	168	0	152	0
Noon - 2:59 PM	110	0	126	0	122	0	124	0	134	0
3:00 PM - 5:59 PM	225	0	208	0	241	0	252	0	286	0
6:00 PM - 8:59 PM	683 †	0	677 †	0	623 †	0	692 †	0	689 †	0
9:00 PM - 11:59 PM	511	0	460	0	488	0	463	0	539	0
Unknown	0	0	1	0	0	0	1	0	0	0
Total	**2,903**	**0**	**2,804**	**0**	**2,790**	**1**	**2,849**	**0**	**3,120**	**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	258	352	595	169	110	225	683	511	0	2,903
2016	266	320	602	144	126	208	677	460	1	2,804
2017	255	319	586	156	122	241	623	488	0	2,790
2018	226	297	626	168	124	252	692	463	1	2,849
2019	310	338	672	152	134	286	689	539	0	3,120
Average	263	325	616	158	123	242	673	492	0	2,893

MDOT Region - Metro (continued)



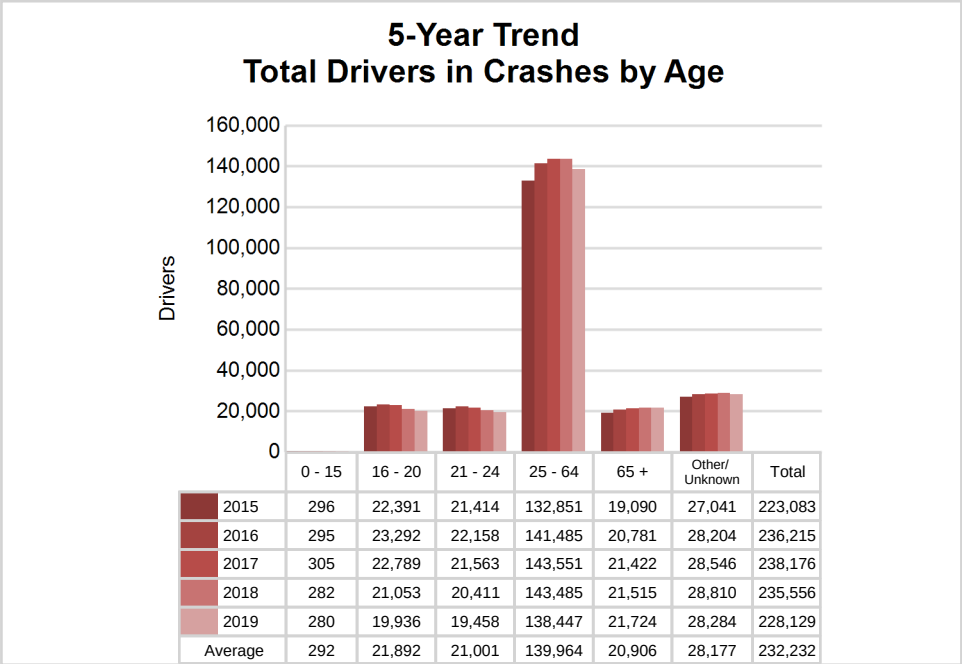
2019 - Reported Motor Vehicle Crashes by County

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
Oakland	40,394	63	7,375	32,956	6,712	2,301	6,910	24,393	979	241	1,928	68	9,916
Wayne	53,035	151	12,019	40,865	8,552	3,367	9,706	31,317	1,484	402	513	166	16,956
Total	**117,358**	**264**	**24,283**	**92,811**	**17,887**	**5,668**	**23,161**	**70,438**	**3,150**	**844**	**3,120**	**287**	**33,591**

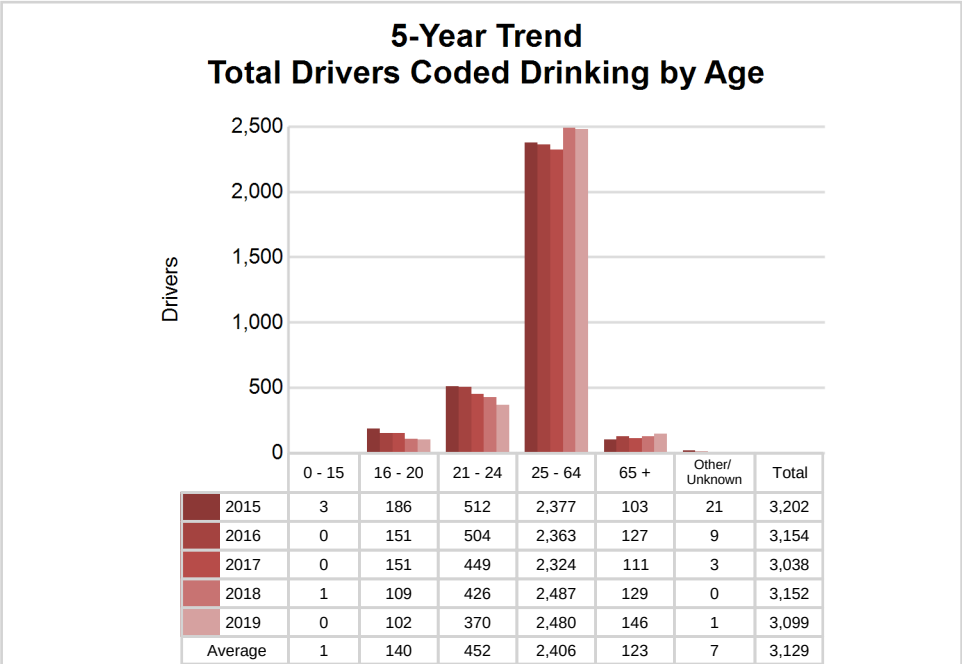
MDOT Region - Metro (continued)

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	296	3	295	0	305	0	282	1	280	0
16 - 20	22,391	186	23,292	151	22,789	151	21,053	109	19,936	102
21 - 24	21,414	512	22,158	504	21,563	449	20,411	426	19,458	370
25 - 64	132,851	2,377	141,485	2,363	143,551	2,324	143,485	2,487	138,447	2,480
65 +	19,090	103	20,781	127	21,422	111	21,515	129	21,724	146
Unknown	27,041	21	28,204	9	28,546	3	28,810	0	28,284	1
Total	**223,083**	**3,202**	**236,215**	**3,154**	**238,176**	**3,038**	**235,556**	**3,152**	**228,129**	**3,099**



	0 - 15	16 - 20	21 - 24	25 - 64	65 +	Other/ Unknown	Total
2015	296	22,391	21,414	132,851	19,090	27,041	223,083
2016	295	23,292	22,158	141,485	20,781	28,204	236,215
2017	305	22,789	21,563	143,551	21,422	28,546	238,176
2018	282	21,053	20,411	143,485	21,515	28,810	235,556
2019	280	19,936	19,458	138,447	21,724	28,284	228,129
Average	292	21,892	21,001	139,964	20,906	28,177	232,232

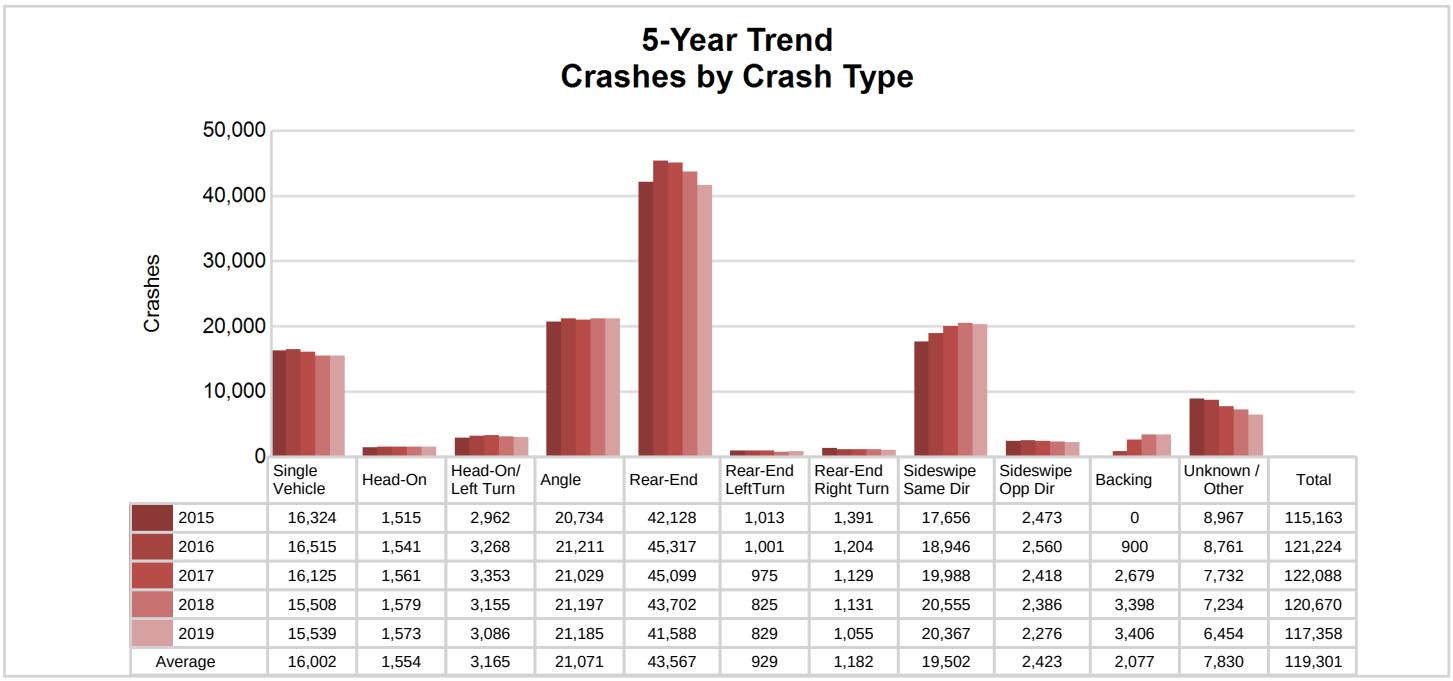


	0 - 15	16 - 20	21 - 24	25 - 64	65 +	Other/ Unknown	Total
2015	3	186	512	2,377	103	21	3,202
2016	0	151	504	2,363	127	9	3,154
2017	0	151	449	2,324	111	3	3,038
2018	1	109	426	2,487	129	0	3,152
2019	0	102	370	2,480	146	1	3,099
Average	1	140	452	2,406	123	7	3,129

MDOT Region - Metro (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	16,324	141	16,515	165	16,125	106	15,508	125	15,539	130
Head-on	1,515	20	1,541	24	1,561	33	1,579	19	1,573	19
Head-on / left turn	2,962	15	3,268	20	3,353	6	3,155	7	3,086	14
Angle	20,734	42	21,211	51	21,029	44	21,197	37	21,185	56
Rear-end	42,128	29	45,317	37	45,099	25	43,702	26	41,588	16
Rear-end left turn	1,013	1	1,001	1	975	0	825	0	829	0
Rear-end right turn	1,391	0	1,204	0	1,129	0	1,131	0	1,055	0
Sideswipe same direction	17,656	12	18,946	6	19,988	9	20,555	8	20,367	7
Sideswipe opposite direction	2,473	2	2,560	6	2,418	3	2,386	4	2,276	2
Backing	0	0	900	0	2,679	0	3,398	0	3,406	0
Other / Unknown	8,967	31	8,761	11	7,732	28	7,234	32	6,454	20
Uncoded and Errors	0	0	11	0	0	0	0	0	0	0
Total	**115,163**	**293**	**121,235**	**321**	**122,088**	**254**	**120,670**	**258**	**117,358**	**264**



	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	16,324	1,515	2,962	20,734	42,128	1,013	1,391	17,656	2,473	0	8,967	115,163
2016	16,515	1,541	3,268	21,211	45,317	1,001	1,204	18,946	2,560	900	8,761	121,224
2017	16,125	1,561	3,353	21,029	45,099	975	1,129	19,988	2,418	2,679	7,732	122,088
2018	15,508	1,579	3,155	21,197	43,702	825	1,131	20,555	2,386	3,398	7,234	120,670
2019	15,539	1,573	3,086	21,185	41,588	829	1,055	20,367	2,276	3,406	6,454	117,358
Average	16,002	1,554	3,165	21,071	43,567	929	1,182	19,502	2,423	2,077	7,830	119,301

MDOT Region - Metro (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	3	2	0	0	0	0	0	0	0
16 - 20	229	132	93	102	0	11	39	22	30
21 - 24	515	384	332	370	0	25	111	123	111
25 - 64	3,744	2,524	2,160	2,480	0	145	620	884	831
65 +	282	171	132	146	0	17	41	37	51
Unknown	673	4	0	1	0	0	0	0	1
Total	**5,446**	**3,217**	**2,717**	**3,099**	**0**	**198**	**811**	**1,066**	**1,024**

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

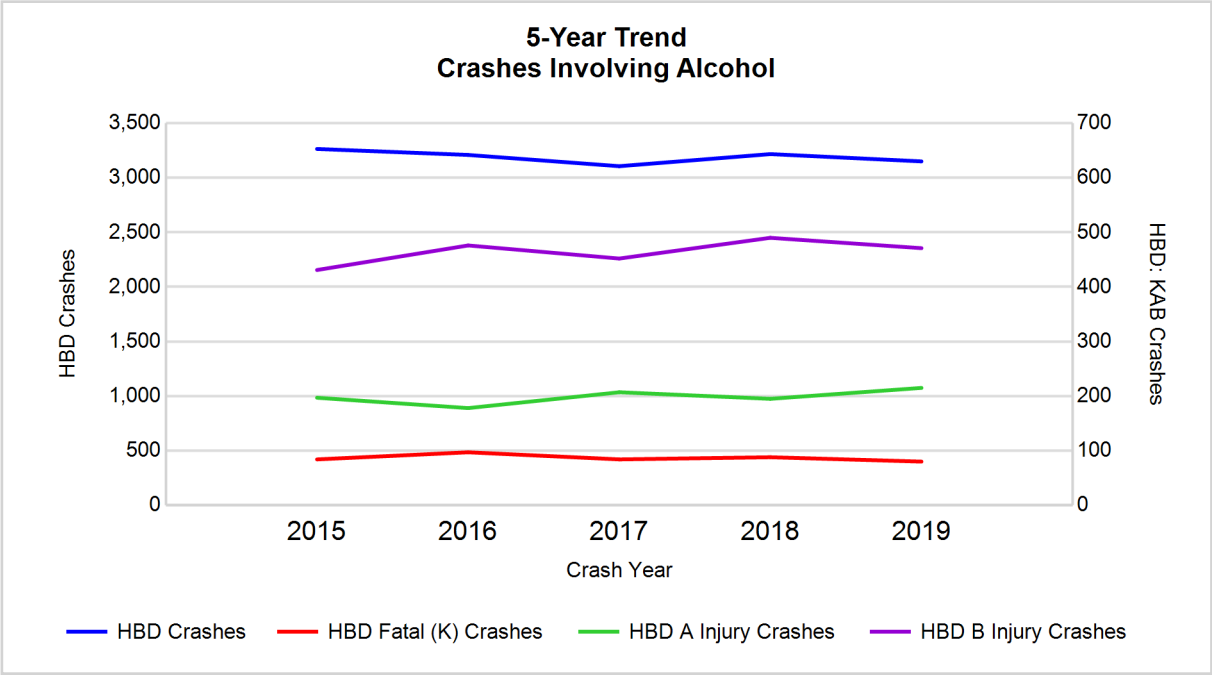
In 2019, there were 5,446 drivers in alcohol-involved crashes; 3,099 (56.9%) of those drivers were coded as had-been-drinking by the officer on the crash form.

- 1,877 (60.6%) of the 3,099 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 1,066 (56.8%) of the 1,877 drivers had a BAC at or above 0.17 g/dL.
- 2,717 (87.7%) of the 3,099 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	115,163	3,264	2.8	293	84	28.7	1,301	197	15.1	5,549	431	7.8
2016	121,235	3,209	2.6	321	97	30.2	1,360	178	13.1	6,400	476	7.4
2017	122,088	3,106	2.5	254	84	33.1	1,544	207	13.4	7,008	452	6.4
2018	120,670	3,217	2.7	258	88	34.1	1,428	195	13.7	6,861	490	7.1
2019	117,358	3,150	2.7	264	80*	30.3	1,402	215**	15.3**	6,877	471	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



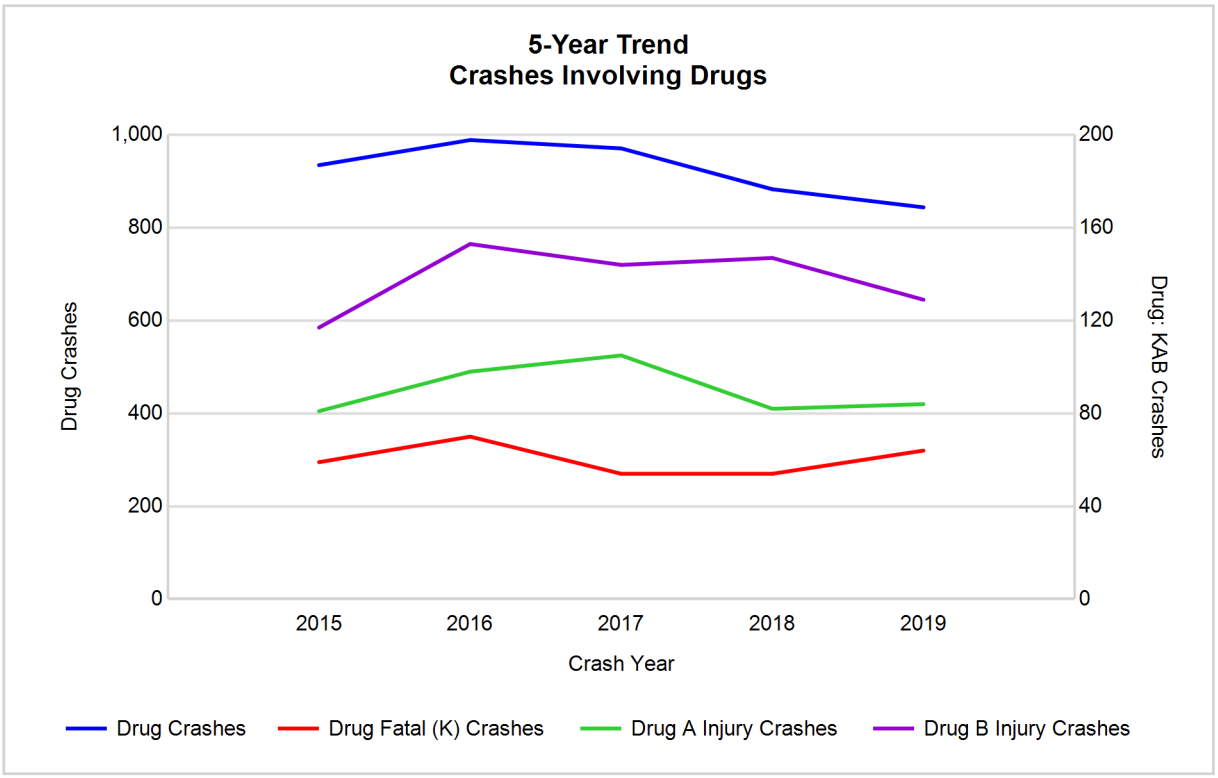
Note: Had-Been-Drinking (HBD)

MDOT Region - Metro (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	115,163	935	0.8	293	59	20.1	1,301	81	6.2	5,549	117	2.1
2016	121,235	989	0.8	321	70	21.8	1,360	98	7.2	6,400	153	2.4
2017	122,088	971	0.8	254	54	21.3	1,544	105	6.8	7,008	144	2.1
2018	120,670	883	0.7	258	54	20.9	1,428	82	5.7	6,861	147	2.1
2019	117,358	844*	0.7	264	64	24.2**	1,402	84	6.0	6,877	129	1.9*

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

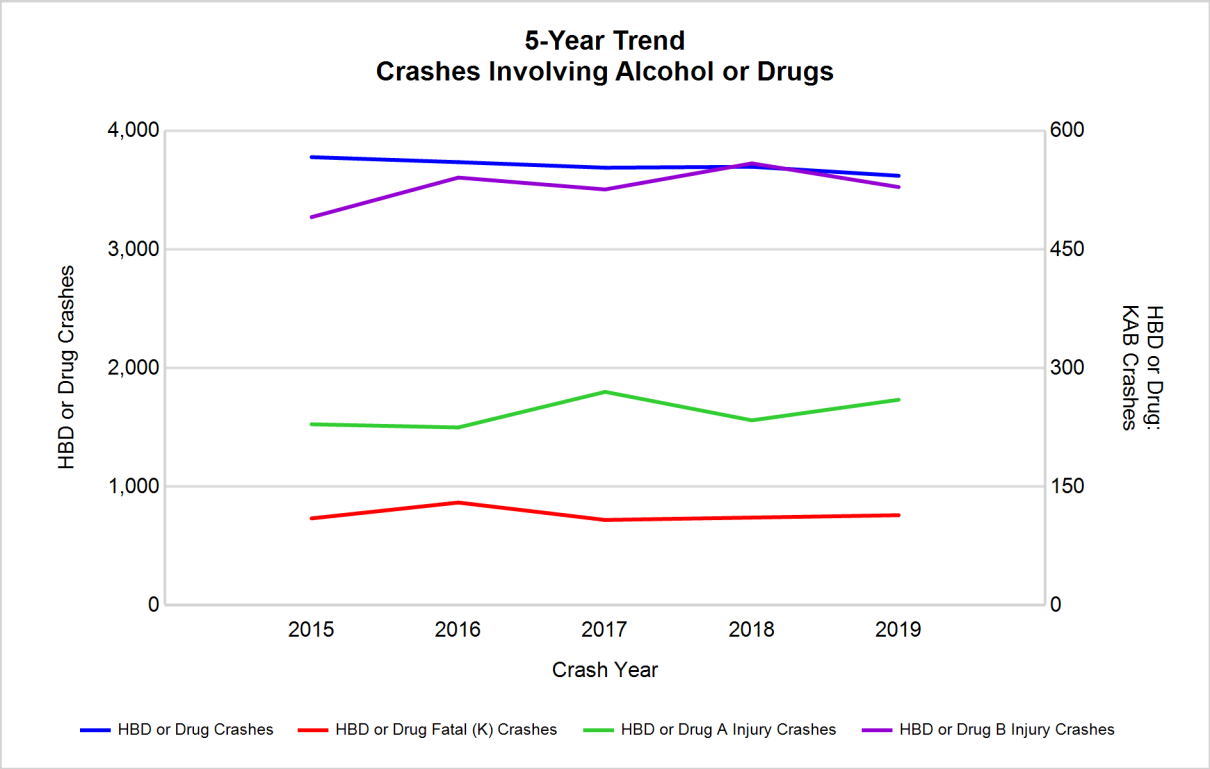


MDOT Region - Metro (continued)

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	115,163	3,779	3.3	293	110	37.5	1,301	229	17.6	5,549	491	8.8
2016	121,235	3,737	3.1	321	130	40.5	1,360	225	16.5	6,400	541	8.5
2017	122,088	3,690	3.0	254	108	42.5	1,544	270	17.5	7,008	526	7.5
2018	120,670	3,698	3.1	258	111	43.0	1,428	234	16.4	6,861	559	8.1
2019	117,358	3,622*	3.1	264	114	43.2**	1,402	260	18.5**	6,877	529	7.7

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)

MDOT Region - Metro (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	200,175	166,939	83.4	156	60	38.5	1,100	740	67.3	6,893	6,086	88.3	21,148	18,908	89.4	151,167	141,143	93.4
Motor home	410	330	80.5	0	0	0.0	0	0	0.0	14	14	100.0	36	33	91.7	329	283	86.0
Pickup truck	18,747	15,986	85.3	5	4	80.0	56	41	73.2	437	393	89.9	1,190	1,101	92.5	15,094	14,447	95.7
Small truck under 10,000 lbs. GVWR	994	782	78.7	0	0	0.0	0	0	0.0	12	10	83.3	49	41	83.7	800	731	91.4
Motorcycle	960	574	59.8	38	20	52.6	184	93	50.5	314	201	64.0	176	120	68.2	207	140	67.6
Moped / goped	123	30	24.4	5	1	20.0	22	5	22.7	37	12	32.4	23	5	21.7	21	7	33.3
Go-cart / golf cart	17	1	5.9	0	0	0.0	2	1	50.0	2	0	0.0	2	0	0.0	6	0	0.0
Snowmobile	3	3	100.0	1	1	100.0	1	1	100.0	0	0	0.0	0	0	0.0	1	1	100.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	35	4	11.4	1	0	0.0	6	0	0.0	6	1	16.7	6	1	16.7	14	2	14.3
Other	769	397	51.6	1	0	0.0	7	1	14.3	15	5	33.3	35	24	68.6	501	367	73.3
Truck/bus over 10,000 lbs.	6,961	5,965	85.7	4	2	50.0	14	7	50.0	83	60	72.3	321	171	53.3	6,122	5,725	93.5
Unknown	6,853	3	0.0	0	0	0.0	0	0	0.0	1	0	0.0	3	3	100.0	46	0	0.0
Total	**236,047**	**191,014**	**80.9**	**211**	**88**	**41.7**	**1,392**	**889**	**63.9**	**7,814**	**6,782**	**86.8**	**22,989**	**20,407**	**88.8**	**174,308**	**162,846**	**93.4**

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.

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	2,226	1,906	85.6	11	4	36.4	43	18	41.9	310	248	80.0	1,616	1,418	87.7	242	218	90.1
16 - 20	20,977	19,479	92.9	16	6	37.5	118	63	53.4	855	727	85.0	2,166	1,885	87.0	17,707	16,798	94.9
21 - 24	20,201	18,364	90.9	20	7	35.0	163	93	57.1	841	694	82.5	2,213	1,905	86.1	16,798	15,665	93.3
25 - 64	141,906	130,146	91.7	119	42	35.3	903	577	63.9	4,872	4,234	86.9	14,534	12,908	88.8	120,180	112,384	93.5
65 +	22,449	21,109	94.0	45	29	64.4	164	138	84.1	936	879	93.9	2,438	2,289	93.9	18,740	17,774	94.8
Unknown	28,288	10	0.0	0	0	0.0	1	0	0.0	0	0	0.0	22	2	9.1	641	7	1.1
Total	**236,047**	**191,014**	**80.9**	**211**	**88**	**41.7**	**1,392**	**889**	**63.9**	**7,814**	**6,782**	**86.8**	**22,989**	**20,407**	**88.8**	**174,308**	**162,846**	**93.4**

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.

MDOT Region - Metro (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	584	2	87	340	0	52	241	1	39	176	0	32	227	0	37
Shoulder belt only used	313	0	34	750	1	100	883	1	113	616	0	99	678	2	112
Lap belt only used	411	0	50	281	0	32	248	1	25	188	0	27	194	0	34
Both lap & shoulder belts used	184,428	62	21,242	195,277	57	22,816	194,373	55	22,549	190,964	56	21,769	183,257	45	21,262
No belts used	1,216	36	422	1,181	42	438	971	28	422	891	30	373	914	39	390
Child restraint used	10	0	1	12	0	1	9	0	1	1	0	0	2	0	0
Child restraint not used, unavailable or improper use	11	0	2	3	0	0	0	0	0	0	0	0	0	0	0
Restraint failure	38	0	4	36	0	8	33	0	9	24	0	5	26	0	4
Restraint use unknown	21,834	20	1,257	29,419	37	1,162	34,895	34	1,436	36,740	28	1,687	36,969	31	1,775
Helmet worn	678	28	476	725	24	512	666	15	477	569	16	414	575	20	405
Helmet not worn	329	13	242	487	17	282	310	16	230	332	20	253	349	17	267
Helmet use unknown	120	3	43	98	6	36	78	5	46	87	3	55	75	4	45
Uncoded & errors	13,111	0	17	7,606	0	16	5,469	0	0	4,968	0	0	4,863	0	0
Total	**223,083**	**164**	**23,877**	**236,215**	**184**	**25,455**	**238,176**	**156**	**25,347**	**235,556**	**153**	**24,714**	**228,129**	**158**	**24,331**

5-Year Trend - Restraint Use Among Drivers Coded Drinking

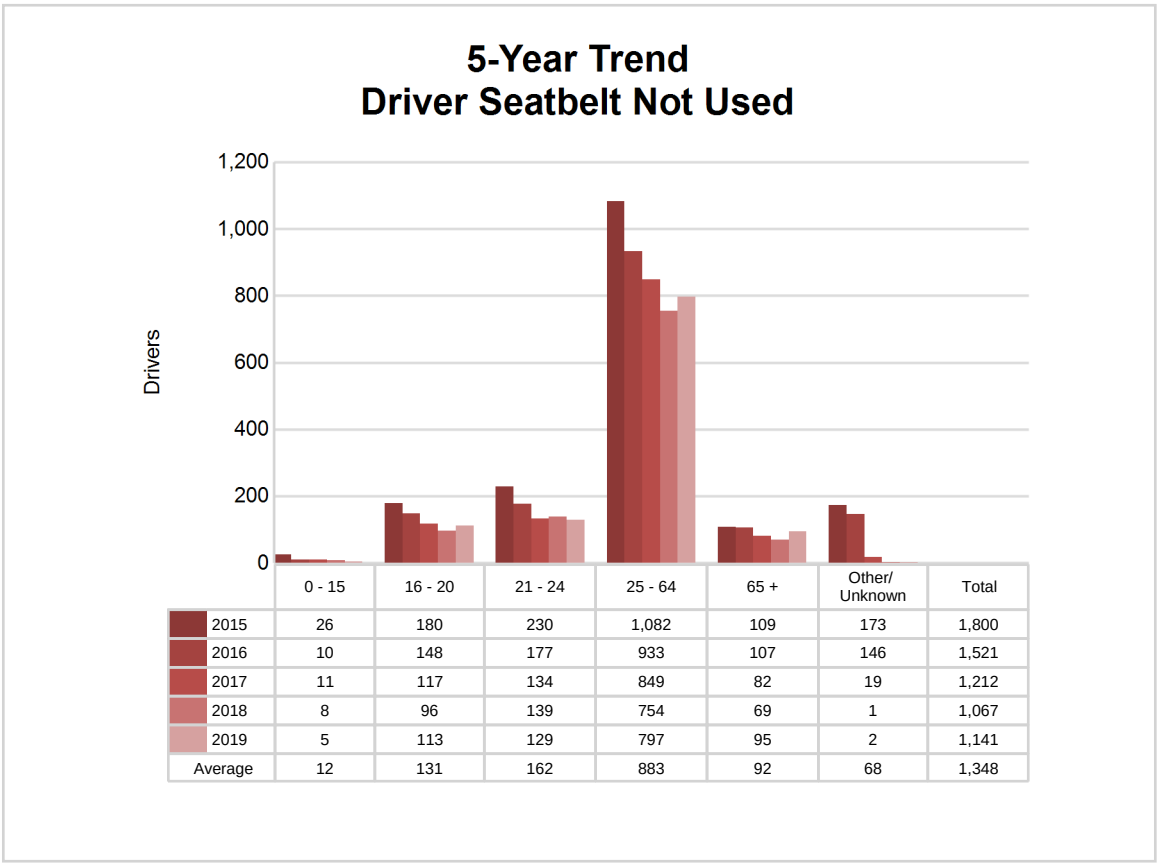
Restraint Use	2015			2016			2017			2018			2019		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	12	0	4	9	0	4	4	0	0	8	0	3	2	0	2
Shoulder belt only used	7	0	2	15	0	3	7	0	2	5	0	1	9	0	3
Lap belt only used	5	0	2	2	0	1	1	0	0	3	0	1	3	0	2
Both lap & shoulder belts used	2,434	8	529	2,410	6	600	2,318	13	552	2,393	5	588	2,303	7	583
No belts used	170	13	98	172	18	94	120	9	71	133	9	84	146	14	82
Child restraint used	0	0	0	0	0	0	1	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	517	7	146	486	11	123	537	10	155	555	16	168	568	9	174
Helmet worn	24	1	19	21	2	18	16	1	14	16	3	11	16	8	6
Helmet not worn	29	6	19	35	5	27	28	3	24	36	7	25	48	7	39
Helmet use unknown	1	0	0	2	1	1	4	0	2	3	0	2	4	0	3
Uncoded & errors	3	0	0	2	0	0	2	0	0	0	0	0	0	0	0
Total	**3,202**	**35**	**819**	**3,154**	**43**	**871**	**3,038**	**36**	**820**	**3,152**	**40**	**883**	**3,099**	**45**	**894**

MDOT Region - Metro (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	26	0	5	10	0	1	11	0	2	8	0	4	5	0	0
16 - 20	180	3	74	148	2	71	117	5	52	96	4	44	113	1	51
21 - 24	230	6	81	177	6	79	134	5	58	139	3	63	129	6	57
25 - 64	1,082	25	313	933	28	310	849	14	326	754	20	278	797	22	291
65 +	109	4	32	107	6	27	82	5	23	69	3	16	95	10	28
Unknown	173	0	4	146	0	2	19	0	0	1	0	0	2	0	0
Total	**1,800**	**38**	**509**	**1,521**	**42**	**490**	**1,212**	**29**	**461**	**1,067**	**30**	**405**	**1,141**	**39**	**427**

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

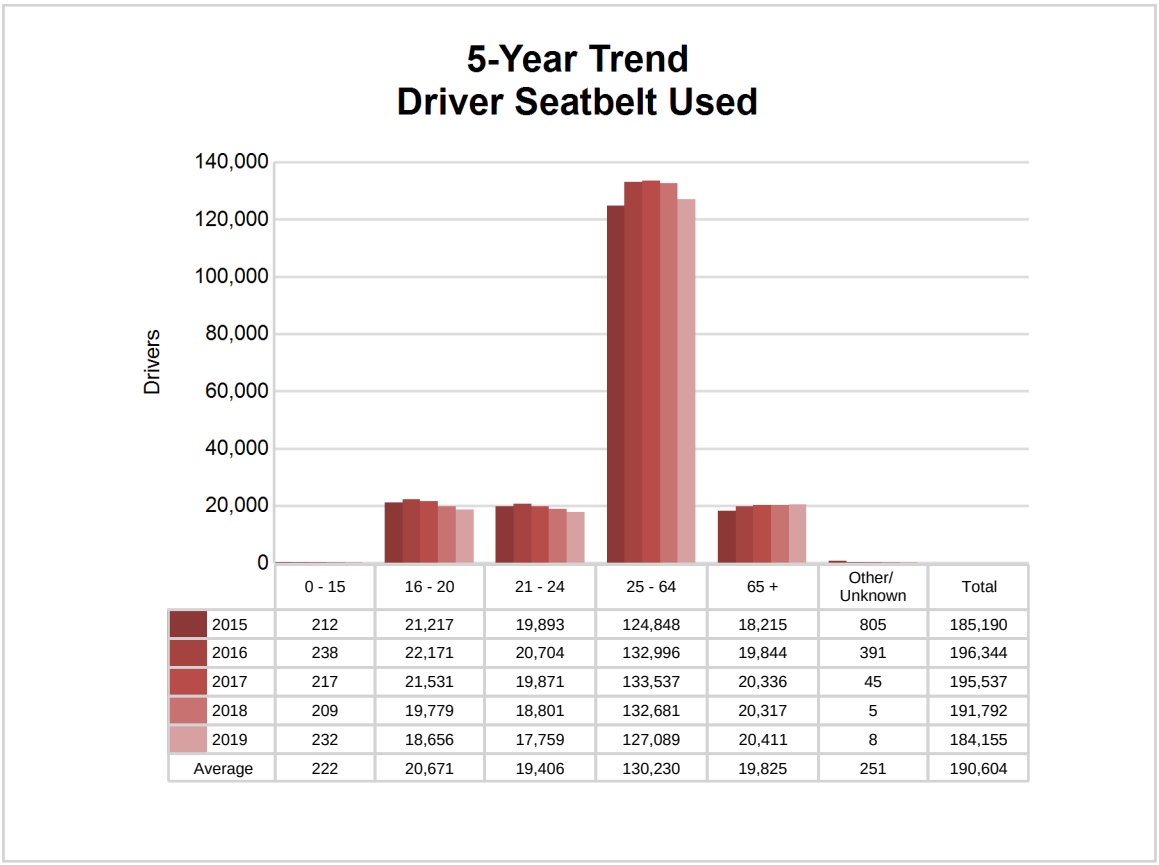


MDOT Region - Metro (continued)

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	212	0	23	238	1	16	217	0	17	209	0	19	232	0	16
16 - 20	21,217	6	2,148	22,171	3	2,276	21,531	5	2,201	19,779	2	2,038	18,656	3	1,862
21 - 24	19,893	6	2,226	20,704	4	2,456	19,871	4	2,320	18,801	4	2,174	17,759	5	2,107
25 - 64	124,848	32	14,505	132,996	32	15,562	133,537	35	15,517	132,681	31	15,018	127,089	23	14,800
65 +	18,215	18	2,421	19,844	18	2,640	20,336	13	2,638	20,317	19	2,650	20,411	16	2,627
Unknown	805	0	7	391	0	6	45	0	3	5	0	1	8	0	0
Total	**185,190**	**62**	**21,330**	**196,344**	**58**	**22,956**	**195,537**	**57**	**22,696**	**191,792**	**56**	**21,900**	**184,155**	**47**	**21,412**

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



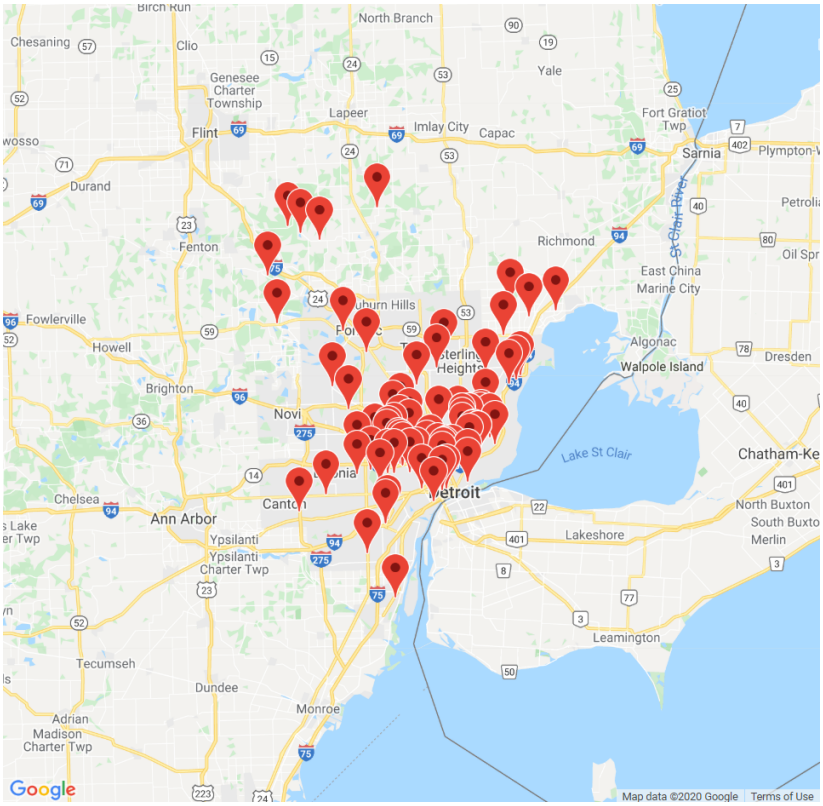
	0 - 15	16 - 20	21 - 24	25 - 64	65 +	Other/ Unknown	Total
2015	212	21,217	19,893	124,848	18,215	805	185,190
2016	238	22,171	20,704	132,996	19,844	391	196,344
2017	217	21,531	19,871	133,537	20,336	45	195,537
2018	209	19,779	18,801	132,681	20,317	5	191,792
2019	232	18,656	17,759	127,089	20,411	8	184,155
Average	222	20,671	19,406	130,230	19,825	251	190,604

MDOT Region - Metro (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	108,110	199	111,862	229	111,142	196	109,103	176	105,811	173
Speed too fast	7,679	41	7,823	59	7,535	41	7,405	47	7,342	46
Speed too slow	96	2	77	1	48	0	60	1	51	0
Failed to yield	19,453	27	20,369	23	20,748	17	21,148	21	20,760	25
Disregard traffic control	4,682	24	5,020	22	4,950	13	4,985	20	4,959	19
Drove wrong way	240	0	215	2	200	5	233	0	226	0
Drove left of center	929	10	970	19	956	16	889	16	885	16
Improper passing	1,142	2	1,178	4	1,286	3	1,365	2	1,462	1
Improper lane use	6,512	7	7,200	3	7,531	3	7,506	3	7,613	2
Improper turn	2,350	5	2,378	2	2,490	3	2,460	2	2,579	4
Improper/no signal	238	0	177	0	181	0	152	0	177	0
Improper backing	3,210	1	3,211	0	3,098	0	3,180	1	3,199	0
Unable to stop in assured clear distance	38,099	20	40,955	17	40,407	13	38,894	17	37,342	12
Other	7,722	31	7,849	31	7,618	26	7,804	26	7,447	32
Unknown	11,855	51	15,860	57	20,466	54	21,151	49	19,378	48
Reckless driving	1,157	26	1,212	27	1,020	28	958	26	906	29
Careless/negligent driving	5,141	31	5,229	26	4,187	20	3,980	22	3,784	14
Uncoded & errors	4,468	2	4,630	3	4,313	8	4,283	0	4,208	5
Total	**223,083**	**479**	**236,215**	**525**	**238,176**	**446**	**235,556**	**429**	**228,129**	**426**

MDOT Region - Metro (continued)



The picture above represents all 2019 alcohol-involved fatal crashes in MDOT Region - Metro.

In 2019, there were 3,150 alcohol-involved crashes in MDOT Region - Metro:

80	K - Fatal Crashes
215	A - Suspected Serious Injury Crashes
471	B - Suspected Minor Injury Crashes
561	C - Possible Injury Crashes
1,823	O - Property Damage Only/No Injury Crashes

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