



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

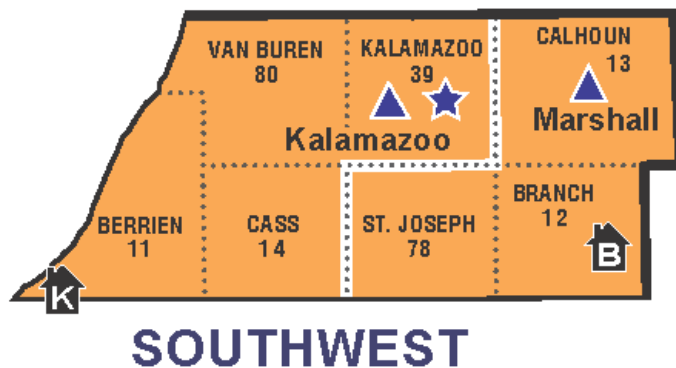
Property Damage Only (PDO)



MDOT Region - Southwest

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

Beginning October 2015, MDOT Region - Southwest is comprised of Berrien, Branch, Calhoun, Cass, Kalamazoo, St. Joseph, and Van Buren 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 - Southwest Experience

In 2019:

There were 39,165 drivers involved in 25,168 motor vehicle crashes in MDOT Region Southwest. Of those crashes, 98 were classified as fatal, resulting in 111 fatalities. An additional 5,318 persons were injured.

MDOT Region Southwest experienced the highest number of motor vehicle crashes (3,033) in November, the highest number of fatal crashes (12) in July and October, and the highest number of persons killed (14) in October.

Michigan driver statistics indicate 6.1 percent of licensed drivers in MDOT Region Southwest were age 16-20, and 10.6 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	2,909	10	372	2,527	12	507
February	2,069	9	279	1,781	11	368
March	1,807	8	254	1,545	8	345
April	1,584	4	275	1,305	4	375
May	1,864	8	337	1,519	8	495
June	1,855	5	333	1,517	7	462
July	1,956	12	381	1,563	12	533
August	1,659	8	358	1,293	11	489
September	1,752	9	326	1,417	10	442
October	2,464	12	361	2,091	14	517
November	3,033	6	335	2,692	6	419
December	2,216	7	269	1,940	8	366
Total	25,168	98	3,880	21,190	111	5,318

2019 - Driver Statistics

Age Group	MDOT Region - Southwest			Driver Rates	
	2019 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	153,558	3,712	72	4.7	194.0
16 - 20	53,506	34,195	4,162	777.9	1,217.1
21 - 24	48,893	34,430	3,696	755.9	1,073.5
25 - 64	387,489	355,626	24,098	621.9	677.6
65 +	141,125	128,106	4,404	312.1	343.8
Unknown	0	0	2,733	-	-
Total	784,571	556,069	39,165	499.2	704.3

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	31,087	79.4	104	68.0	5,314	25,669
Motor home	110	0.3	0	0.0	13	97
Pickup truck	4,599	11.7	23	15.0	731	3,845
Small truck under 10,000 lbs. GVWR	278	0.7	1	0.7	42	235
Motorcycle	258	0.7	8	5.2	200	50
Moped / goped	40	0.1	2	1.3	32	6
Go-cart / golf cart	2	0.0	0	0.0	0	2
Snowmobile	2	0.0	0	0.0	1	1
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	14	0.0	0	0.0	10	4
Other	150	0.4	0	0.0	17	133
Truck/bus over 10,000 lbs.	1,661	4.2	15	9.8	283	1,363
Unknown	964	2.5	0	0.0	72	892
Total	39,165	100.0	153	100.0	6,715	32,297

MDOT Region - Southwest (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	2,892	11	2,636	7	2,321	7	2,629	6	2,909	10
February	2,649	5	2,441	9	1,566	3	2,088	6	2,069	9
March	1,623	3	1,765	5	1,741	9	1,821	13	1,807	8
April	1,423	7	1,594	17	1,466	7	1,737	5	1,584	4
May	1,775	8	1,791	6	1,845	10	1,868	8	1,864	8
June	1,821	14	1,815	11	1,888	10	1,832	9	1,855	5
July	1,862	12	1,769	6	1,780	11	1,749	13	1,956	12
August	1,607	9	1,721	8	1,705	12	1,618	9	1,659	8
September	1,654	12	1,827	9	1,768	10	1,777	11	1,752	9
October	2,286	10	2,215	11	2,432	4	2,259	12	2,464	12
November	2,685	5	2,529	11	2,437	8	3,096	3	3,033	6
December	2,383	6	2,907	12	3,396	12	2,079	3	2,216	7
Total	24,660	102	25,010	112	24,345	103	24,553	98	25,168	98

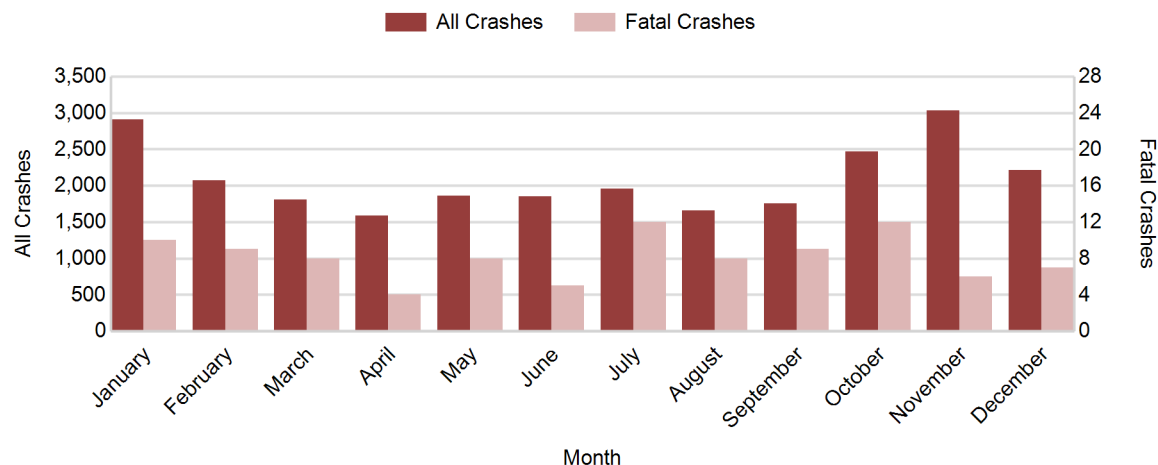
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

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	3,486	12	3,590	14	3,557	6	3,853	9	3,762	13
Tuesday	3,406	7	3,591	14	3,438	7	3,503	10	4,127	11
Wednesday	3,770	9	3,676	11	3,570	14	3,703	12	3,842	13
Thursday	3,594	15	3,868	16	3,655	19	3,587	15	3,508	12
Friday	4,069	17	4,140	19	4,004	22	4,237	17	4,028	18
Saturday	3,668	21	3,264	20	3,245	18	3,054	16	3,105	16
Sunday	2,667	21	2,881	18	2,876	17	2,616	19	2,796	15
Total	24,660	102	25,010	112	24,345	103	24,553	98	25,168	98

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

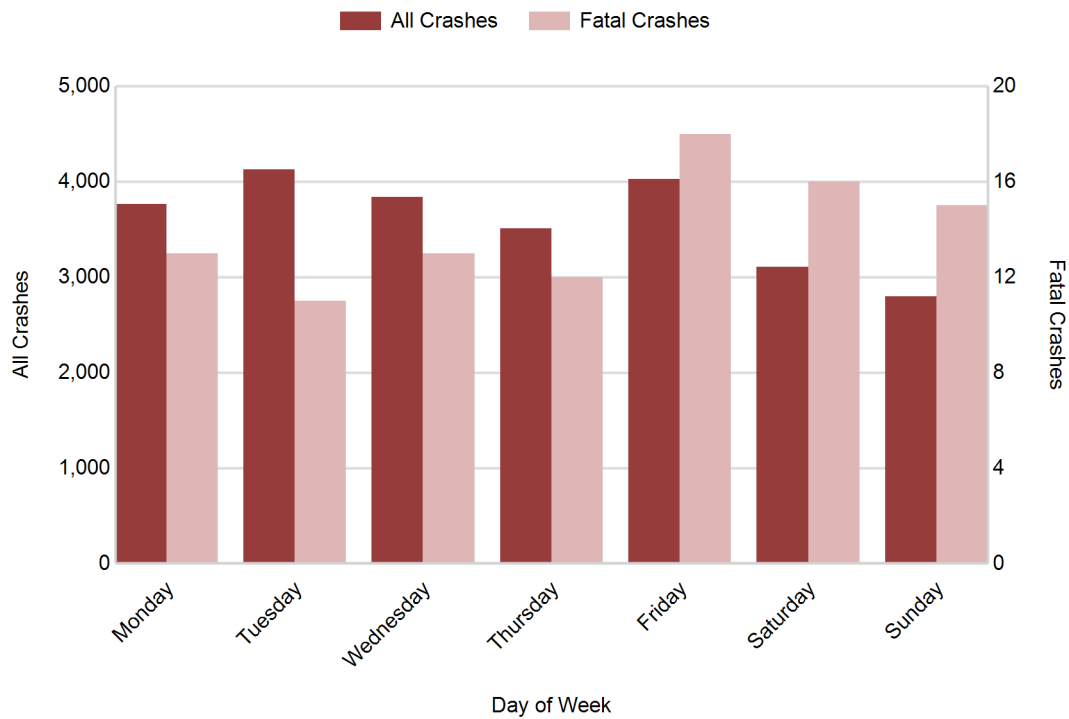
2019 Crashes by Month



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	3,762	14.9	13	13.3	52	165	345	3,187
Tuesday	4,127	16.4	11	11.2	67	159	357	3,533
Wednesday	3,842	15.3	13	13.3	75	156	323	3,275
Thursday	3,508	13.9	12	12.2	57	167	330	2,942
Friday	4,028	16.0	18	18.4	63	195	382	3,370
Saturday	3,105	12.3	16	16.3	80	166	272	2,571
Sunday	2,796	11.1	15	15.3	73	149	247	2,312
Total	25,168	100.0	98	100.0	467	1,157	2,256	21,190

2019 Day of Week and Severity

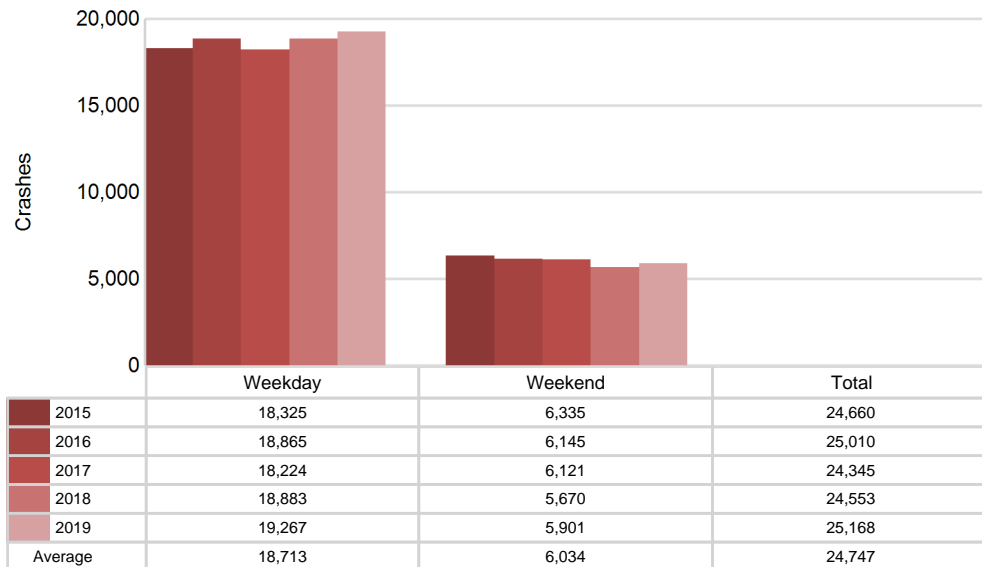


MDOT Region - Southwest (continued)

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	18,325	60	18,865	74	18,224	68	18,883	63	19,267	67
Weekend	6,335	42	6,145	38	6,121	35	5,670	35	5,901	31
Total	24,660	102	25,010	112	24,345	103	24,553	98	25,168	98

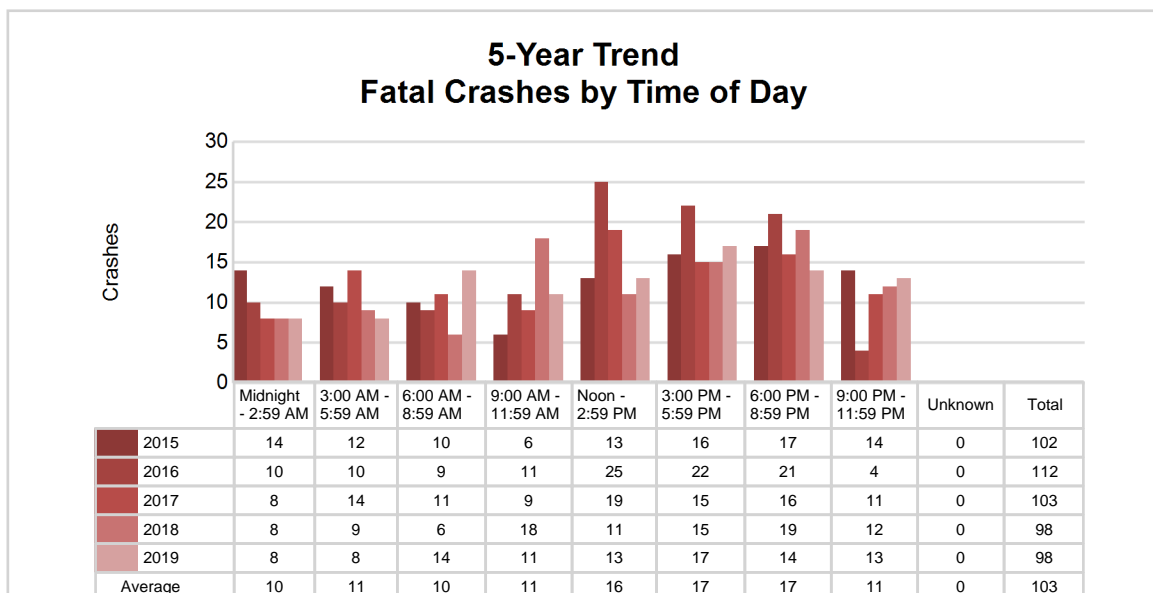
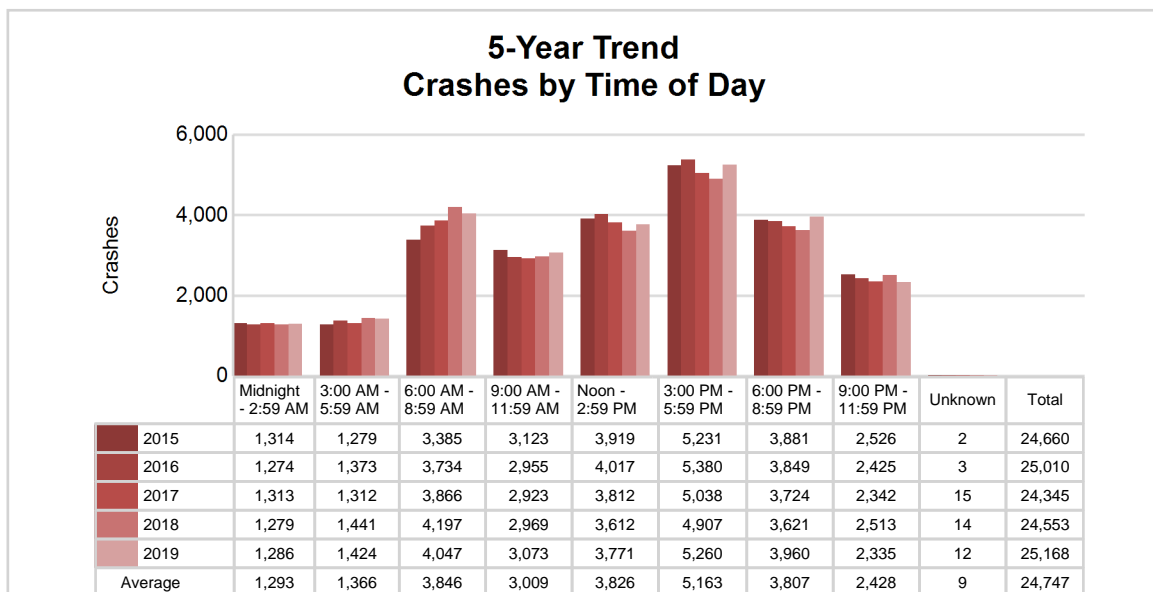
5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



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	1,314	14	1,274	10	1,313	8	1,279	8	1,286	8
3:00 AM - 5:59 AM	1,279	12	1,373	10	1,312	14	1,441	9	1,424	8
6:00 AM - 8:59 AM	3,385	10	3,734	9	3,866	11	4,197	6	4,047	14
9:00 AM - 11:59 AM	3,123	6	2,955	11	2,923	9	2,969	18	3,073	11
Noon - 2:59 PM	3,919	13	4,017	25	3,812	19	3,612	11	3,771	13
3:00 PM - 5:59 PM	5,231 †	16	5,380 †	22	5,038 †	15	4,907 †	15	5,260 †	17
6:00 PM - 8:59 PM	3,881	17	3,849	21	3,724	16	3,621	19	3,960	14
9:00 PM - 11:59 PM	2,526	14	2,425	4	2,342	11	2,513	12	2,335	13
Unknown	2	0	3	0	15	0	14	0	12	0
Total	24,660	102	25,010	112	24,345	103	24,553	98	25,168	98

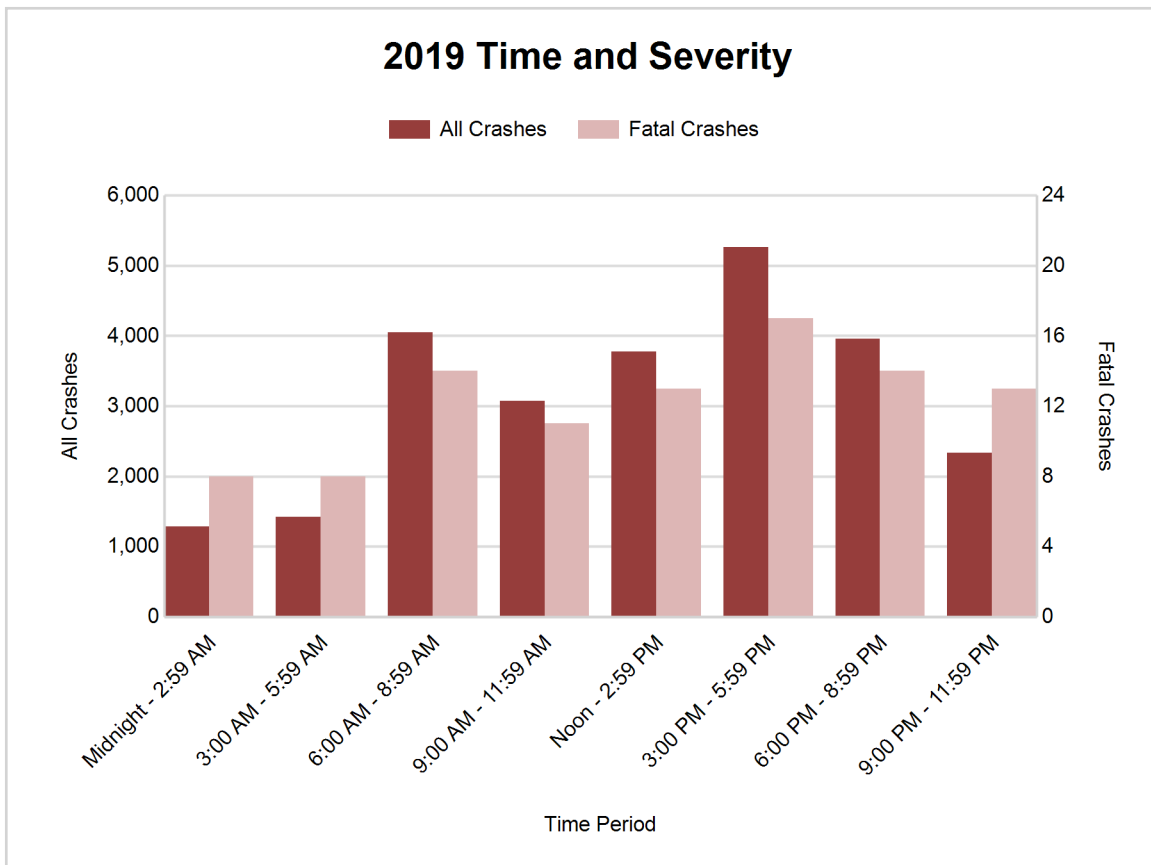
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same time period



MDOT Region - Southwest (continued)

2019 - Time and Severity

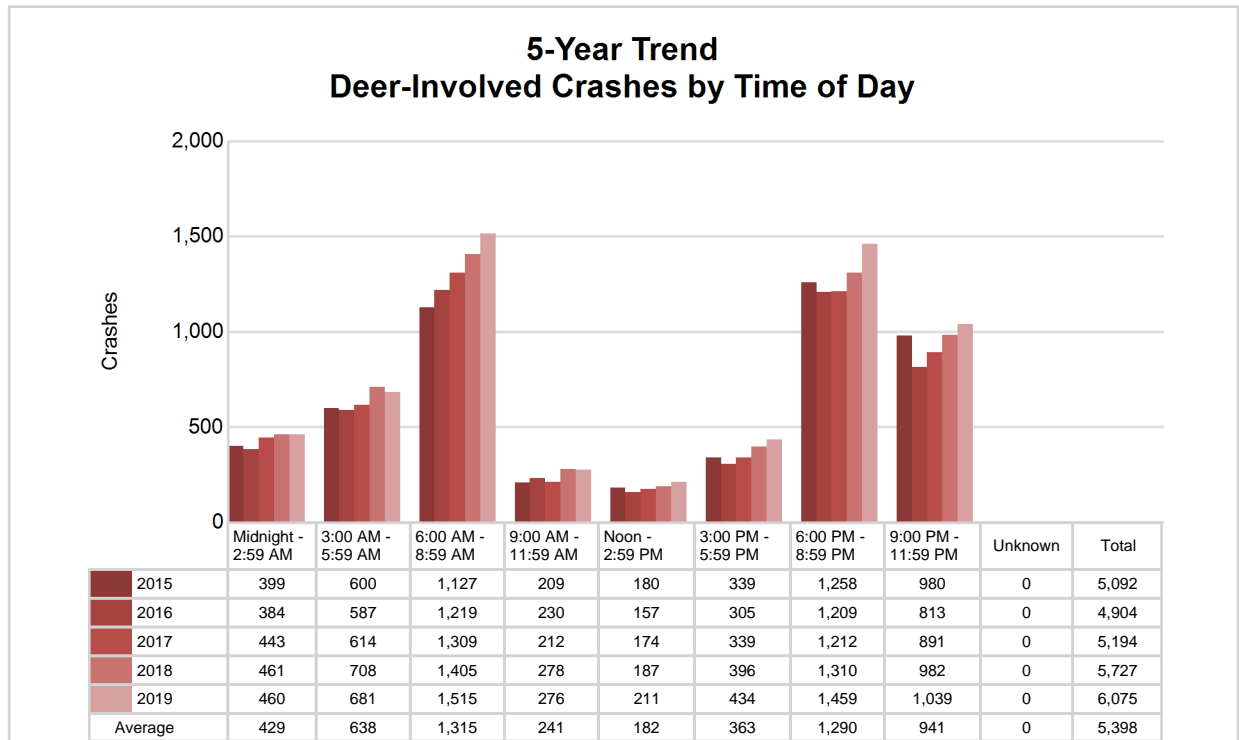
Time of Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Midnight - 2:59 AM	1,286	5.1	8	8.2	29	73	100	1,076
3:00 AM - 5:59 AM	1,424	5.7	8	8.2	31	52	93	1,240
6:00 AM - 8:59 AM	4,047	16.1	14	14.3	51	136	289	3,557
9:00 AM - 11:59 AM	3,073	12.2	11	11.2	50	158	278	2,576
Noon - 2:59 PM	3,771	15.0	13	13.3	86	186	443	3,043
3:00 PM - 5:59 PM	5,260	20.9	17	17.3	110	268	547	4,318
6:00 PM - 8:59 PM	3,960	15.7	14	14.3	71	181	335	3,359
9:00 PM - 11:59 PM	2,335	9.3	13	13.3	39	103	171	2,009
Unknown	12	0.0	0	0.0	0	0	0	12
Total	25,168	100.0	98	100.0	467	1,157	2,256	21,190

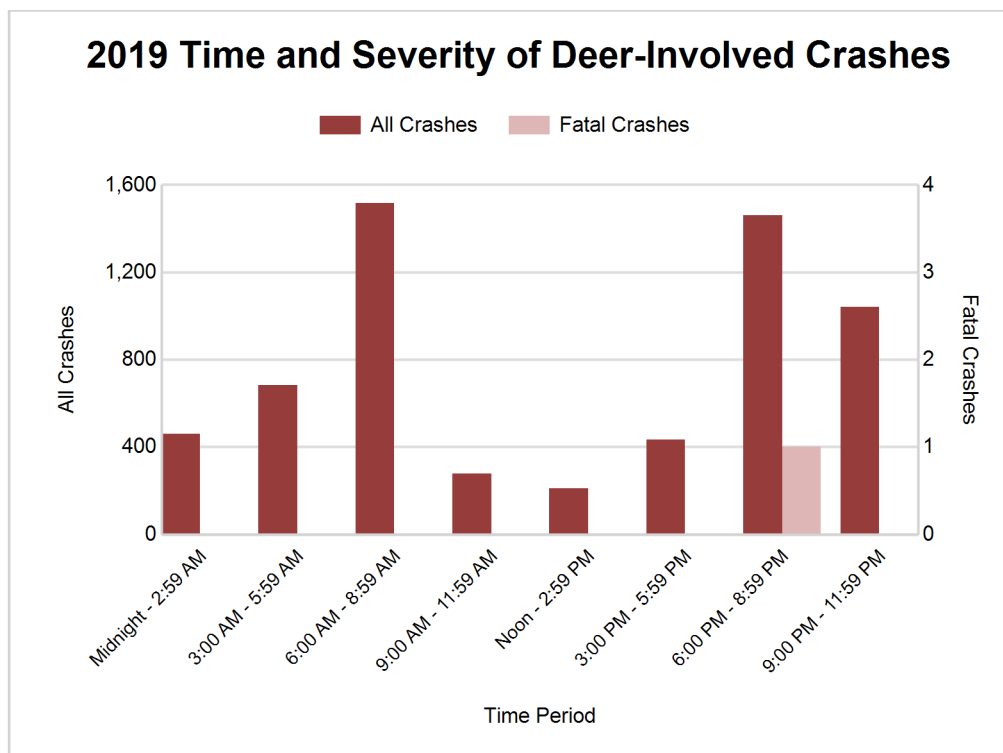


5-Year Trend - Deer-Involved Crashes by Time of Day

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	399	1	384	0	443	0	461	0	460	0
3:00 AM - 5:59 AM	600	0	587	0	614	0	708	0	681	0
6:00 AM - 8:59 AM	1,127	0	1,219	0	1,309	0	1,405	0	1,515	0
9:00 AM - 11:59 AM	209	0	230	0	212	0	278	0	276	0
Noon - 2:59 PM	180	0	157	0	174	0	187	0	211	0
3:00 PM - 5:59 PM	339	1	305	0	339	0	396	0	434	0
6:00 PM - 8:59 PM	1,258	0	1,209	0	1,212	1	1,310	0	1,459	1
9:00 PM - 11:59 PM	980	0	813	0	891	0	982	0	1,039	0
Unknown	0	0	0	0	0	0	0	0	0	0
Total	5,092	2	4,904	0	5,194	1	5,727	0	6,075	1

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





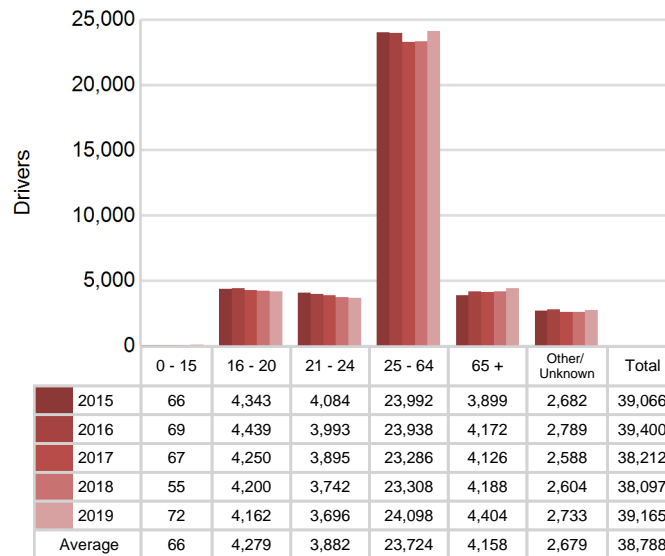
2019 - Reported Motor Vehicle Crashes by County

County	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Berrien	4,698	24	789	3,885	1,073	413	970	2,227	175	46	952	28	1,116
Branch	1,570	3	173	1,394	146	313	99	1,009	23	4	848	5	232
Calhoun	4,269	22	533	3,714	1,107	0	1,090	2,070	146	51	1,195	23	735
Cass	1,556	8	255	1,293	0	171	496	886	64	21	560	8	373
Kalamazoo	8,888	17	1,477	7,394	1,358	656	1,609	5,258	283	55	1,163	19	1,958
St. Joseph	1,751	7	254	1,490	0	385	424	937	58	23	607	9	353
Van Buren	2,436	17	399	2,020	621	0	497	1,315	92	29	750	19	551
Total	25,168	98	3,880	21,190	4,305	1,938	5,185	13,702	841	229	6,075	111	5,318

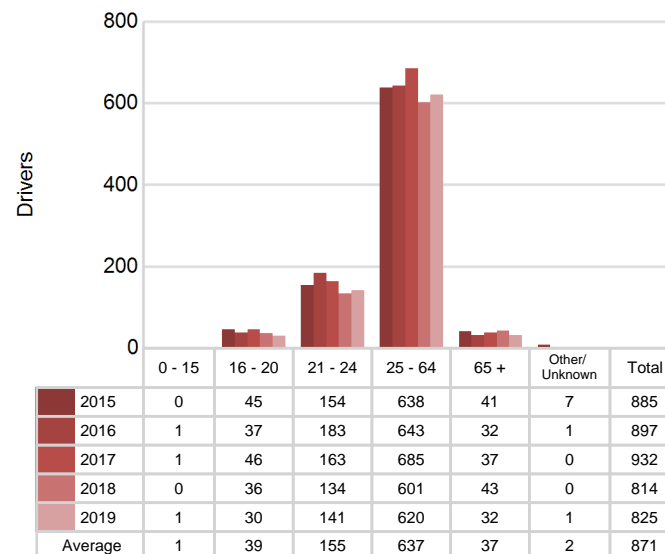
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

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	66	0	69	1	67	1	55	0	72	1
16 - 20	4,343	45	4,439	37	4,250	46	4,200	36	4,162	30
21 - 24	4,084	154	3,993	183	3,895	163	3,742	134	3,696	141
25 - 64	23,992	638	23,938	643	23,286	685	23,308	601	24,098	620
65 +	3,899	41	4,172	32	4,126	37	4,188	43	4,404	32
Unknown	2,682	7	2,789	1	2,588	0	2,604	0	2,733	1
Total	39,066	885	39,400	897	38,212	932	38,097	814	39,165	825

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

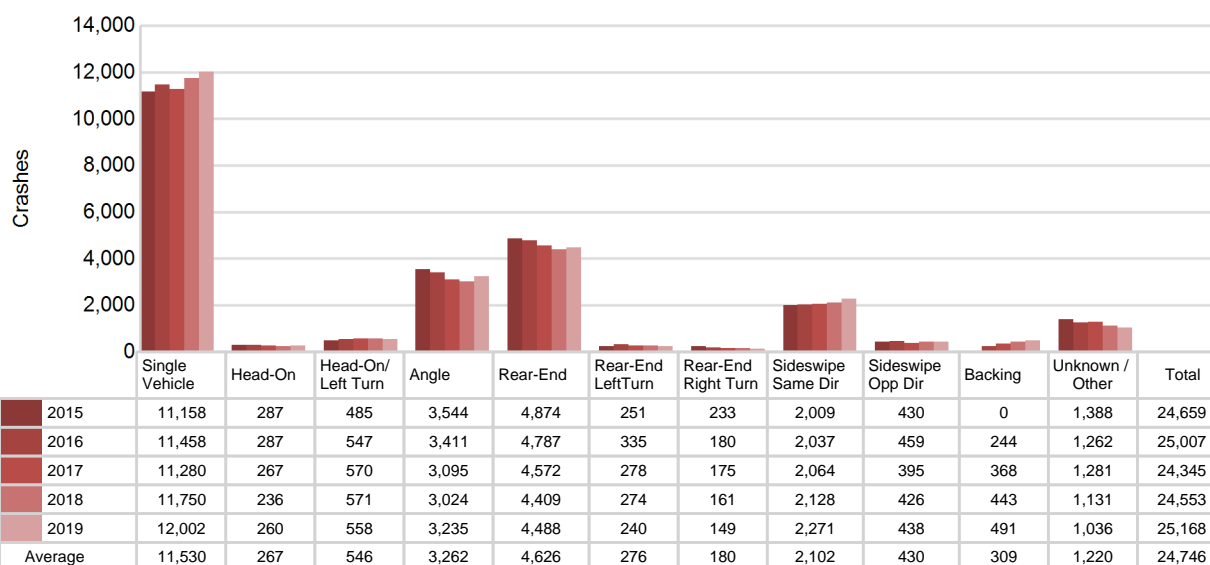


**5-Year Trend
Total Drivers Coded Drinking by Age**



5-Year Trend - Crashes by Crash Type

Crash Type	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	11,158	56	11,458	52	11,280	53	11,750	51	12,002	56
Head-on	287	12	287	18	267	10	236	8	260	7
Head-on / left turn	485	3	547	5	570	4	571	3	558	3
Angle	3,544	12	3,411	25	3,095	18	3,024	18	3,235	14
Rear-end	4,874	6	4,787	6	4,572	8	4,409	10	4,488	6
Rear-end left turn	251	0	335	2	278	1	274	1	240	0
Rear-end right turn	233	0	180	1	175	0	161	0	149	0
Sideswipe same direction	2,009	0	2,037	2	2,064	1	2,128	0	2,271	3
Sideswipe opposite direction	430	1	459	0	395	1	426	0	438	0
Backing	0	0	244	0	368	0	443	0	491	0
Other / Unknown	1,388	12	1,262	1	1,281	7	1,131	7	1,036	9
Uncoded and Errors	1	0	3	0	0	0	0	0	0	0
Total	24,660	102	25,010	112	24,345	103	24,553	98	25,168	98

5-Year Trend
Crashes by Crash Type

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	7	2	0	1	0	0	0	0	1
16 - 20	60	59	27	30	0	6	9	8	7
21 - 24	180	147	124	141	0	15	40	41	45
25 - 64	817	727	533	620	0	50	158	234	178
65 +	60	60	32	32	0	5	8	11	8
Unknown	87	1	0	1	0	0	0	0	1
Total	1,211	996	716	825	0	76	215	294	240

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 1,211 drivers in alcohol-involved crashes; 825 (68.1%) of those drivers were coded as had-been-drinking by the officer on the crash form.

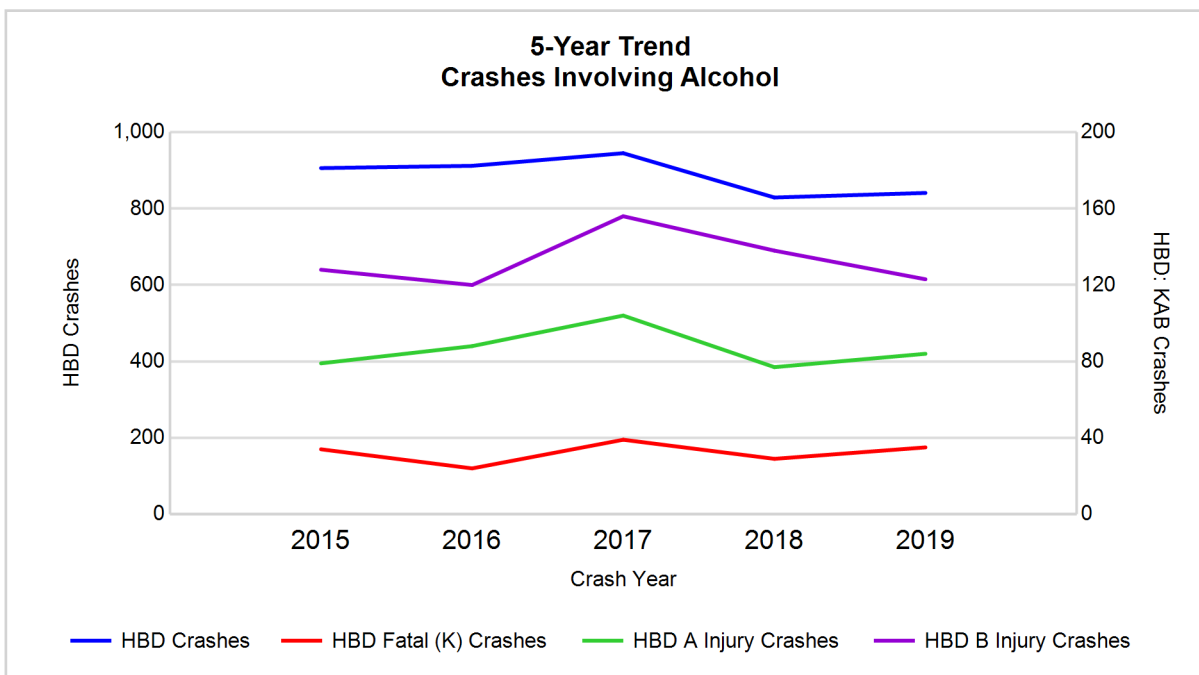
- 509 (61.7%) of the 825 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 294 (57.8%) of the 509 drivers had a BAC at or above 0.17 g/dL.
- 716 (86.8%) of the 825 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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	24,660	906	3.7	102	34	33.3	368	79	21.5	1,107	128	11.6
2016	25,010	912	3.6	112	24	21.4	422	88	20.9	1,232	120	9.7
2017	24,345	945	3.9	103	39	37.9	512	104	20.3	1,235	156	12.6
2018	24,553	829	3.4	98	29	29.6	449	77	17.1	1,200	138	11.5
2019	25,168**	841	3.3*	98	35	35.7	467	84	18.0	1,157	123	10.6

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



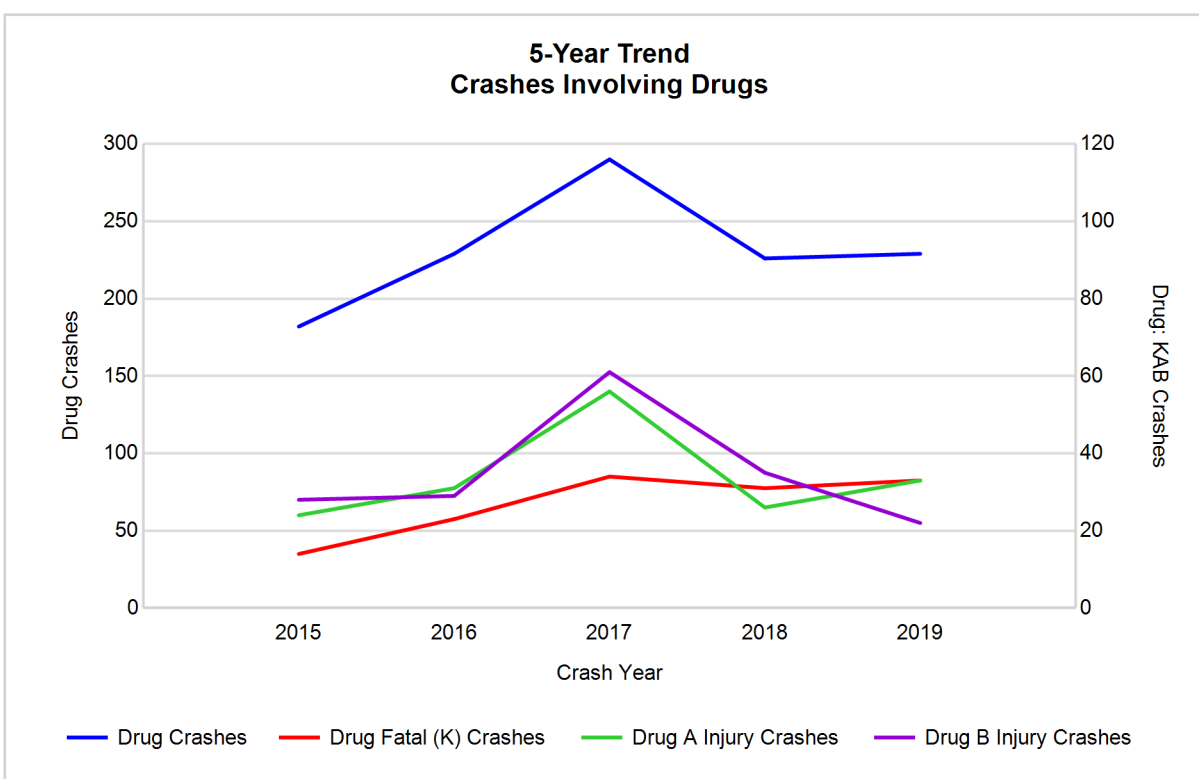
Note: Had-Been-Drinking (HBD)

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	24,660	182	0.7	102	14	13.7	368	24	6.5	1,107	28	2.5
2016	25,010	229	0.9	112	23	20.5	422	31	7.3	1,232	29	2.4
2017	24,345	290	1.2	103	34	33.0	512	56	10.9	1,235	61	4.9
2018	24,553	226	0.9	98	31	31.6	449	26	5.8	1,200	35	2.9
2019	25,168**	229	0.9	98	33	33.7**	467	33	7.1	1,157	22*	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

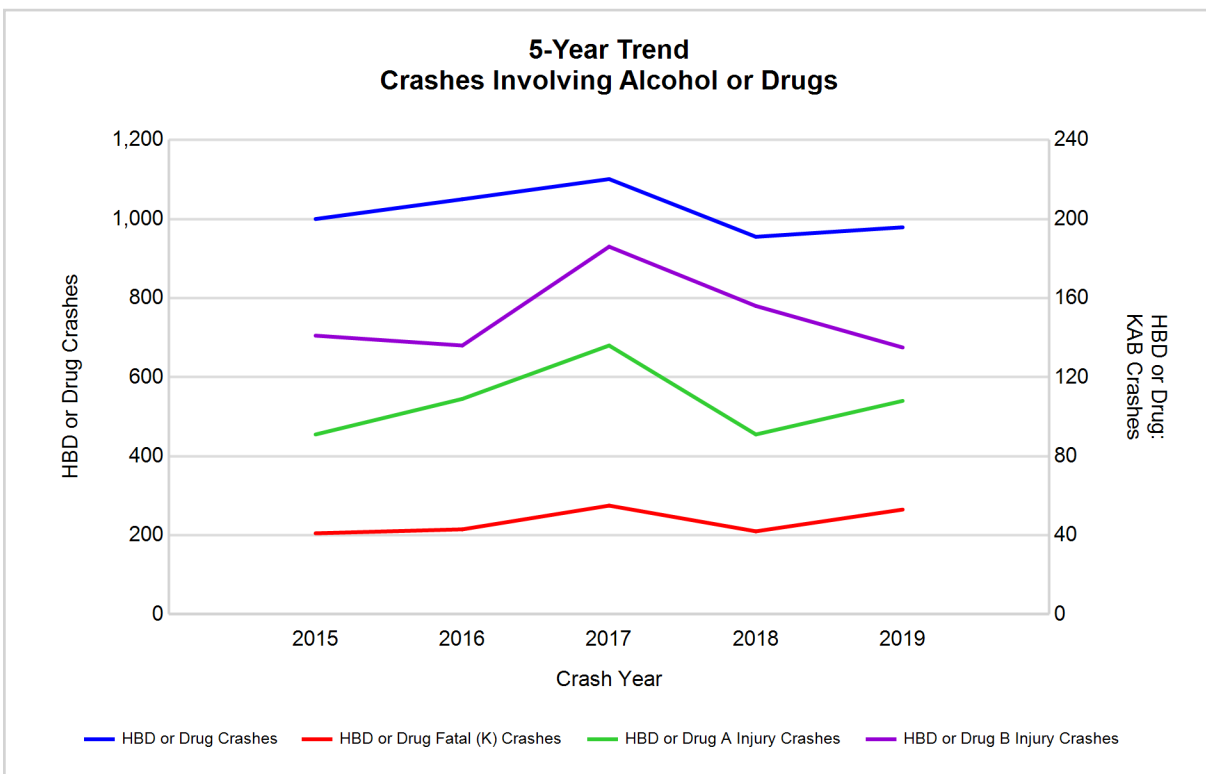


5-Year Trend - Crashes Involving Alcohol or Drugs

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	24,660	1,000	4.1	102	41	40.2	368	91	24.7	1,107	141	12.7
2016	25,010	1,050	4.2	112	43	38.4	422	109	25.8	1,232	136	11.0
2017	24,345	1,101	4.5	103	55	53.4	512	136	26.6	1,235	186	15.1
2018	24,553	955	3.9	98	42	42.9	449	91	20.3	1,200	156	13.0
2019	25,168**	979	3.9	98	53	54.1**	467	108	23.1	1,157	135*	11.7

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

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



Note: Had-Been-Drinking (HBD)

MDOT Region - Southwest (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	32,255	28,646	88.8	68	36	52.9	371	299	80.6	1,117	965	86.4	2,761	2,574	93.2	26,561	24,772	93.3
Motor home	113	95	84.1	0	0	0.0	2	2	100.0	6	6	100.0	5	4	80.0	96	83	86.5
Pickup truck	4,709	4,199	89.2	11	6	54.5	51	31	60.8	150	126	84.0	258	239	92.6	3,996	3,797	95.0
Small truck under 10,000 lbs. GVWR	285	252	88.4	1	0	0.0	1	1	100.0	7	4	57.1	17	16	94.1	237	231	97.5
Motorcycle	291	152	52.2	8	4	50.0	69	38	55.1	93	47	50.5	54	31	57.4	61	32	52.5
Moped / goped	40	7	17.5	2	0	0.0	8	1	12.5	14	4	28.6	10	2	20.0	6	0	0.0
Go-cart / golf cart	2	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	2	0	0.0
Snowmobile	2	2	100.0	0	0	0.0	1	1	100.0	0	0	0.0	0	0	0.0	1	1	100.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	16	2	12.5	0	0	0.0	3	1	33.3	5	0	0.0	3	0	0.0	5	1	20.0
Other	150	92	61.3	0	0	0.0	0	0	0.0	2	0	0.0	1	1	100.0	117	91	77.8
Truck/bus over 10,000 lbs.	1,670	1,545	92.5	3	1	33.3	12	10	83.3	25	22	88.0	62	57	91.9	1,530	1,455	95.1
Unknown	964	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	27	0	0.0
Total	40,497	34,992	86.4	93	47	50.5	518	384	74.1	1,419	1,174	82.7	3,171	2,924	92.2	32,639	30,463	93.3

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	395	347	87.8	2	1	50.0	26	22	84.6	99	80	80.8	210	196	93.3	58	48	82.8
16 - 20	4,365	4,058	93.0	6	2	33.3	52	36	69.2	175	140	80.0	381	362	95.0	3,738	3,518	94.1
21 - 24	3,812	3,479	91.3	9	4	44.4	47	37	78.7	168	128	76.2	315	290	92.1	3,263	3,020	92.6
25 - 64	24,641	22,834	92.7	56	27	48.2	329	238	72.3	796	661	83.0	1,890	1,733	91.7	21,486	20,175	93.9
65 +	4,550	4,270	93.8	20	13	65.0	64	51	79.7	181	165	91.2	369	341	92.4	3,900	3,700	94.9
Unknown	2,734	4	0.1	0	0	0.0	0	0	0.0	0	0	0.0	6	2	33.3	194	2	1.0
Total	40,497	34,992	86.4	93	47	50.5	518	384	74.1	1,419	1,174	82.7	3,171	2,924	92.2	32,639	30,463	93.3

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	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	187	1	18	118	0	17	64	2	9	68	1	10	72	0	16
Shoulder belt only used	117	0	8	198	1	28	227	1	37	204	0	21	204	1	20
Lap belt only used	168	1	20	127	0	20	99	1	12	99	0	13	87	0	13
Both lap & shoulder belts used	33,881	33	3,251	33,931	41	3,557	32,566	34	3,404	32,417	24	3,261	33,414	30	3,223
No belts used	269	16	92	254	16	90	251	16	99	217	17	105	199	22	76
Child restraint used	1	0	0	2	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	7	0	1	8	0	0	19	0	4	6	0	0	13	1	1
Restraint use unknown	1,562	9	150	3,652	10	169	4,575	10	256	4,739	14	226	4,861	9	222
Helmet worn	207	8	152	181	7	125	197	6	136	155	5	110	147	4	109
Helmet not worn	144	10	99	168	4	116	136	6	103	126	6	101	140	6	106
Helmet use unknown	26	0	12	22	1	14	19	1	10	13	1	7	20	0	10
Uncoded & errors	2,497	0	6	739	0	2	58	0	1	53	0	0	8	0	0
Total	39,066	78	3,809	39,400	80	4,138	38,212	77	4,071	38,097	68	3,854	39,165	73	3,796

5-Year Trend - Restraint Use Among Drivers Coded Drinking

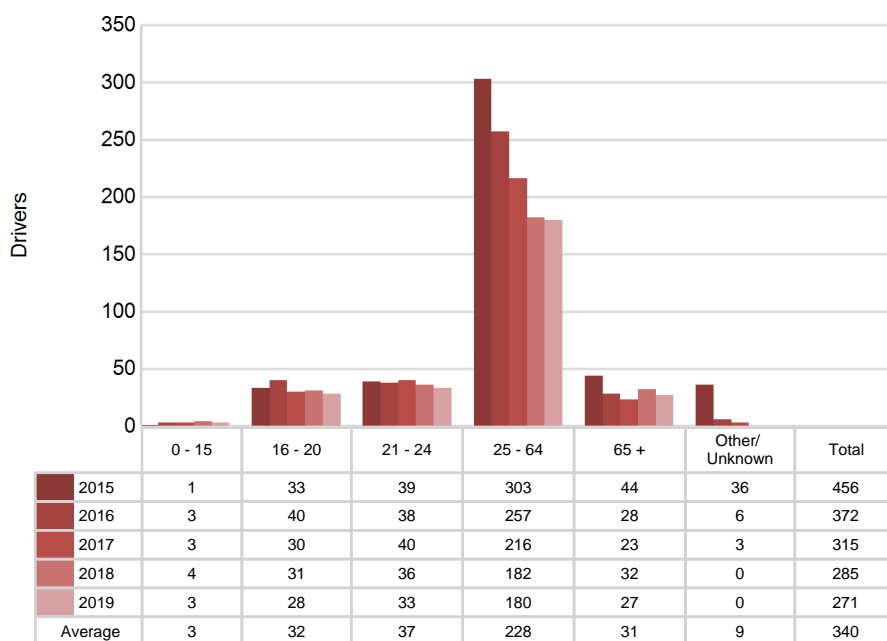
Restraint Use	2015			2016			2017			2018			2019		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	7	1	3	2	0	1	0	0	0	1	0	1	3	0	2
Shoulder belt only used	2	0	2	12	1	1	5	1	3	4	0	1	1	0	0
Lap belt only used	4	0	1	2	0	1	2	0	0	2	0	1	1	0	1
Both lap & shoulder belts used	618	8	165	658	5	205	625	10	194	557	4	174	567	7	159
No belts used	66	4	41	38	6	24	53	9	31	48	6	31	45	10	24
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	1	0	0
Restraint use unknown	151	1	44	153	2	33	203	3	71	177	3	64	177	4	48
Helmet worn	12	4	6	4	1	3	12	3	8	5	1	4	7	0	7
Helmet not worn	19	3	14	26	0	21	28	3	23	20	4	15	22	2	20
Helmet use unknown	1	0	1	1	0	1	3	1	2	0	0	0	1	0	1
Uncoded & errors	5	0	1	1	0	0	0	0	0	0	0	0	0	0	0
Total	885	21	278	897	15	290	932	30	332	814	18	291	825	23	262

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	1	0	0	3	0	2	3	0	1	4	0	1	3	0	1
16 - 20	33	2	6	40	3	13	30	1	11	31	2	13	28	0	13
21 - 24	39	1	15	38	1	11	40	6	15	36	1	17	33	3	13
25 - 64	303	8	78	257	9	76	216	10	71	182	12	72	180	17	59
65 +	44	6	10	28	3	5	23	1	10	32	3	12	27	2	6
Unknown	36	0	1	6	0	0	3	0	0	0	0	0	0	0	0
Total	456	17	110	372	16	107	315	18	108	285	18	115	271	22	92

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

5-Year Trend Driver Seatbelt Not Used

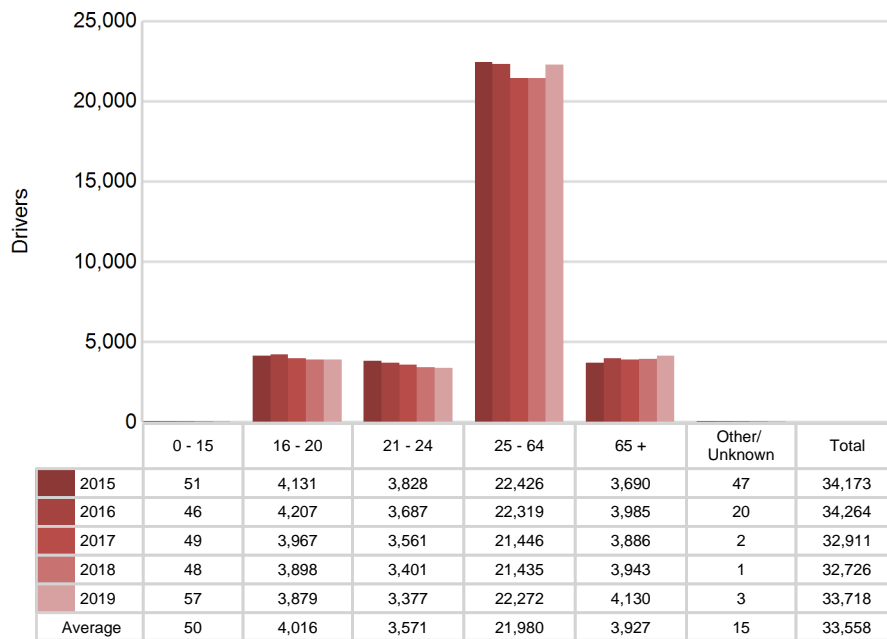


5-Year Trend - Seatbelt Used Among Drivers by Age

Age Group	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	51	0	9	46	0	7	49	0	7	48	0	6	57	0	9
16 - 20	4,131	5	427	4,207	7	454	3,967	0	414	3,898	0	404	3,879	1	361
21 - 24	3,828	6	356	3,687	1	379	3,561	3	379	3,401	1	360	3,377	3	358
25 - 64	22,426	16	2,078	22,319	26	2,321	21,446	26	2,170	21,435	13	2,065	22,272	18	2,105
65 +	3,690	7	409	3,985	8	444	3,886	7	487	3,943	10	460	4,130	10	423
Unknown	47	0	1	20	0	0	2	0	0	1	0	0	3	0	1
Total	34,173	34	3,280	34,264	42	3,605	32,911	36	3,457	32,726	24	3,295	33,718	32	3,257

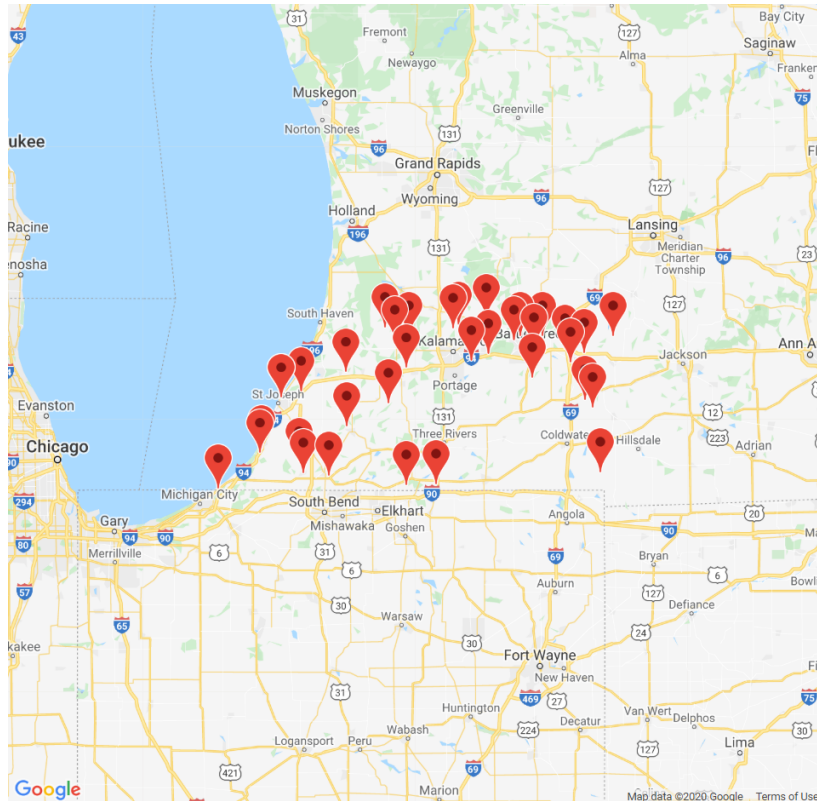
Note: Seatbelt Used includes shoulder belt only used, lap belt only used, both lap and shoulder belts used, and restraint failure.

5-Year Trend Driver Seatbelt Used



5-Year Trend - Drivers in Crashes by Hazardous Action

Hazardous Action	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	21,253	96	20,696	78	20,093	72	20,355	56	21,058	60
Speed too fast	3,733	40	3,798	21	3,423	19	3,283	22	3,473	20
Speed too slow	40	1	32	0	39	1	37	1	22	1
Failed to yield	3,236	11	3,303	18	3,276	6	3,197	13	3,226	9
Disregard traffic control	799	2	795	10	710	10	732	8	693	8
Drove wrong way	39	0	24	1	25	1	26	0	20	0
Drove left of center	241	8	236	8	197	6	241	5	250	7
Improper passing	198	1	209	1	173	0	198	1	212	0
Improper lane use	695	1	747	0	801	1	769	1	795	3
Improper turn	395	0	411	0	409	2	413	0	391	0
Improper/no signal	60	0	46	0	28	0	28	0	37	0
Improper backing	589	0	626	0	506	1	535	0	496	0
Unable to stop in assured clear distance	4,402	14	4,439	7	4,247	4	4,120	6	4,102	4
Other	1,419	7	1,384	7	1,344	7	1,308	4	1,411	6
Unknown	698	10	1,214	14	1,518	15	1,618	14	1,852	24
Reckless driving	195	5	213	6	242	6	206	7	196	1
Careless/negligent driving	1,069	17	1,219	10	1,176	14	1,025	12	928	10
Uncoded & errors	5	1	8	0	5	0	6	0	3	0
Total	39,066	214	39,400	181	38,212	165	38,097	150	39,165	153



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

In 2019, there were 841 alcohol-involved crashes in MDOT Region - Southwest:

- 35 K - Fatal Crashes
- 84 A - Suspected Serious Injury Crashes
- 123 B - Suspected Minor Injury Crashes
- 128 C - Possible Injury Crashes
- 471 O - Property Damage Only/No Injury Crashes

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