



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

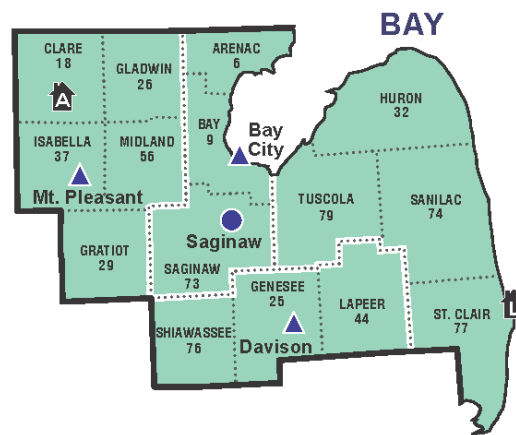
Property Damage Only (PDO)



MDOT Region - Bay

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

Beginning October 2015, MDOT Region - Bay is comprised of Arenac, Bay, Clare, Genesee, Gladwin, Gratiot, Huron, Isabella, Lapeer, Midland, Saginaw, St. Clair, Sanilac, Shiawassee, and Tuscola 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.

This page left intentionally blank

MDOT Region - Bay Experience

In 2019:

There were 65,351 drivers involved in 43,498 motor vehicle crashes in MDOT Region Bay. Of those crashes, 154 were classified as fatal, resulting in 170 fatalities. An additional 9,880 persons were injured.

MDOT Region Bay experienced the highest number of motor vehicle crashes (5,559) in November, the highest number of fatal crashes (19) and the highest number of persons killed (22) in August.

Michigan driver statistics indicate 6.3 percent of licensed drivers in MDOT Region Bay were age 16-20, and 11.1 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	4,219	12	628	3,579	12	854
February	3,549	11	530	3,008	11	735
March	3,004	10	464	2,530	10	643
April	2,796	8	504	2,284	8	710
May	3,167	11	589	2,567	11	816
June	3,353	10	609	2,734	13	881
July	3,050	18	641	2,391	20	930
August	3,030	19	664	2,347	22	956
September	3,128	13	607	2,508	14	838
October	4,713	13	673	4,027	13	918
November	5,559	12	628	4,919	16	857
December	3,930	17	541	3,372	20	742
Total	43,498	154	7,078	36,266	170	9,880

2019 - Driver Statistics

Age Group	MDOT Region - Bay			Driver Rates	
	2019 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	256,914	7,495	106	4.1	141.4
16 - 20	90,743	65,282	7,255	799.5	1,111.3
21 - 24	72,883	61,651	5,860	804.0	950.5
25 - 64	712,443	656,281	40,473	568.1	616.7
65 +	270,769	246,509	7,974	294.5	323.5
Unknown	0	0	3,683	- -	- -
Total	1,403,752	1,037,218	65,351	465.5	630.1

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	50,231	76.9	165	67.3	9,481	40,585
Motor home	166	0.3	0	0.0	25	141
Pickup truck	11,286	17.3	44	18.0	1,926	9,316
Small truck under 10,000 lbs. GVWR	301	0.5	1	0.4	56	244
Motorcycle	415	0.6	14	5.7	313	88
Moped / goped	38	0.1	0	0.0	29	9
Go-cart / golf cart	9	0.0	1	0.4	3	5
Snowmobile	2	0.0	0	0.0	2	0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	53	0.1	0	0.0	43	10
Other	278	0.4	2	0.8	49	227
Truck/bus over 10,000 lbs.	1,729	2.6	15	6.1	345	1,369
Unknown	843	1.3	3	1.2	74	766
Total	65,351	100.0	245	100.0	12,346	52,760

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	4,395	7	4,055	13	3,684	13	4,409	8	4,219	12
February	3,222	3	3,790	7	2,590	5	3,529	11	3,549	11
March	2,797	8	3,062	8	3,365	12	3,442	11	3,004	10
April	2,618	9	2,925	5	2,752	9	3,057	15	2,796	8
May	3,067	12	2,898	10	3,129	11	2,932	14	3,167	11
June	3,139	13	3,076	13	3,325	19	3,257	9	3,353	10
July	2,844	26	2,938	15	3,012	19	2,829	9	3,050	18
August	2,596	13	2,920	14	2,845	17	2,797	25	3,030	19
September	2,998	15	3,264	16	3,181	14	2,969	21	3,128	13
October	4,304	18	4,125	19	4,635	14	4,367	14	4,713	13
November	4,961	17	4,705	11	4,544	16	5,156	15	5,559	12
December	3,692	10	4,479	15	5,531	11	3,647	8	3,930	17
Total	40,633	151	42,237	146	42,593	160	42,391	160	43,498	154

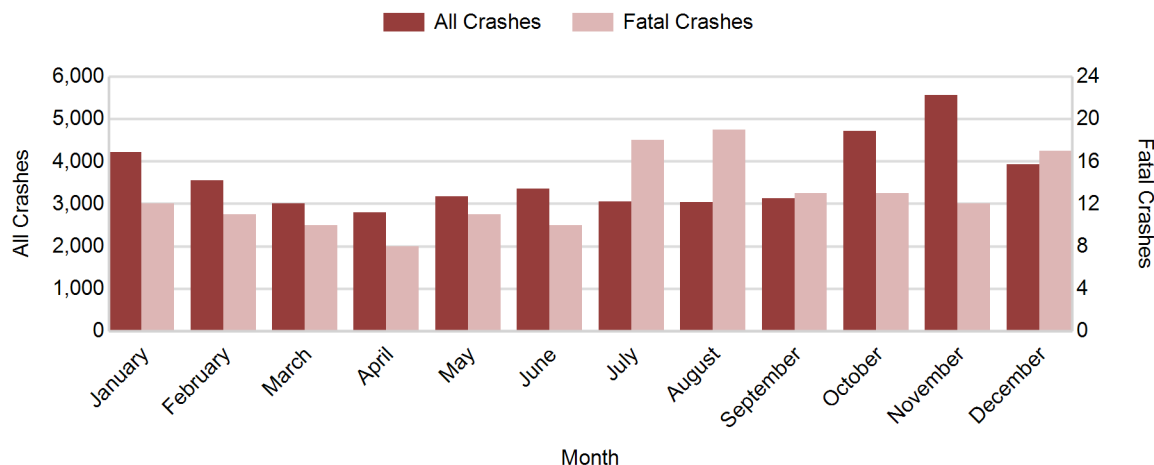
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

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	5,824	17	5,958	19	6,124	21	6,326	17	6,434	19
Tuesday	6,156	23	6,284	12	6,435	23	6,328	23	6,552	17
Wednesday	6,116	19	6,718	19	6,282	20	6,245	26	6,781	24
Thursday	6,014	16	6,206	21	6,508	24	6,409	22	6,477	32
Friday	6,363 †	26	6,847 †	26	6,924 †	21	7,123 †	20	6,938 †	20
Saturday	5,661	30	5,426	28	5,710	26	5,443	23	5,522	21
Sunday	4,499	20	4,798	21	4,610	25	4,517	29	4,794	21
Total	40,633	151	42,237	146	42,593	160	42,391	160	43,498	154

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

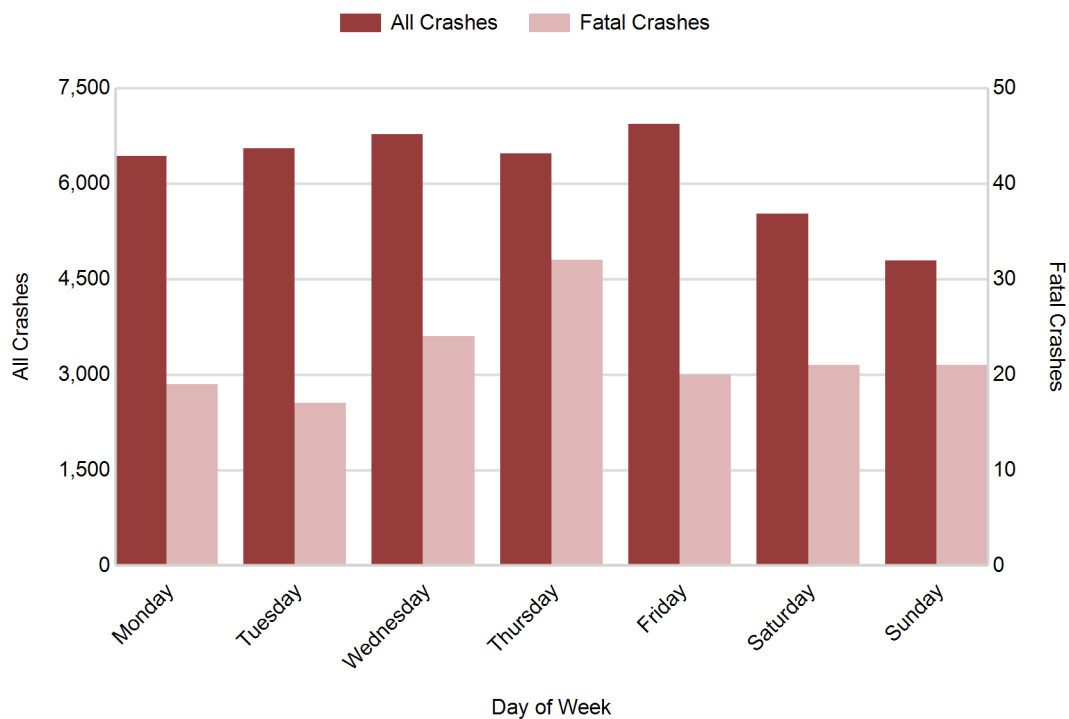
2019 Crashes by Month



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	6,434	14.8	19	12.3	93	280	669	5,373
Tuesday	6,552	15.1	17	11.0	104	283	707	5,441
Wednesday	6,781	15.6	24	15.6	94	278	734	5,651
Thursday	6,477	14.9	32	20.8	98	280	629	5,438
Friday	6,938	16.0	20	13.0	114	301	668	5,835
Saturday	5,522	12.7	21	13.6	106	307	537	4,551
Sunday	4,794	11.0	21	13.6	111	264	421	3,977
Total	43,498	100.0	154	100.0	720	1,993	4,365	36,266

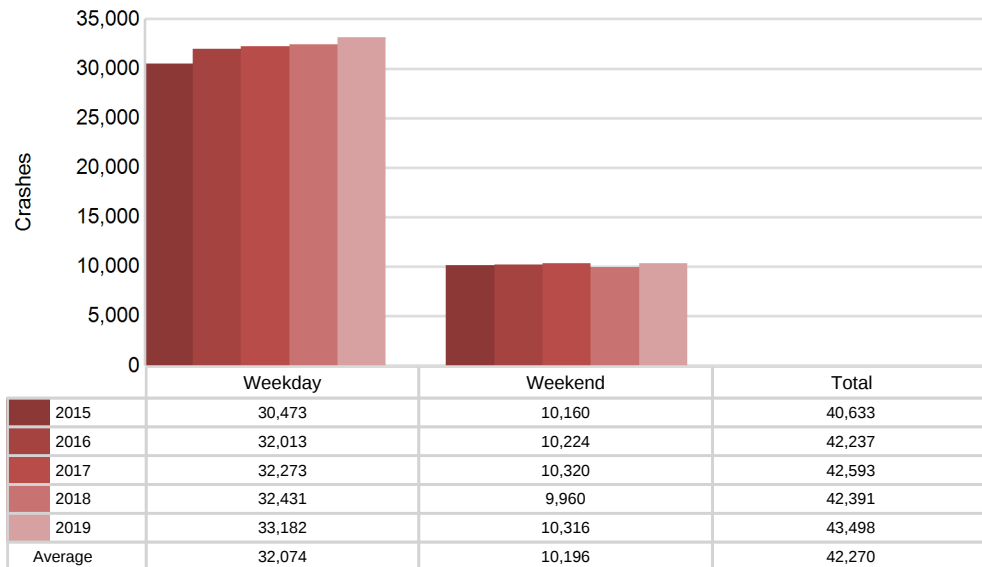
2019 Day of Week and Severity



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	30,473	101	32,013	97	32,273	109	32,431	108	33,182	112
Weekend	10,160	50	10,224	49	10,320	51	9,960	52	10,316	42
Total	40,633	151	42,237	146	42,593	160	42,391	160	43,498	154

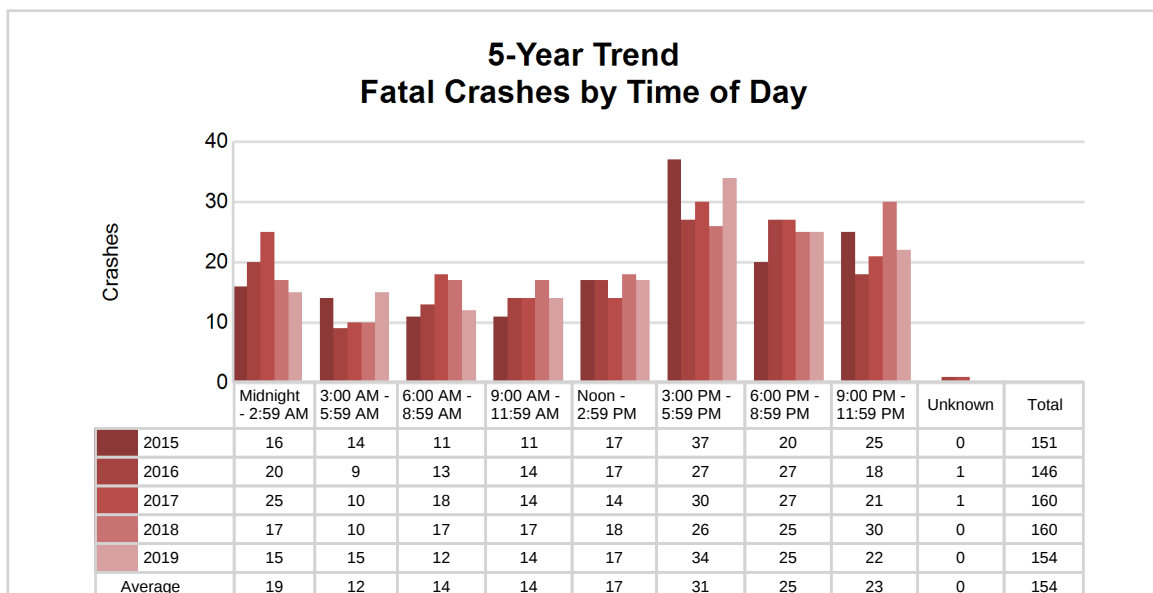
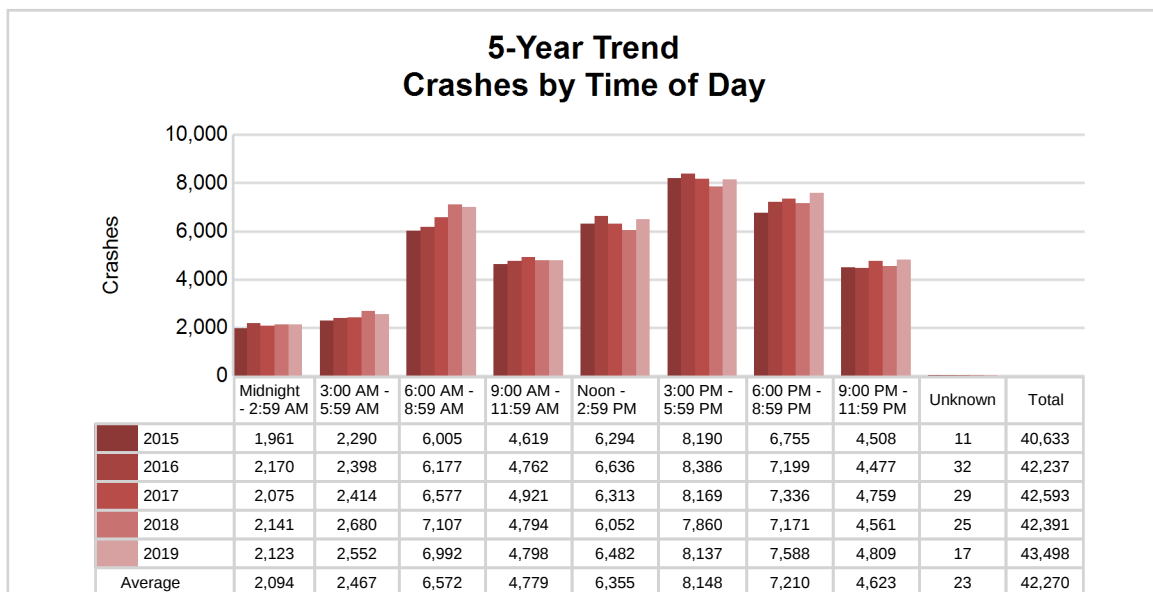
5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



5-Year Trend - Crashes by Time of Day

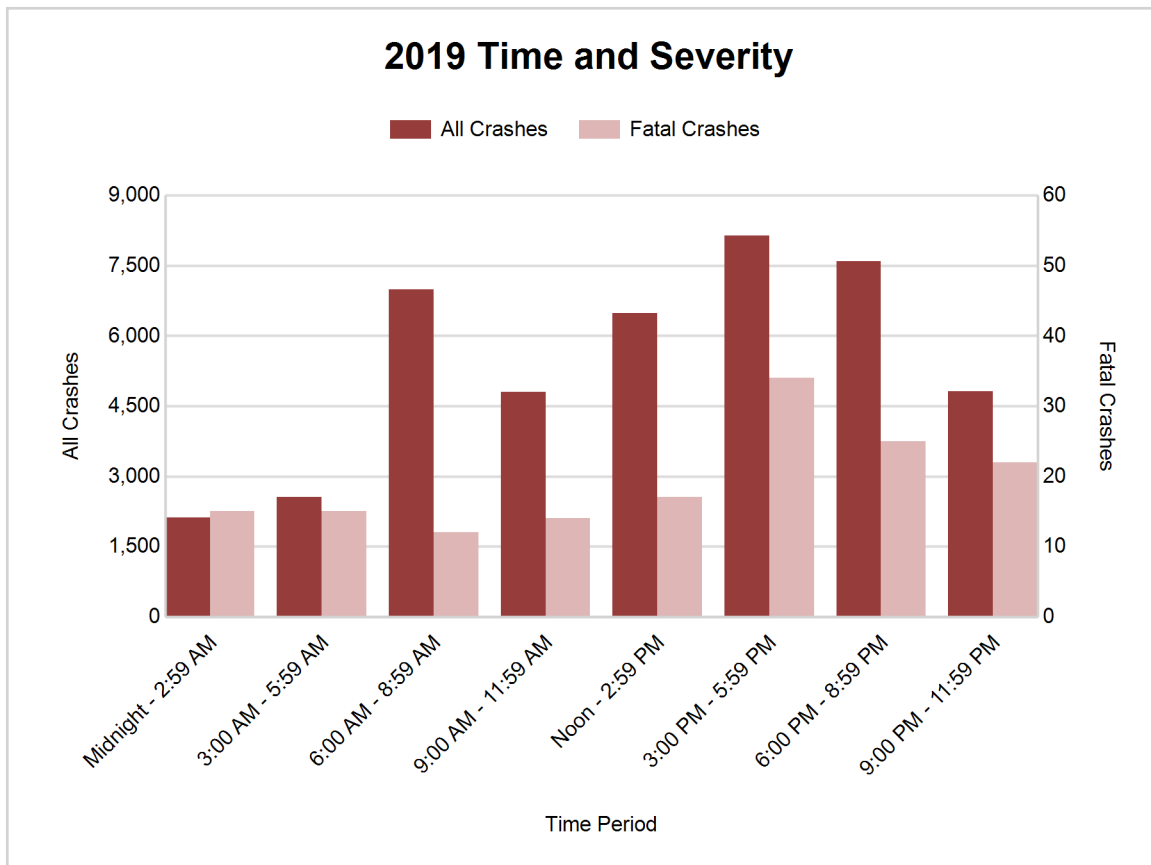
Time of Day	2015		2016		2017		2018		2019	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	1,961	16	2,170	20	2,075	25	2,141	17	2,123	15
3:00 AM - 5:59 AM	2,290	14	2,398	9	2,414	10	2,680	10	2,552	15
6:00 AM - 8:59 AM	6,005	11	6,177	13	6,577	18	7,107	17	6,992	12
9:00 AM - 11:59 AM	4,619	11	4,762	14	4,921	14	4,794	17	4,798	14
Noon - 2:59 PM	6,294	17	6,636	17	6,313	14	6,052	18	6,482	17
3:00 PM - 5:59 PM	8,190 †	37	8,386 †	27	8,169 †	30	7,860 †	26	8,137 †	34
6:00 PM - 8:59 PM	6,755	20	7,199	27	7,336	27	7,171	25	7,588	25
9:00 PM - 11:59 PM	4,508	25	4,477	18	4,759	21	4,561	30	4,809	22
Unknown	11	0	32	1	29	1	25	0	17	0
Total	40,633	151	42,237	146	42,593	160	42,391	160	43,498	154

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



2019 - Time and Severity

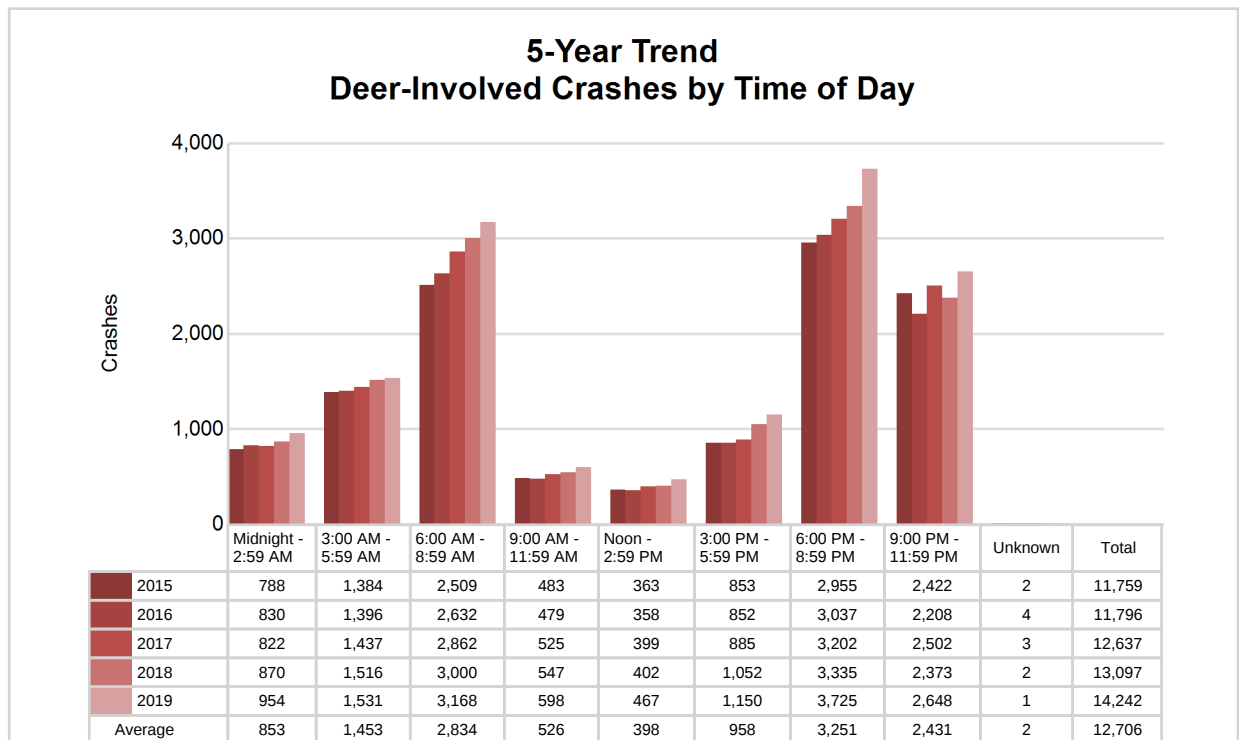
Time of Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Midnight - 2:59 AM	2,123	4.9	15	9.7	52	98	170	1,788
3:00 AM - 5:59 AM	2,552	5.9	15	9.7	36	95	142	2,264
6:00 AM - 8:59 AM	6,992	16.1	12	7.8	85	194	542	6,159
9:00 AM - 11:59 AM	4,798	11.0	14	9.1	90	256	595	3,843
Noon - 2:59 PM	6,482	14.9	17	11.0	108	355	917	5,085
3:00 PM - 5:59 PM	8,137	18.7	34	22.1	154	466	1,080	6,403
6:00 PM - 8:59 PM	7,588	17.4	25	16.2	122	319	568	6,554
9:00 PM - 11:59 PM	4,809	11.1	22	14.3	73	208	350	4,156
Unknown	17	0.0	0	0.0	0	2	1	14
Total	43,498	100.0	154	100.0	720	1,993	4,365	36,266

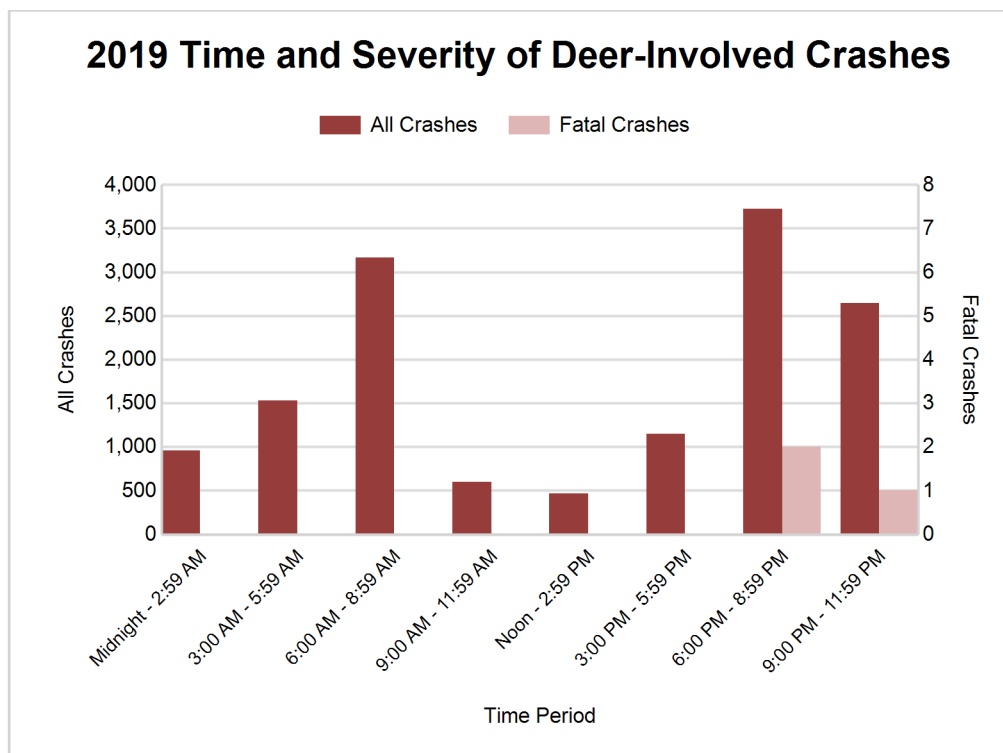


5-Year Trend - Deer-Involved Crashes by Time of Day

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	788	0	830	0	822	2	870	0	954	0
3:00 AM - 5:59 AM	1,384	0	1,396	0	1,437	0	1,516	0	1,531	0
6:00 AM - 8:59 AM	2,509	0	2,632	1	2,862	0	3,000	0	3,168	0
9:00 AM - 11:59 AM	483	0	479	0	525	0	547	0	598	0
Noon - 2:59 PM	363	0	358	0	399	0	402	0	467	0
3:00 PM - 5:59 PM	853	0	852	1	885	1	1,052	1	1,150	0
6:00 PM - 8:59 PM	2,955 †	0	3,037 †	0	3,202 †	1	3,335 †	1	3,725 †	2
9:00 PM - 11:59 PM	2,422	0	2,208	3	2,502	0	2,373	1	2,648	1
Unknown	2	0	4	0	3	0	2	0	1	0
Total	11,759	0	11,796	5	12,637	4	13,097	3	14,242	3

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





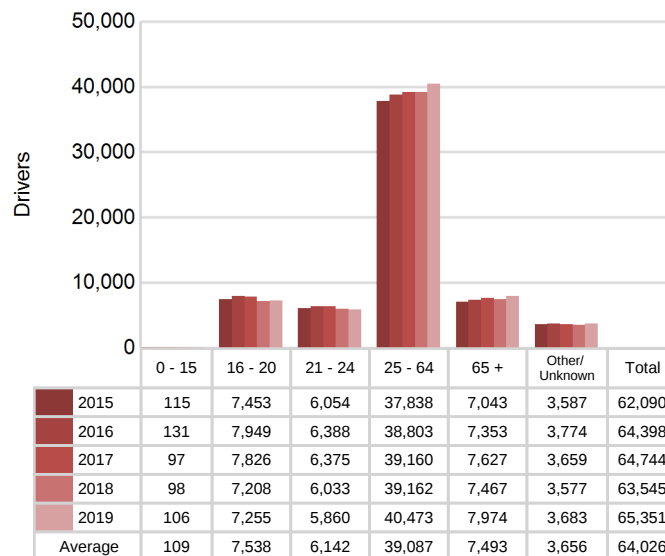
2019 - Reported Motor Vehicle Crashes by County

County	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Arenac	794	5	108	681	130	198	106	356	26	4	444	6	142
Bay	3,213	8	640	2,565	338	178	1,085	1,611	134	28	560	9	888
Clare	1,174	6	128	1,040	0	388	248	533	19	9	594	6	194
Genesee	10,656	49	2,295	8,312	1,755	430	1,663	6,795	376	123	1,212	53	3,192
Gladwin	829	1	94	734	0	0	347	482	30	4	500	2	137
Gratiot	1,686	7	168	1,511	0	457	292	935	39	12	938	8	220
Huron	1,537	0	147	1,390	0	0	682	855	39	6	1,085	0	200
Isabella	2,687	9	325	2,353	0	626	369	1,678	75	22	1,071	12	473
Lapeer	2,970	9	413	2,548	246	0	857	1,863	89	15	1,394	10	564
Midland	2,766	9	405	2,352	0	408	489	1,865	77	17	1,000	9	568
Saginaw	5,555	18	996	4,541	651	0	1,867	3,021	192	41	1,148	18	1,427
St. Clair	3,728	19	626	3,083	748	0	652	2,317	120	31	968	22	850
Sanilac	1,711	2	150	1,559	0	0	796	914	52	8	1,226	3	203
Shiawassee	2,261	8	335	1,918	310	0	663	1,282	80	16	1,036	8	456
Tuscola	1,931	4	248	1,679	0	0	708	1,223	67	27	1,066	4	366
Total	43,498	154	7,078	36,266	4,178	2,685	10,824	25,730	1,415	363	14,242	170	9,880

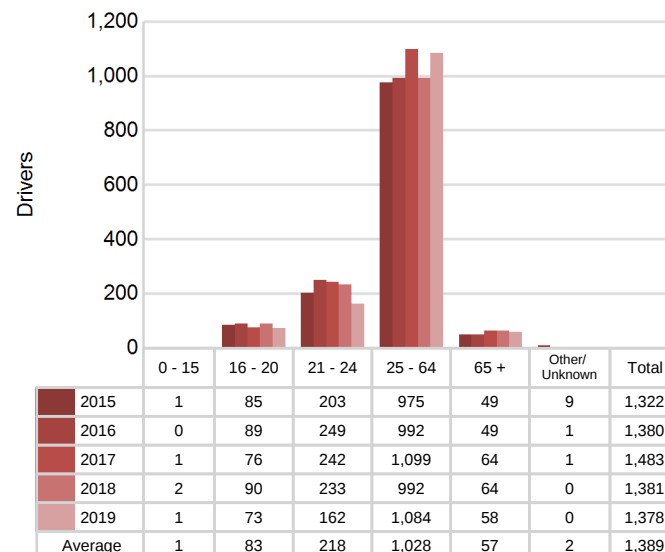
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

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	115	1	131	0	97	1	98	2	106	1
16 - 20	7,453	85	7,949	89	7,826	76	7,208	90	7,255	73
21 - 24	6,054	203	6,388	249	6,375	242	6,033	233	5,860	162
25 - 64	37,838	975	38,803	992	39,160	1,099	39,162	992	40,473	1,084
65 +	7,043	49	7,353	49	7,627	64	7,467	64	7,974	58
Unknown	3,587	9	3,774	1	3,659	1	3,577	0	3,683	0
Total	62,090	1,322	64,398	1,380	64,744	1,483	63,545	1,381	65,351	1,378

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

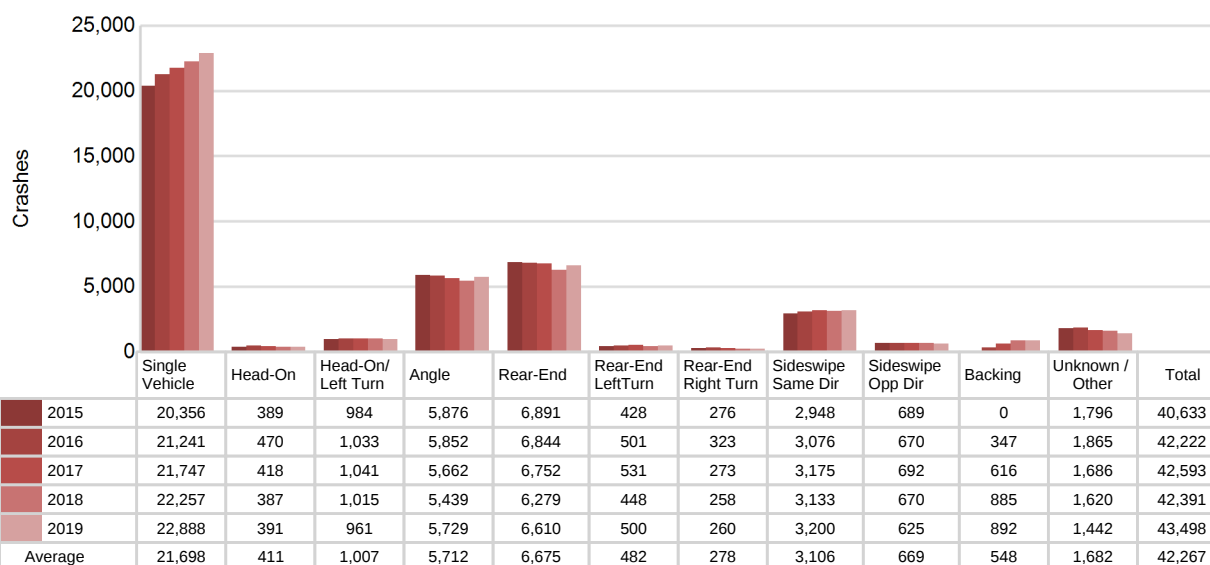


**5-Year Trend
Total Drivers Coded Drinking by Age**



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	20,356	80	21,241	76	21,747	80	22,257	69	22,888	73
Head-on	389	12	470	24	418	15	387	17	391	30
Head-on / left turn	984	5	1,033	5	1,041	8	1,015	6	961	5
Angle	5,876	33	5,852	27	5,662	32	5,439	30	5,729	31
Rear-end	6,891	11	6,844	5	6,752	11	6,279	13	6,610	4
Rear-end left turn	428	1	501	0	531	2	448	1	500	1
Rear-end right turn	276	0	323	0	273	0	258	0	260	0
Sideswipe same direction	2,948	1	3,076	2	3,175	0	3,133	4	3,200	3
Sideswipe opposite direction	689	4	670	3	692	2	670	4	625	2
Backing	0	0	347	0	616	0	885	1	892	0
Other / Unknown	1,796	4	1,865	4	1,686	10	1,620	15	1,442	5
Uncoded and Errors	0	0	15	0	0	0	0	0	0	0
Total	40,633	151	42,237	146	42,593	160	42,391	160	43,498	154

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	2	4	1	1	0	0	0	0	1
16 - 20	127	100	60	73	1	5	29	14	24
21 - 24	201	168	130	162	0	16	49	45	52
25 - 64	1,423	1,156	917	1,084	0	73	273	343	395
65 +	108	95	50	58	1	3	16	14	24
Unknown	100	0	0	0	0	0	0	0	0
Total	1,961	1,523	1,158	1,378	2	97	367	416	496

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 1,961 drivers in alcohol-involved crashes; 1,378 (70.3%) of those drivers were coded as had-been-drinking by the officer on the crash form.

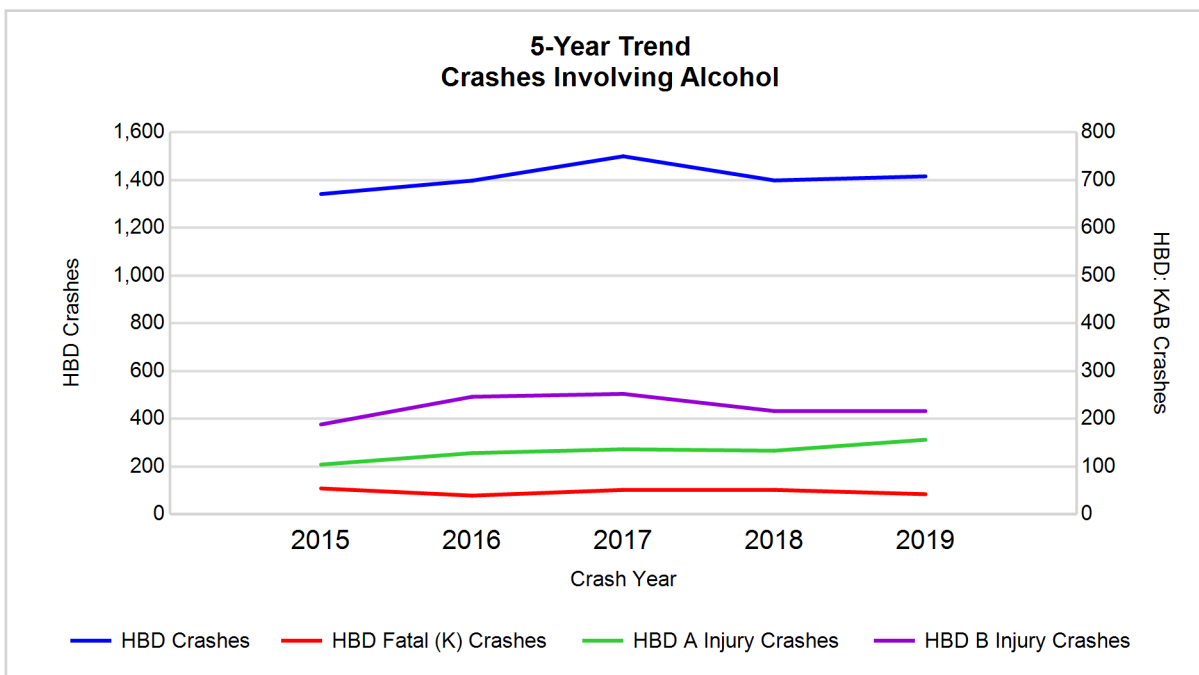
- 783 (56.8%) of the 1,378 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 416 (53.1%) of the 783 drivers had a BAC at or above 0.17 g/dL.
- 1,158 (84.0%) of the 1,378 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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	40,633	1,341	3.3	151	54	35.8	545	104	19.1	1,771	188	10.6
2016	42,237	1,397	3.3	146	39	26.7	707	128	18.1	2,071	246	11.9
2017	42,593	1,499	3.5	160	51	31.9	722	136	18.8	2,108	252	12.0
2018	42,391	1,398	3.3	160	51	31.9	656	133	20.3	1,981	216	10.9
2019	43,498**	1,415	3.3	154	42	27.3	720	156**	21.7**	1,993	216	10.8

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

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



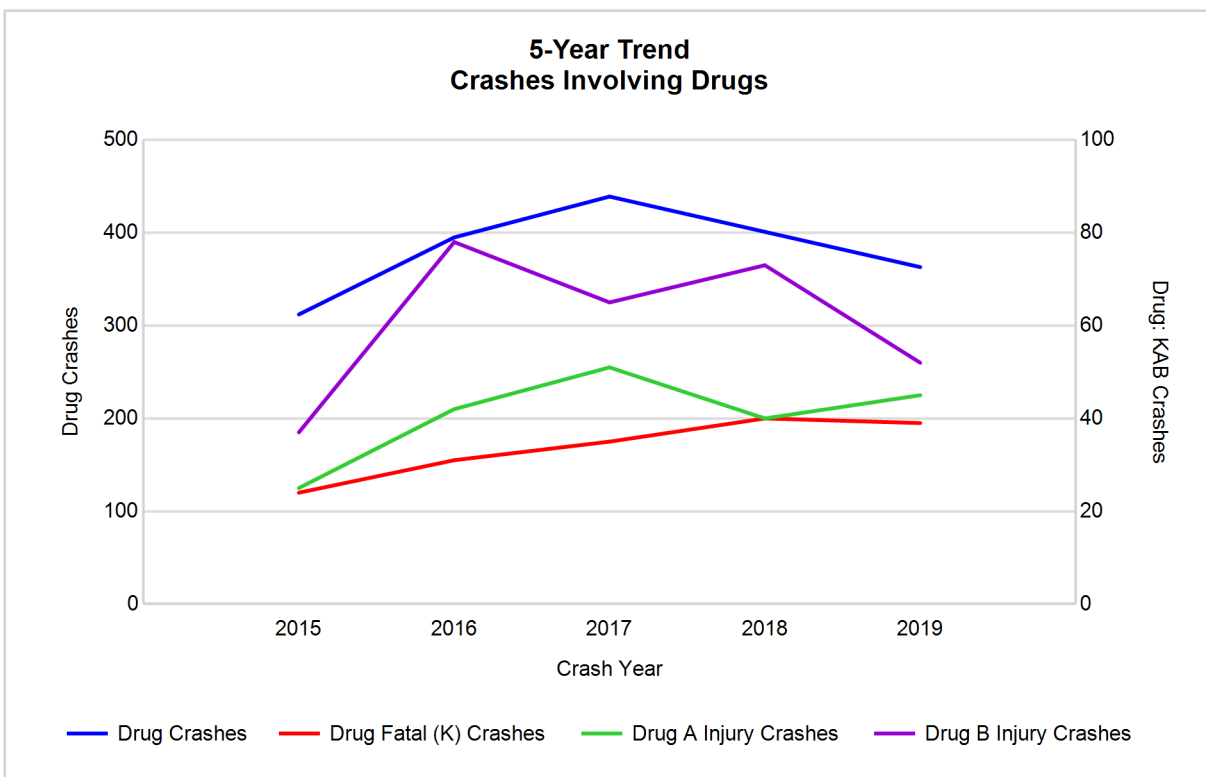
Note: Had-Been-Drinking (HBD)

5-Year Trend - Crashes Involving Drugs

Year	All Crashes	Drug Crashes	% Drug	Fatal Crashes	Drug Fatal Crashes	% Drug	A Injury Crashes	Drug A Injury Crashes	% Drug	B Injury Crashes	Drug B Injury Crashes	% Drug
2015	40,633	312	0.8	151	24	15.9	545	25	4.6	1,771	37	2.1
2016	42,237	395	0.9	146	31	21.2	707	42	5.9	2,071	78	3.8
2017	42,593	439	1.0	160	35	21.9	722	51	7.1	2,108	65	3.1
2018	42,391	401	0.9	160	40	25.0	656	40	6.1	1,981	73	3.7
2019	43,498**	363	0.8	154	39	25.3**	720	45	6.3	1,993	52	2.6

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

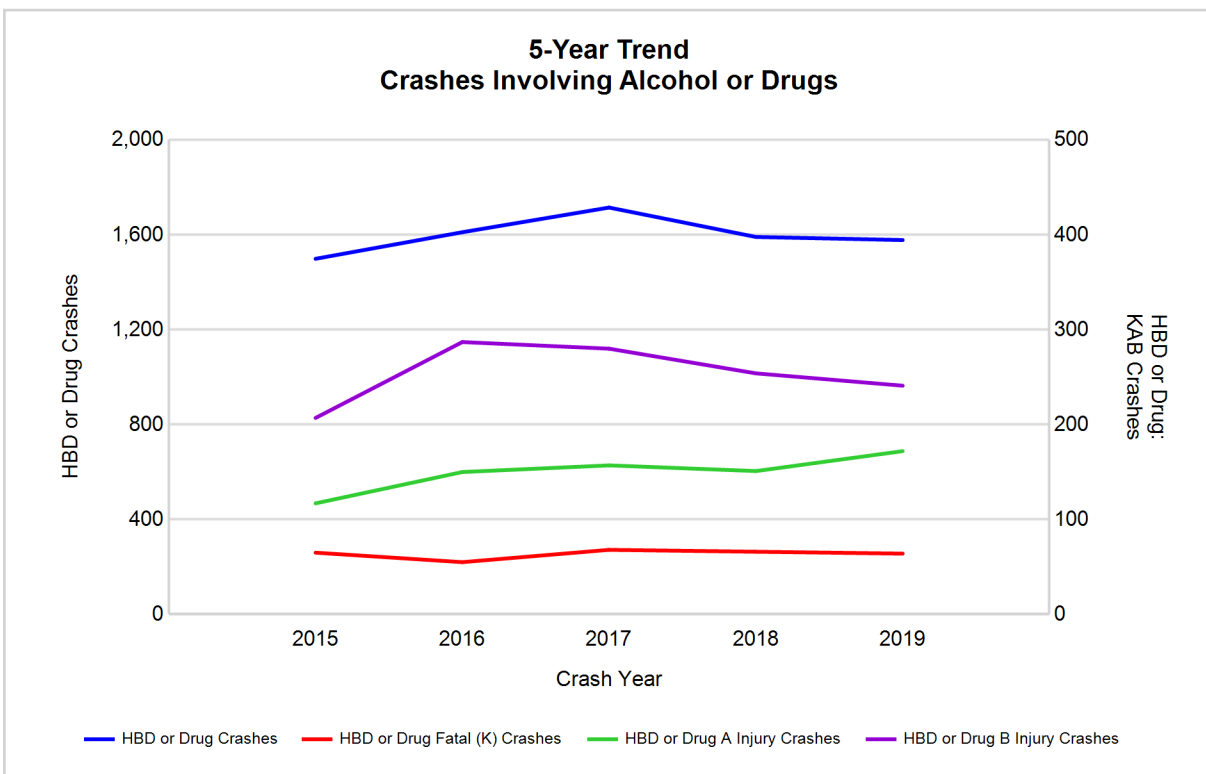


5-Year Trend - Crashes Involving Alcohol or Drugs

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	40,633	1,499	3.7	151	65	43.0	545	117	21.5	1,771	207	11.7
2016	42,237	1,611	3.8	146	55	37.7	707	150	21.2	2,071	287	13.9
2017	42,593	1,715	4.0	160	68	42.5	722	157	21.7	2,108	280	13.3
2018	42,391	1,591	3.8	160	66	41.3	656	151	23.0	1,981	254	12.8
2019	43,498**	1,578	3.6*	154	64	41.6	720	172**	23.9**	1,993	241	12.1

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)

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	52,213	48,367	92.6	102	57	55.9	520	404	77.7	1,767	1,577	89.2	5,322	5,074	95.3	42,243	41,255	97.7
Motor home	173	162	93.6	0	0	0.0	1	1	100.0	9	9	100.0	16	16	100.0	141	136	96.5
Pickup truck	11,619	10,735	92.4	26	14	53.8	120	86	71.7	375	329	87.7	803	759	94.5	9,798	9,547	97.4
Small truck under 10,000 lbs. GVWR	305	273	89.5	0	0	0.0	7	6	85.7	7	4	57.1	17	16	94.1	253	247	97.6
Motorcycle	455	251	55.2	15	5	33.3	117	58	49.6	151	91	60.3	73	49	67.1	85	48	56.5
Moped / goped	40	10	25.0	0	0	0.0	5	0	0.0	13	3	23.1	12	4	33.3	8	3	37.5
Go-cart / golf cart	13	3	23.1	2	0	0.0	3	0	0.0	1	0	0.0	1	0	0.0	6	3	50.0
Snowmobile	2	2	100.0	0	0	0.0	0	0	0.0	1	1	100.0	0	0	0.0	1	1	100.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	64	21	32.8	0	0	0.0	14	3	21.4	21	11	52.4	14	4	28.6	13	3	23.1
Other	284	177	62.3	1	0	0.0	4	1	25.0	6	2	33.3	13	9	69.2	216	165	76.4
Truck/bus over 10,000 lbs.	1,789	1,618	90.4	1	1	100.0	9	5	55.6	28	21	75.0	93	43	46.2	1,591	1,548	97.3
Unknown	843	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	6	0	0.0
Total	67,800	61,619	90.9	147	77	52.4	800	564	70.5	2,379	2,048	86.1	6,364	5,974	93.9	54,361	52,956	97.4

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

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	725	645	89.0	4	1	25.0	40	29	72.5	138	117	84.8	466	429	92.1	77	69	89.6
16 - 20	7,619	7,327	96.2	9	5	55.6	103	67	65.0	377	331	87.8	817	756	92.5	6,301	6,168	97.9
21 - 24	6,041	5,788	95.8	8	4	50.0	83	53	63.9	220	184	83.6	556	507	91.2	5,165	5,040	97.6
25 - 64	41,451	39,782	96.0	99	48	48.5	479	331	69.1	1,278	1,079	84.4	3,650	3,424	93.8	35,871	34,900	97.3
65 +	8,281	8,066	97.4	27	19	70.4	95	84	88.4	365	336	92.1	873	856	98.1	6,905	6,771	98.1
Unknown	3,683	11	0.3	0	0	0.0	0	0	0.0	1	1	100.0	2	2	100.0	42	8	19.0
Total	67,800	61,619	90.9	147	77	52.4	800	564	70.5	2,379	2,048	86.1	6,364	5,974	93.9	54,361	52,956	97.4

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

5-Year Trend - Restraint Use Among Drivers

Restraint Use	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	386	4	64	189	1	31	146	1	41	111	1	23	109	1	11
Shoulder belt only used	73	0	7	173	0	26	277	0	37	252	0	30	308	0	44
Lap belt only used	363	0	37	247	1	27	186	0	23	180	0	31	150	0	19
Both lap & shoulder belts used	55,484	44	5,839	57,641	44	6,568	58,186	47	6,496	57,133	47	6,213	58,778	58	6,228
No belts used	549	27	238	524	24	236	525	32	255	520	29	246	477	30	231
Child restraint used	2	0	0	10	0	0	5	0	0	3	0	1	0	0	0
Child restraint not used, unavailable or improper use	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Restraint failure	27	0	1	19	0	3	22	0	5	12	0	2	16	0	2
Restraint use unknown	1,996	8	183	3,875	9	190	4,614	8	209	4,541	15	201	4,768	10	226
Helmet worn	343	8	246	377	6	289	276	10	206	285	10	218	255	4	196
Helmet not worn	192	14	138	235	14	165	183	13	146	185	7	143	201	7	151
Helmet use unknown	45	2	19	47	1	29	18	1	9	20	1	12	31	2	21
Uncoded & errors	2,629	0	5	1,061	0	0	306	0	0	303	0	1	258	0	0
Total	62,090	107	6,777	64,398	100	7,564	64,744	112	7,427	63,545	110	7,121	65,351	112	7,129

5-Year Trend - Restraint Use Among Drivers Coded Drinking

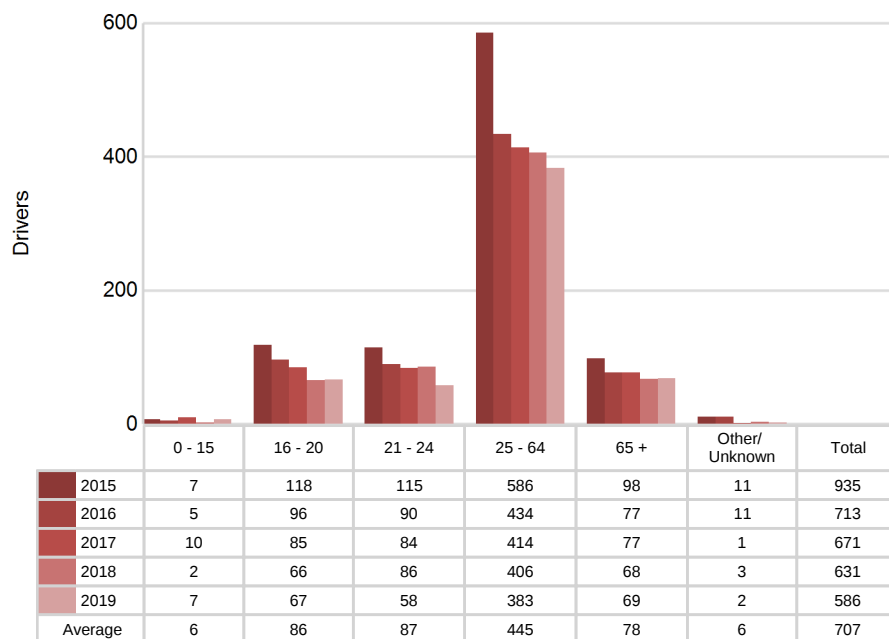
Restraint Use	2015			2016			2017			2018			2019		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	10	1	8	4	0	3	4	0	2	6	0	2	1	0	0
Shoulder belt only used	2	0	0	6	0	1	9	0	3	6	0	0	9	0	2
Lap belt only used	10	0	5	4	0	1	4	0	2	1	0	1	3	0	2
Both lap & shoulder belts used	932	10	233	989	6	300	1,041	8	311	966	9	300	976	8	280
No belts used	109	13	73	110	8	74	127	12	89	116	13	75	118	14	80
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	1	0	0	2	0	1	0	0	0	0	0	0	3	0	1
Restraint use unknown	189	3	53	205	4	53	234	5	62	237	5	70	233	3	71
Helmet worn	18	2	14	17	0	16	17	0	14	14	1	11	3	0	3
Helmet not worn	40	10	24	41	5	30	45	8	34	31	3	24	31	2	25
Helmet use unknown	5	0	5	2	1	1	1	1	0	4	0	3	1	0	0
Uncoded & errors	6	0	1	0	0	0	1	0	0	0	0	0	0	0	0
Total	1,322	39	416	1,380	24	480	1,483	34	517	1,381	31	486	1,378	27	464

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	7	1	4	5	0	2	10	0	6	2	0	2	7	0	2
16 - 20	118	3	40	96	2	39	85	0	49	66	2	26	67	1	38
21 - 24	115	3	42	90	2	41	84	6	46	86	2	50	58	3	31
25 - 64	586	18	187	434	13	158	414	20	169	406	20	171	383	23	148
65 +	98	6	26	77	8	27	77	7	26	68	6	20	69	4	23
Unknown	11	0	3	11	0	0	1	0	0	3	0	0	2	0	0
Total	935	31	302	713	25	267	671	33	296	631	30	269	586	31	242

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

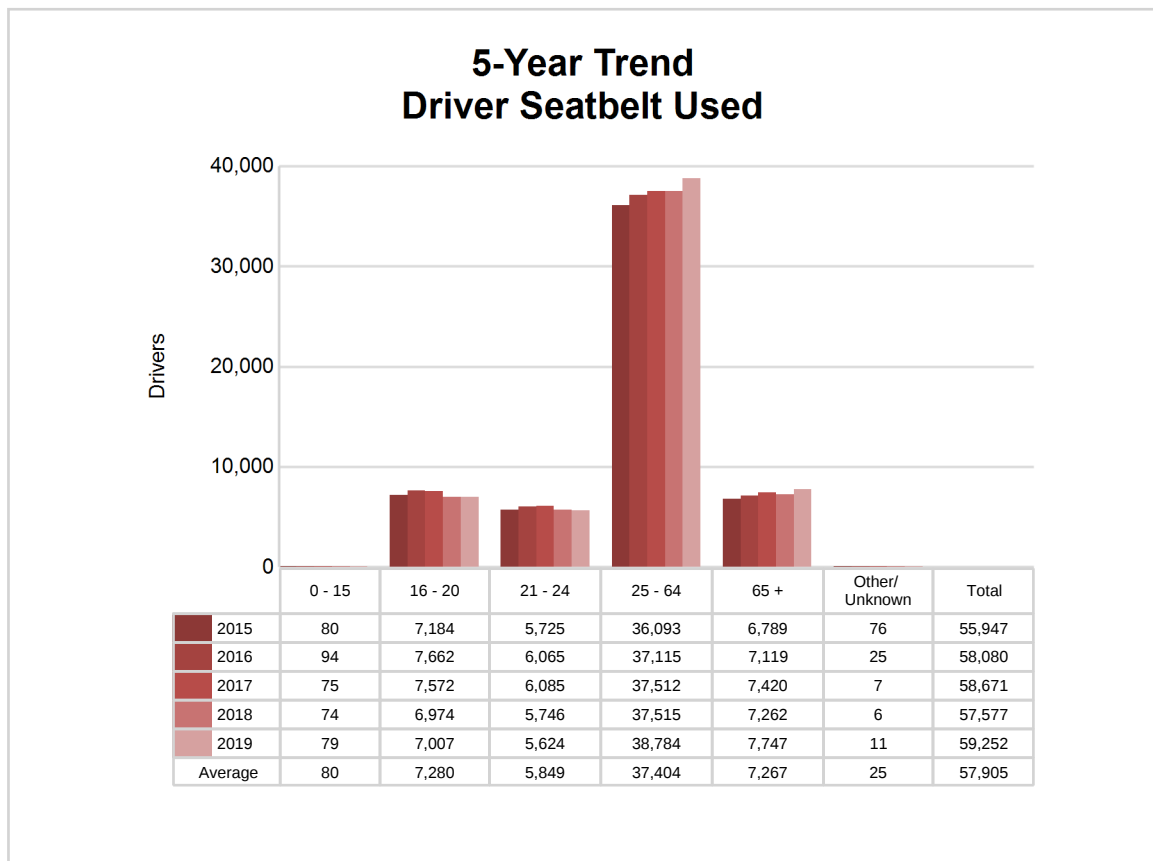
5-Year Trend Driver Seatbelt Not Used



5-Year Trend - Seatbelt Used Among Drivers by Age

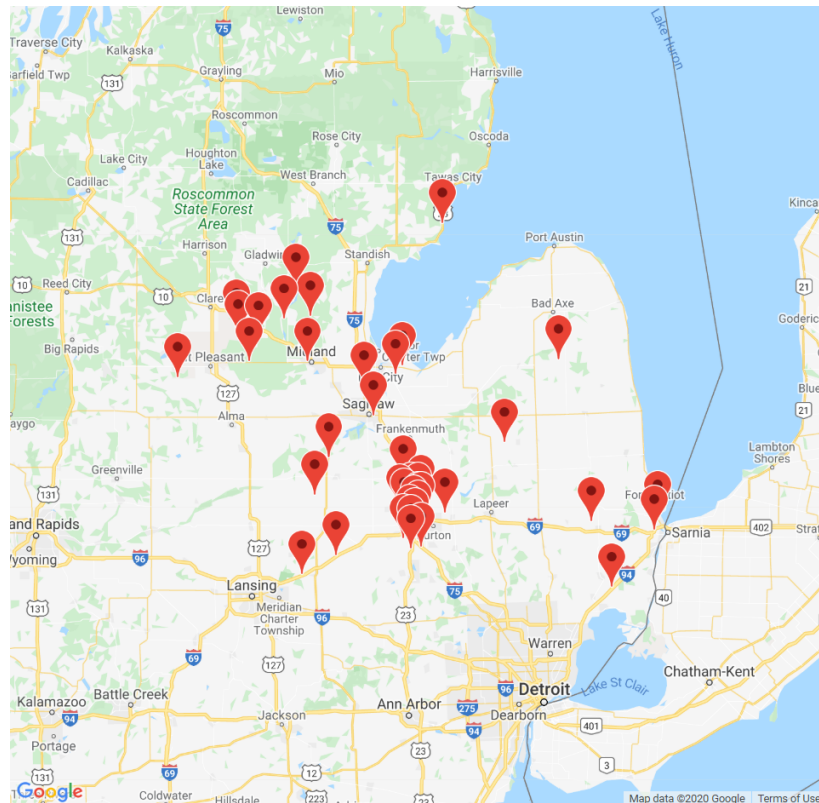
Age Group	2015			2016			2017			2018			2019		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
0 - 15	80	0	7	94	0	8	75	0	13	74	1	12	79	0	12
16 - 20	7,184	3	839	7,662	3	916	7,572	4	876	6,974	5	792	7,007	4	842
21 - 24	5,725	1	626	6,065	4	681	6,085	5	713	5,746	1	620	5,624	3	587
25 - 64	36,093	27	3,611	37,115	27	4,080	37,512	20	4,036	37,515	28	3,923	38,784	36	3,884
65 +	6,789	13	800	7,119	11	939	7,420	18	923	7,262	12	929	7,747	15	965
Unknown	76	0	1	25	0	0	7	0	0	6	0	0	11	0	3
Total	55,947	44	5,884	58,080	45	6,624	58,671	47	6,561	57,577	47	6,276	59,252	58	6,293

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



5-Year Trend - Drivers in Crashes by Hazardous Action

Hazardous Action	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	34,784	100	35,274	93	35,697	100	35,169	115	37,155	100
Speed too fast	4,448	35	4,868	23	4,540	17	5,265	32	4,571	27
Speed too slow	64	1	51	0	47	0	52	1	22	0
Failed to yield	5,427	21	5,634	17	5,763	24	5,441	14	5,525	17
Disregard traffic control	1,501	11	1,482	12	1,373	15	1,377	19	1,388	11
Drove wrong way	56	1	52	5	39	1	41	2	35	0
Drove left of center	331	7	402	10	365	11	362	12	348	14
Improper passing	273	0	311	1	328	1	296	3	349	3
Improper lane use	1,009	2	1,021	2	1,095	2	1,227	0	1,235	3
Improper turn	732	0	688	1	728	2	630	0	698	1
Improper/no signal	94	0	70	0	60	0	54	0	61	0
Improper backing	1,077	1	1,083	1	897	0	963	0	936	0
Unable to stop in assured clear distance	6,551	8	6,818	5	6,687	4	6,149	15	6,570	5
Other	2,047	16	2,207	14	2,121	14	2,040	16	2,114	12
Unknown	1,206	22	1,892	22	2,367	24	2,100	20	2,075	24
Reckless driving	368	5	305	4	319	11	302	7	311	7
Careless/negligent driving	1,921	11	1,856	11	1,954	14	1,758	16	1,713	18
Uncoded & errors	201	0	384	1	364	3	319	3	245	3
Total	62,090	241	64,398	222	64,744	243	63,545	275	65,351	245



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

In 2019, there were 1,415 alcohol-involved crashes in MDOT Region - Bay:

42	K - Fatal Crashes
156	A - Suspected Serious Injury Crashes
216	B - Suspected Minor Injury Crashes
235	C - Possible Injury Crashes
766	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

