



2020

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)



Michigan Commercial Motor Vehicles

2020 Traffic Crash Data & 2016-2020 5-Year Trends

Summary Trends

Year	Total Crashes	Fatal Crashes	Injury Crashes	Fatalities	Injuries
2016	11,981	104	2,085	120	3,012
2017	12,886	84	2,344	95	3,328
2018	14,803	102	2,509	112	3,543
2019	15,798	98	2,642	106	3,685
2020	11,344	77	1,929	78	2,636

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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Commercial Motor Vehicle Experience

In 2020:

There were 21,513 drivers involved in 11,344 commercial motor vehicle crashes in Michigan. Of those crashes, 77 were classified as fatal, resulting in 78 fatalities. An additional 2,636 persons were injured.

Michigan experienced the highest number of commercial motor vehicle crashes (1,232) in February, the highest number of fatal crashes (12) and the highest number of persons killed (12) in August.

Michigan driver statistics indicate 6.1 percent of licensed drivers were age 16-20, and 4.7 percent of drivers in crashes were also in that age group.

2020 - Crashes and Injuries by Month

Month	Crashes				Persons	
	Total	Fatal	Injury	Property Damage Only (PDO)	Fatalities	Injuries
January	1,217	4	182	1,031	4	242
February	1,232	5	185	1,042	5	259
March	676	3	106	567	3	148
April	419	4	68	347	4	98
May	596	8	116	472	8	160
June	962	11	174	777	11	242
July	1,054	8	207	839	8	274
August	1,017	12	203	802	12	284
September	1,089	5	205	879	5	265
October	1,167	10	189	968	10	269
November	982	3	143	836	3	194
December	933	4	151	778	5	201
Total	11,344	77	1,929	9,338	78	2,636

2020 - Driver Statistics

Age Group	Statewide			Driver Rates	
	2019 Population*	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	1,889,940	38,483	13	0.1	3.4
16 - 20	651,147	434,960	1,013	15.6	23.3
21 - 24	548,369	428,832	1,463	26.7	34.1
25 - 64	5,132,000	4,611,532	15,543	30.3	33.7
65 +	1,765,401	1,604,390	1,804	10.2	11.2
Unknown	0	0	1,677	- -	- -
Total	9,986,857	7,118,197	21,513	21.5	30.2

*2020 Population of Michigan Counties (by single-year of age) not yet available from U.S. Census Bureau

2020 - 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	8,004	37.2	64	40.3	1,747	6,193
Motor home	18	0.1	0	0.0	2	16
Pickup truck	1,256	5.8	12	7.5	259	985
Small truck under 10,000 lbs. GVWR	50	0.2	0	0.0	6	44
Motorcycle	29	0.1	4	2.5	19	6
Moped / goped	1	0.0	1	0.6	0	0
Go-cart / golf cart	1	0.0	0	0.0	0	1
Snowmobile	1	0.0	0	0.0	0	1
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	1	0.0	0	0.0	1	0
Other	59	0.3	0	0.0	7	52
Truck/bus over 10,000 lbs.	11,867	55.2	78	49.1	2,001	9,788
Unknown	226	1.1	0	0.0	4	222
Total	21,513	100.0	159	100.0	4,046	17,308

Commercial Motor Vehicles (continued)

5-Year Trend - Crashes by Month

Month	2016		2017		2018		2019		2020	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
January	1,103	7	1,157	14	1,719	6	1,682	9	1,217	4
February	1,031	3	860	1	1,468	9	1,366	3	1,232	5
March	937	3	1,167	7	1,145	8	1,072	9	676	3
April	848	9	827	7	1,056	11	1,046	7	419	4
May	958	7	1,180	3	1,112	9	1,236	13	596	8
June	928	11	1,015	4	1,311	8	1,076	5	962	11
July	830	10	870	4	997	7	1,302	8	1,054	8
August	1,012	8	943	8	1,089	9	1,273	7	1,017	12
September	1,088	14	1,029	10	1,187	13	1,292	8	1,089	5
October	1,030	8	1,239	8	1,428	6	1,577	13	1,167	10
November	1,025	15	1,070	13	1,369	8	1,665	8	982	3
December	1,191	9	1,529	5	922	8	1,211	8	933	4
Total	11,981	104	12,886	84	14,803	102	15,798	98	11,344	77

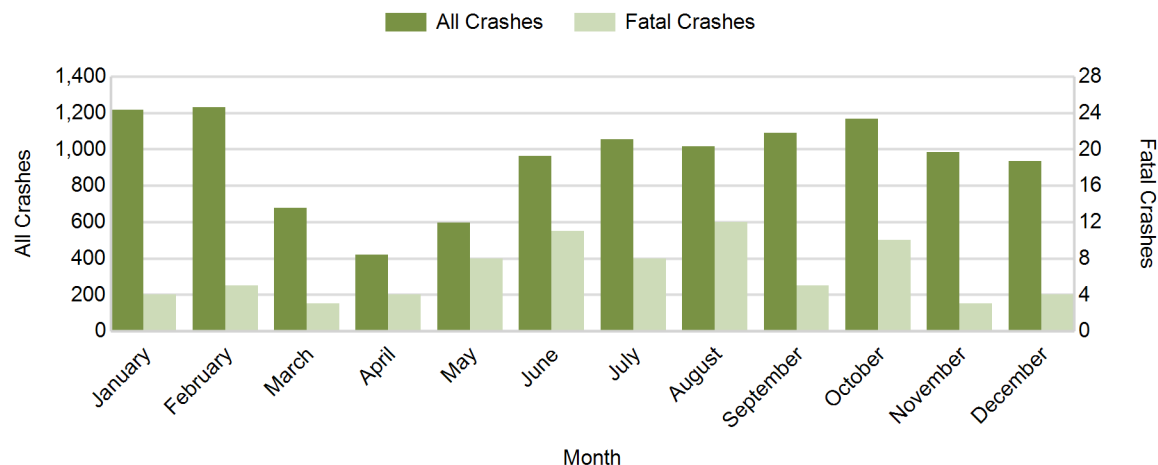
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

5-Year Trend - Crashes by Day of Week

Day	2016		2017		2018		2019		2020	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Sunday	414	4	371	2	519	8	527	6	428	4
Monday	2,153	18	2,317	14	2,710	19	2,966	16	1,960	25
Tuesday	2,312	18	2,382	12	2,785	21	3,176	16	2,017	9
Wednesday	2,208	16	2,385	16	2,618	17	3,077	13	2,125	12
Thursday	2,209	23	2,375	16	2,569	13	2,602	21	2,144	10
Friday	2,004	19	2,324	19	2,688	17	2,546	19	1,913	8
Saturday	681	6	732	5	914	7	904	7	757	9
Total	11,981	104	12,886	84	14,803	102	15,798	98	11,344	77

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

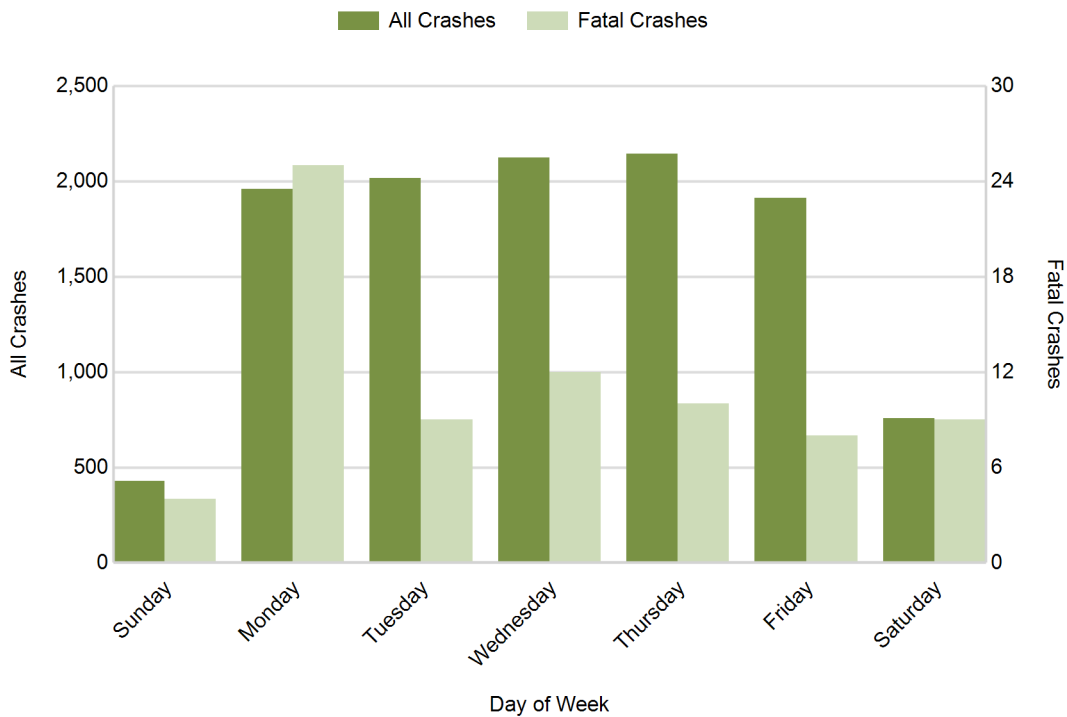
2020 Crashes by Month



2020 - Crashes by Day of Week

Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Sunday	428	3.8	4	5.2	12	29	48	335
Monday	1,960	17.3	25	32.5	43	89	163	1,640
Tuesday	2,017	17.8	9	11.7	44	116	206	1,642
Wednesday	2,125	18.7	12	15.6	37	108	198	1,770
Thursday	2,144	18.9	10	13.0	40	98	226	1,770
Friday	1,913	16.9	8	10.4	30	125	178	1,572
Saturday	757	6.7	9	11.7	20	43	76	609
Total	11,344	100.0	77	100.0	226	608	1,095	9,338

2020 Day of Week and Severity

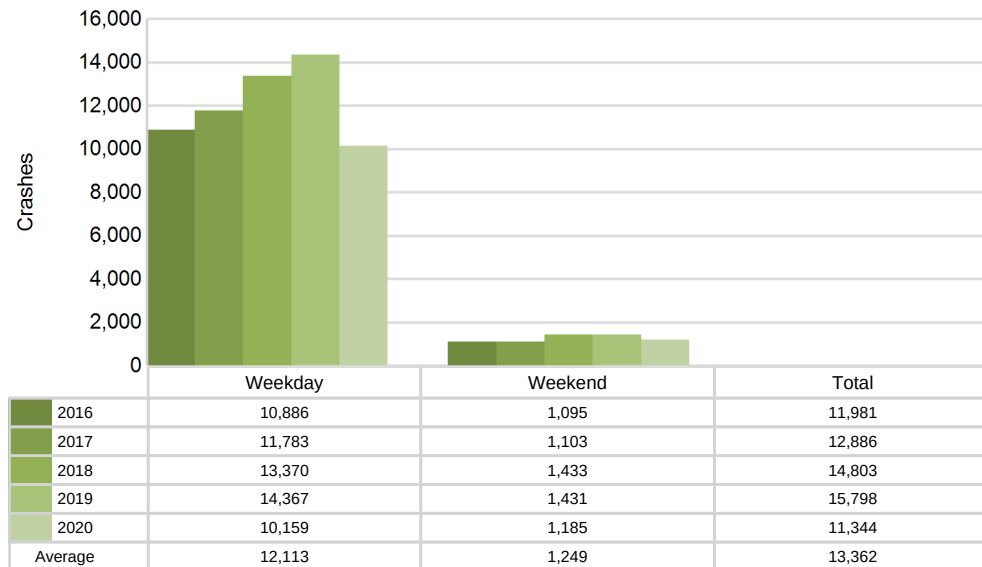


Commercial Motor Vehicles (continued)

5-Year Trend - Crashes by Weekday and Weekend

Portion of Week	2016		2017		2018		2019		2020	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Weekday	10,886	94	11,783	77	13,370	87	14,367	85	10,159	64
Weekend	1,095	10	1,103	7	1,433	15	1,431	13	1,185	13
Total	11,981	104	12,886	84	14,803	102	15,798	98	11,344	77

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



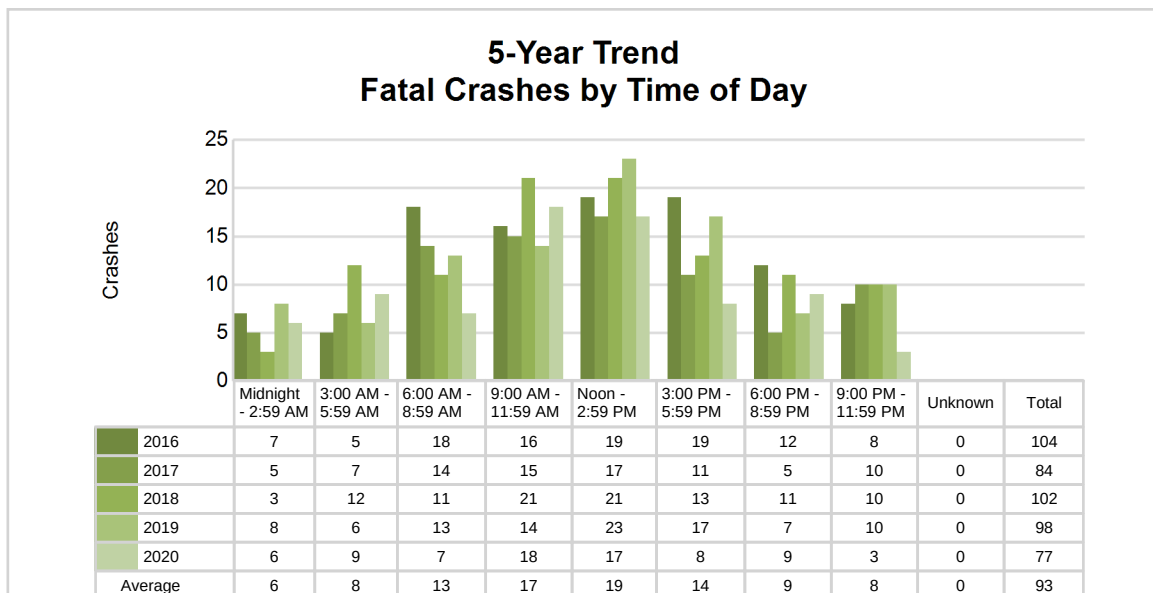
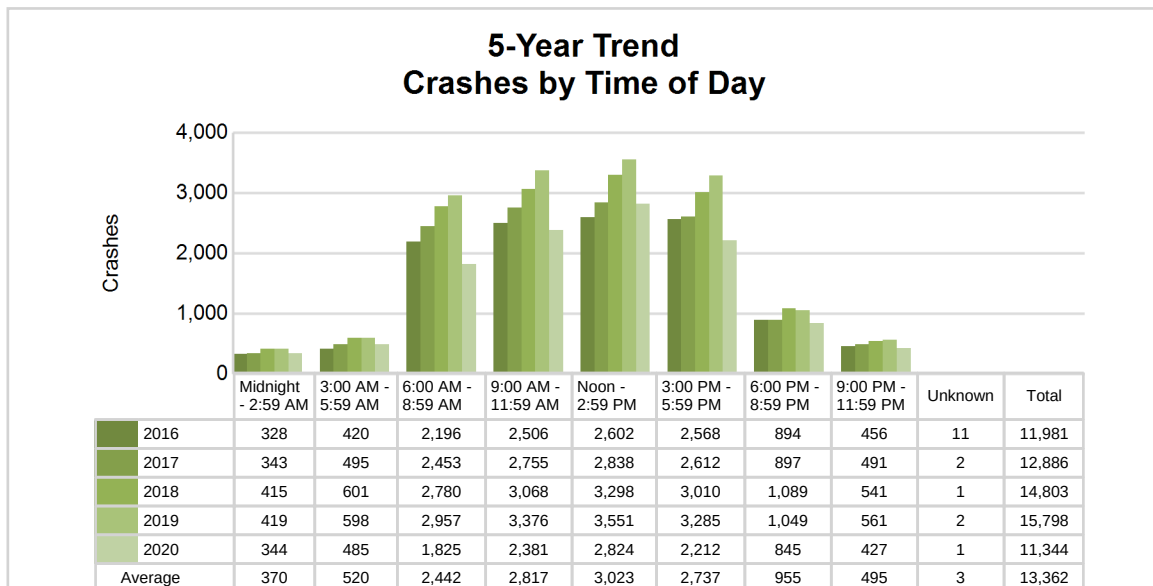
Commercial Motor Vehicles (continued)

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5-Year Trend - Crashes by Time of Day

Time of Day	2016		2017		2018		2019		2020	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	328	7	343	5	415	3	419	8	344	6
3:00 AM - 5:59 AM	420	5	495	7	601	12	598	6	485	9
6:00 AM - 8:59 AM	2,196	18	2,453	14	2,780	11	2,957	13	1,825	7
9:00 AM - 11:59 AM	2,506	16	2,755	15	3,068	21	3,376	14	2,381	18
Noon - 2:59 PM	2,602 †	19	2,838 †	17	3,298 †	21	3,551 †	23	2,824 †	17
3:00 PM - 5:59 PM	2,568	19	2,612	11	3,010	13	3,285	17	2,212	8
6:00 PM - 8:59 PM	894	12	897	5	1,089	11	1,049	7	845	9
9:00 PM - 11:59 PM	456	8	491	10	541	10	561	10	427	3
Unknown	11	0	2	0	1	0	2	0	1	0
Total	11,981	104	12,886	84	14,803	102	15,798	98	11,344	77

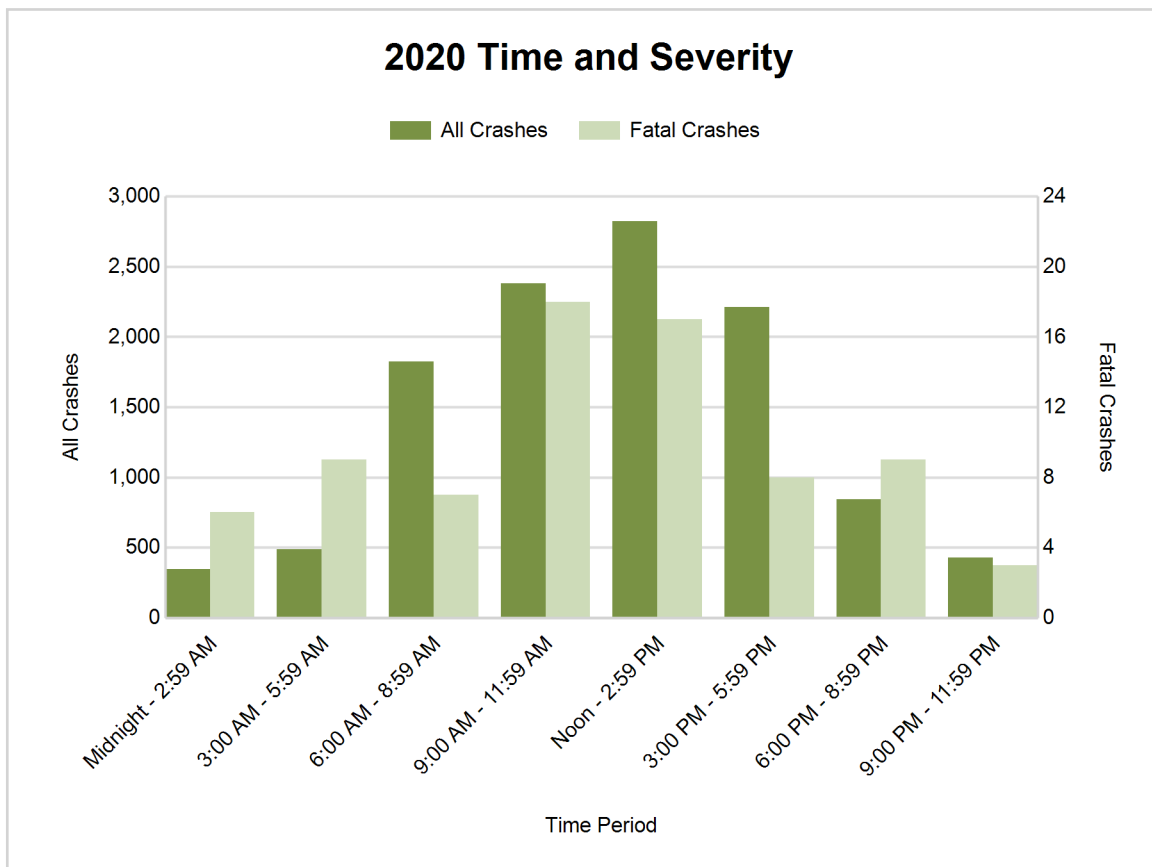
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same time period



Commercial Motor Vehicles (continued)

2020 - 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	344	3.0	6	7.8	15	22	41	260
3:00 AM - 5:59 AM	485	4.3	9	11.7	20	24	45	387
6:00 AM - 8:59 AM	1,825	16.1	7	9.1	35	91	179	1,513
9:00 AM - 11:59 AM	2,381	21.0	18	23.4	35	128	204	1,996
Noon - 2:59 PM	2,824	24.9	17	22.1	43	146	283	2,335
3:00 PM - 5:59 PM	2,212	19.5	8	10.4	47	134	205	1,818
6:00 PM - 8:59 PM	845	7.4	9	11.7	21	41	88	686
9:00 PM - 11:59 PM	427	3.8	3	3.9	10	22	50	342
Unknown	1	0.0	0	0.0	0	0	0	1
Total	11,344	100.0	77	100.0	226	608	1,095	9,338



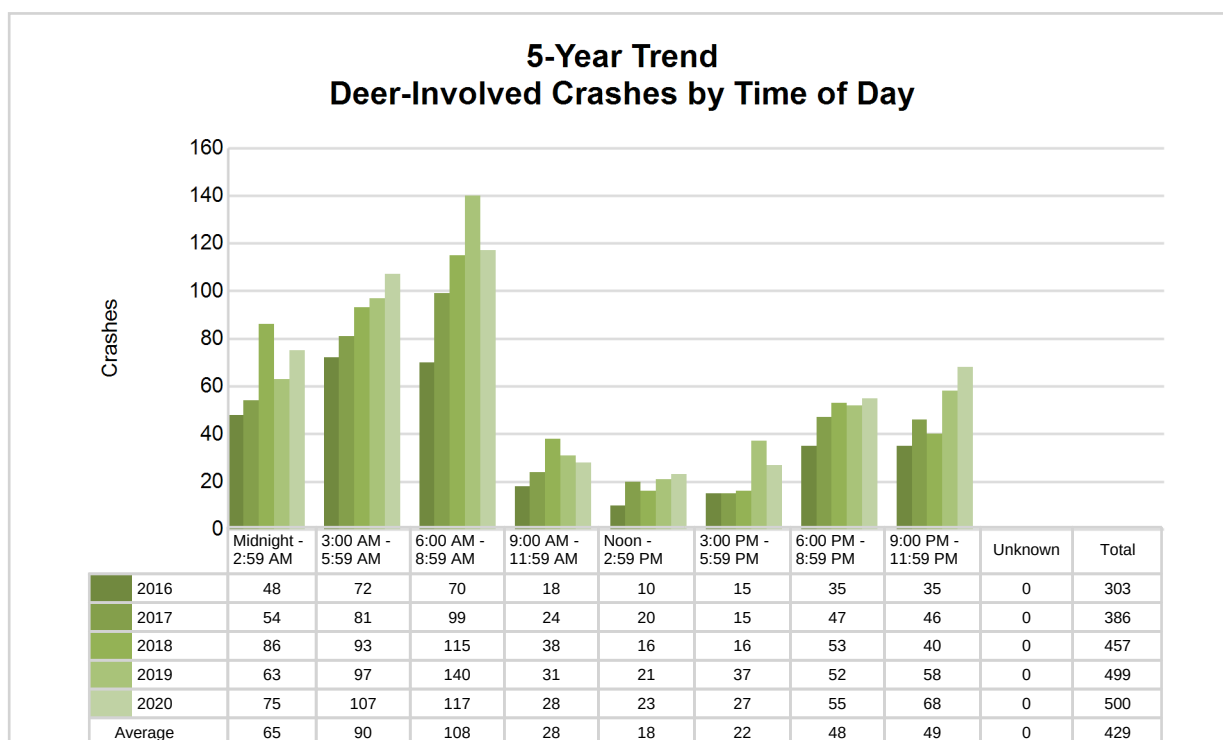
Commercial Motor Vehicles (continued)

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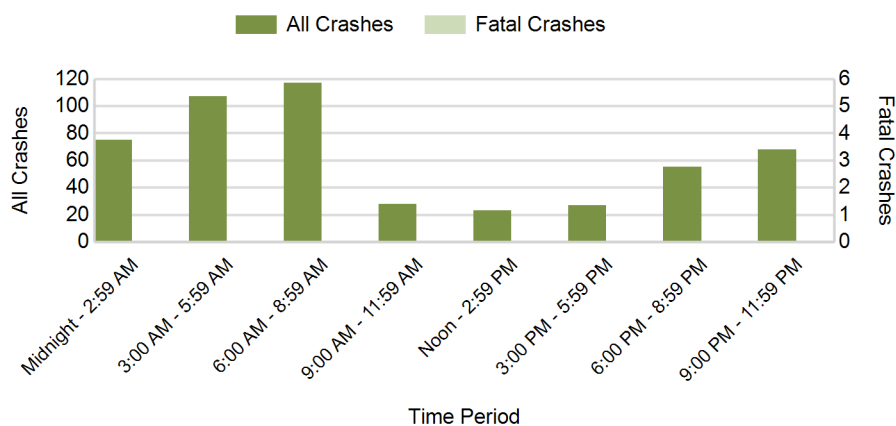
5-Year Trend - Deer-Involved Crashes by Time of Day

Time of Day	2016		2017		2018		2019		2020	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	48	0	54	0	86	0	63	0	75	0
3:00 AM - 5:59 AM	72	0	81	0	93	0	97	0	107	0
6:00 AM - 8:59 AM	70	0	99	0	115	0	140	0	117	0
9:00 AM - 11:59 AM	18	0	24	0	38	0	31	0	28	0
Noon - 2:59 PM	10	0	20	0	16	0	21	0	23	0
3:00 PM - 5:59 PM	15	0	15	0	16	0	37	0	27	0
6:00 PM - 8:59 PM	35	0	47	0	53	0	52	0	55	0
9:00 PM - 11:59 PM	35	0	46	0	40	0	58	0	68	0
Unknown	0	0	0	0	0	0	0	0	0	0
Total	303	0	386	0	457	0	499	0	500	0

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



2020 Time and Severity of Deer-Involved Crashes



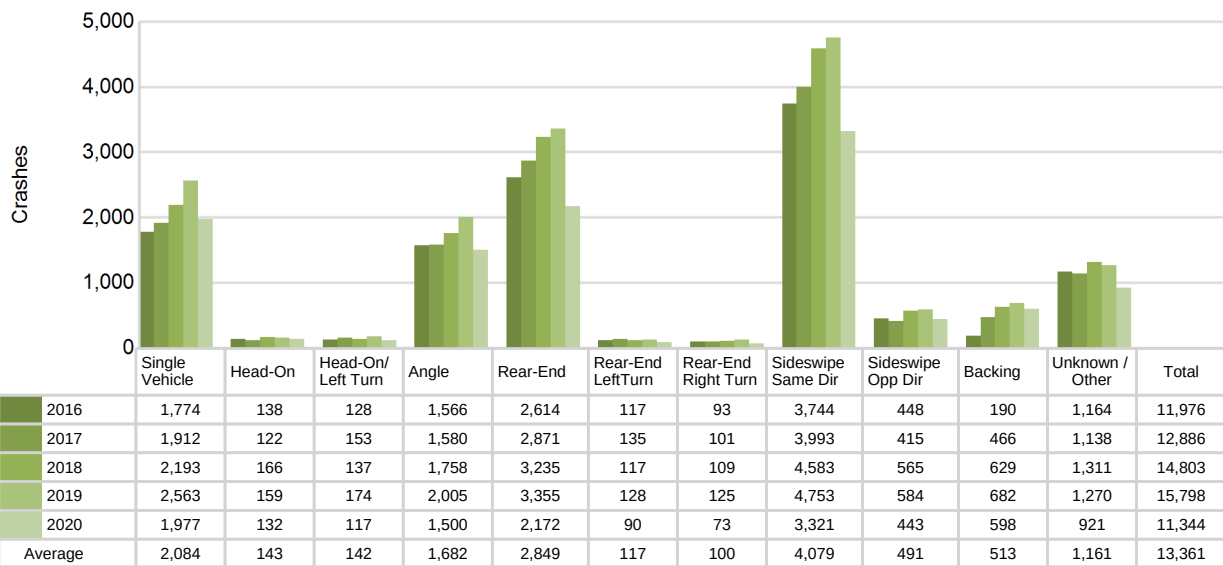
There were no fatal deer-involved commercial motor vehicle crashes in Michigan in 2020

Commercial Motor Vehicles (continued)

5-Year Trend - Crashes by Crash Type

Crash Type	2016		2017		2018		2019		2020	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Single motor vehicle	1,774	16	1,912	6	2,193	5	2,563	11	1,977	16
Head-on	138	17	122	16	166	20	159	18	132	14
Head-on / left turn	128	6	153	3	137	0	174	4	117	0
Angle	1,566	26	1,580	19	1,758	24	2,005	31	1,500	19
Rear-end	2,614	24	2,871	28	3,235	27	3,355	19	2,172	14
Rear-end left turn	117	5	135	1	117	4	128	0	90	2
Rear-end right turn	93	0	101	0	109	0	125	0	73	0
Sideswipe same direction	3,744	3	3,993	5	4,583	5	4,753	7	3,321	3
Sideswipe opposite direction	448	6	415	0	565	2	584	2	443	3
Backing	190	0	466	0	629	2	682	0	598	0
Other / Unknown	1,164	1	1,138	6	1,311	13	1,270	6	921	6
Uncoded and Errors	5	0	0	0	0	0	0	0	0	0
Total	11,981	104	12,886	84	14,803	102	15,798	98	11,344	77

5-Year Trend Crashes by Crash Type



Commercial Motor Vehicles (continued)

2020 - 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
Alcona	7	0	0	7	0	4	0	3	0	0	4	0	0
Alger	13	1	3	9	0	1	10	2	0	0	2	1	7
Allegan	168	3	25	140	31	35	39	63	5	4	16	3	35
Alpena	21	0	2	19	0	7	8	5	1	0	4	0	3
Antrim	11	1	2	8	0	3	0	8	1	0	2	2	6
Arenac	17	0	2	15	6	4	2	5	1	1	4	0	3
Baraga	11	0	4	7	0	7	1	3	0	0	1	0	7
Barry	20	0	6	14	0	0	10	10	1	0	0	0	7
Bay	99	1	12	86	15	4	36	44	1	1	3	1	15
Benzie	12	0	1	11	0	7	2	3	0	0	1	0	1
Berrien	226	2	45	179	106	26	20	74	6	3	22	2	64
Branch	67	1	10	56	18	29	0	19	1	0	17	1	15
Calhoun	204	2	38	164	109	0	38	57	5	3	18	2	56
Cass	57	0	7	50	0	9	24	24	1	0	9	0	8
Charlevoix	24	1	3	20	0	7	6	11	0	0	4	1	4
Cheboygan	31	0	2	29	13	1	3	14	1	0	6	0	2
Chippewa	26	0	8	18	8	0	5	13	0	0	1	0	12
Clare	38	0	6	32	0	14	10	12	0	0	11	0	7
Clinton	72	0	14	58	28	17	6	21	0	0	12	0	16
Crawford	16	0	2	14	7	0	5	4	0	0	3	0	5
Delta	43	1	5	37	0	24	6	12	1	0	5	1	5
Dickinson	27	0	2	25	0	10	9	8	0	0	3	0	3
Eaton	137	2	24	111	51	0	44	42	3	2	12	2	33
Emmet	24	0	2	22	1	10	3	10	0	0	1	0	2
Genesee	381	4	78	299	93	17	62	209	7	3	13	4	107
Gladwin	16	0	3	13	0	0	8	8	0	0	1	0	3
Gogebic	13	0	2	11	0	11	2	0	0	0	4	0	2
Grand Traverse	102	0	12	90	0	32	17	53	1	0	4	0	13
Gratiot	46	0	7	39	0	20	10	16	0	0	11	0	7
Hillsdale	33	0	6	27	0	11	10	12	0	1	5	0	8
Houghton	22	0	2	20	0	9	6	7	1	0	0	0	2

Commercial Motor Vehicles (continued)

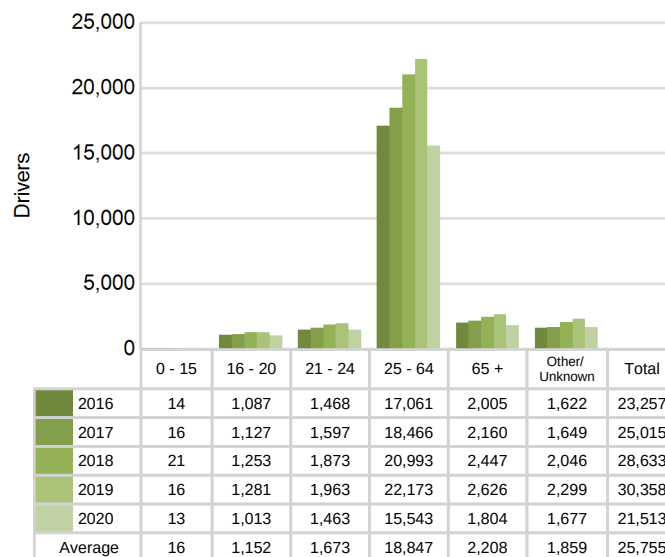
2020 - Reported Motor Vehicle Crashes by County (continued)

County	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Huron	47	1	8	38	0	0	18	29	1	0	8	1	10
Ingham	262	1	53	208	61	28	50	122	5	1	10	1	65
Ionia	66	1	13	52	22	0	18	26	3	2	5	1	17
Iosco	13	0	2	11	0	3	5	5	0	0	4	0	2
Iron	13	0	2	11	0	6	2	5	0	0	1	0	2
Isabella	62	0	13	49	0	13	14	35	0	2	9	0	25
Jackson	194	3	30	161	90	10	19	75	7	4	10	3	36
Kalamazoo	341	1	54	286	90	32	42	177	4	1	9	1	73
Kalkaska	20	0	3	17	0	6	6	8	0	0	2	0	3
Kent	803	6	130	667	121	99	180	403	12	9	19	6	175
Keweenaw	3	0	0	3	0	0	0	3	0	0	0	0	0
Lake	10	0	4	6	0	4	4	2	0	0	1	0	4
Lapeer	69	0	14	55	11	0	25	32	2	1	11	0	16
Leelanau	14	0	1	13	0	0	8	6	0	0	1	0	2
Lenawee	74	1	18	55	0	23	13	38	3	2	5	1	26
Livingston	181	1	30	150	59	28	20	74	2	4	12	1	41
Luce	6	0	1	5	0	0	4	2	0	0	0	0	1
Mackinac	23	0	3	20	8	4	7	4	0	0	5	0	3
Macomb	881	3	132	746	123	0	256	501	9	7	5	3	176
Manistee	19	0	5	14	0	7	3	9	0	1	2	0	7
Marquette	75	2	9	64	0	24	19	32	1	2	3	2	11
Mason	28	0	3	25	0	14	0	14	0	0	5	0	3
Mecosta	44	0	6	38	0	17	13	13	0	1	7	0	6
Menominee	18	0	2	16	0	7	3	8	0	0	4	0	5
Midland	72	1	16	55	0	10	13	49	1	0	8	1	33
Missaukee	16	1	1	14	0	0	12	4	0	0	1	1	2
Monroe	321	2	54	265	138	60	22	101	6	2	11	2	69
Montcalm	52	0	11	41	0	9	23	20	2	1	7	0	11
Montmorency	11	0	1	10	0	0	7	4	3	0	1	0	1
Muskegon	126	1	18	107	4	27	19	76	3	2	3	1	22
Newaygo	28	1	4	23	0	0	14	14	1	2	3	1	6
Oakland	1,269	1	204	1,064	290	108	189	681	18	12	5	1	249
Oceana	22	0	6	16	0	7	4	11	0	1	6	0	9
Ogemaw	19	0	6	13	0	0	10	8	0	0	1	0	7
Ontonagon	6	0	0	6	0	1	5	0	0	0	2	0	0
Osceola	45	4	9	32	0	26	13	6	2	2	6	4	16
Oscoda	6	0	0	6	0	0	3	3	0	0	1	0	0
Otsego	26	0	3	23	12	0	5	9	0	1	1	0	5
Ottawa	313	1	55	257	50	43	44	175	2	3	9	1	73
Presque Isle	6	0	1	5	0	1	1	4	0	0	3	0	1
Roscommon	21	0	5	16	3	3	8	7	0	0	2	0	5
Saginaw	176	1	40	135	30	0	83	63	5	2	12	1	56
St. Clair	161	1	25	135	50	0	25	86	2	2	9	1	39
St. Joseph	70	3	10	57	0	28	22	20	2	1	5	3	17
Sanilac	43	0	6	37	0	0	31	12	0	0	7	0	7
Schoolcraft	14	0	2	12	0	12	1	1	0	0	6	0	4
Shiawassee	81	2	13	66	28	0	24	29	0	1	13	2	18
Tuscola	36	1	4	31	0	0	19	17	2	0	8	1	5
Van Buren	125	1	21	103	69	0	18	38	6	1	8	1	28
Washtenaw	444	2	60	382	109	103	36	194	9	4	11	2	72
Wayne	2,533	14	473	2,046	731	159	373	1,270	33	18	5	14	699
Wexford	52	1	10	41	0	21	19	12	2	1	9	1	15
Total	11,344	77	1,929	9,338	2,585	1,262	2,174	5,309	185	111	500	78	2,636

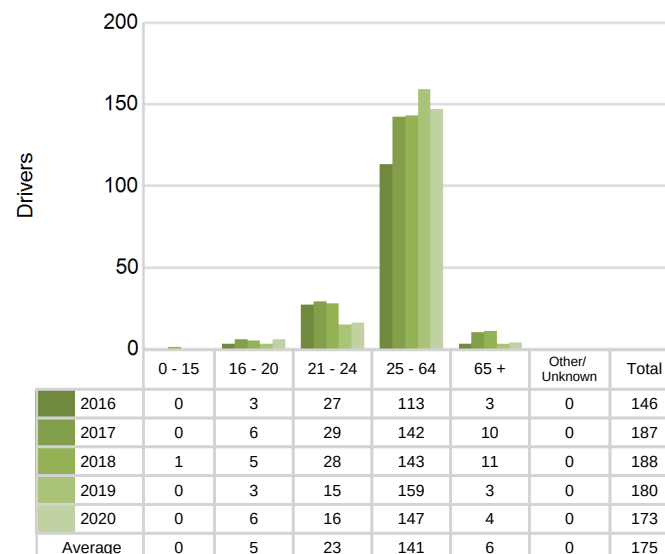
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

Driver Age	2016		2017		2018		2019		2020	
	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	14	0	16	0	21	1	16	0	13	0
16 - 20	1,087	3	1,127	6	1,253	5	1,281	3	1,013	6
21 - 24	1,468	27	1,597	29	1,873	28	1,963	15	1,463	16
25 - 64	17,061	113	18,466	142	20,993	143	22,173	159	15,543	147
65 +	2,005	3	2,160	10	2,447	11	2,626	3	1,804	4
Unknown	1,622	0	1,649	0	2,046	0	2,299	0	1,677	0
Total	23,257	146	25,015	187	28,633	188	30,358	180	21,513	173

5-Year Trend
Total Drivers in Crashes by Age



5-Year Trend
Total Drivers Coded Drinking by Age



Commercial Motor Vehicles (continued)

2020 - 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	0	0	0	0	0	0	0	0	0
16 - 20	10	14	5	6	0	1	2	0	3
21 - 24	24	29	14	16	0	3	4	3	6
25 - 64	296	290	129	147	0	15	36	49	47
65 +	15	17	3	4	0	0	2	0	2
Unknown	21	0	0	0	0	0	0	0	0
Total	366	350	151	173	0	19	44	52	58

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 2020, there were 366 drivers in alcohol-involved crashes; 173 (47.3%) of those drivers were coded as had-been-drinking by the officer on the crash form.

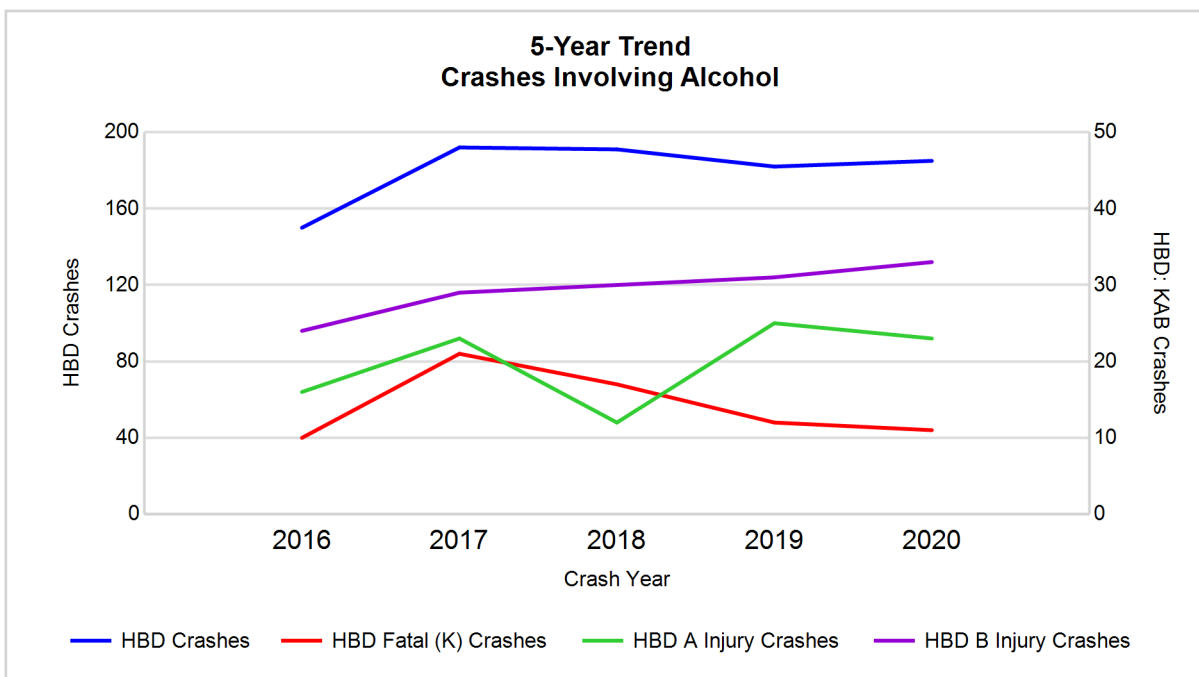
- 96 (55.5%) of the 173 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 52 (54.2%) of the 96 drivers had a BAC at or above 0.17 g/dL.
- 151 (87.3%) of the 173 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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
2016	11,981	150	1.3	104	10	9.6	233	16	6.9	566	24	4.2
2017	12,886	192	1.5	84	21	25.0	288	23	8.0	688	29	4.2
2018	14,803	191	1.3	102	17	16.7	300	12	4.0	701	30	4.3
2019	15,798	182	1.2	98	12	12.2	309	25	8.1	761	31	4.1
2020	11,344*	185	1.6**	77*	11	14.3	226*	23	10.2**	608	33**	5.4**

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)

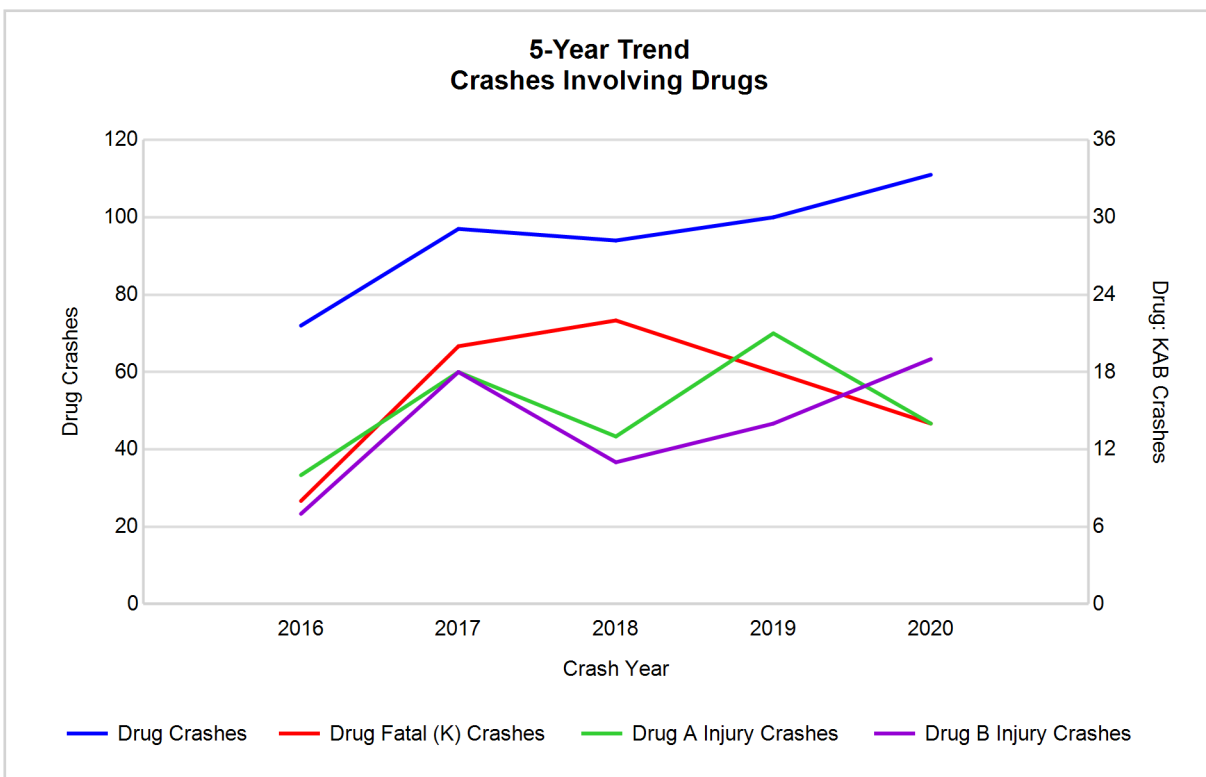
Commercial Motor Vehicles (continued)

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
2016	11,981	72	0.6	104	8	7.7	233	10	4.3	566	7	1.2
2017	12,886	97	0.8	84	20	23.8	288	18	6.3	688	18	2.6
2018	14,803	94	0.6	102	22	21.6	300	13	4.3	701	11	1.6
2019	15,798	100	0.6	98	18	18.4	309	21	6.8	761	14	1.8
2020	11,344*	111**	1.0**	77*	14	18.2	226*	14	6.2	608	19**	3.1**

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



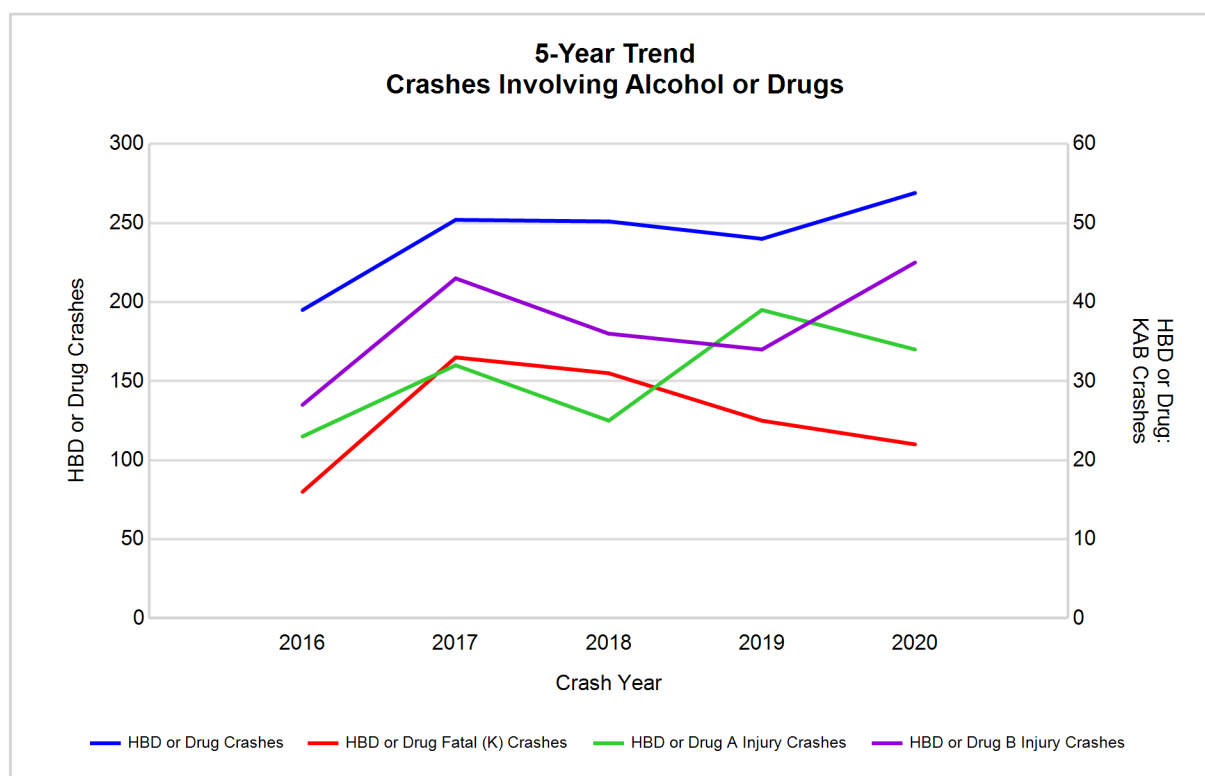
Commercial Motor Vehicles (continued)

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
2016	11,981	195	1.6	104	16	15.4	233	23	9.9	566	27	4.8
2017	12,886	252	2.0	84	33	39.3	288	32	11.1	688	43	6.3
2018	14,803	251	1.7	102	31	30.4	300	25	8.3	701	36	5.1
2019	15,798	240	1.5	98	25	25.5	309	39	12.6	761	34	4.5
2020	11,344*	269**	2.4**	77*	22	28.6	226*	34	15.0**	608	45**	7.4**

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)

2020 - 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	8,382	7,107	84.8	46	28	60.9	175	130	74.3	459	412	89.8	1,021	938	91.9	5,906	5,599	94.8
Motor home	19	14	73.7	0	0	0.0	0	0	0.0	2	2	100.0	1	0	0.0	14	12	85.7
Pickup truck	1,302	1,114	85.6	8	4	50.0	22	17	77.3	72	61	84.7	116	109	94.0	963	923	95.8
Small truck under 10,000 lbs. GVWR	51	41	80.4	0	0	0.0	1	1	100.0	1	1	100.0	3	3	100.0	39	36	92.3
Motorcycle	30	19	63.3	4	2	50.0	9	7	77.8	9	5	55.6	2	2	100.0	4	3	75.0
Moped / goped	1	1	100.0	1	1	100.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Go-cart / golf cart	1	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	1	0	0.0
Snowmobile	1	1	100.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	1	1	100.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	1	1	100.0	0	0	0.0	0	0	0.0	0	0	0.0	1	1	100.0	0	0	0.0
Other	63	22	34.9	0	0	0.0	0	0	0.0	2	1	50.0	5	1	20.0	40	20	50.0
Truck/bus over 10,000 lbs.	12,093	10,671	88.2	7	4	57.1	50	34	68.0	179	145	81.0	456	295	64.7	10,801	10,193	94.4
Unknown	226	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	2	0	0.0
Total	22,170	18,991	85.7	66	39	59.1	257	189	73.5	724	627	86.6	1,605	1,349	84.0	17,771	16,787	94.5

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.

2020 - 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	102	83	81.4	2	2	100.0	9	7	77.8	23	19	82.6	57	45	78.9	10	10	100.0
16 - 20	1,094	1,012	92.5	5	2	40.0	34	22	64.7	70	64	91.4	162	137	84.6	820	787	96.0
21 - 24	1,540	1,394	90.5	8	4	50.0	29	15	51.7	77	63	81.8	151	113	74.8	1,267	1,199	94.6
25 - 64	15,896	14,749	92.8	40	24	60.0	159	122	76.7	478	413	86.4	1,085	923	85.1	14,054	13,267	94.4
65 +	1,861	1,752	94.1	11	7	63.6	26	23	88.5	76	68	89.5	150	131	87.3	1,592	1,523	95.7
Unknown	1,677	1	0.1	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	28	1	3.6
Total	22,170	18,991	85.7	66	39	59.1	257	189	73.5	724	627	86.6	1,605	1,349	84.0	17,771	16,787	94.5

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.

Commercial Motor Vehicles (continued)

5-Year Trend - Restraint Use Among Drivers

Restraint Use	2016			2017			2018			2019			2020		
	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	73	1	7	44	0	2	44	1	4	55	0	1	49	0	5
Shoulder belt only used	97	0	12	133	0	20	130	1	11	167	0	17	97	0	8
Lap belt only used	186	0	14	168	1	15	139	1	13	165	0	12	77	0	3
Both lap & shoulder belts used	20,332	47	1,894	22,020	44	2,148	25,036	53	2,283	26,210	46	2,356	18,375	31	1,726
No belts used	221	12	57	187	11	45	203	13	74	214	16	78	176	17	60
Child restraint used	0	0	0	2	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	12	0	1	8	0	1	1	0	0	11	0	4	2	0	0
Restraint use unknown	1,736	15	76	2,070	9	96	2,684	11	132	3,079	9	111	2,399	7	113
Helmet worn	20	2	13	20	2	11	23	4	16	27	3	22	21	3	14
Helmet not worn	21	5	2	10	1	8	7	2	3	16	2	13	8	1	6
Helmet use unknown	6	0	1	3	0	1	2	0	1	2	1	0	1	1	0
Uncoded & errors	553	0	1	350	0	0	364	0	0	412	0	0	308	0	0
Total	23,257	82	2,078	25,015	68	2,347	28,633	86	2,537	30,358	77	2,614	21,513	60	1,935

5-Year Trend - Restraint Use Among Drivers Coded Drinking

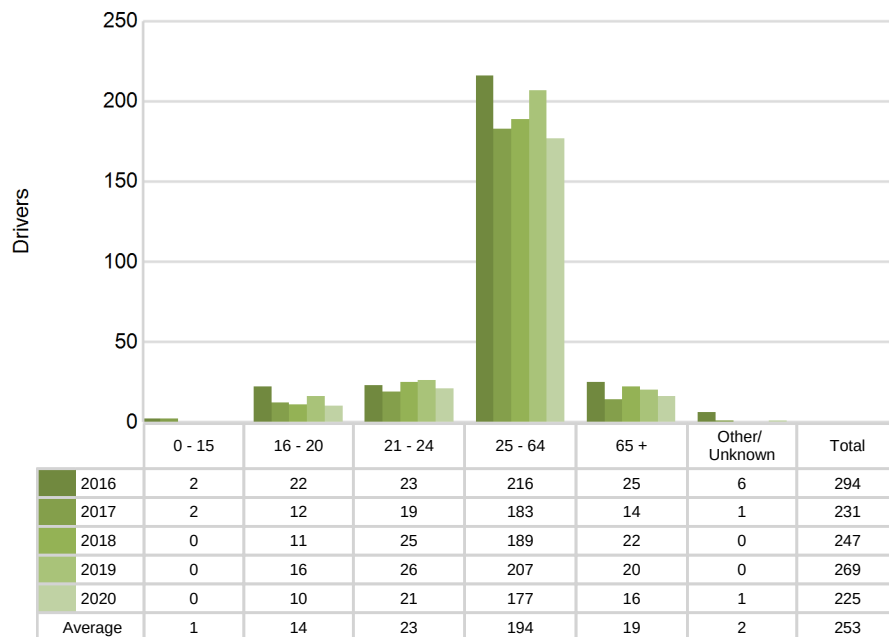
Restraint Use	2016			2017			2018			2019			2020		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	0	0	0	0	0	0	1	0	0	1	0	0	2	0	0
Shoulder belt only used	1	0	0	2	0	1	0	0	0	2	0	1	0	0	0
Lap belt only used	1	0	0	0	0	0	0	0	0	2	0	1	0	0	0
Both lap & shoulder belts used	106	1	50	140	8	51	144	7	47	132	2	49	136	3	60
No belts used	13	4	5	10	5	2	7	1	5	9	1	7	10	2	8
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	24	2	8	32	4	14	34	3	11	33	2	12	23	2	9
Helmet worn	0	0	0	1	1	0	1	0	1	1	0	1	1	0	1
Helmet not worn	1	1	0	2	0	2	1	1	0	0	0	0	1	0	1
Helmet use unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uncoded & errors	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	146	8	63	187	18	70	188	12	64	180	5	71	173	7	79

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

Age Group	2016			2017			2018			2019			2020		
	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	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0
16 - 20	22	3	11	12	1	2	11	0	7	16	2	5	10	1	7
21 - 24	23	2	4	19	2	7	25	0	15	26	0	12	21	2	9
25 - 64	216	7	40	183	7	34	189	11	50	207	11	58	177	10	43
65 +	25	1	9	14	1	4	22	3	6	20	3	4	16	4	6
Unknown	6	0	0	1	0	0	0	0	0	0	0	0	1	0	0
Total	294	13	64	231	11	47	247	14	78	269	16	79	225	17	65

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

5-Year Trend Driver Seatbelt Not Used



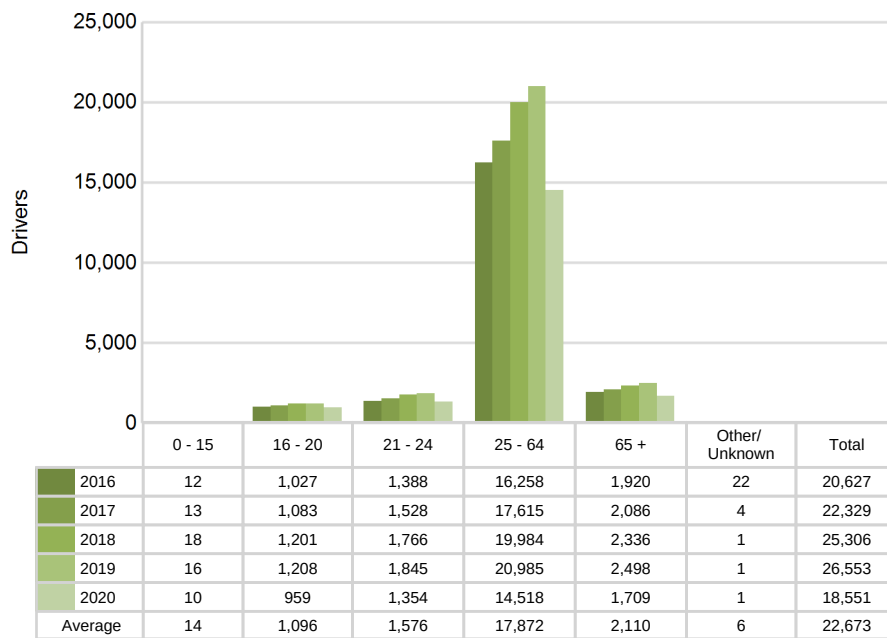
Commercial Motor Vehicles (continued)

5-Year Trend - Seatbelt Used Among Drivers by Age

Age Group	2016			2017			2018			2019			2020		
	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	12	0	2	13	0	1	18	0	4	16	0	2	10	0	1
16 - 20	1,027	5	147	1,083	4	169	1,201	3	175	1,208	5	183	959	2	170
21 - 24	1,388	1	178	1,528	1	195	1,766	8	212	1,845	1	210	1,354	2	154
25 - 64	16,258	29	1,375	17,615	28	1,573	19,984	30	1,677	20,985	29	1,741	14,518	20	1,233
65 +	1,920	12	218	2,086	12	246	2,336	14	239	2,498	11	253	1,709	7	179
Unknown	22	0	1	4	0	0	1	0	0	1	0	0	1	0	0
Total	20,627	47	1,921	22,329	45	2,184	25,306	55	2,307	26,553	46	2,389	18,551	31	1,737

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

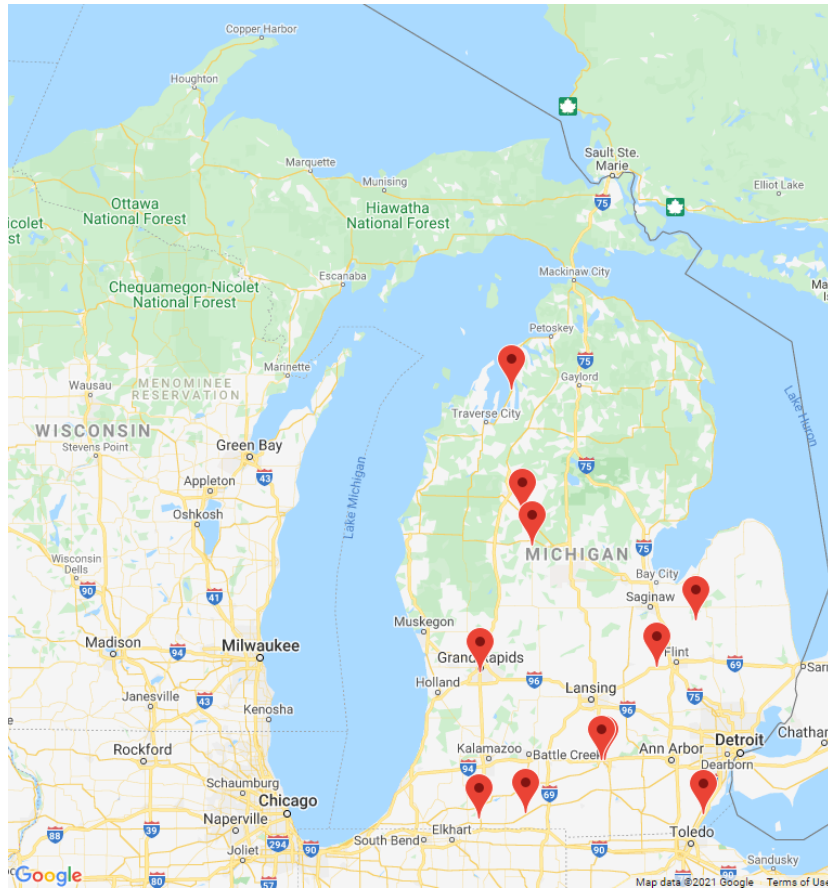


Commercial Motor Vehicles (continued)

5-Year Trend - All Vehicle Drivers in CMV Crashes by Hazardous Action

Hazardous Action	2016		2017		2018		2019		2020	
	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	11,372	114	12,334	102	13,973	121	14,717	104	10,599	84
Speed too fast	1,213	13	1,222	6	1,466	16	1,734	15	935	8
Speed too slow	19	0	18	0	20	1	22	1	11	0
Failed to yield	1,681	14	1,763	13	2,138	13	2,273	22	1,697	10
Disregard traffic control	320	12	378	7	401	6	431	6	388	7
Drove wrong way	20	2	19	4	17	2	14	0	22	0
Drove left of center	143	10	142	10	175	10	168	13	156	6
Improper passing	276	1	312	1	315	0	351	2	283	0
Improper lane use	1,305	2	1,364	2	1,599	3	1,619	0	1,190	4
Improper turn	563	1	613	2	600	0	706	1	431	1
Improper/no signal	46	0	29	0	35	0	39	0	32	0
Improper backing	592	0	591	0	680	0	727	0	570	1
Unable to stop in assured clear distance	2,196	14	2,515	16	2,845	20	3,017	9	1,914	10
Other	1,380	5	1,411	10	1,624	10	1,680	7	1,175	9
Unknown	1,091	13	1,313	5	1,655	15	1,713	12	1,233	8
Reckless driving	67	4	70	2	67	4	66	3	57	3
Careless/negligent driving	676	9	622	8	705	13	713	8	565	8
Uncoded & errors	297	4	299	1	318	0	368	1	255	0
Total	23,257	218	25,015	189	28,633	234	30,358	204	21,513	159

Commercial Motor Vehicles (continued)



The picture above represents all 2020 alcohol-involved commercial motor vehicle fatal crashes in Michigan.

In 2020, there were 185 alcohol-involved commercial motor vehicle crashes in Michigan:

- 11 K - Fatal Crashes
- 23 A - Suspected Serious Injury Crashes
- 33 B - Suspected Minor Injury Crashes
- 43 C - Possible Injury Crashes
- 75 O - Property Damage Only/No Injury Crashes

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