



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)



Michigan Commercial Motor Vehicles

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

Summary Trends

Year	Total Crashes	Fatal Crashes	Injury Crashes	Fatalities	Injuries
2015	11,890	78	2,031	85	2,901
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

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 2019:

There were 30,358 drivers involved in 15,798 commercial motor vehicle crashes in Michigan. Of those crashes, 98 were classified as fatal, resulting in 106 fatalities. An additional 3,685 persons were injured.

Michigan experienced the highest number of commercial motor vehicle crashes (1,682) in January, the highest number of fatal crashes (13) in May and October, and the highest number of persons killed (15) in October.

Michigan driver statistics indicate 6.3 percent of licensed drivers were age 16-20, and 4.2 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	1,682	9	292	1,381	10	394
February	1,366	3	208	1,155	3	277
March	1,072	9	174	889	9	251
April	1,046	7	185	854	7	277
May	1,236	13	209	1,014	14	311
June	1,076	5	160	911	7	225
July	1,302	8	250	1,044	9	327
August	1,273	7	228	1,038	7	307
September	1,292	8	231	1,053	8	334
October	1,577	13	264	1,300	15	377
November	1,665	8	256	1,401	8	338
December	1,211	8	185	1,018	9	267
Total	15,798	98	2,642	13,058	106	3,685

2019 - 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	50,996	16	0.1	3.1
16 - 20	651,147	458,384	1,281	19.7	27.9
21 - 24	548,369	449,272	1,963	35.8	43.7
25 - 64	5,132,000	4,715,925	22,173	43.2	47.0
65 +	1,765,401	1,578,830	2,626	14.9	16.6
Unknown	0	0	2,299	--	--
Total	9,986,857	7,253,407	30,358	30.4	41.9

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	11,551	38.0	82	40.2	2,479	8,990
Motor home	32	0.1	0	0.0	9	23
Pickup truck	1,640	5.4	10	4.9	321	1,309
Small truck under 10,000 lbs. GVWR	75	0.2	0	0.0	9	66
Motorcycle	36	0.1	4	2.0	26	6
Moped / goped	6	0.0	2	1.0	4	0
Go-cart / golf cart	1	0.0	0	0.0	0	1
Snowmobile	5	0.0	0	0.0	2	3
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	4	0.0	0	0.0	4	0
Other	96	0.3	1	0.5	8	87
Truck/bus over 10,000 lbs.	16,603	54.7	105	51.5	2,805	13,693
Unknown	309	1.0	0	0.0	17	292
Total	30,358	100.0	204	100.0	5,684	24,470

Commercial Motor Vehicles (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	1,472	10	1,103	7	1,157	14	1,719	6	1,682	9
February	1,365	6	1,031	3	860	1	1,468	9	1,366	3
March	915	1	937	3	1,167	7	1,145	8	1,072	9
April	783	5	848	9	827	7	1,056	11	1,046	7
May	847	4	958	7	1,180	3	1,112	9	1,236	13
June	921	8	928	11	1,015	4	1,311	8	1,076	5
July	871	11	830	10	870	4	997	7	1,302	8
August	803	9	1,012	8	943	8	1,089	9	1,273	7
September	976	7	1,088	14	1,029	10	1,187	13	1,292	8
October	1,057	7	1,030	8	1,239	8	1,428	6	1,577	13
November	993	8	1,025	15	1,070	13	1,369	8	1,665	8
December	887	2	1,191	9	1,529	5	922	8	1,211	8
Total	11,890	78	11,981	104	12,886	84	14,803	102	15,798	98

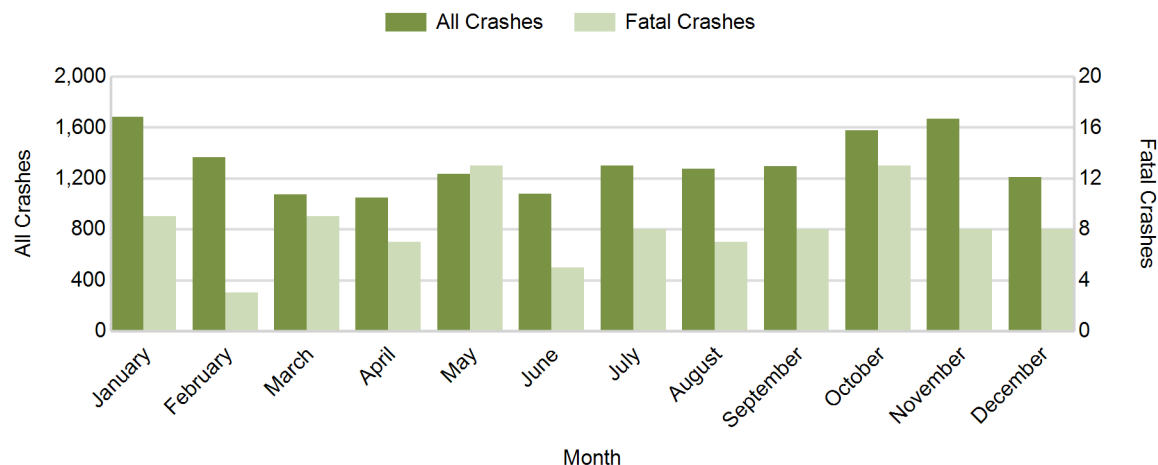
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

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	2,127	10	2,153	18	2,317	14	2,710	19	2,966	16
Tuesday	2,216	8	2,312	18	2,382	12	2,785	21	3,176	16
Wednesday	2,272	15	2,208	16	2,385	16	2,618	17	3,077	13
Thursday	2,084	18	2,209	23	2,375	16	2,569	13	2,602	21
Friday	2,041	16	2,004	19	2,324	19	2,688	17	2,546	19
Saturday	743	8	681	6	732	5	914	7	904	7
Sunday	407	3	414	4	371	2	519	8	527	6
Total	11,890	78	11,981	104	12,886	84	14,803	102	15,798	98

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

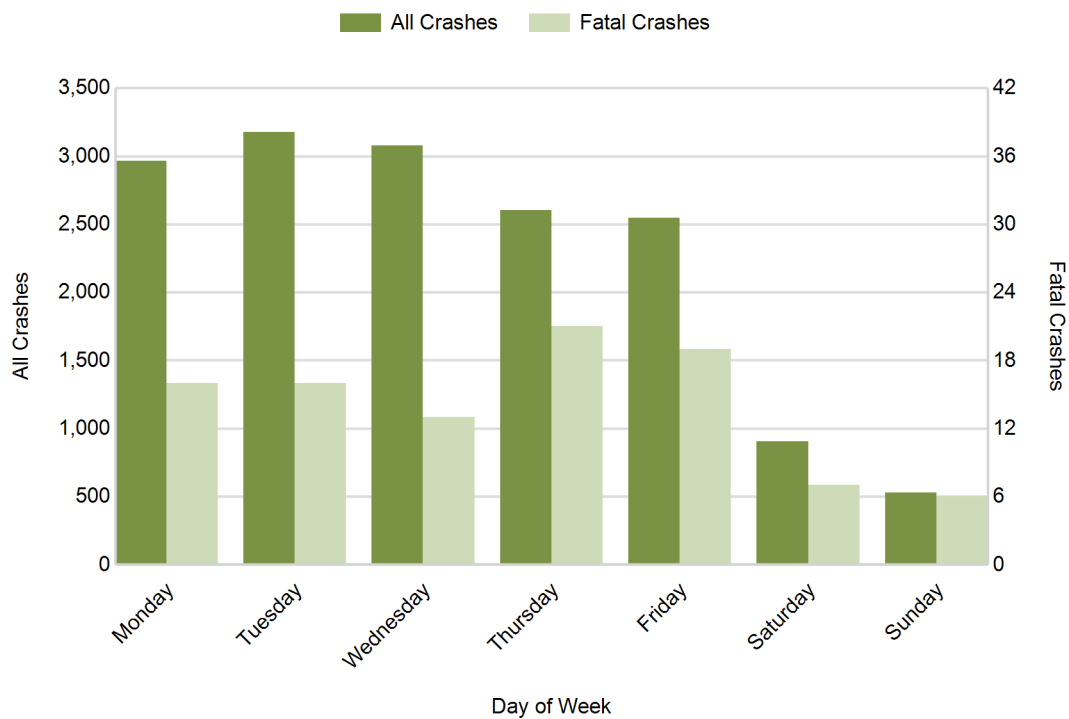
2019 Crashes by Month



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	2,966	18.8	16	16.3	62	144	306	2,438
Tuesday	3,176	20.1	16	16.3	65	138	332	2,625
Wednesday	3,077	19.5	13	13.3	59	143	282	2,580
Thursday	2,602	16.5	21	21.4	32	133	256	2,160
Friday	2,546	16.1	19	19.4	50	123	242	2,112
Saturday	904	5.7	7	7.1	22	50	93	732
Sunday	527	3.3	6	6.1	19	30	61	411
Total	15,798	100.0	98	100.0	309	761	1,572	13,058

2019 Day of Week and Severity

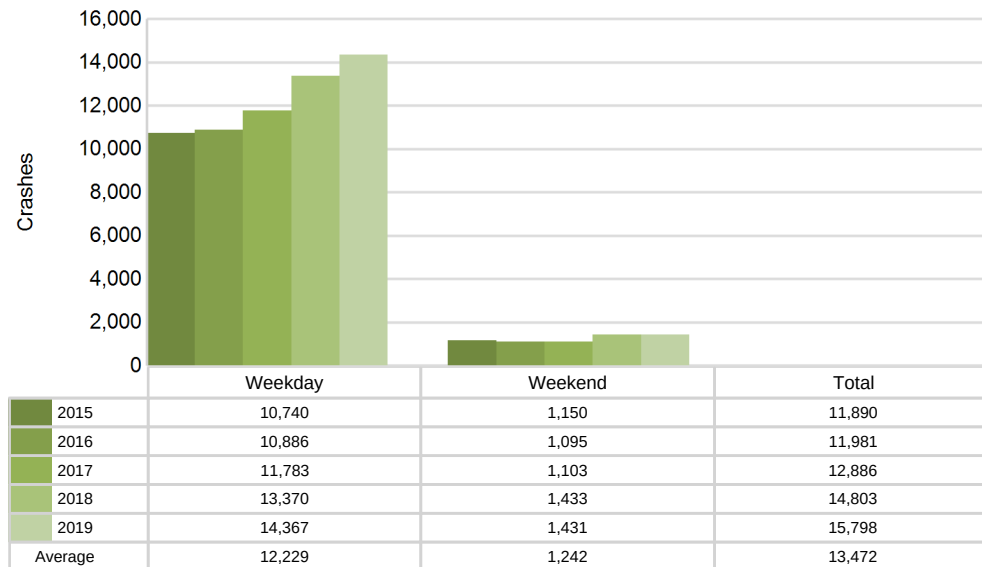


Commercial Motor Vehicles (continued)

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	10,740	67	10,886	94	11,783	77	13,370	87	14,367	85
Weekend	1,150	11	1,095	10	1,103	7	1,433	15	1,431	13
Total	11,890	78	11,981	104	12,886	84	14,803	102	15,798	98

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



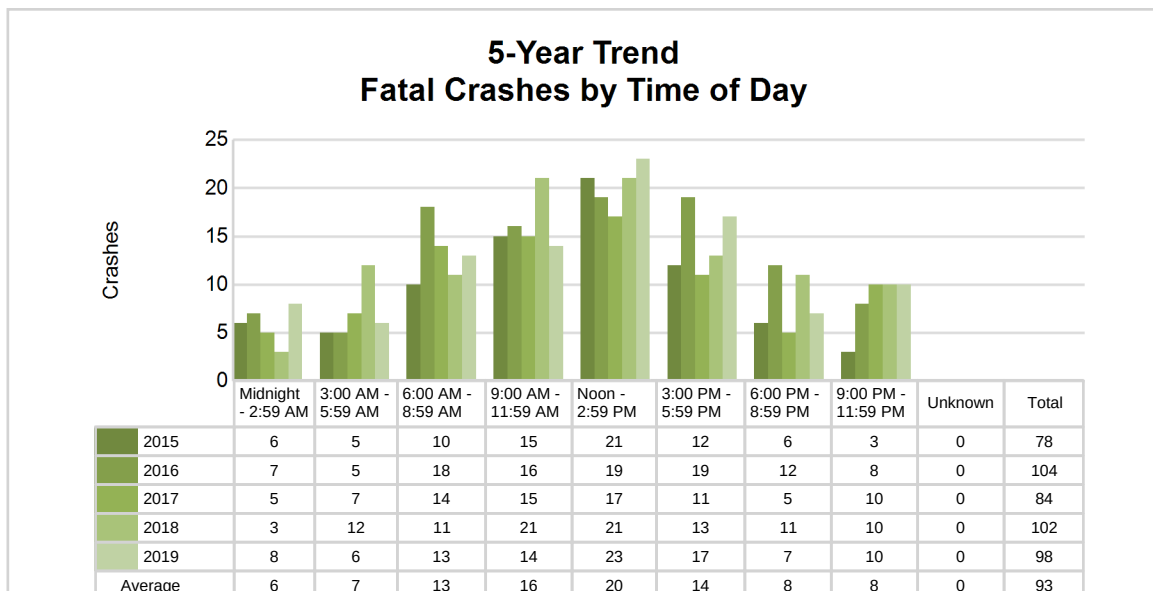
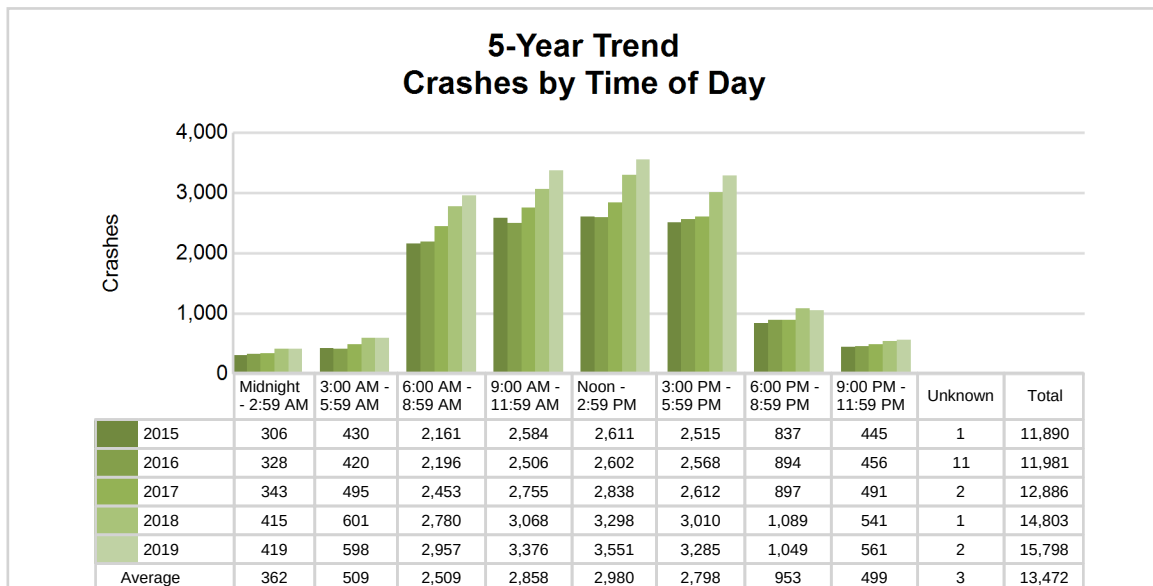
Commercial Motor Vehicles (continued)

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5-Year Trend - Crashes by Time of Day

Time of Day	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	306	6	328	7	343	5	415	3	419	8
3:00 AM - 5:59 AM	430	5	420	5	495	7	601	12	598	6
6:00 AM - 8:59 AM	2,161	10	2,196	18	2,453	14	2,780	11	2,957	13
9:00 AM - 11:59 AM	2,584	15	2,506	16	2,755	15	3,068	21	3,376	14
Noon - 2:59 PM	2,611 †	21	2,602 †	19	2,838 †	17	3,298 †	21	3,551 †	23
3:00 PM - 5:59 PM	2,515	12	2,568	19	2,612	11	3,010	13	3,285	17
6:00 PM - 8:59 PM	837	6	894	12	897	5	1,089	11	1,049	7
9:00 PM - 11:59 PM	445	3	456	8	491	10	541	10	561	10
Unknown	1	0	11	0	2	0	1	0	2	0
Total	11,890	78	11,981	104	12,886	84	14,803	102	15,798	98

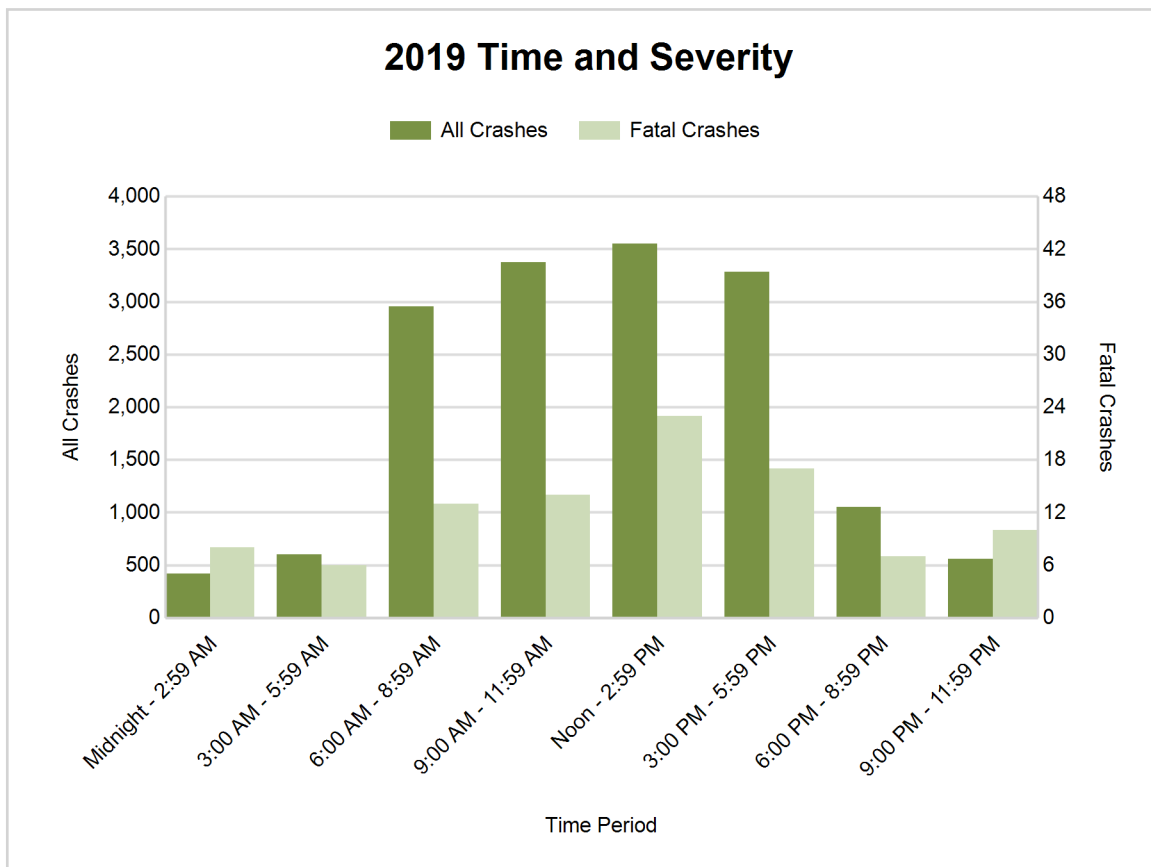
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same time period



Commercial Motor Vehicles (continued)

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	419	2.7	8	8.2	13	25	46	327
3:00 AM - 5:59 AM	598	3.8	6	6.1	16	38	56	482
6:00 AM - 8:59 AM	2,957	18.7	13	13.3	56	126	278	2,484
9:00 AM - 11:59 AM	3,376	21.4	14	14.3	62	168	337	2,795
Noon - 2:59 PM	3,551	22.5	23	23.5	69	173	356	2,930
3:00 PM - 5:59 PM	3,285	20.8	17	17.3	55	143	331	2,739
6:00 PM - 8:59 PM	1,049	6.6	7	7.1	20	54	109	859
9:00 PM - 11:59 PM	561	3.6	10	10.2	18	34	59	440
Unknown	2	0.0	0	0.0	0	0	0	2
Total	15,798	100.0	98	100.0	309	761	1,572	13,058



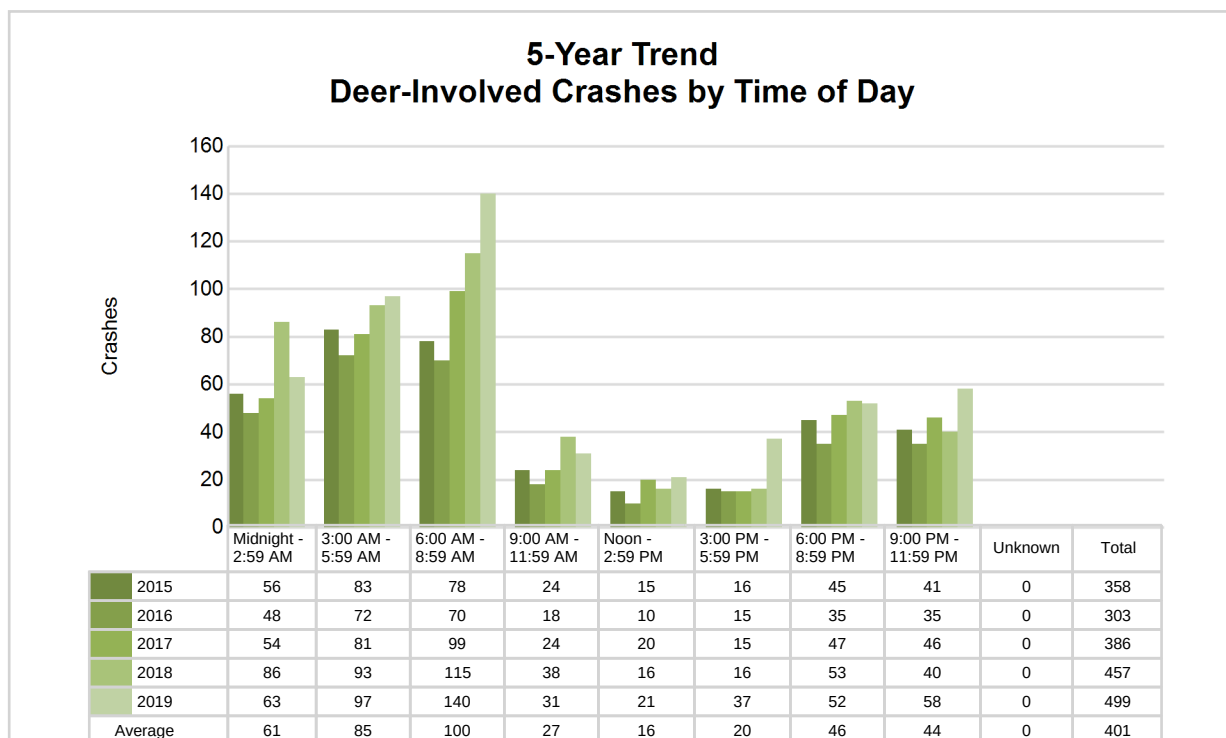
Commercial Motor Vehicles (continued)

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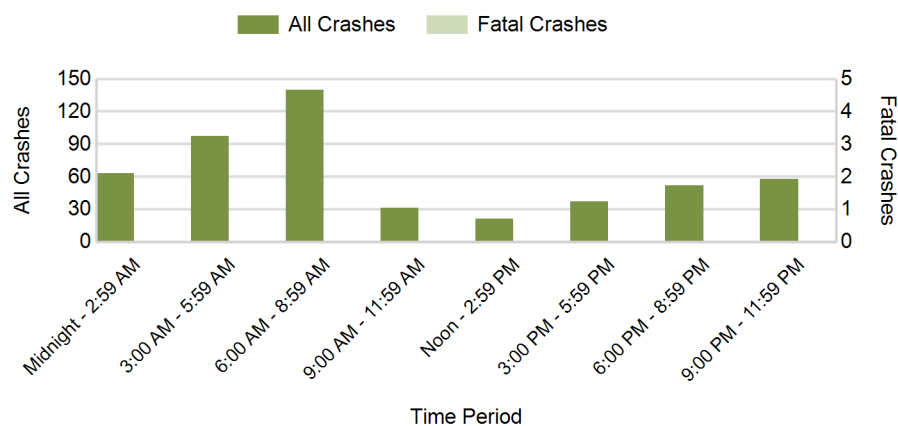
5-Year Trend - Deer-Involved Crashes by Time of Day

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	56	0	48	0	54	0	86	0	63	0
3:00 AM - 5:59 AM	83	0	72	0	81	0	93	0	97	0
6:00 AM - 8:59 AM	78	0	70	0	99	0	115	0	140	0
9:00 AM - 11:59 AM	24	0	18	0	24	0	38	0	31	0
Noon - 2:59 PM	15	0	10	0	20	0	16	0	21	0
3:00 PM - 5:59 PM	16	0	15	0	15	0	16	0	37	0
6:00 PM - 8:59 PM	45	0	35	0	47	0	53	0	52	0
9:00 PM - 11:59 PM	41	0	35	0	46	0	40	0	58	0
Unknown	0	0	0	0	0	0	0	0	0	0
Total	358	0	303	0	386	0	457	0	499	0

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 of Deer-Involved Crashes



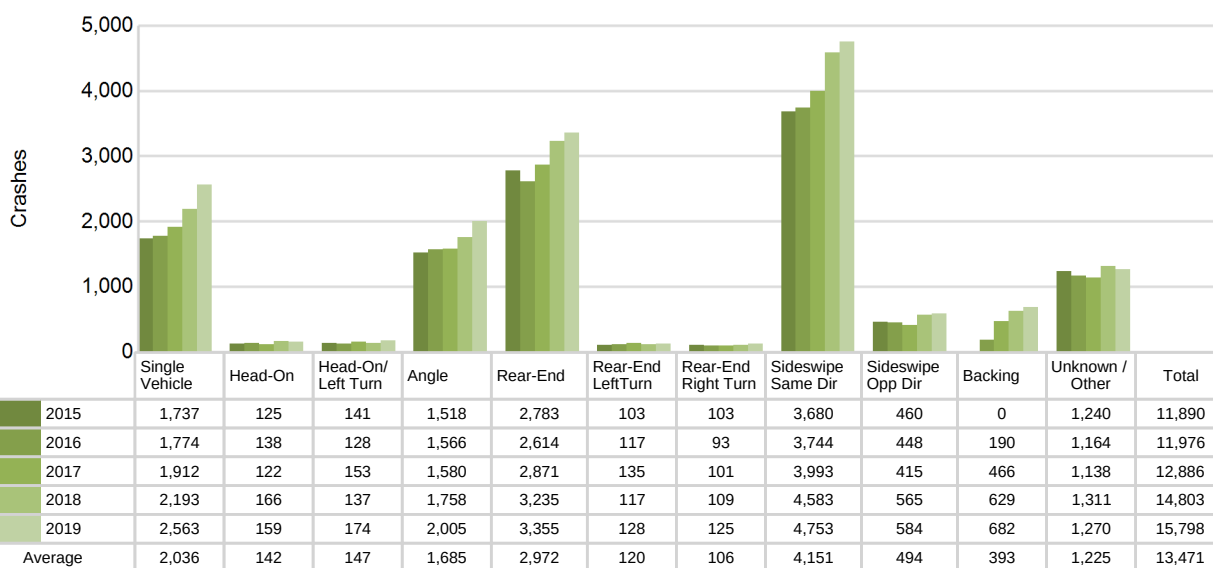
There were no fatal deer-involved commercial motor vehicle crashes in Michigan in 2019

Commercial Motor Vehicles (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	1,737	12	1,774	16	1,912	6	2,193	5	2,563	11
Head-on	125	12	138	17	122	16	166	20	159	18
Head-on / left turn	141	2	128	6	153	3	137	0	174	4
Angle	1,518	12	1,566	26	1,580	19	1,758	24	2,005	31
Rear-end	2,783	21	2,614	24	2,871	28	3,235	27	3,355	19
Rear-end left turn	103	1	117	5	135	1	117	4	128	0
Rear-end right turn	103	0	93	0	101	0	109	0	125	0
Sideswipe same direction	3,680	4	3,744	3	3,993	5	4,583	5	4,753	7
Sideswipe opposite direction	460	5	448	6	415	0	565	2	584	2
Backing	0	0	190	0	466	0	629	2	682	0
Other / Unknown	1,240	9	1,164	1	1,138	6	1,311	13	1,270	6
Uncoded and Errors	0	0	5	0	0	0	0	0	0	0
Total	11,890	78	11,981	104	12,886	84	14,803	102	15,798	98

5-Year Trend Crashes by Crash Type



Commercial Motor Vehicles (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
Alcona	11	0	2	9	0	1	9	1	0	0	5	0	3
Alger	11	0	2	9	0	1	6	3	0	0	0	0	3
Allegan	276	1	41	234	65	71	52	86	4	2	13	1	56
Alpena	22	0	3	19	0	7	4	11	0	0	5	0	3
Antrim	37	0	10	27	0	14	9	14	0	0	4	0	13
Arenac	24	0	5	19	2	9	7	6	1	0	3	0	7
Baraga	10	1	3	6	0	8	1	1	0	0	1	1	4
Barry	46	0	8	38	0	0	28	18	0	0	6	0	10
Bay	119	1	21	97	18	5	40	56	3	1	8	1	41
Benzie	19	0	1	18	0	5	2	12	0	0	3	0	1
Berrien	358	4	45	309	221	37	31	68	9	4	21	4	59
Branch	75	1	16	58	16	25	3	31	1	0	14	1	17
Calhoun	253	3	49	201	165	0	46	42	5	3	18	3	75
Cass	68	0	17	51	0	9	32	27	0	1	9	0	23
Charlevoix	43	3	5	35	0	16	6	21	0	0	6	3	10
Cheboygan	26	0	4	22	8	1	5	12	1	0	2	0	5
Chippewa	33	0	2	31	10	0	7	16	0	0	2	0	3
Clare	35	0	6	29	0	15	11	8	0	0	6	0	16
Clinton	122	1	18	103	49	12	21	40	2	1	11	1	25
Crawford	29	0	4	25	10	1	8	10	0	0	1	0	4
Delta	63	2	8	53	0	31	8	24	1	0	4	2	9
Dickinson	37	1	3	33	0	10	16	9	0	0	3	1	3
Eaton	167	0	29	138	93	0	28	46	2	1	8	0	44
Emmet	38	0	6	32	0	20	1	17	1	1	4	0	7
Genesee	536	6	113	417	179	37	68	252	7	10	7	6	154
Gladwin	24	0	5	19	0	0	9	15	0	0	3	0	6
Gogebic	16	0	4	12	0	7	2	6	1	0	3	0	6
Grand Traverse	133	2	17	114	0	34	23	75	2	2	7	2	23
Gratiot	67	2	10	55	0	29	16	22	1	0	5	2	11
Hillsdale	43	0	14	29	0	8	16	19	2	0	5	0	17
Houghton	48	0	4	44	0	19	13	14	0	0	4	0	5

Commercial Motor Vehicles (continued)

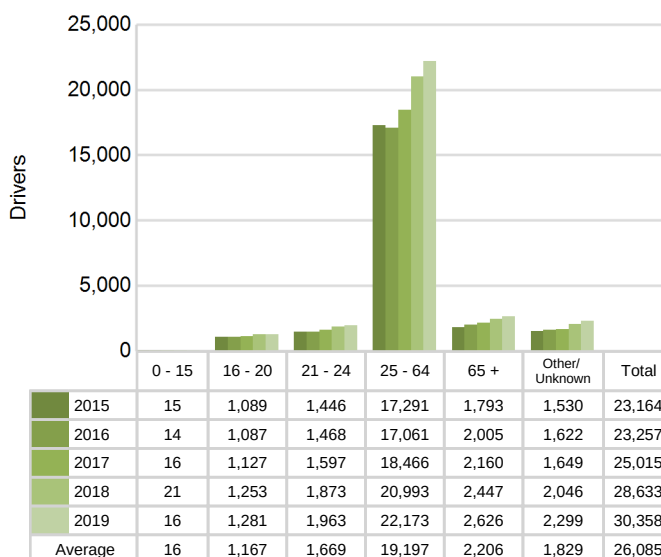
2019 - Reported Motor Vehicle Crashes by County (continued)

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	51	0	12	39	0	0	21	30	0	0	12	0	17
Ingham	430	1	68	361	120	35	80	194	7	0	16	1	87
Ionia	112	0	19	93	67	0	25	20	0	0	7	0	23
Iosco	15	0	4	11	0	2	5	8	1	0	1	0	4
Iron	6	0	0	6	0	5	0	1	0	0	2	0	0
Isabella	71	1	14	56	0	27	11	33	1	2	14	1	24
Jackson	271	4	39	228	116	20	37	98	4	2	17	4	51
Kalamazoo	499	0	67	432	154	55	82	207	4	0	9	0	91
Kalkaska	20	0	2	18	0	6	7	7	1	1	2	0	2
Kent	1,269	8	187	1,074	206	197	234	632	15	3	10	8	261
Keweenaw	2	0	0	2	0	1	0	1	0	0	0	0	0
Lake	6	0	1	5	0	4	1	1	1	0	1	0	1
Lapeer	112	1	20	91	25	0	43	44	1	1	8	1	26
Leelanau	20	1	2	17	0	0	9	11	0	0	2	2	4
Lenawee	119	2	17	100	0	43	30	46	1	0	4	2	23
Livingston	256	2	49	205	94	54	32	74	0	3	4	2	91
Luce	9	0	0	9	0	0	4	5	0	0	2	0	0
Mackinac	35	0	5	30	11	15	6	3	0	0	4	0	5
Macomb	1,266	4	224	1,038	175	0	379	705	18	9	4	4	312
Manistee	25	0	5	20	0	9	4	12	0	0	1	0	6
Marquette	62	0	6	56	0	25	6	30	1	0	1	0	6
Mason	36	1	2	33	0	23	1	12	1	2	5	1	2
Mecosta	59	0	4	55	0	18	22	19	0	0	6	0	7
Menominee	23	0	5	18	0	10	4	9	0	1	1	0	5
Midland	90	1	13	76	0	15	21	54	0	0	3	1	16
Missaukee	15	0	1	14	0	0	9	6	0	0	6	0	1
Monroe	396	5	60	331	181	93	34	88	3	2	9	5	95
Montcalm	86	0	19	67	0	18	35	33	1	0	10	0	22
Montmorency	10	0	0	10	0	0	9	1	0	0	0	0	0
Muskegon	167	2	27	138	7	45	17	97	3	1	6	2	37
Newaygo	42	0	7	35	0	0	24	18	2	0	3	0	9
Oakland	1,851	3	290	1,558	478	151	316	899	16	4	11	3	390
Oceana	30	2	8	20	0	10	5	15	0	0	0	3	10
Ogemaw	27	0	6	21	5	0	11	11	0	0	4	0	13
Ontonagon	12	0	0	12	0	3	9	0	0	0	4	0	0
Osceola	37	1	6	30	0	20	8	9	1	0	9	1	6
Oscoda	6	0	1	5	0	0	5	1	0	0	0	0	1
Otsego	45	0	7	38	20	0	14	10	1	0	4	0	8
Ottawa	441	4	70	367	89	52	64	235	5	2	6	4	95
Presque Isle	13	0	2	11	0	2	8	3	0	0	5	0	3
Roscommon	26	0	6	20	3	7	9	7	0	0	2	0	9
Saginaw	166	1	29	136	29	0	61	75	1	1	6	1	40
St. Clair	173	2	31	140	69	0	18	86	3	4	7	2	37
St. Joseph	84	1	18	65	0	30	22	31	0	2	4	3	21
Sanilac	55	0	10	45	0	0	35	20	0	0	16	0	13
Schoolcraft	22	0	3	19	0	12	5	5	0	3	7	0	4
Shiawassee	88	0	22	66	41	0	26	21	2	0	9	0	28
Tuscola	56	0	19	37	0	0	26	30	0	0	10	0	27
Van Buren	212	3	40	169	136	0	28	48	2	2	12	4	50
Washtenaw	687	5	107	575	146	176	50	311	5	4	11	5	133
Wayne	3,337	15	602	2,720	960	200	542	1,627	37	25	5	18	893
Wexford	61	0	11	50	0	25	18	18	1	0	6	0	13
Total	15,798	98	2,642	13,058	3,968	1,840	3,000	6,943	182	100	499	106	3,685

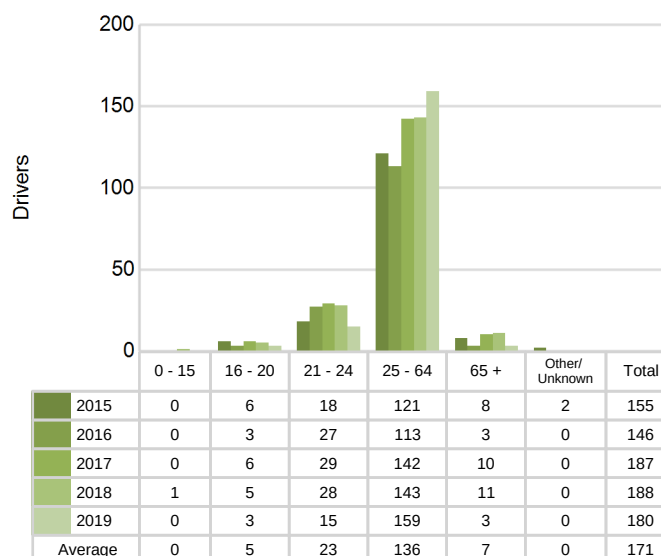
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

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	15	0	14	0	16	0	21	1	16	0
16 - 20	1,089	6	1,087	3	1,127	6	1,253	5	1,281	3
21 - 24	1,446	18	1,468	27	1,597	29	1,873	28	1,963	15
25 - 64	17,291	121	17,061	113	18,466	142	20,993	143	22,173	159
65 +	1,793	8	2,005	3	2,160	10	2,447	11	2,626	3
Unknown	1,530	2	1,622	0	1,649	0	2,046	0	2,299	0
Total	23,164	155	23,257	146	25,015	187	28,633	188	30,358	180

5-Year Trend Total Drivers in Crashes by Age



5-Year Trend Total Drivers Coded Drinking by Age



Commercial Motor Vehicles (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	0	0	0	0	0	0	0	0	0
16 - 20	7	11	3	3	0	0	2	0	1
21 - 24	26	33	14	15	0	0	7	3	5
25 - 64	317	343	137	159	0	26	43	51	39
65 +	11	24	3	3	0	0	0	0	3
Unknown	24	0	0	0	0	0	0	0	0
Total	385	411	157	180	0	26	52	54	48

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 385 drivers in alcohol-involved crashes; 180 (46.8%) of those drivers were coded as had-been-drinking by the officer on the crash form.

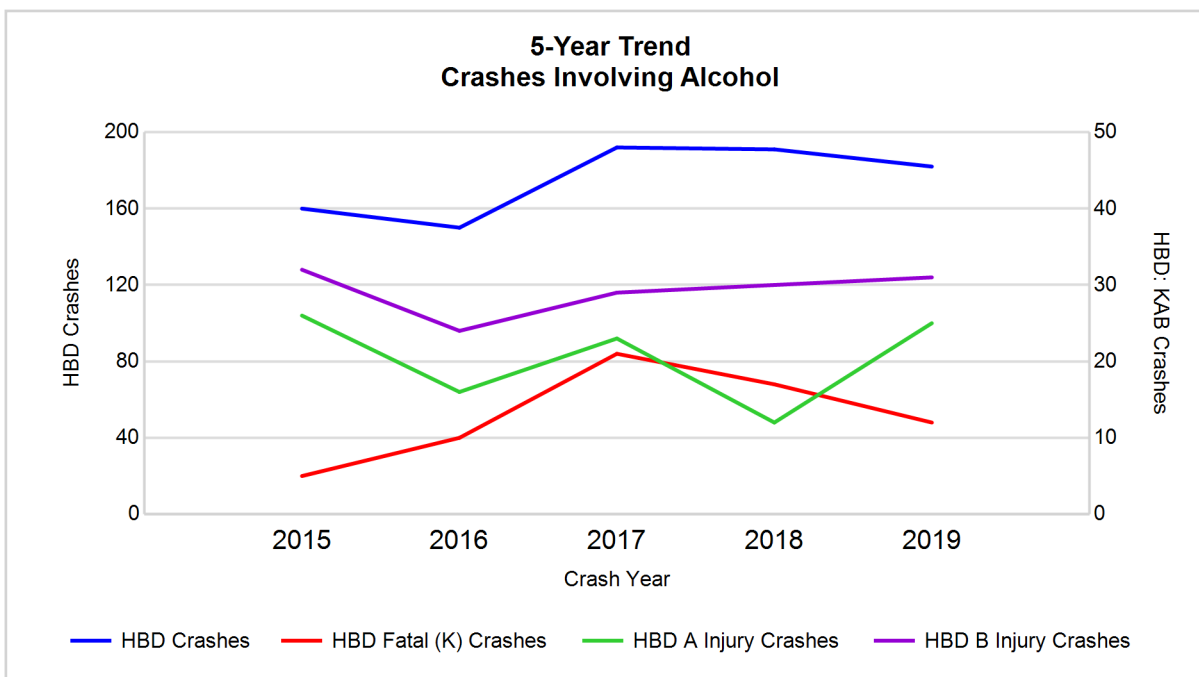
- 106 (58.9%) of the 180 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 54 (50.9%) of the 106 drivers had a BAC at or above 0.17 g/dL.
- 157 (87.2%) of the 180 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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	11,890	160	1.3	78	5	6.4	203	26	12.8	523	32	6.1
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*

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)

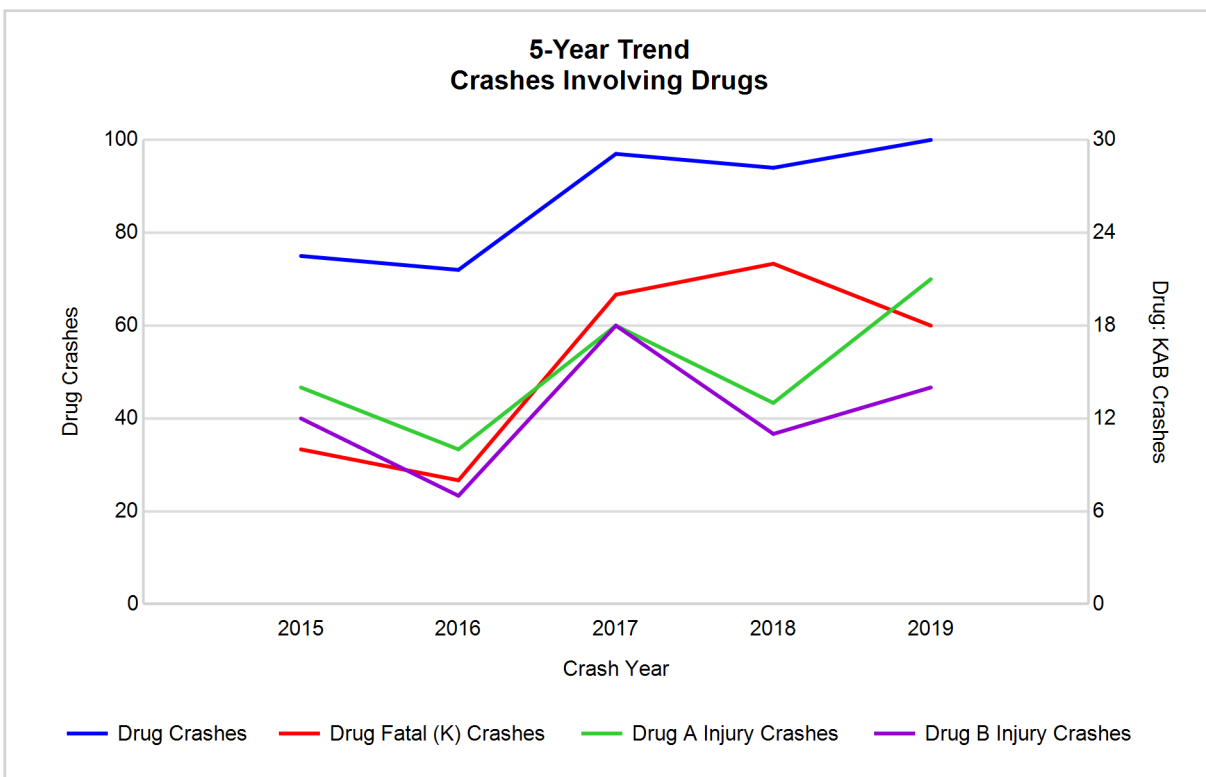
Commercial Motor Vehicles (continued)

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
2015	11,890	75	0.6	78	10	12.8	203	14	6.9	523	12	2.3
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

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



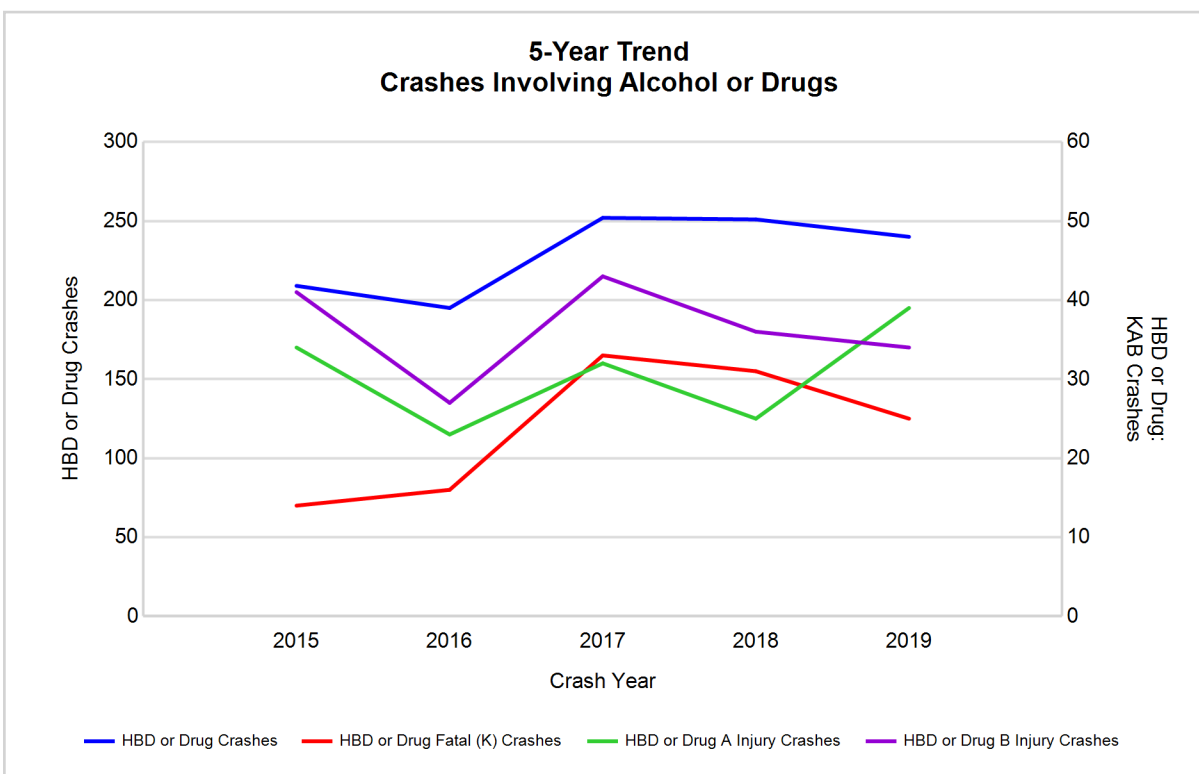
Commercial Motor Vehicles (continued)

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
2015	11,890	209	1.8	78	14	17.9	203	34	16.7	523	41	7.8
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*

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	12,138	10,481	86.3	67	45	67.2	224	186	83.0	610	560	91.8	1,486	1,400	94.2	8,693	8,290	95.4
Motor home	36	28	77.8	0	0	0.0	1	1	100.0	2	0	0.0	5	5	100.0	24	22	91.7
Pickup truck	1,698	1,452	85.5	8	5	62.5	41	29	70.7	77	68	88.3	146	140	95.9	1,246	1,210	97.1
Small truck under 10,000 lbs. GVWR	75	58	77.3	0	0	0.0	1	1	100.0	0	0	0.0	7	7	100.0	51	50	98.0
Motorcycle	41	26	63.4	4	3	75.0	18	13	72.2	7	5	71.4	5	3	60.0	5	2	40.0
Moped / goped	6	1	16.7	2	0	0.0	0	0	0.0	2	1	50.0	2	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	0	0	0.0
Snowmobile	5	2	40.0	0	0	0.0	0	0	0.0	1	1	100.0	1	1	100.0	0	0	0.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	5	1	20.0	0	0	0.0	0	0	0.0	3	1	33.3	2	0	0.0	0	0	0.0
Other	97	47	48.5	0	0	0.0	0	0	0.0	1	1	100.0	5	5	100.0	60	41	68.3
Truck/bus over 10,000 lbs.	16,981	15,121	89.0	15	5	33.3	62	39	62.9	209	154	73.7	710	418	58.9	15,224	14,505	95.3
Unknown	309	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Total	31,392	27,217	86.7	96	58	60.4	347	269	77.5	912	791	86.7	2,369	1,979	83.5	25,303	24,120	95.3

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	268	168	62.7	2	1	50.0	17	10	58.8	38	23	60.5	197	120	60.9	14	14	100.0
16 - 20	1,390	1,272	91.5	11	5	45.5	21	13	61.9	80	73	91.3	202	161	79.7	1,071	1,020	95.2
21 - 24	2,030	1,894	93.3	3	1	33.3	26	20	76.9	93	78	83.9	183	161	88.0	1,720	1,634	95.0
25 - 64	22,683	21,301	93.9	62	37	59.7	224	174	77.7	592	520	87.8	1,583	1,353	85.5	20,129	19,217	95.5
65 +	2,722	2,581	94.8	18	14	77.8	59	52	88.1	109	97	89.0	204	184	90.2	2,320	2,234	96.3
Unknown	2,299	1	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	49	1	2.0
Total	31,392	27,217	86.7	96	58	60.4	347	269	77.5	912	791	86.7	2,369	1,979	83.5	25,303	24,120	95.3

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.

Commercial Motor Vehicles (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	91	2	9	73	1	7	44	0	2	44	1	4	55	0	1
Shoulder belt only used	42	0	4	97	0	12	133	0	20	130	1	11	167	0	17
Lap belt only used	202	1	10	186	0	14	168	1	15	139	1	13	165	0	12
Both lap & shoulder belts used	20,504	32	1,895	20,332	47	1,894	22,020	44	2,148	25,036	53	2,283	26,210	46	2,356
No belts used	202	14	54	221	12	57	187	11	45	203	13	74	214	16	78
Child restraint used	0	0	0	0	0	0	2	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	6	0	0	12	0	1	8	0	1	1	0	0	11	0	4
Restraint use unknown	1,110	5	62	1,736	15	76	2,070	9	96	2,684	11	132	3,079	9	111
Helmet worn	24	7	13	20	2	13	20	2	11	23	4	16	27	3	22
Helmet not worn	11	2	7	21	5	2	10	1	8	7	2	3	16	2	13
Helmet use unknown	2	1	1	6	0	1	3	0	1	2	0	1	2	1	0
Uncoded & errors	970	0	0	553	0	1	350	0	0	364	0	0	412	0	0
Total	23,164	64	2,055	23,257	82	2,078	25,015	68	2,347	28,633	86	2,537	30,358	77	2,614

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	1	0	1	0	0	0	0	0	0	1	0	0	1	0	0
Shoulder belt only used	0	0	0	1	0	0	2	0	1	0	0	0	2	0	1
Lap belt only used	0	0	0	1	0	0	0	0	0	0	0	0	2	0	1
Both lap & shoulder belts used	121	0	59	106	1	50	140	8	51	144	7	47	132	2	49
No belts used	11	0	8	13	4	5	10	5	2	7	1	5	9	1	7
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	21	0	9	24	2	8	32	4	14	34	3	11	33	2	12
Helmet worn	0	0	0	0	0	0	1	1	0	1	0	1	1	0	1
Helmet not worn	0	0	0	1	1	0	2	0	2	1	1	0	0	0	0
Helmet use unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uncoded & errors	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	155	0	77	146	8	63	187	18	70	188	12	64	180	5	71

Commercial Motor Vehicles (continued)

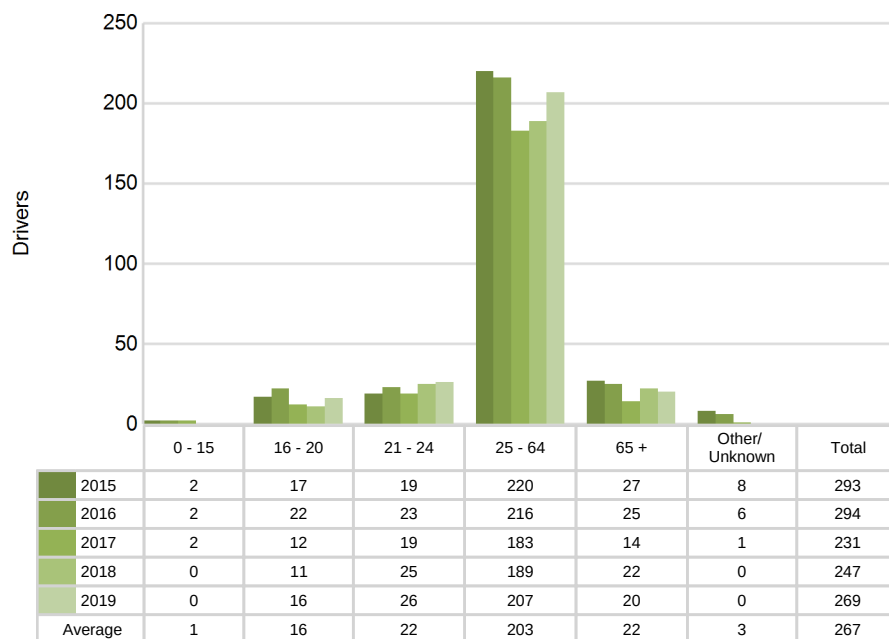
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5-Year Trend - Seatbelt Not Used Among Drivers by Age

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	2	0	1	2	0	0	2	0	0	0	0	0	0	0	0
16 - 20	17	2	5	22	3	11	12	1	2	11	0	7	16	2	5
21 - 24	19	0	8	23	2	4	19	2	7	25	0	15	26	0	12
25 - 64	220	9	47	216	7	40	183	7	34	189	11	50	207	11	58
65 +	27	5	2	25	1	9	14	1	4	22	3	6	20	3	4
Unknown	8	0	0	6	0	0	1	0	0	0	0	0	0	0	0
Total	293	16	63	294	13	64	231	11	47	247	14	78	269	16	79

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

5-Year Trend Driver Seatbelt Not Used



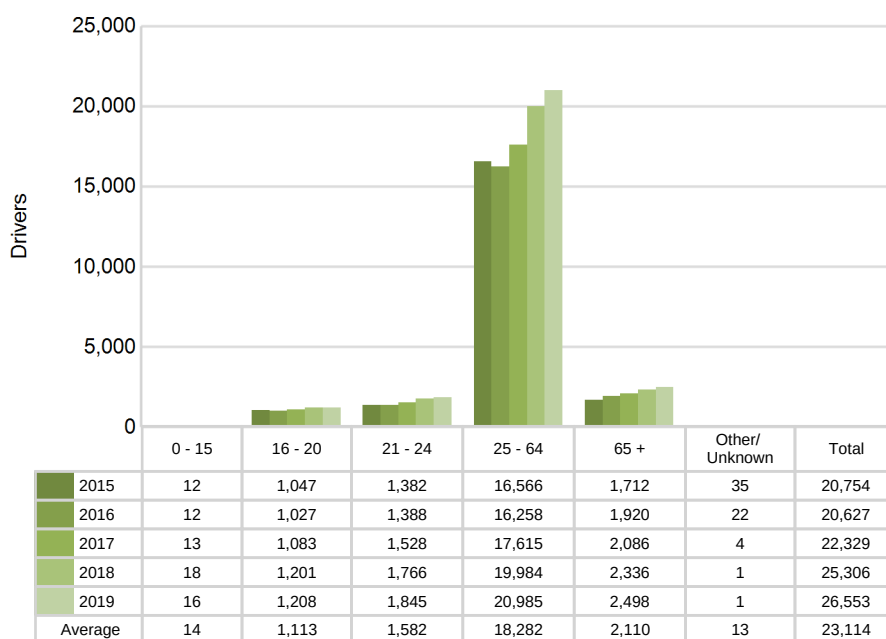
Commercial Motor Vehicles (continued)

5-Year Trend - Seatbelt Used Among Drivers by Age

Age Group	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	12	0	1	12	0	2	13	0	1	18	0	4	16	0	2
16 - 20	1,047	5	175	1,027	5	147	1,083	4	169	1,201	3	175	1,208	5	183
21 - 24	1,382	1	154	1,388	1	178	1,528	1	195	1,766	8	212	1,845	1	210
25 - 64	16,566	19	1,393	16,258	29	1,375	17,615	28	1,573	19,984	30	1,677	20,985	29	1,741
65 +	1,712	8	186	1,920	12	218	2,086	12	246	2,336	14	239	2,498	11	253
Unknown	35	0	0	22	0	1	4	0	0	1	0	0	1	0	0
Total	20,754	33	1,909	20,627	47	1,921	22,329	45	2,184	25,306	55	2,307	26,553	46	2,389

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

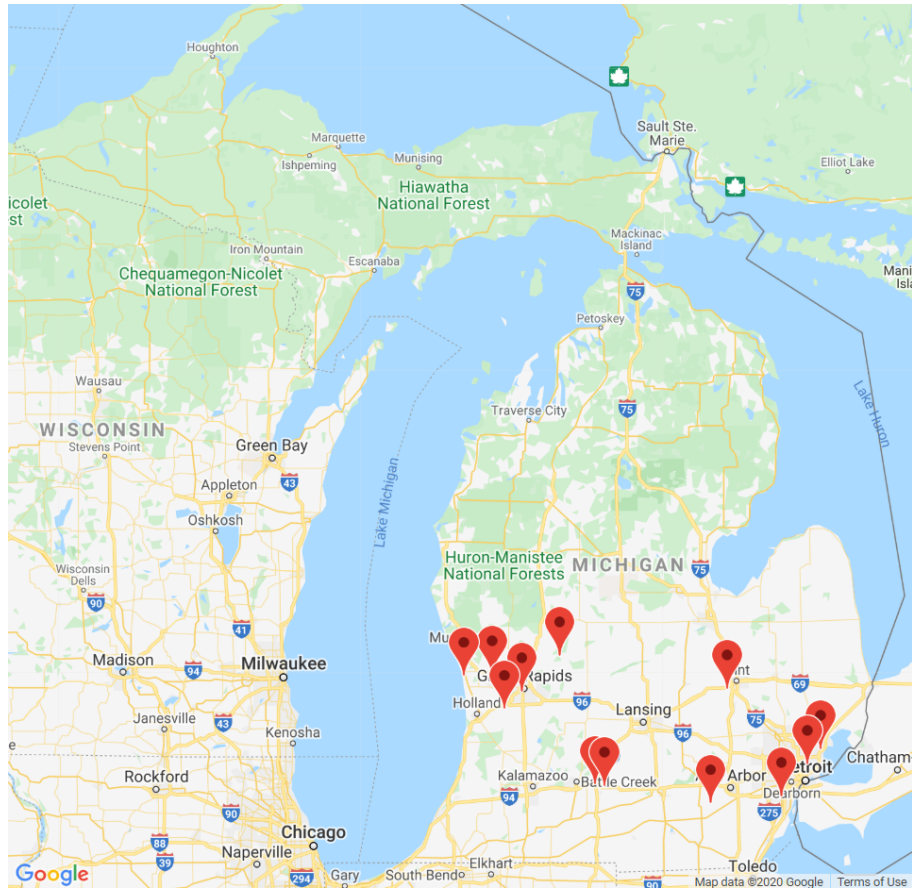


Commercial Motor Vehicles (continued)

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

Hazardous Action	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	11,488	119	11,372	114	12,334	102	13,973	121	14,717	104
Speed too fast	1,236	28	1,213	13	1,222	6	1,466	16	1,734	15
Speed too slow	26	2	19	0	18	0	20	1	22	1
Failed to yield	1,625	7	1,681	14	1,763	13	2,138	13	2,273	22
Disregard traffic control	357	8	320	12	378	7	401	6	431	6
Drove wrong way	17	0	20	2	19	4	17	2	14	0
Drove left of center	143	8	143	10	142	10	175	10	168	13
Improper passing	270	0	276	1	312	1	315	0	351	2
Improper lane use	1,168	2	1,305	2	1,364	2	1,599	3	1,619	0
Improper turn	585	1	563	1	613	2	600	0	706	1
Improper/no signal	47	0	46	0	29	0	35	0	39	0
Improper backing	559	1	592	0	591	0	680	0	727	0
Unable to stop in assured clear distance	2,308	23	2,196	14	2,515	16	2,845	20	3,017	9
Other	1,416	7	1,380	5	1,411	10	1,624	10	1,680	7
Unknown	977	11	1,091	13	1,313	5	1,655	15	1,713	12
Reckless driving	48	2	67	4	70	2	67	4	66	3
Careless/negligent driving	662	10	676	9	622	8	705	13	713	8
Uncoded & errors	232	1	297	4	299	1	318	0	368	1
Total	23,164	230	23,257	218	25,015	189	28,633	234	30,358	204

Commercial Motor Vehicles (continued)



The picture above represents all 2019 alcohol-involved commercial motor vehicle fatal crashes in Michigan.

In 2019, there were 182 alcohol-involved commercial motor vehicle crashes in Michigan:

- 12 K - Fatal Crashes
- 25 A - Suspected Serious Injury Crashes
- 31 B - Suspected Minor Injury Crashes
- 23 C - Possible Injury Crashes
- 91 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

