



2018

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

2018 Traffic Crash Data & 2014-2018 5-Year Trends

Summary Trends

Year	Total Crashes	Fatal Crashes	Injury Crashes	Fatalities	Injuries
2014	12,763	94	2,138	105	3,044
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

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 2018:

There were 28,633 drivers involved in 14,803 commercial motor vehicle crashes in Michigan. Of those crashes, 102 were classified as fatal, resulting in 112 fatalities. An additional 3,543 persons were injured.

Michigan experienced the highest number of commercial motor vehicle crashes (1,719) in January, the highest number of fatal crashes (13) and the highest number of persons killed (14) in September.

Michigan driver statistics indicate 6.4 percent of licensed drivers were age 16-20, and 4.4 percent of drivers in crashes were also in that age group.

2018 - Crashes and Injuries by Month

Month	Crashes				Persons	
	Total	Fatal	Injury	Property Damage Only (PDO)	Fatalities	Injuries
January	1,719	6	271	1,442	6	362
February	1,468	9	240	1,219	9	335
March	1,145	8	199	938	9	284
April	1,056	11	179	866	11	237
May	1,112	9	190	913	10	263
June	1,311	8	209	1,094	10	288
July	997	7	181	809	9	249
August	1,089	9	204	876	10	304
September	1,187	13	203	971	14	300
October	1,428	6	255	1,167	7	407
November	1,369	8	224	1,137	8	324
December	922	8	154	760	9	190
Total	14,803	102	2,509	12,192	112	3,543

2018 - Driver Statistics

Age Group	Statewide			Driver Rates	
	2018 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	1,904,719	50,746	21	0.1	4.1
16 - 20	662,469	463,330	1,253	18.9	27.0
21 - 24	559,419	454,350	1,873	33.5	41.2
25 - 64	5,152,704	4,728,005	20,993	40.7	44.4
65 +	1,716,604	1,525,734	2,447	14.3	16.0
Unknown	0	0	2,046	--	--
Total	9,995,915	7,222,165	28,633	28.6	39.6

2018 - 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	11,099	38.8	95	40.6	2,313	8,691
Motor home	45	0.2	0	0.0	8	37
Pickup truck	1,488	5.2	20	8.5	296	1,172
Small truck under 10,000 lbs. GVWR	101	0.4	0	0.0	11	90
Motorcycle	32	0.1	5	2.1	19	8
Moped / goped	4	0.0	1	0.4	1	2
Go-cart / golf cart	2	0.0	0	0.0	0	2
Snowmobile	0	0.0	0	0.0	0	0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	0	0.0	0	0.0	0	0
Other	82	0.3	0	0.0	6	76
Truck/bus over 10,000 lbs.	15,539	54.3	113	48.3	2,662	12,764
Unknown	241	0.8	0	0.0	10	231
Total	28,633	100.0	234	100.0	5,326	23,073

Commercial Motor Vehicles (continued)

5-Year Trend - Crashes by Month

Month	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
January	2,043	6	1,472	10	1,103	7	1,157	14	1,719	6
February	1,628	13	1,365	6	1,031	3	860	1	1,468	9
March	989	10	915	1	937	3	1,167	7	1,145	8
April	728	8	783	5	848	9	827	7	1,056	11
May	884	6	847	4	958	7	1,180	3	1,112	9
June	819	10	921	8	928	11	1,015	4	1,311	8
July	774	9	871	11	830	10	870	4	997	7
August	818	7	803	9	1,012	8	943	8	1,089	9
September	977	8	976	7	1,088	14	1,029	10	1,187	13
October	1,081	5	1,057	7	1,030	8	1,239	8	1,428	6
November	1,233	7	993	8	1,025	15	1,070	13	1,369	8
December	789	5	887	2	1,191	9	1,529	5	922	8
Total	12,763	94	11,890	78	11,981	104	12,886	84	14,803	102

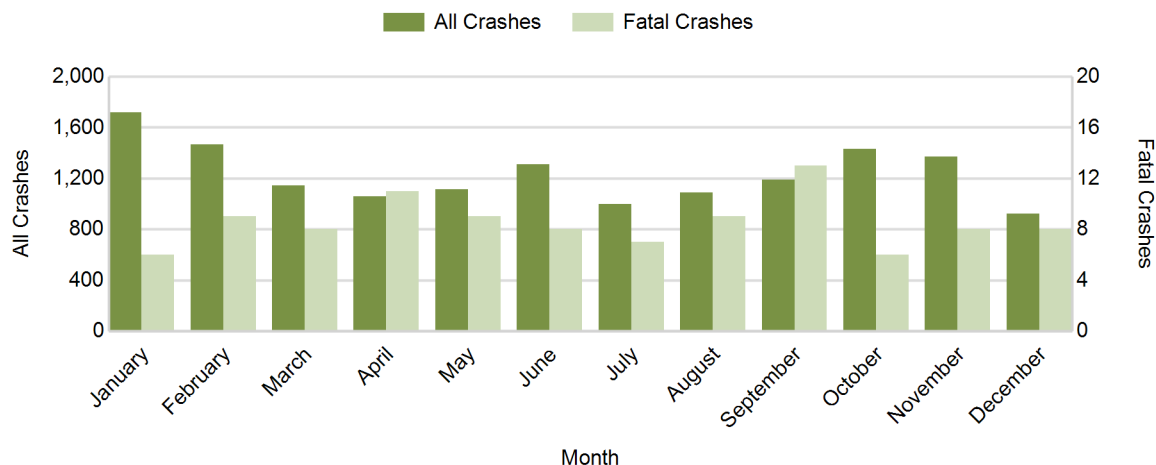
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

5-Year Trend - Crashes by Day of Week

Day	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Monday	2,167	12	2,127	10	2,153	18	2,317	14	2,710	19
Tuesday	2,402	22	2,216	8	2,312	18	2,382	12	2,785	21
Wednesday	2,498	13	2,272	15	2,208	16	2,385	16	2,618	17
Thursday	2,381	21	2,084	18	2,209	23	2,375	16	2,569	13
Friday	2,109	13	2,041	16	2,004	19	2,324	19	2,688	17
Saturday	777	9	743	8	681	6	732	5	914	7
Sunday	429	4	407	3	414	4	371	2	519	8
Total	12,763	94	11,890	78	11,981	104	12,886	84	14,803	102

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

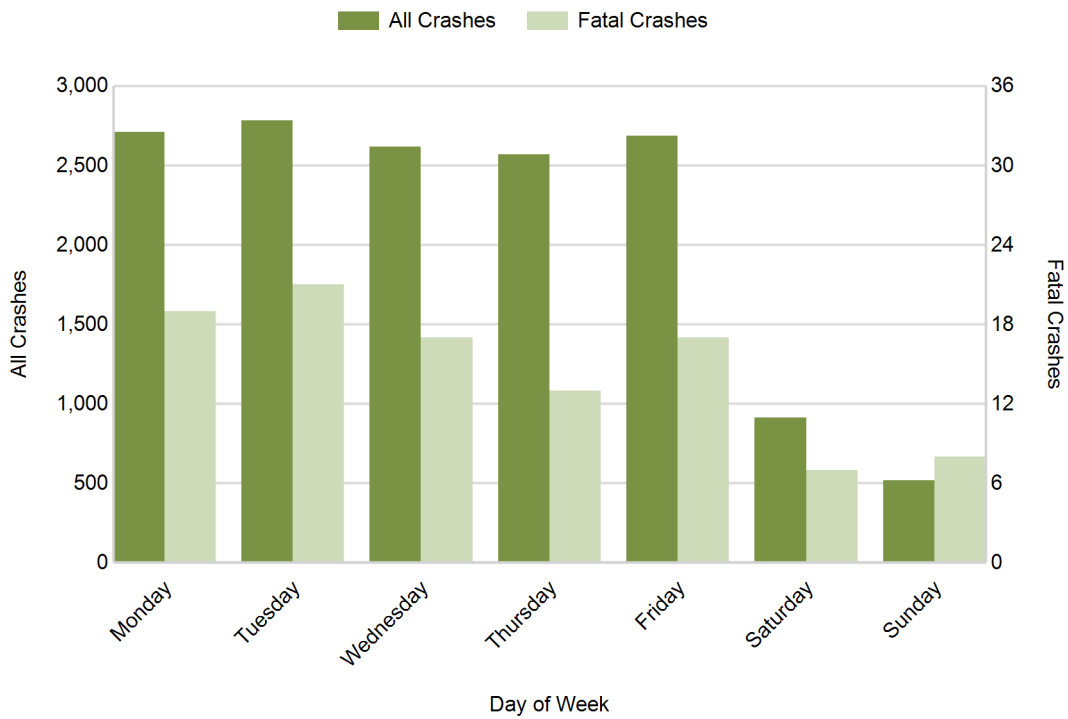
2018 Crashes by Month



2018 - 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	2,710	18.3	19	18.6	54	113	288	2,236
Tuesday	2,785	18.8	21	20.6	54	127	299	2,284
Wednesday	2,618	17.7	17	16.7	44	127	259	2,171
Thursday	2,569	17.4	13	12.7	55	127	269	2,105
Friday	2,688	18.2	17	16.7	54	136	252	2,229
Saturday	914	6.2	7	6.9	23	46	101	737
Sunday	519	3.5	8	7.8	16	25	40	430
Total	14,803	100.0	102	100.0	300	701	1,508	12,192

2018 Day of Week and Severity

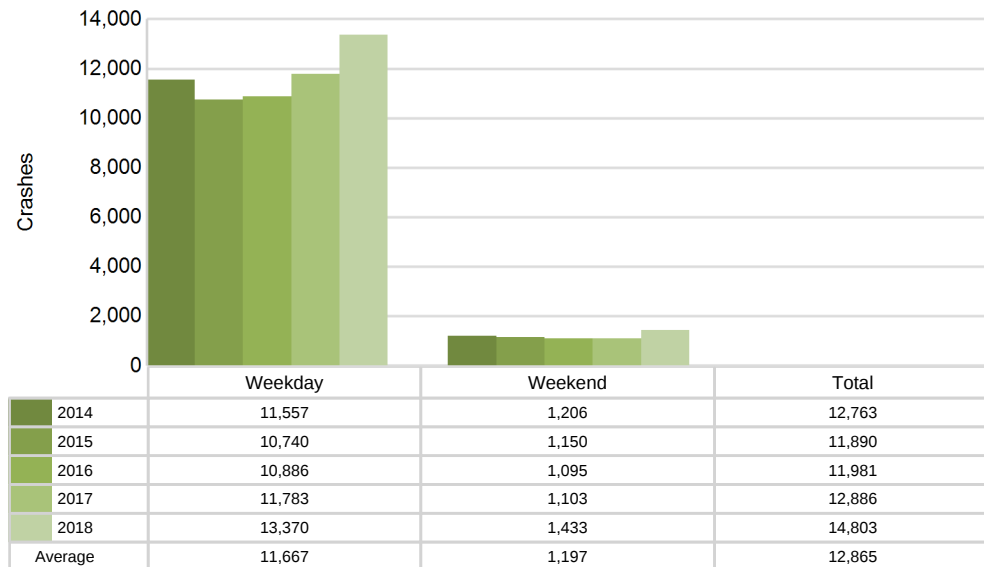


Commercial Motor Vehicles (continued)

5-Year Trend - Crashes by Weekday and Weekend

Portion of Week	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Weekday	11,557	81	10,740	67	10,886	94	11,783	77	13,370	87
Weekend	1,206	13	1,150	11	1,095	10	1,103	7	1,433	15
Total	12,763	94	11,890	78	11,981	104	12,886	84	14,803	102

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



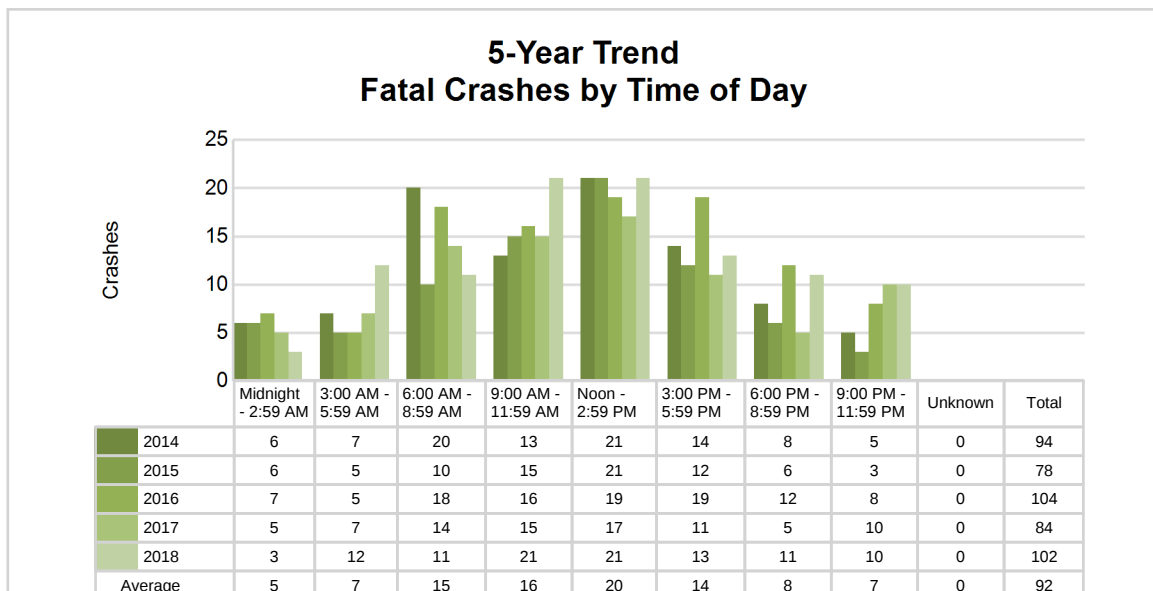
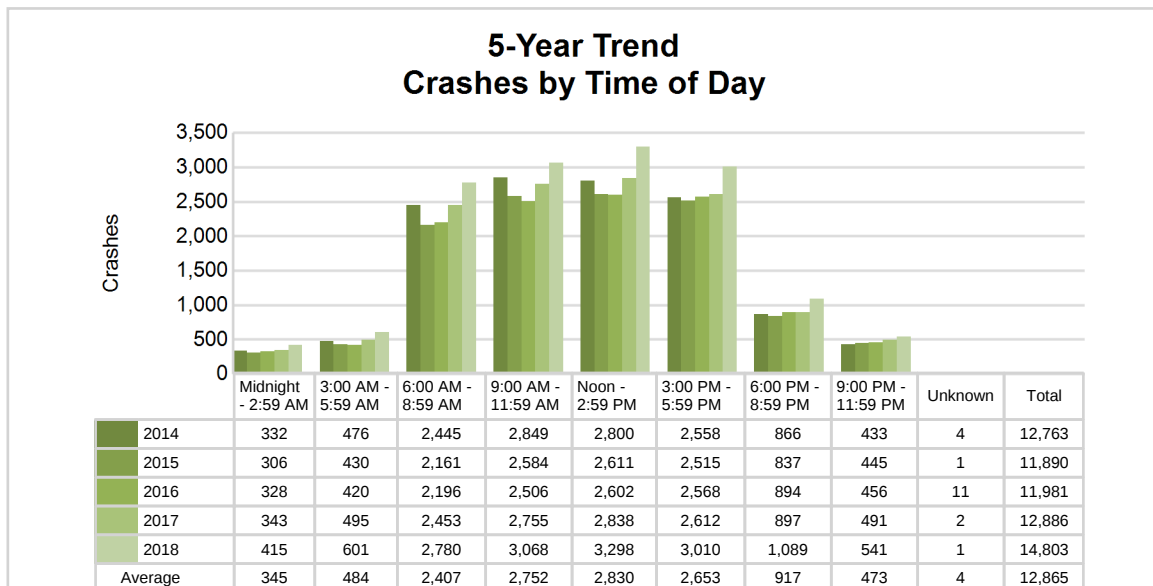
Commercial Motor Vehicles (continued)

5

5-Year Trend - Crashes by Time of Day

Time of Day	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	332	6	306	6	328	7	343	5	415	3
3:00 AM - 5:59 AM	476	7	430	5	420	5	495	7	601	12
6:00 AM - 8:59 AM	2,445	20	2,161	10	2,196	18	2,453	14	2,780	11
9:00 AM - 11:59 AM	2,849	13	2,584	15	2,506	16	2,755	15	3,068	21
Noon - 2:59 PM	2,800	21	2,611	21	2,602	19	2,838	17	3,298	21
3:00 PM - 5:59 PM	2,558	14	2,515	12	2,568	19	2,612	11	3,010	13
6:00 PM - 8:59 PM	866	8	837	6	894	12	897	5	1,089	11
9:00 PM - 11:59 PM	433	5	445	3	456	8	491	10	541	10
Unknown	4	0	1	0	11	0	2	0	1	0
Total	12,763	94	11,890	78	11,981	104	12,886	84	14,803	102

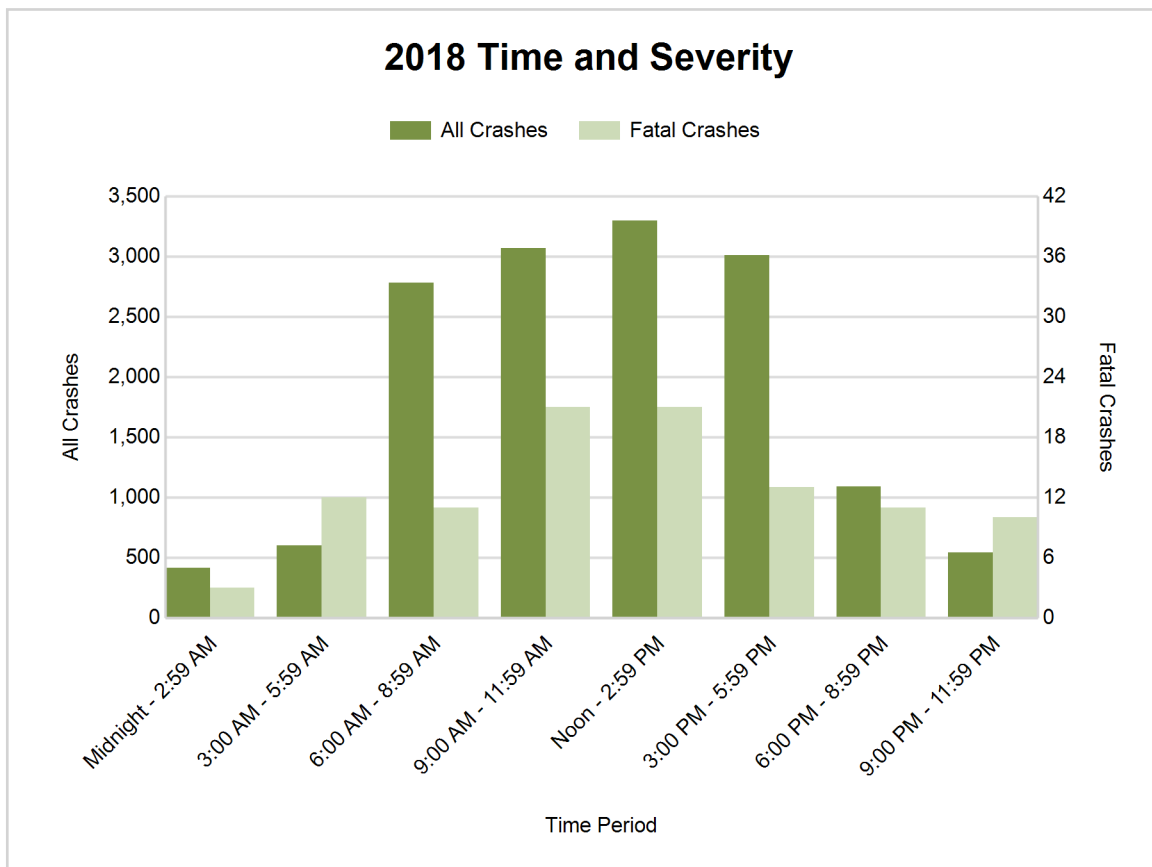
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same time period



Commercial Motor Vehicles (continued)

2018 - 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	415	2.8	3	2.9	17	25	42	328
3:00 AM - 5:59 AM	601	4.1	12	11.8	21	37	60	471
6:00 AM - 8:59 AM	2,780	18.8	11	10.8	49	135	271	2,314
9:00 AM - 11:59 AM	3,068	20.7	21	20.6	55	139	297	2,556
Noon - 2:59 PM	3,298	22.3	21	20.6	63	152	345	2,717
3:00 PM - 5:59 PM	3,010	20.3	13	12.7	59	125	299	2,514
6:00 PM - 8:59 PM	1,089	7.4	11	10.8	23	53	127	875
9:00 PM - 11:59 PM	541	3.7	10	9.8	13	35	67	416
Unknown	1	0.0	0	0.0	0	0	0	1
Total	14,803	100.0	102	100.0	300	701	1,508	12,192



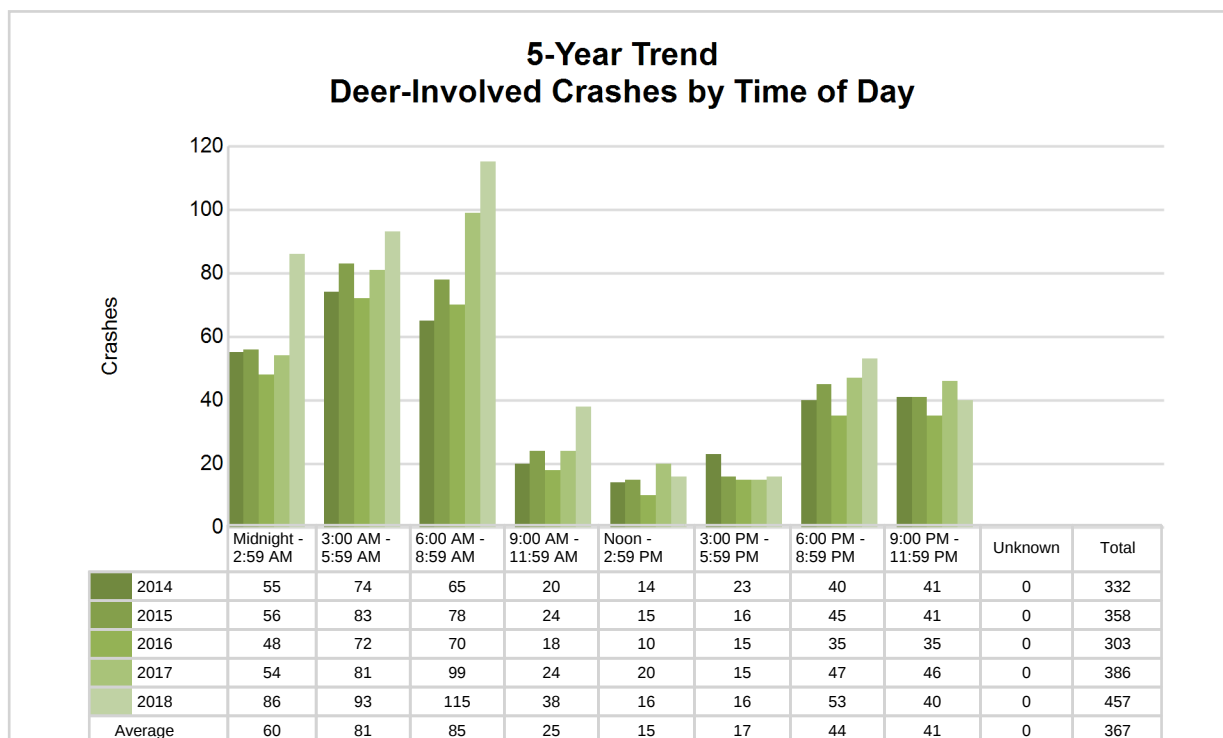
Commercial Motor Vehicles (continued)

7

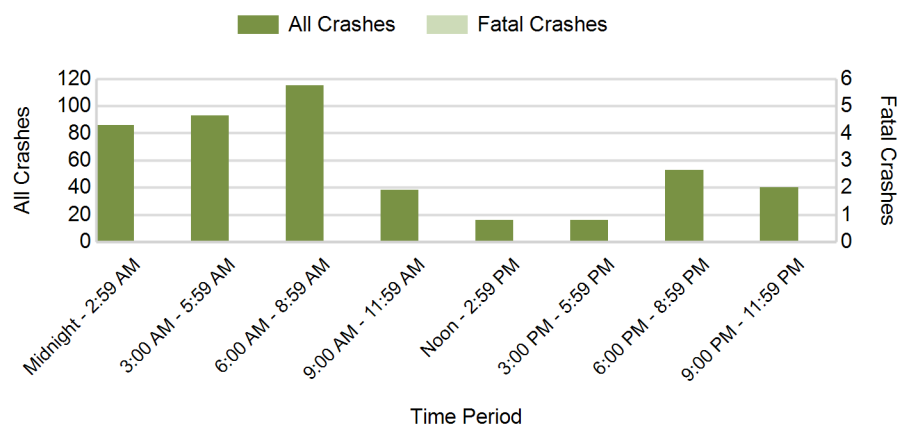
5-Year Trend - Deer-Involved Crashes by Time of Day

Time of Day	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	55	0	56	0	48	0	54	0	86	0
3:00 AM - 5:59 AM	74	0	83	0	72	0	81	0	93	0
6:00 AM - 8:59 AM	65	0	78	0	70	0	99	0	115	0
9:00 AM - 11:59 AM	20	0	24	0	18	0	24	0	38	0
Noon - 2:59 PM	14	0	15	0	10	0	20	0	16	0
3:00 PM - 5:59 PM	23	0	16	0	15	0	15	0	16	0
6:00 PM - 8:59 PM	40	0	45	0	35	0	47	0	53	0
9:00 PM - 11:59 PM	41	0	41	0	35	0	46	0	40	0
Unknown	0	0	0	0	0	0	0	0	0	0
Total	332	0	358	0	303	0	386	0	457	0

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



2018 Time and Severity of Deer-Involved Crashes



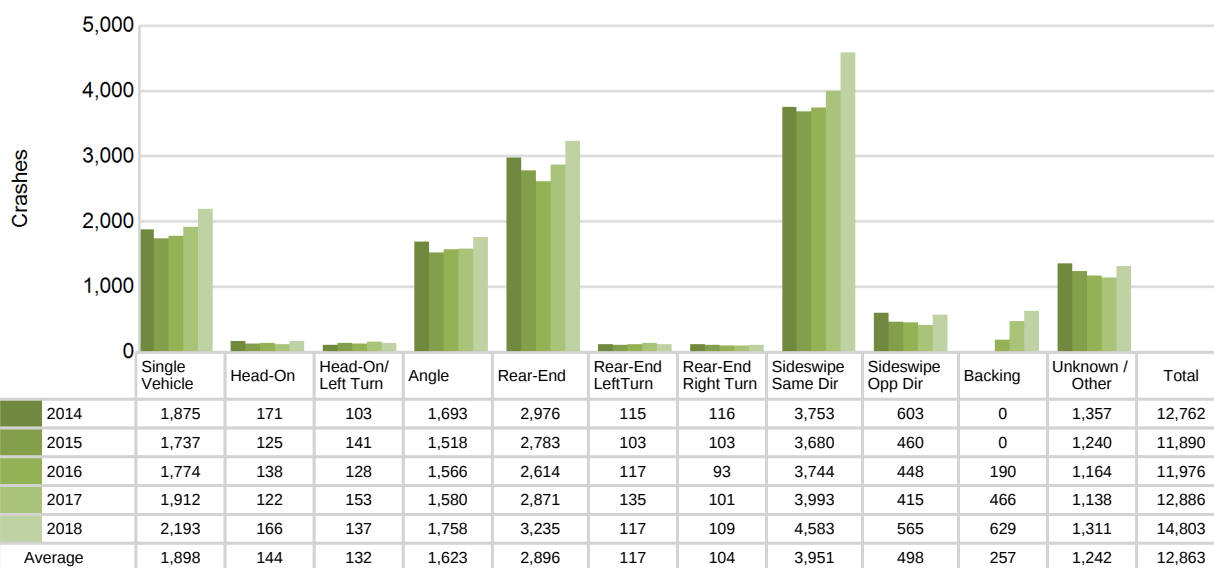
There were no fatal deer-involved commercial motor vehicle crashes in Michigan in 2018

Commercial Motor Vehicles (continued)

5-Year Trend - Crashes by Crash Type

Crash Type	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Single motor vehicle	1,875	13	1,737	12	1,774	16	1,912	6	2,193	5
Head-on	171	21	125	12	138	17	122	16	166	20
Head-on / left turn	103	3	141	2	128	6	153	3	137	0
Angle	1,693	23	1,518	12	1,566	26	1,580	19	1,758	24
Rear-end	2,976	20	2,783	21	2,614	24	2,871	28	3,235	27
Rear-end left turn	115	2	103	1	117	5	135	1	117	4
Rear-end right turn	116	0	103	0	93	0	101	0	109	0
Sideswipe same direction	3,753	5	3,680	4	3,744	3	3,993	5	4,583	5
Sideswipe opposite direction	603	1	460	5	448	6	415	0	565	2
Backing	0	0	0	0	190	0	466	0	629	2
Other / Unknown	1,357	6	1,240	9	1,164	1	1,138	6	1,311	13
Uncoded and Errors	1	0	0	0	5	0	0	0	0	0
Total	12,763	94	11,890	78	11,981	104	12,886	84	14,803	102

5-Year Trend Crashes by Crash Type



Commercial Motor Vehicles (continued)

2018 - 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	9	0	1	8	0	1	3	5	0	0	5	0	1
Alger	11	0	5	6	0	1	7	3	0	0	0	0	6
Allegan	220	2	43	175	43	52	61	63	1	2	10	2	58
Alpena	21	1	3	17	0	5	9	7	1	0	0	1	3
Antrim	26	1	4	21	0	8	4	13	1	1	2	1	7
Arenac	20	0	7	13	6	7	2	5	1	0	5	0	8
Baraga	12	0	2	10	0	9	2	1	0	0	0	0	2
Barry	37	0	8	29	0	0	18	19	0	0	5	0	12
Bay	75	2	17	56	16	4	20	35	0	2	1	2	23
Benzie	18	0	2	16	0	4	4	10	0	0	6	0	2
Berrien	335	2	60	273	198	34	39	64	2	2	20	2	84
Branch	72	0	10	62	30	17	5	20	0	0	17	0	35
Calhoun	281	1	58	222	175	0	44	62	4	5	22	1	76
Cass	60	0	15	45	0	19	19	21	1	0	2	0	21
Charlevoix	38	0	3	35	0	12	7	19	0	0	3	0	5
Cheboygan	28	0	5	23	12	2	5	9	0	0	6	0	6
Chippewa	28	0	2	26	7	0	8	13	0	0	2	0	3
Clare	32	0	7	25	0	11	7	14	0	0	0	0	9
Clinton	108	2	11	95	59	9	8	32	0	0	11	2	16
Crawford	14	0	5	9	9	1	1	3	0	0	1	0	6
Delta	58	1	16	41	0	25	16	17	1	2	8	1	21
Dickinson	24	0	6	18	0	9	5	10	0	0	1	0	8
Eaton	149	3	19	127	76	0	31	42	6	1	10	4	30
Emmet	35	0	4	31	0	15	4	15	0	0	2	0	6
Genesee	467	3	83	381	186	34	50	196	6	3	11	4	123
Gladwin	20	0	4	16	0	0	9	11	0	0	2	0	4
Gogebic	8	0	1	7	0	7	1	0	0	0	0	0	3
Grand Traverse	128	0	24	104	0	29	22	76	2	0	2	0	38
Gratiot	51	1	14	36	0	20	13	18	2	0	5	1	18
Hillsdale	44	3	8	33	0	15	13	16	1	0	8	3	16
Houghton	30	3	6	21	0	8	12	9	1	1	1	3	10

Commercial Motor Vehicles (continued)

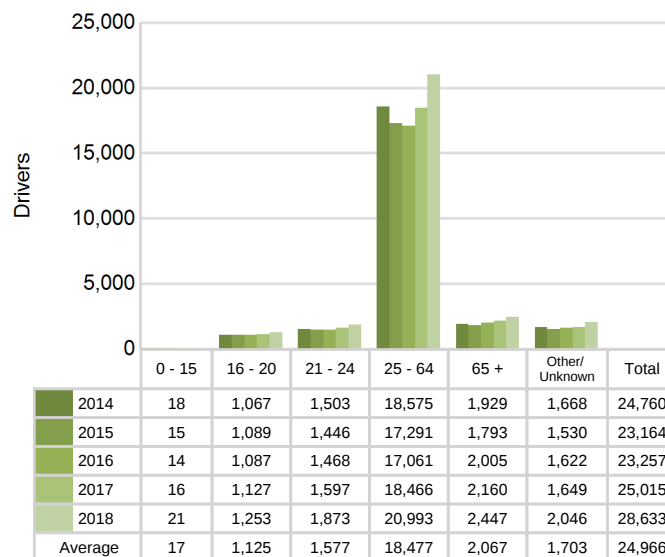
2018 - Reported Motor Vehicle Crashes by County (continued)

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	43	0	6	37	0	0	15	28	0	0	7	0	7
Ingham	389	0	72	317	107	20	75	187	4	4	8	0	97
Ionia	112	1	23	88	53	0	32	27	3	2	7	1	33
Iosco	22	3	2	17	0	8	4	10	0	1	2	5	5
Iron	8	0	3	5	0	4	1	3	0	0	3	0	3
Isabella	70	1	13	56	0	22	17	31	2	0	9	1	19
Jackson	208	3	34	171	95	20	25	68	4	2	22	4	62
Kalamazoo	427	1	74	352	142	41	44	200	8	3	11	1	111
Kalkaska	16	2	4	10	0	7	4	5	0	2	2	2	7
Kent	1,135	5	187	943	179	174	207	571	12	4	14	5	250
Keweenaw	1	0	0	1	0	1	0	0	0	0	0	0	0
Lake	8	0	3	5	0	3	3	2	0	0	1	0	7
Lapeer	105	1	20	84	29	0	35	41	0	2	11	1	29
Leelanau	16	0	1	15	0	0	12	4	0	0	3	0	1
Lenawee	113	0	25	88	0	43	32	38	4	0	7	0	36
Livingston	228	1	42	185	76	44	34	74	4	2	5	2	66
Luce	3	0	0	3	0	0	2	1	0	0	2	0	0
Mackinac	19	0	2	17	5	7	4	3	0	0	6	0	2
Macomb	1,284	5	206	1,073	197	0	401	683	17	12	3	5	280
Manistee	25	0	6	19	0	13	4	8	0	0	4	0	9
Marquette	59	0	17	42	0	26	13	20	2	0	3	0	37
Mason	38	0	8	30	0	22	0	16	0	0	7	0	12
Mecosta	36	1	5	30	0	8	13	15	0	1	5	1	9
Menominee	14	0	2	12	0	6	4	4	0	0	2	0	2
Midland	64	1	7	56	0	10	9	45	1	1	1	1	8
Missaukee	16	0	5	11	0	0	8	8	0	0	5	0	5
Monroe	365	5	64	296	173	82	23	87	10	7	5	6	94
Montcalm	63	3	13	47	0	7	29	27	2	1	5	3	22
Montmorency	8	0	2	6	0	0	8	0	0	1	1	0	4
Muskegon	130	3	21	106	7	28	13	82	3	3	2	3	36
Newaygo	38	1	8	29	0	0	24	14	1	1	2	1	12
Oakland	1,783	5	296	1,482	495	134	316	833	17	5	8	5	397
Oceana	38	0	9	29	0	11	7	20	0	0	3	0	12
Ogemaw	15	0	4	11	2	0	8	5	0	0	1	0	15
Ontonagon	10	1	2	7	0	4	6	0	1	0	3	1	4
Osceola	40	0	9	31	0	14	12	14	1	0	8	0	11
Oscoda	1	0	0	1	0	0	1	0	0	0	1	0	0
Otsego	42	1	6	35	15	0	12	15	1	0	6	1	8
Ottawa	418	3	54	361	77	49	50	242	3	4	16	3	72
Presque Isle	8	0	1	7	0	6	1	1	0	0	1	0	1
Roscommon	33	0	6	27	5	2	17	9	1	0	6	0	36
Saginaw	148	6	27	115	24	0	66	58	10	2	2	6	38
St. Clair	165	2	25	138	73	0	15	76	2	1	8	2	37
St. Joseph	77	1	18	58	0	33	22	22	1	1	4	1	23
Sanilac	33	0	5	28	0	0	20	13	1	0	11	0	6
Schoolcraft	10	0	0	10	0	6	2	2	0	0	4	0	0
Shiawassee	82	1	11	70	30	0	32	20	2	0	13	1	15
Tuscola	43	2	11	30	0	0	26	17	0	0	2	3	18
Van Buren	139	0	19	120	97	0	13	29	3	1	8	0	25
Washtenaw	669	4	106	559	156	164	58	291	7	4	7	5	142
Wayne	3,468	14	565	2,889	1,118	257	538	1,555	34	8	3	15	750
Wexford	59	0	7	52	0	25	15	19	0	0	9	0	8
Total	14,803	102	2,509	12,192	3,972	1,659	2,781	6,371	191	94	457	112	3,543

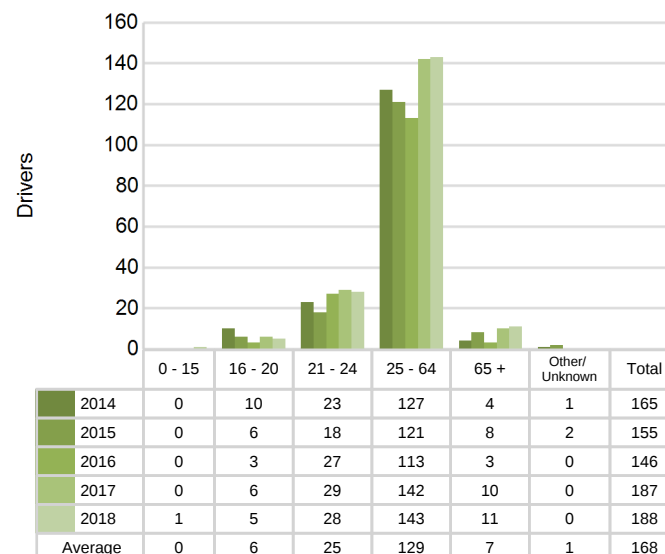
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

Driver Age	2014		2015		2016		2017		2018	
	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	18	0	15	0	14	0	16	0	21	1
16 - 20	1,067	10	1,089	6	1,087	3	1,127	6	1,253	5
21 - 24	1,503	23	1,446	18	1,468	27	1,597	29	1,873	28
25 - 64	18,575	127	17,291	121	17,061	113	18,466	142	20,993	143
65 +	1,929	4	1,793	8	2,005	3	2,160	10	2,447	11
Unknown	1,668	1	1,530	2	1,622	0	1,649	0	2,046	0
Total	24,760	165	23,164	155	23,257	146	25,015	187	28,633	188

5-Year Trend Total Drivers in Crashes by Age



5-Year Trend Total Drivers Coded Drinking by Age



Commercial Motor Vehicles (continued)

2018 - 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	1	1	1	1	0	0	1	0	0
16 - 20	16	13	5	5	0	1	0	1	3
21 - 24	42	37	21	28	0	2	10	4	12
25 - 64	284	315	120	143	0	16	29	46	52
65 +	23	19	10	11	0	2	5	2	2
Unknown	25	0	0	0	0	0	0	0	0
Total	391	385	157	188	0	21	45	53	69

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 2018, there were 391 drivers in alcohol-involved crashes; 188 (48.1%) of those drivers were coded as had-been-drinking by the officer on the crash form.

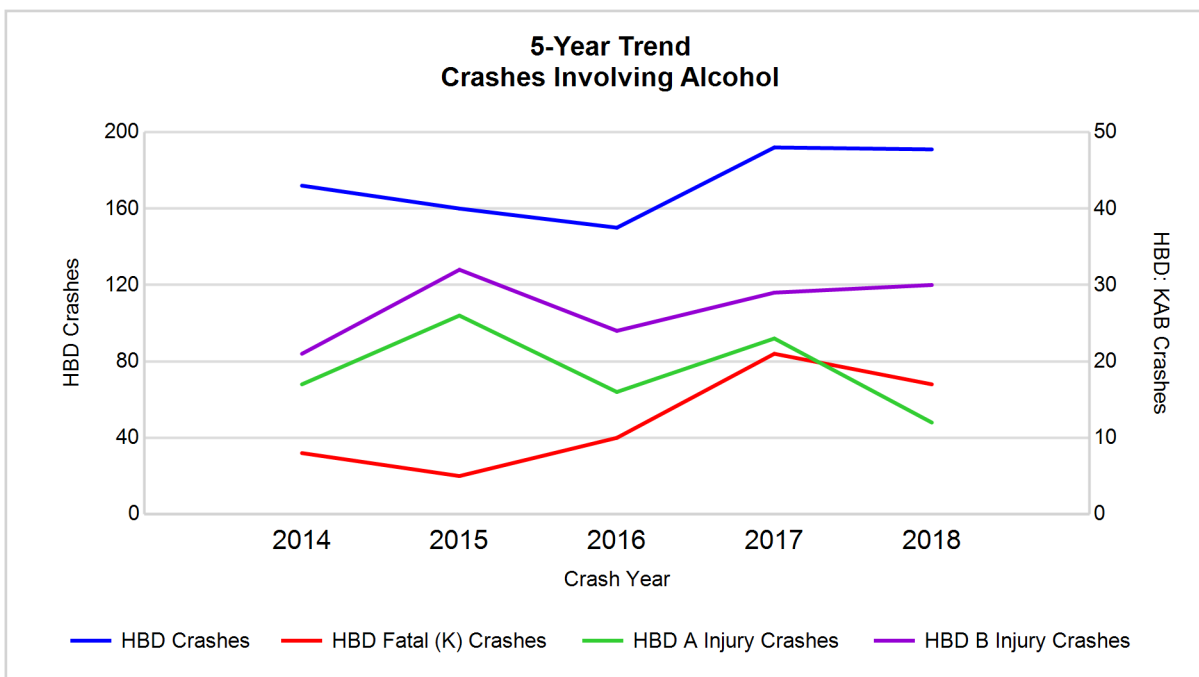
- 98 (52.1%) of the 188 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 53 (54.1%) of the 98 drivers had a BAC at or above 0.17 g/dL.
- 157 (83.5%) of the 188 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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
2014	12,763	172	1.3	94	8	8.5	225	17	7.6	525	21	4.0
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

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



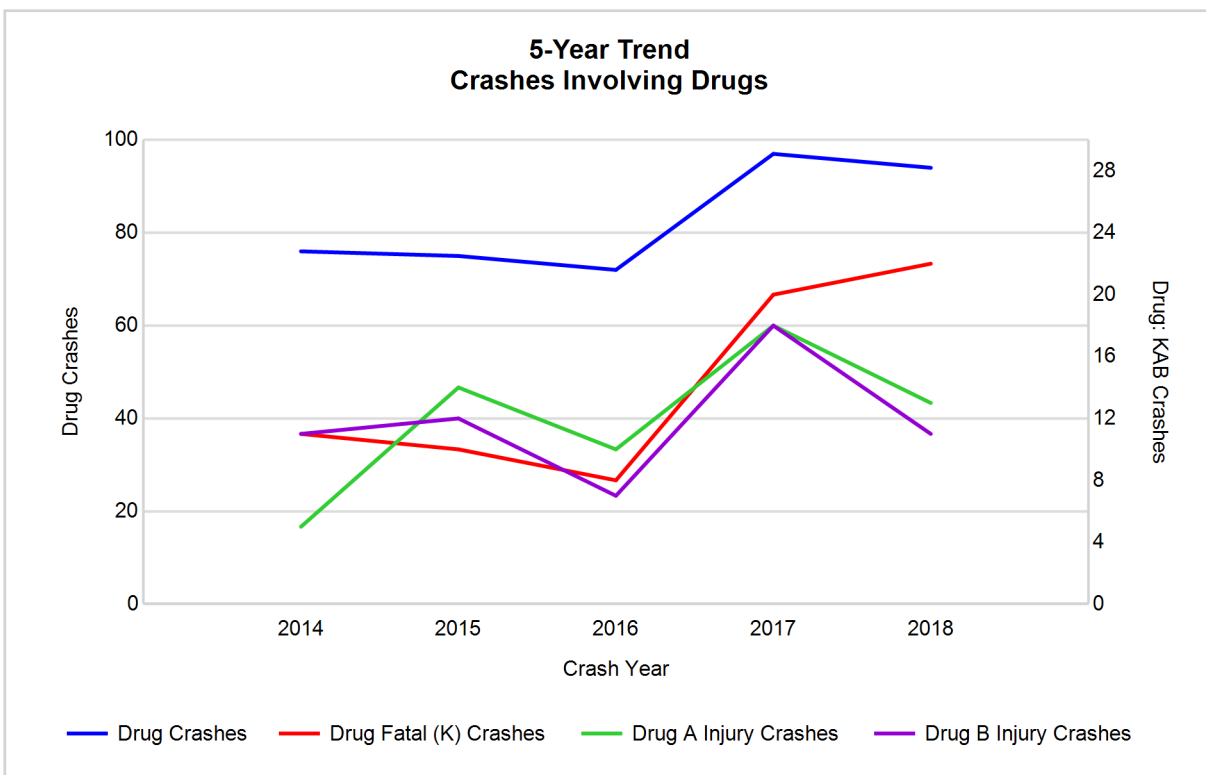
Note: Had-Been-Drinking (HBD)

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
2014	12,763	76	0.6	94	11	11.7	225	5	2.2	525	11	2.1
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

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



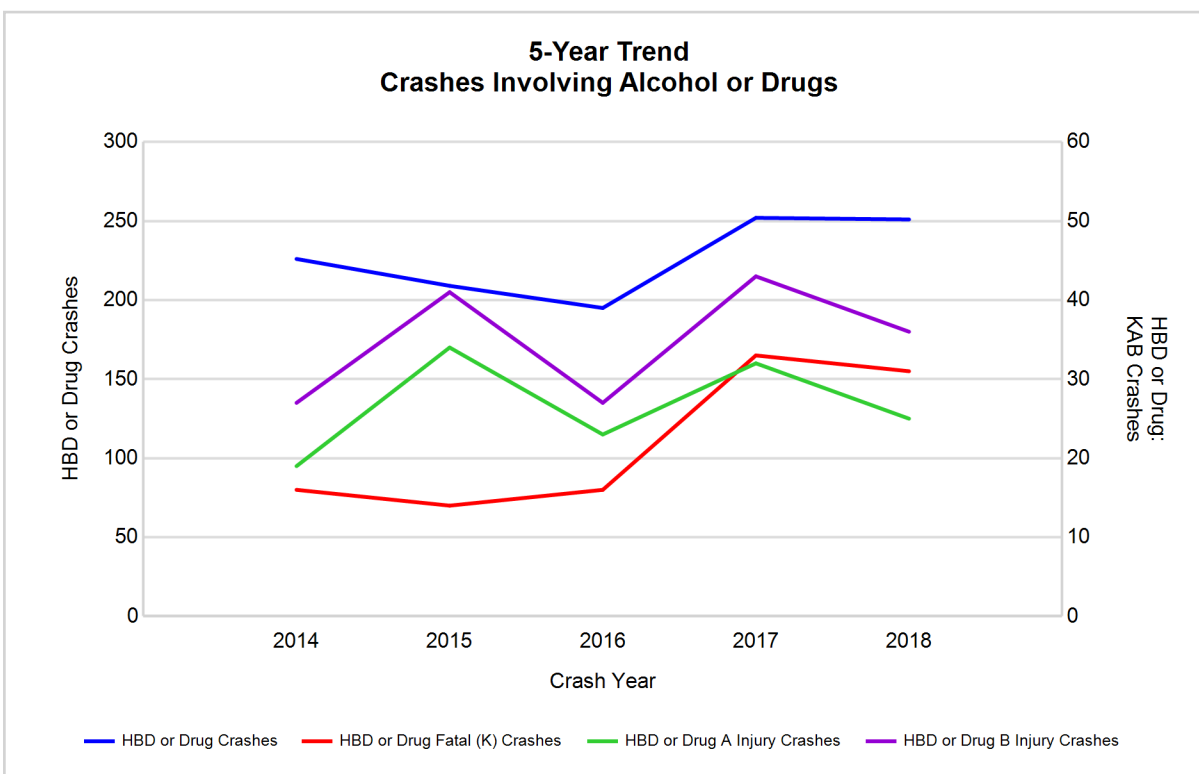
Commercial Motor Vehicles (continued)

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
2014	12,763	226	1.8	94	16	17.0	225	19	8.4	525	27	5.1
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

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)

15

2018 - 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	11,607	10,187	87.8	69	53	76.8	242	182	75.2	563	517	91.8	1,377	1,297	94.2	8,413	8,135	96.7
Motor home	45	39	86.7	0	0	0.0	2	2	100.0	1	1	100.0	1	1	100.0	36	35	97.2
Pickup truck	1,543	1,329	86.1	13	7	53.8	47	33	70.2	57	50	87.7	145	132	91.0	1,155	1,107	95.8
Small truck under 10,000 lbs. GVWR	103	83	80.6	0	0	0.0	2	2	100.0	3	2	66.7	3	3	100.0	79	76	96.2
Motorcycle	34	25	73.5	6	5	83.3	8	6	75.0	6	5	83.3	6	6	100.0	6	3	50.0
Moped / goped	4	0	0.0	1	0	0.0	0	0	0.0	1	0	0.0	0	0	0.0	0	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	1	0	0.0
Snowmobile	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Other	82	41	50.0	0	0	0.0	0	0	0.0	1	1	100.0	2	0	0.0	51	40	78.4
Truck/bus over 10,000 lbs.	15,946	14,213	89.1	12	5	41.7	74	49	66.2	288	184	63.9	667	427	64.0	14,152	13,544	95.7
Unknown	241	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	1	0	0.0
Total	29,607	25,917	87.5	101	70	69.3	375	274	73.1	920	760	82.6	2,201	1,866	84.8	23,894	22,940	96.0

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.

2018 - 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	280	149	53.2	2	2	100.0	16	5	31.3	71	25	35.2	174	103	59.2	15	14	93.3
16 - 20	1,373	1,273	92.7	4	4	100.0	30	17	56.7	85	66	77.6	196	163	83.2	1,052	1,022	97.1
21 - 24	1,929	1,808	93.7	9	9	100.0	36	25	69.4	91	75	82.4	169	153	90.5	1,615	1,546	95.7
25 - 64	21,441	20,275	94.6	64	38	59.4	248	188	75.8	573	505	88.1	1,463	1,264	86.4	19,007	18,274	96.1
65 +	2,538	2,411	95.0	22	17	77.3	45	39	86.7	100	89	89.0	199	183	92.0	2,164	2,083	96.3
Unknown	2,046	1	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	41	1	2.4
Total	29,607	25,917	87.5	101	70	69.3	375	274	73.1	920	760	82.6	2,201	1,866	84.8	23,894	22,940	96.0

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	2014			2015			2016			2017			2018		
	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	108	1	7	91	2	9	73	1	7	44	0	2	44	1	4
Shoulder belt only used	43	0	4	42	0	4	97	0	12	133	0	20	130	1	11
Lap belt only used	231	0	18	202	1	10	186	0	14	168	1	15	139	1	13
Both lap & shoulder belts used	21,912	41	1,986	20,504	32	1,895	20,332	47	1,894	22,020	44	2,148	25,036	53	2,283
No belts used	239	12	73	202	14	54	221	12	57	187	11	45	203	13	74
Child restraint used	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
Child restraint not used, unavailable or improper use	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Restraint failure	6	0	0	6	0	0	12	0	1	8	0	1	1	0	0
Restraint use unknown	1,120	9	66	1,110	5	62	1,736	15	76	2,070	9	96	2,684	11	132
Helmet worn	23	3	13	24	7	13	20	2	13	20	2	11	23	4	16
Helmet not worn	9	3	5	11	2	7	21	5	2	10	1	8	7	2	3
Helmet use unknown	1	1	0	2	1	1	6	0	1	3	0	1	2	0	1
Uncoded & errors	1,065	0	0	970	0	0	553	0	1	350	0	0	364	0	0
Total	24,760	70	2,172	23,164	64	2,055	23,257	82	2,078	25,015	68	2,347	28,633	86	2,537

5-Year Trend - Restraint Use Among Drivers Coded Drinking

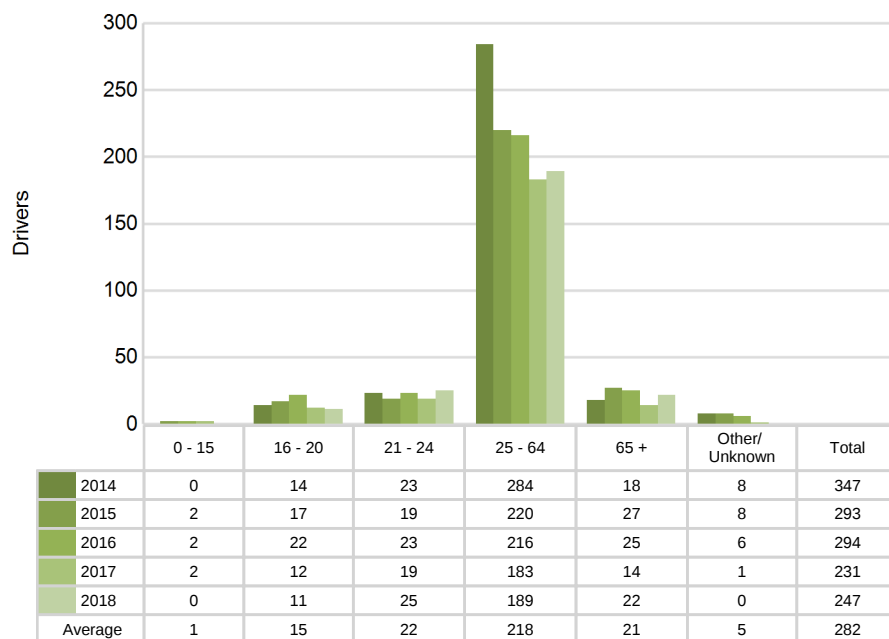
Restraint Use	2014			2015			2016			2017			2018		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0
Shoulder belt only used	0	0	0	0	0	0	1	0	0	2	0	1	0	0	0
Lap belt only used	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0
Both lap & shoulder belts used	127	1	37	121	0	59	106	1	50	140	8	51	144	7	47
No belts used	14	2	10	11	0	8	13	4	5	10	5	2	7	1	5
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	23	0	6	21	0	9	24	2	8	32	4	14	34	3	11
Helmet worn	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1
Helmet not worn	0	0	0	0	0	0	1	1	0	2	0	2	1	1	0
Helmet use unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uncoded & errors	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Total	165	3	54	155	0	77	146	8	63	187	18	70	188	12	64

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

Age Group	2014			2015			2016			2017			2018		
	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	0	0	0	2	0	1	2	0	0	2	0	0	0	0	0
16 - 20	14	0	5	17	2	5	22	3	11	12	1	2	11	0	7
21 - 24	23	2	12	19	0	8	23	2	4	19	2	7	25	0	15
25 - 64	284	9	59	220	9	47	216	7	40	183	7	34	189	11	50
65 +	18	2	4	27	5	2	25	1	9	14	1	4	22	3	6
Unknown	8	0	0	8	0	0	6	0	0	1	0	0	0	0	0
Total	347	13	80	293	16	63	294	13	64	231	11	47	247	14	78

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

5-Year Trend Driver Seatbelt Not Used



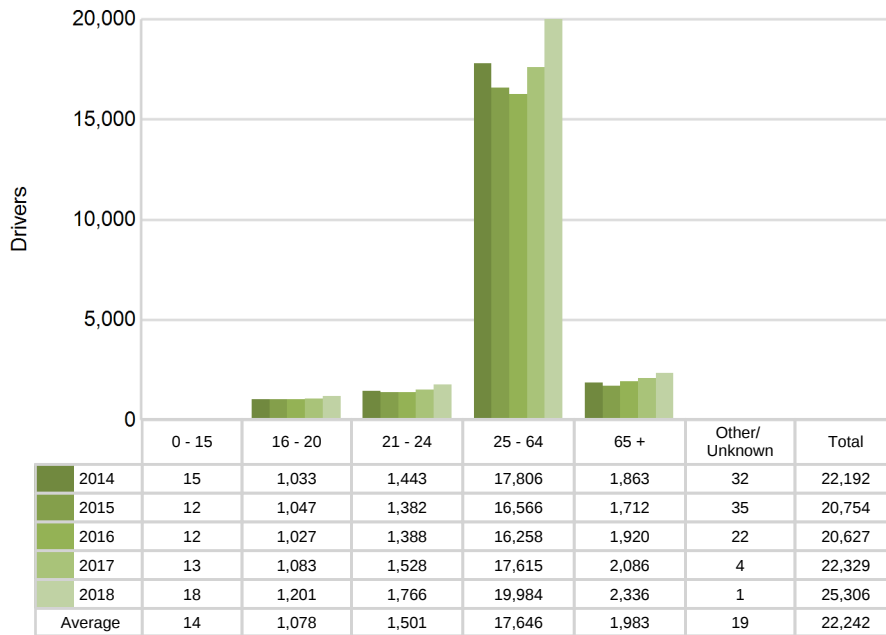
Commercial Motor Vehicles (continued)

5-Year Trend - Seatbelt Used Among Drivers by Age

Age Group	2014			2015			2016			2017			2018		
	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	15	1	4	12	0	1	12	0	2	13	0	1	18	0	4
16 - 20	1,033	5	189	1,047	5	175	1,027	5	147	1,083	4	169	1,201	3	175
21 - 24	1,443	3	161	1,382	1	154	1,388	1	178	1,528	1	195	1,766	8	212
25 - 64	17,806	20	1,447	16,566	19	1,393	16,258	29	1,375	17,615	28	1,573	19,984	30	1,677
65 +	1,863	12	206	1,712	8	186	1,920	12	218	2,086	12	246	2,336	14	239
Unknown	32	0	1	35	0	0	22	0	1	4	0	0	1	0	0
Total	22,192	41	2,008	20,754	33	1,909	20,627	47	1,921	22,329	45	2,184	25,306	55	2,307

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

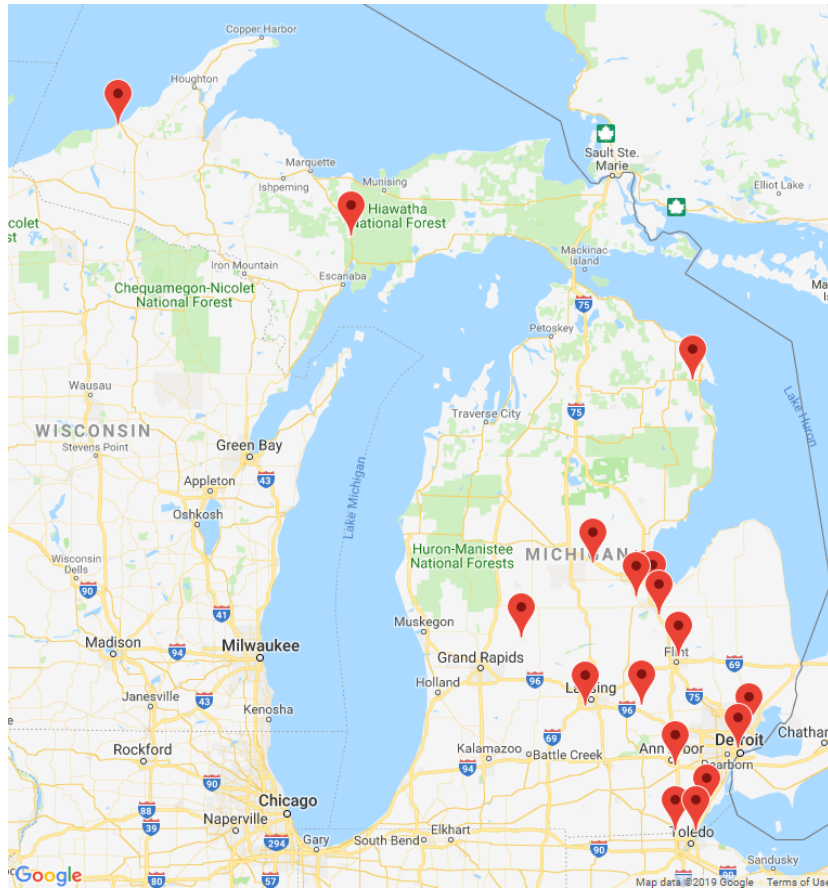


Commercial Motor Vehicles (continued)

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

Hazardous Action	2014		2015		2016		2017		2018	
	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	12,189	100	11,488	119	11,372	114	12,334	102	13,973	121
Speed too fast	1,781	16	1,236	28	1,213	13	1,222	6	1,466	16
Speed too slow	15	1	26	2	19	0	18	0	20	1
Failed to yield	1,666	21	1,625	7	1,681	14	1,763	13	2,138	13
Disregard traffic control	328	3	357	8	320	12	378	7	401	6
Drove wrong way	16	2	17	0	20	2	19	4	17	2
Drove left of center	175	9	143	8	143	10	142	10	175	10
Improper passing	304	3	270	0	276	1	312	1	315	0
Improper lane use	1,101	2	1,168	2	1,305	2	1,364	2	1,599	3
Improper turn	520	1	585	1	563	1	613	2	600	0
Improper/no signal	49	1	47	0	46	0	29	0	35	0
Improper backing	604	1	559	1	592	0	591	0	680	0
Unable to stop in assured clear distance	2,518	9	2,308	23	2,196	14	2,515	16	2,845	20
Other	1,558	9	1,416	7	1,380	5	1,411	10	1,624	10
Unknown	1,016	14	977	11	1,091	13	1,313	5	1,655	15
Reckless driving	50	1	48	2	67	4	70	2	67	4
Careless/negligent driving	582	8	662	10	676	9	622	8	705	13
Uncoded & errors	288	1	232	1	297	4	299	1	318	0
Total	24,760	202	23,164	230	23,257	218	25,015	189	28,633	234

Commercial Motor Vehicles (continued)



The picture above represents all 2018 alcohol-involved commercial motor vehicle fatal crashes in Michigan.

In 2018, there were 191 alcohol-involved commercial motor vehicle crashes in Michigan:

- 17 K - Fatal Crashes
- 12 A - Suspected Serious Injury Crashes
- 30 B - Suspected Minor Injury Crashes
- 35 C - Possible Injury Crashes
- 97 O - Property Damage Only/No Injury Crashes

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