



2016

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

2016 Traffic Crash Data & 2012-2016 5-Year Trends

Summary Trends

Year	Total Crashes	Fatal Crashes	Injury Crashes	Fatalities	Injuries
2012	9,388	74	1,706	80	2,363
2013	10,773	80	1,885	94	2,805
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

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 2016:

There were 23,257 drivers involved in 11,981 commercial motor vehicle crashes in Michigan. Of those crashes, 104 were classified as fatal, resulting in 120 fatalities. An additional 3,012 persons were injured.

Michigan experienced the highest number of commercial motor vehicle crashes (1,191) in December, the highest number of fatal crashes (15) and the highest number of persons killed (19) in November.

Michigan driver statistics indicate 6.6 percent of licensed drivers were age 16-20, and 4.7 percent of drivers in crashes were also in that age group.

2016 - Crashes and Injuries by Month

Month	Crashes				Persons	
	Total	Fatal	Injury	Property Damage Only (PDO)	Fatalities	Injuries
January	1,103	7	193	903	8	289
February	1,031	3	174	854	4	239
March	937	3	168	766	4	224
April	848	9	144	695	9	215
May	958	7	183	768	7	267
June	928	11	177	740	12	244
July	830	10	140	680	12	223
August	1,012	8	177	827	10	241
September	1,088	14	200	874	15	290
October	1,030	8	185	837	9	281
November	1,025	15	167	843	19	253
December	1,191	9	177	1,005	11	246
Total	11,981	104	2,085	9,792	120	3,012

2016 - Driver Statistics

Age Group	Statewide			Driver Rates	
	2016 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	1,923,244	49,678	14	0.1	2.8
16 - 20	672,666	471,135	1,087	16.2	23.1
21 - 24	570,792	470,489	1,468	25.7	31.2
25 - 64	5,149,843	4,748,323	17,061	33.1	35.9
65 +	1,611,755	1,437,067	2,005	12.4	14.0
Unknown	0	0	1,622	--	--
Total	9,928,300	7,176,692	23,257	23.4	32.4

2016 - 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	8,958	38.5	87	39.9	1,954	6,917
Motor home	236	1.0	0	0.0	51	185
Pickup truck	1,174	5.0	4	1.8	287	883
Small truck under 10,000 lbs. GVWR	136	0.6	3	1.4	21	112
Motorcycle	28	0.1	6	2.8	15	7
Moped / goped	2	0.0	0	0.0	0	2
Go-cart / golf cart	1	0.0	0	0.0	1	0
Snowmobile	2	0.0	0	0.0	1	1
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	2	0.0	1	0.5	0	1
Other	86	0.4	1	0.5	11	74
Truck/bus over 10,000 lbs.	12,479	53.7	116	53.2	2,194	10,169
Unknown	153	0.7	0	0.0	11	142
Total	23,257	100.0	218	100.0	4,546	18,493

Commercial Motor Vehicles (continued)

5-Year Trend - Crashes by Month

Month	2012		2013		2014		2015		2016	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
January	983	5	1,126	9	2,043	6	1,472	10	1,103	7
February	769	7	1,081	7	1,628	13	1,365	6	1,031	3
March	700	7	719	4	989	10	915	1	937	3
April	645	5	656	5	728	8	783	5	848	9
May	818	4	880	5	884	6	847	4	958	7
June	781	10	761	3	819	10	921	8	928	11
July	704	4	774	5	774	9	871	11	830	10
August	712	11	789	11	818	7	803	9	1,012	8
September	781	5	856	7	977	8	976	7	1,088	14
October	923	6	1,020	10	1,081	5	1,057	7	1,030	8
November	750	4	947	6	1,233	7	993	8	1,025	15
December	822	6	1,164	8	789	5	887	2	1,191	9
Total	9,388	74	10,773	80	12,763	94	11,890	78	11,981	104

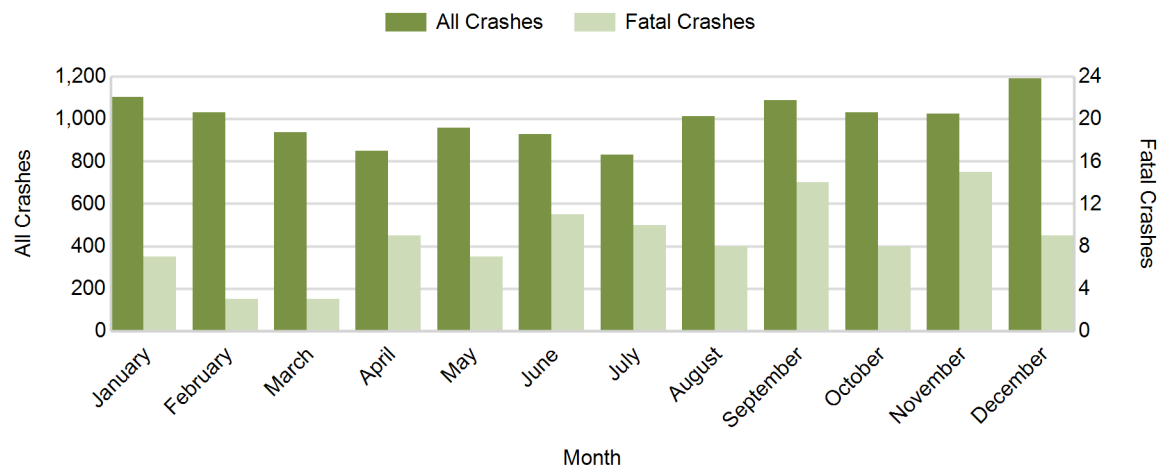
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

5-Year Trend - Crashes by Day of Week

Day	2012		2013		2014		2015		2016	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Monday	1,641	17	1,977	17	2,167	12	2,127	10	2,153	18
Tuesday	1,609	6	2,131	13	2,402	22	2,216	8	2,312	18
Wednesday	1,648	9	1,928	18	2,498	13	2,272	15	2,208	16
Thursday	1,685	10	1,877	11	2,381	21	2,084	18	2,209	23
Friday	1,893	22	1,793	11	2,109	13	2,041	16	2,004	19
Saturday	591	6	742	7	777	9	743	8	681	6
Sunday	321	4	325	3	429	4	407	3	414	4
Total	9,388	74	10,773	80	12,763	94	11,890	78	11,981	104

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

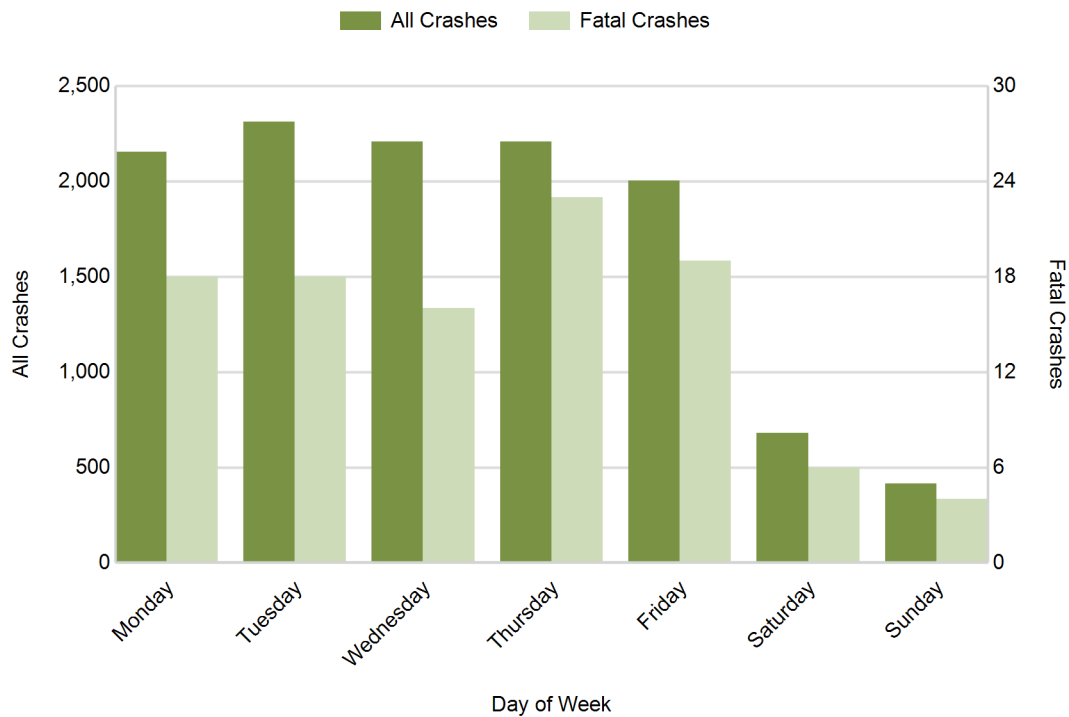
2016 Crashes by Month



2016 - 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	2,153	18.0	18	17.3	41	102	230	1,762
Tuesday	2,312	19.3	18	17.3	54	118	232	1,890
Wednesday	2,208	18.4	16	15.4	38	90	240	1,824
Thursday	2,209	18.4	23	22.1	39	105	252	1,790
Friday	2,004	16.7	19	18.3	34	95	202	1,654
Saturday	681	5.7	6	5.8	16	33	76	550
Sunday	414	3.5	4	3.8	11	23	54	322
Total	11,981	100.0	104	100.0	233	566	1,286	9,792

2016 Day of Week and Severity

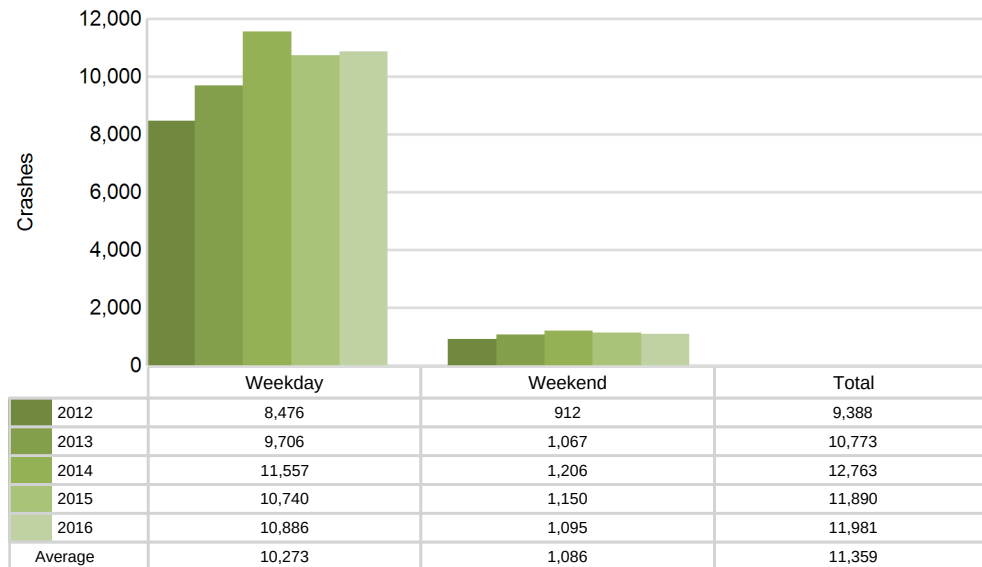


Commercial Motor Vehicles (continued)

5-Year Trend - Crashes by Weekday and Weekend

Portion of Week	2012		2013		2014		2015		2016	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Weekday	8,476	64	9,706	70	11,557	81	10,740	67	10,886	94
Weekend	912	10	1,067	10	1,206	13	1,150	11	1,095	10
Total	9,388	74	10,773	80	12,763	94	11,890	78	11,981	104

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



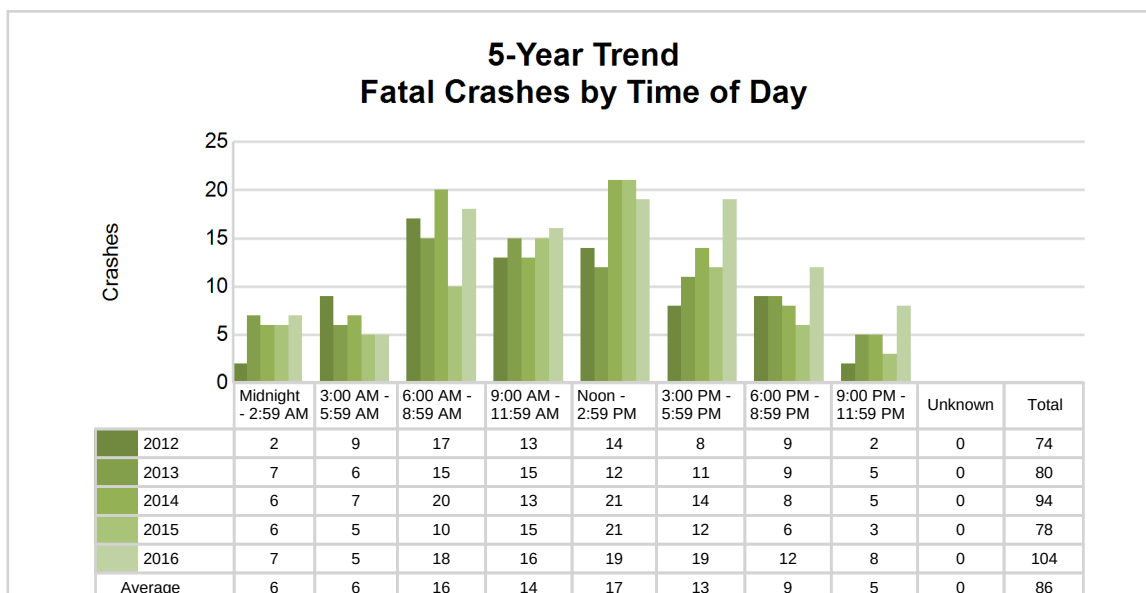
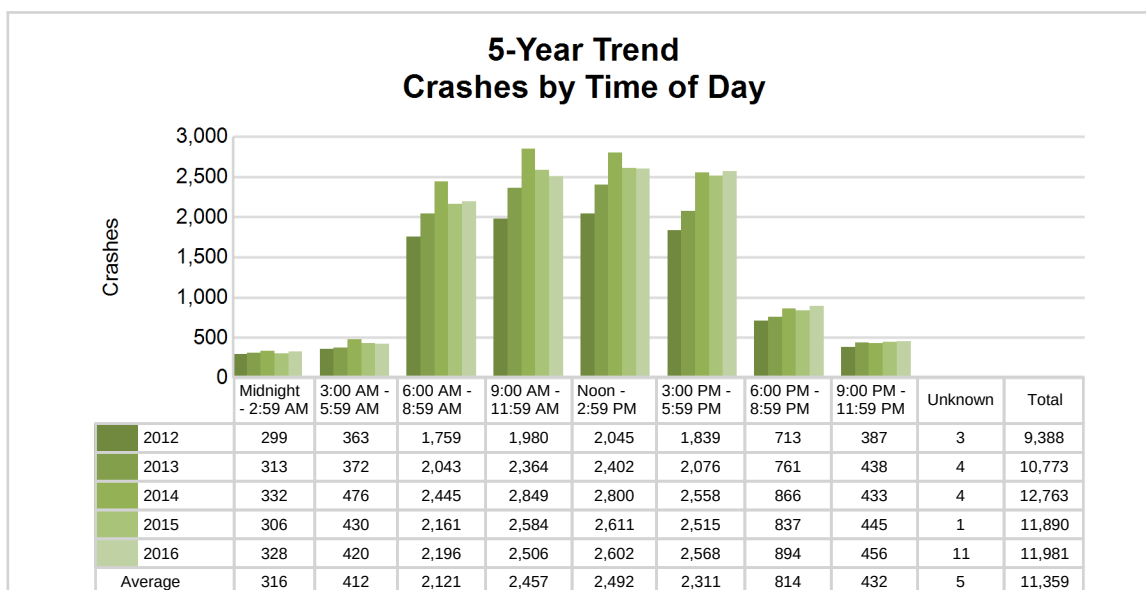
Commercial Motor Vehicles (continued)

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5-Year Trend - Crashes by Time of Day

Time of Day	2012		2013		2014		2015		2016	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	299	2	313	7	332	6	306	6	328	7
3:00 AM - 5:59 AM	363	9	372	6	476	7	430	5	420	5
6:00 AM - 8:59 AM	1,759	17	2,043	15	2,445	20	2,161	10	2,196	18
9:00 AM - 11:59 AM	1,980	13	2,364	15	2,849	13	2,584	15	2,506	16
Noon - 2:59 PM	2,045	14	2,402	12	2,800	21	2,611	21	2,602	19
3:00 PM - 5:59 PM	1,839	8	2,076	11	2,558	14	2,515	12	2,568	19
6:00 PM - 8:59 PM	713	9	761	9	866	8	837	6	894	12
9:00 PM - 11:59 PM	387	2	438	5	433	5	445	3	456	8
Unknown	3	0	4	0	4	0	1	0	11	0
Total	9,388	74	10,773	80	12,763	94	11,890	78	11,981	104

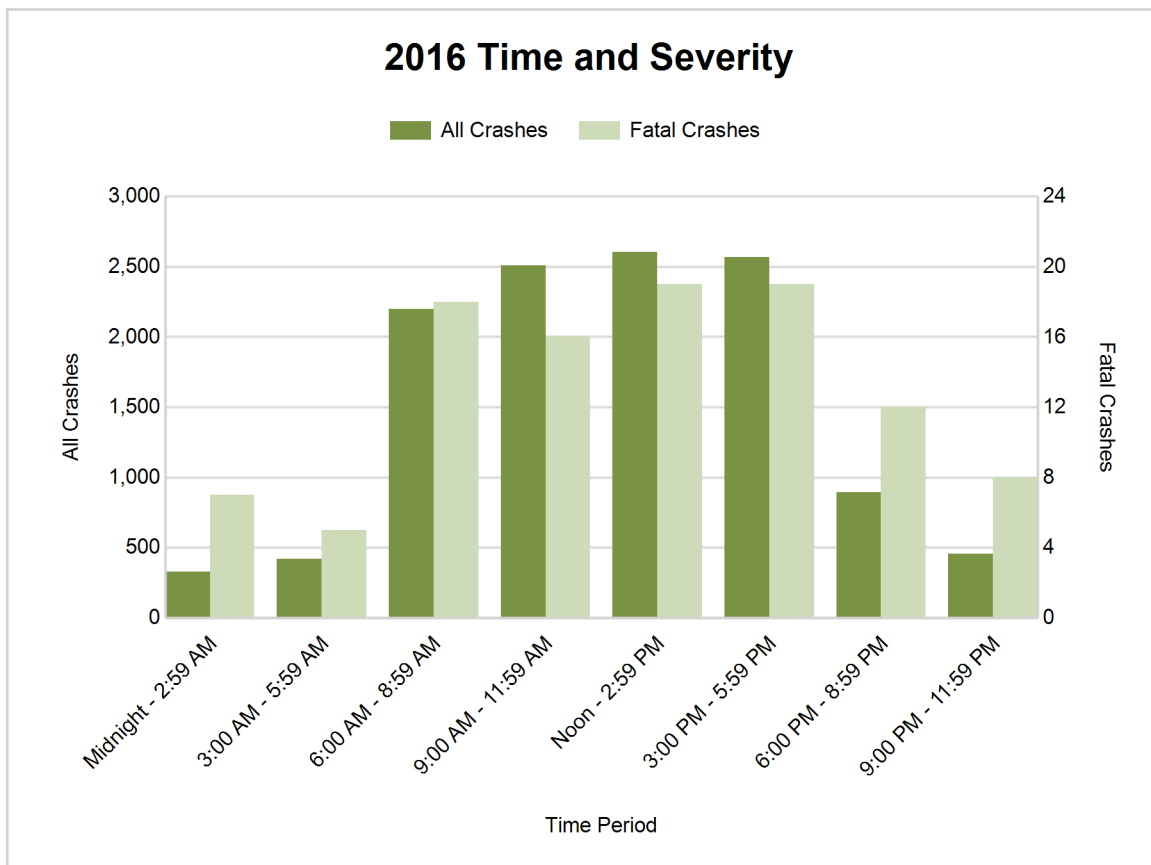
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same time period



Commercial Motor Vehicles (continued)

2016 - 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	328	2.7	7	6.7	11	15	36	259
3:00 AM - 5:59 AM	420	3.5	5	4.8	13	31	44	327
6:00 AM - 8:59 AM	2,196	18.3	18	17.3	41	122	240	1,775
9:00 AM - 11:59 AM	2,506	20.9	16	15.4	43	111	258	2,078
Noon - 2:59 PM	2,602	21.7	19	18.3	53	117	282	2,131
3:00 PM - 5:59 PM	2,568	21.4	19	18.3	36	113	255	2,145
6:00 PM - 8:59 PM	894	7.5	12	11.5	22	40	109	711
9:00 PM - 11:59 PM	456	3.8	8	7.7	14	17	61	356
Unknown	11	0.1	0	0.0	0	0	1	10
Total	11,981	100.0	104	100.0	233	566	1,286	9,792



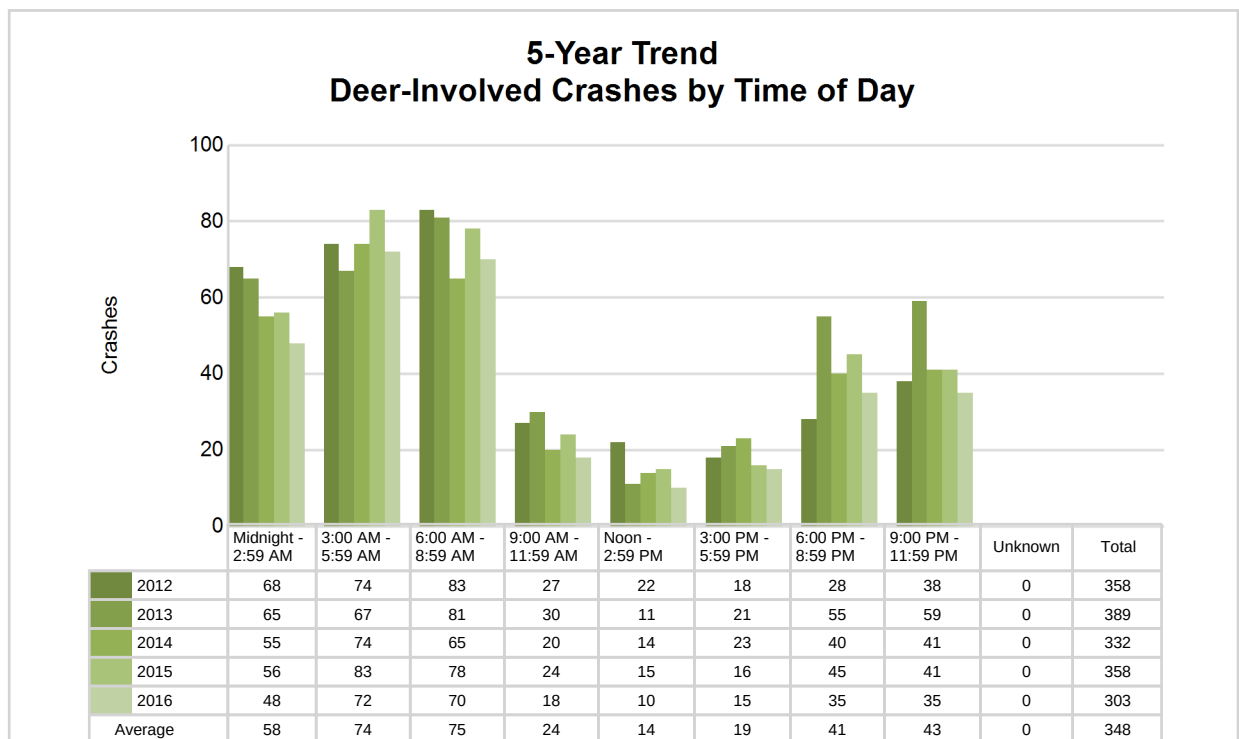
Commercial Motor Vehicles (continued)

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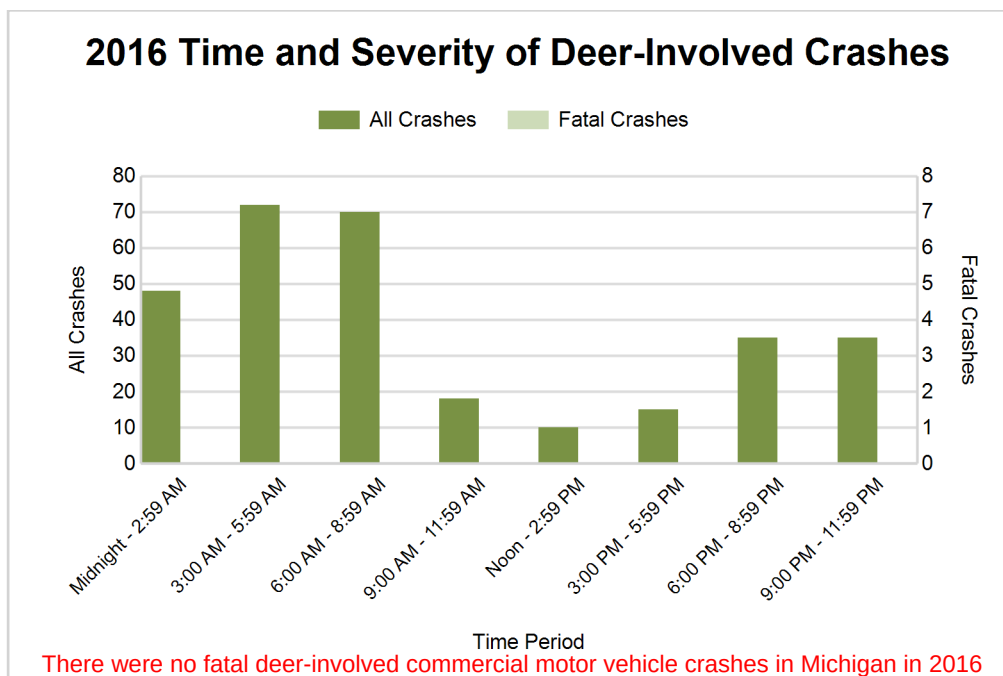
5-Year Trend - Deer-Involved Crashes by Time of Day

Time of Day	2012		2013		2014		2015		2016	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	68	0	65	0	55	0	56	0	48	0
3:00 AM - 5:59 AM	74	0	67	0	74	0	83	0	72	0
6:00 AM - 8:59 AM	83	0	81	0	65	0	78	0	70	0
9:00 AM - 11:59 AM	27	0	30	0	20	0	24	0	18	0
Noon - 2:59 PM	22	0	11	0	14	0	15	0	10	0
3:00 PM - 5:59 PM	18	0	21	0	23	0	16	0	15	0
6:00 PM - 8:59 PM	28	0	55	0	40	0	45	0	35	0
9:00 PM - 11:59 PM	38	0	59	0	41	0	41	0	35	0
Unknown	0	0	0	0	0	0	0	0	0	0
Total	358	0	389	0	332	0	358	0	303	0

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)



2016 - 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	4	0	0	4	0	0	3	1	0	0	2	0	0
Alger	4	0	0	4	0	1	1	2	0	0	1	0	0
Allegan	189	4	42	143	51	40	40	58	3	1	11	4	81
Alpena	23	0	4	19	0	7	6	10	0	0	1	0	6
Antrim	29	0	10	19	0	4	14	11	0	0	0	0	18
Arenac	9	0	1	8	4	2	2	1	0	0	1	0	1
Baraga	4	0	1	3	0	3	0	1	0	0	1	0	2
Barry	42	0	6	36	0	0	18	24	0	0	2	0	8
Bay	72	0	12	60	13	6	29	24	1	1	2	0	16
Benzie	12	1	1	10	0	1	3	8	1	0	1	2	4
Berrien	313	3	63	247	192	32	25	64	8	1	16	4	78
Branch	62	1	12	49	25	23	4	10	0	0	6	2	13
Calhoun	234	5	30	199	129	0	47	58	6	1	7	5	46
Cass	45	1	12	32	0	13	17	15	1	0	2	1	13
Charlevoix	21	0	5	16	0	10	2	9	0	0	1	0	6
Cheboygan	25	1	3	21	10	2	7	6	0	0	7	1	3
Chippewa	19	0	2	17	12	0	3	4	0	0	1	0	4
Clare	22	0	5	17	0	9	7	6	0	0	7	0	8
Clinton	92	1	23	68	39	12	12	29	2	0	8	2	33
Crawford	13	0	3	10	5	0	3	5	0	0	0	0	5
Delta	29	0	8	21	0	12	7	10	1	0	4	0	8
Dickinson	25	0	5	20	0	6	8	11	0	0	2	0	7
Eaton	125	0	20	105	57	0	32	36	2	0	10	0	28
Emmet	44	1	4	39	0	14	0	30	0	0	1	1	5
Genesee	333	3	85	245	106	21	40	163	5	3	3	3	115
Gladwin	15	0	3	12	0	0	8	7	0	0	1	0	5
Gogebic	9	0	3	6	0	8	0	1	0	0	1	0	6
Grand Traverse	122	3	10	109	0	28	23	71	1	1	7	4	10
Gratiot	48	0	11	37	0	14	18	16	1	0	5	0	11
Hillsdale	43	2	9	32	0	16	12	15	0	0	7	2	16
Houghton	34	0	5	29	0	13	8	13	0	0	1	0	5

Commercial Motor Vehicles (continued)

2016 - Reported Motor Vehicle Crashes by County (continued)

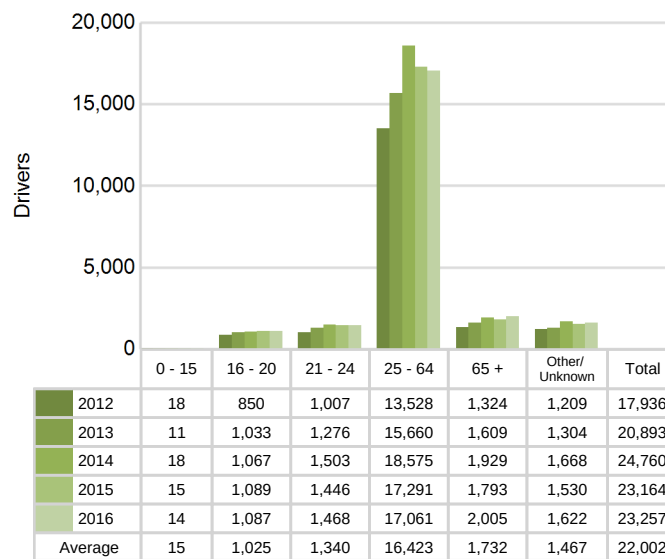
County	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Huron	38	1	11	26	0	0	18	20	1	0	3	2	15
Ingham	385	2	63	320	97	16	70	202	4	2	13	2	111
Ionia	67	1	9	57	27	0	19	21	0	0	6	1	12
Iosco	16	0	2	14	0	5	6	5	0	0	2	0	3
Iron	6	1	0	5	0	3	1	2	1	0	1	1	2
Isabella	33	0	5	28	0	13	4	16	1	0	1	0	6
Jackson	214	1	35	178	97	22	28	65	3	4	11	2	52
Kalamazoo	353	2	65	286	103	34	38	178	7	1	3	2	96
Kalkaska	14	1	4	9	0	7	4	3	0	0	0	1	9
Kent	885	8	141	736	122	141	172	450	7	4	7	9	198
Keweenaw	1	0	0	1	0	0	0	1	0	0	0	0	0
Lake	13	0	5	8	0	6	4	3	1	0	0	0	6
Lapeer	86	1	14	71	11	0	41	34	0	2	7	1	16
Leelanau	19	1	5	13	0	0	13	6	0	0	2	1	9
Lenawee	91	2	16	73	0	37	19	35	2	0	3	3	18
Livingston	189	2	36	151	64	29	28	66	3	1	3	4	66
Luce	3	0	0	3	0	0	3	0	0	0	0	0	0
Mackinac	18	1	2	15	4	8	2	4	1	1	2	1	2
Macomb	961	4	155	802	134	0	293	531	8	8	2	4	202
Manistee	16	1	2	13	0	3	3	10	0	0	1	1	5
Marquette	49	0	6	43	0	20	10	18	3	1	1	0	6
Mason	23	0	2	21	0	17	0	6	0	0	4	0	2
Mecosta	41	0	7	34	0	9	21	11	1	3	2	0	8
Menominee	12	1	6	5	0	8	3	1	0	0	0	1	7
Midland	69	0	7	62	0	18	16	35	0	0	4	0	7
Missaukee	11	2	3	6	0	0	4	7	0	1	1	2	3
Monroe	323	4	47	272	140	71	16	93	4	3	5	4	71
Montcalm	46	1	11	34	0	6	25	15	0	0	5	1	17
Montmorency	6	0	2	4	0	0	4	2	0	0	1	0	3
Muskegon	125	2	16	107	3	29	20	73	1	1	4	3	24
Newaygo	18	0	2	16	0	0	10	8	0	0	1	0	2
Oakland	1,414	6	230	1,178	376	100	252	683	14	5	9	7	334
Oceana	25	1	4	20	0	10	2	13	0	0	2	1	10
Ogemaw	13	0	4	9	3	0	7	3	1	0	2	0	8
Ontonagon	5	0	0	5	0	2	3	0	0	0	1	0	0
Osceola	36	0	6	30	0	18	5	13	0	0	7	0	7
Oscoda	6	0	3	3	0	0	4	2	1	0	0	0	3
Otsego	27	0	3	24	10	0	9	8	3	1	1	0	5
Ottawa	410	1	67	342	84	57	47	221	6	1	7	1	92
Presque Isle	7	0	0	7	0	2	3	2	0	0	1	0	0
Roscommon	15	0	2	13	2	1	4	8	1	0	0	0	2
Saginaw	162	2	26	134	33	0	65	64	4	1	3	2	30
St. Clair	148	2	32	114	62	0	15	71	1	2	5	2	45
St. Joseph	75	3	16	56	0	33	14	27	1	1	4	3	26
Sanilac	29	1	4	24	0	0	14	15	0	0	7	1	6
Schoolcraft	10	0	1	9	0	5	4	1	0	0	3	0	1
Shiawassee	56	3	11	42	27	0	13	16	2	1	9	3	19
Tuscola	36	0	9	27	0	0	21	15	0	0	4	0	12
Van Buren	136	3	21	112	93	0	14	28	2	0	12	4	50
Washtenaw	573	2	82	489	120	140	40	273	8	4	6	3	109
Wayne	2,566	13	482	2,071	888	168	364	1,146	26	15	2	14	707
Wexford	40	2	5	33	0	13	10	17	0	1	4	2	7
Total	11,981	104	2,085	9,792	3,143	1,348	2,204	5,266	150	72	303	120	3,012

Commercial Motor Vehicles (continued)

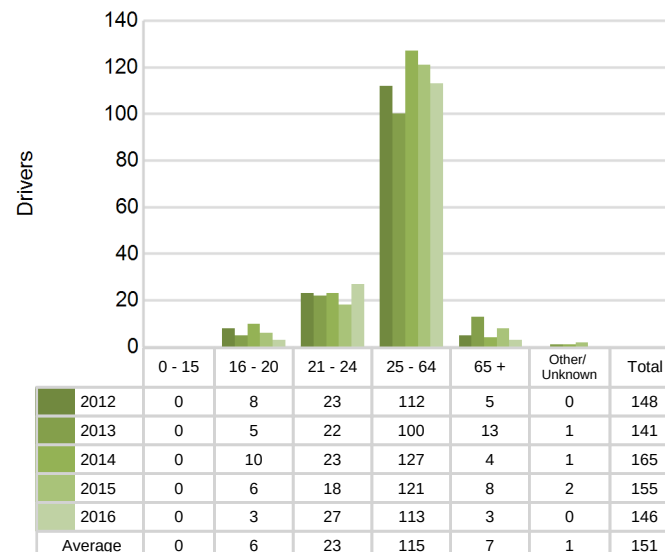
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

Driver Age	2012		2013		2014		2015		2016	
	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	11	0	18	0	15	0	14	0
16 - 20	850	8	1,033	5	1,067	10	1,089	6	1,087	3
21 - 24	1,007	23	1,276	22	1,503	23	1,446	18	1,468	27
25 - 64	13,528	112	15,660	100	18,575	127	17,291	121	17,061	113
65 +	1,324	5	1,609	13	1,929	4	1,793	8	2,005	3
Unknown	1,209	0	1,304	1	1,668	1	1,530	2	1,622	0
Total	17,936	148	20,893	141	24,760	165	23,164	155	23,257	146

5-Year Trend Total Drivers in Crashes by Age



5-Year Trend Total Drivers Coded Drinking by Age



Commercial Motor Vehicles (continued)

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2016 - 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	4	19	3	3	0	0	1	1	1
21 - 24	33	34	24	27	0	5	9	6	7
25 - 64	237	322	94	113	3	7	23	29	51
65 +	13	31	3	3	0	2	1	0	0
Unknown	12	1	0	0	0	0	0	0	0
Total	299	407	124	146	3	14	34	36	59

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 2016, there were 299 drivers in alcohol-involved crashes; 146 (48.8%) of those drivers were coded as had-been-drinking by the officer on the crash form.

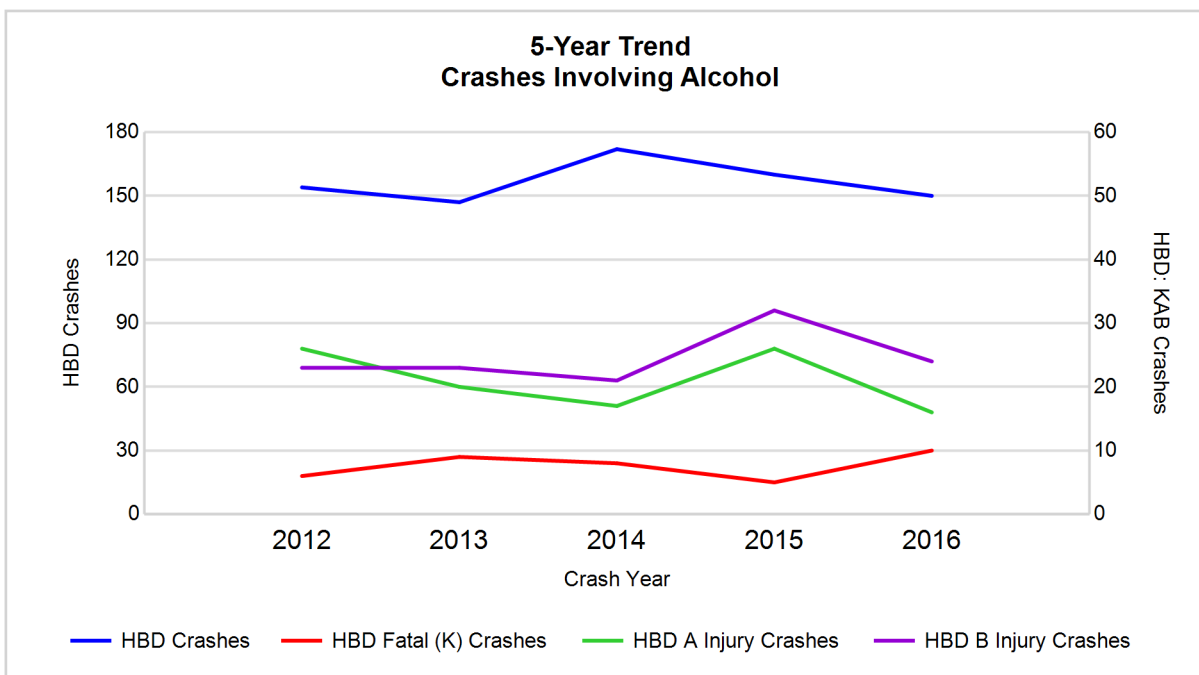
- 70 (47.9%) of the 146 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 36 (51.4%) of the 70 drivers had a BAC at or above 0.17 g/dL.
- 124 (84.9%) of the 146 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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
2012	9,388	154	1.6	74	6	8.1	201	26	12.9	430	23	5.3
2013	10,773	147	1.4	80	9	11.3	228	20	8.8	479	23	4.8
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

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)

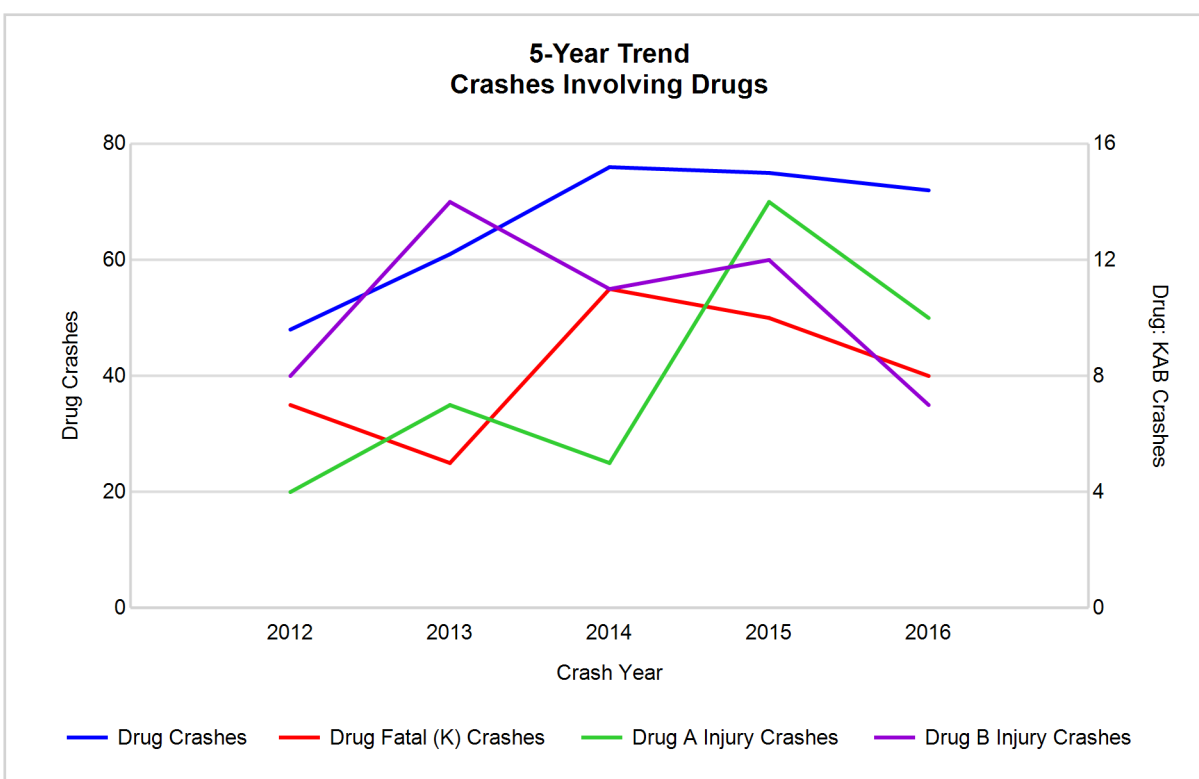
Commercial Motor Vehicles (continued)

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
2012	9,388	48	0.5	74	7	9.5	201	4	2.0	430	8	1.9
2013	10,773	61	0.6	80	5	6.3	228	7	3.1	479	14	2.9
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*

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)

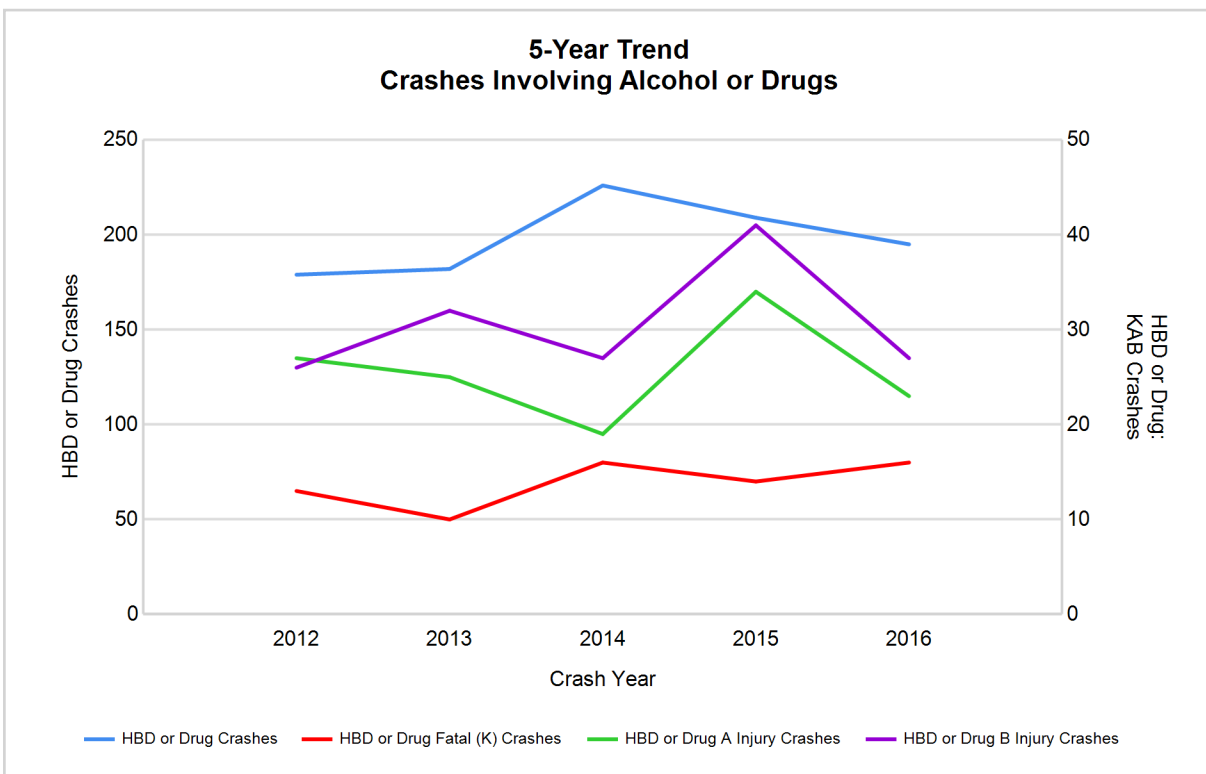
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5-Year Trend - Crashes Involving Alcohol or Drugs

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
2012	9,388	179	1.9	74	13	17.6	201	27	13.4	430	26	6.0
2013	10,773	182	1.7	80	10	12.5	228	25	11.0	479	32	6.7
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*

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)

2016 - 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	9,453	8,310	87.9	78	50	64.1	180	149	82.8	469	431	91.9	1,177	1,101	93.5	6,825	6,570	96.3
Motor home	248	216	87.1	0	0	0.0	6	5	83.3	11	9	81.8	25	24	96.0	183	178	97.3
Pickup truck	1,227	1,071	87.3	5	2	40.0	25	17	68.0	66	60	90.9	146	132	90.4	884	859	97.2
Small truck under 10,000 lbs. GVWR	140	101	72.1	3	2	66.7	2	2	100.0	7	2	28.6	7	7	100.0	90	88	97.8
Motorcycle	29	18	62.1	7	2	28.6	5	4	80.0	6	6	100.0	2	2	100.0	9	4	44.4
Moped / goped	2	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	1	0	0.0
Go-cart / golf cart	2	0	0.0	0	0	0.0	0	0	0.0	1	0	0.0	1	0	0.0	0	0	0.0
Snowmobile	2	1	50.0	0	0	0.0	1	1	100.0	0	0	0.0	0	0	0.0	1	0	0.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	2	0	0.0	1	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	1	0	0.0
Other	98	44	44.9	0	0	0.0	0	0	0.0	8	1	12.5	12	5	41.7	53	38	71.7
Truck/bus over 10,000 lbs.	12,799	11,415	89.2	12	9	75.0	60	34	56.7	147	108	73.5	587	349	59.5	11,432	10,904	95.4
Unknown	153	2	1.3	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	3	2	66.7
Total	24,155	21,178	87.7	106	65	61.3	279	212	76.0	715	617	86.3	1,957	1,620	82.8	19,482	18,643	95.7

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.

2016 - 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	293	156	53.2	3	2	66.7	11	10	90.9	44	33	75.0	223	101	45.3	12	10	83.3
16 - 20	1,172	1,083	92.4	14	7	50.0	26	17	65.4	64	57	89.1	155	127	81.9	907	874	96.4
21 - 24	1,533	1,431	93.3	9	3	33.3	20	12	60.0	72	62	86.1	163	145	89.0	1,263	1,209	95.7
25 - 64	17,456	16,505	94.6	61	37	60.7	182	143	78.6	461	397	86.1	1,223	1,069	87.4	15,473	14,844	95.9
65 +	2,079	1,981	95.3	19	16	84.2	40	30	75.0	74	68	91.9	192	177	92.2	1,746	1,689	96.7
Unknown	1,622	22	1.4	0	0	0.0	0	0	0.0	0	0	0.0	1	1	100.0	81	17	21.0
Total	24,155	21,178	87.7	106	65	61.3	279	212	76.0	715	617	86.3	1,957	1,620	82.8	19,482	18,643	95.7

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)

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5-Year Trend - Restraint Use Among Drivers

Restraint Use	2012			2013			2014			2015			2016		
	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	118	1	11	102	2	12	108	1	7	91	2	9	73	1	7
Shoulder belt only used	27	0	3	36	2	3	43	0	4	42	0	4	97	0	12
Lap belt only used	185	0	19	207	0	7	231	0	18	202	1	10	186	0	14
Both lap & shoulder belts used	15,817	31	1,508	18,499	44	1,734	21,912	41	1,986	20,504	32	1,895	20,332	47	1,894
No belts used	166	12	48	210	10	53	239	12	73	202	14	54	221	12	57
Child restraint used	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Child restraint not used, unavailable or improper use	1	0	0	1	0	0	3	0	0	0	0	0	0	0	0
Restraint failure	8	0	2	5	0	1	6	0	0	6	0	0	12	0	1
Restraint use unknown	863	13	52	999	9	71	1,120	9	66	1,110	5	62	1,736	15	76
Helmet worn	22	3	12	29	1	19	23	3	13	24	7	13	20	2	13
Helmet not worn	6	1	4	6	0	5	9	3	5	11	2	7	21	5	2
Helmet use unknown	1	1	0	5	0	0	1	1	0	2	1	1	6	0	1
Uncoded & errors	721	0	0	794	0	1	1,065	0	0	970	0	0	553	0	1
Total	17,936	62	1,659	20,893	68	1,906	24,760	70	2,172	23,164	64	2,055	23,257	82	2,078

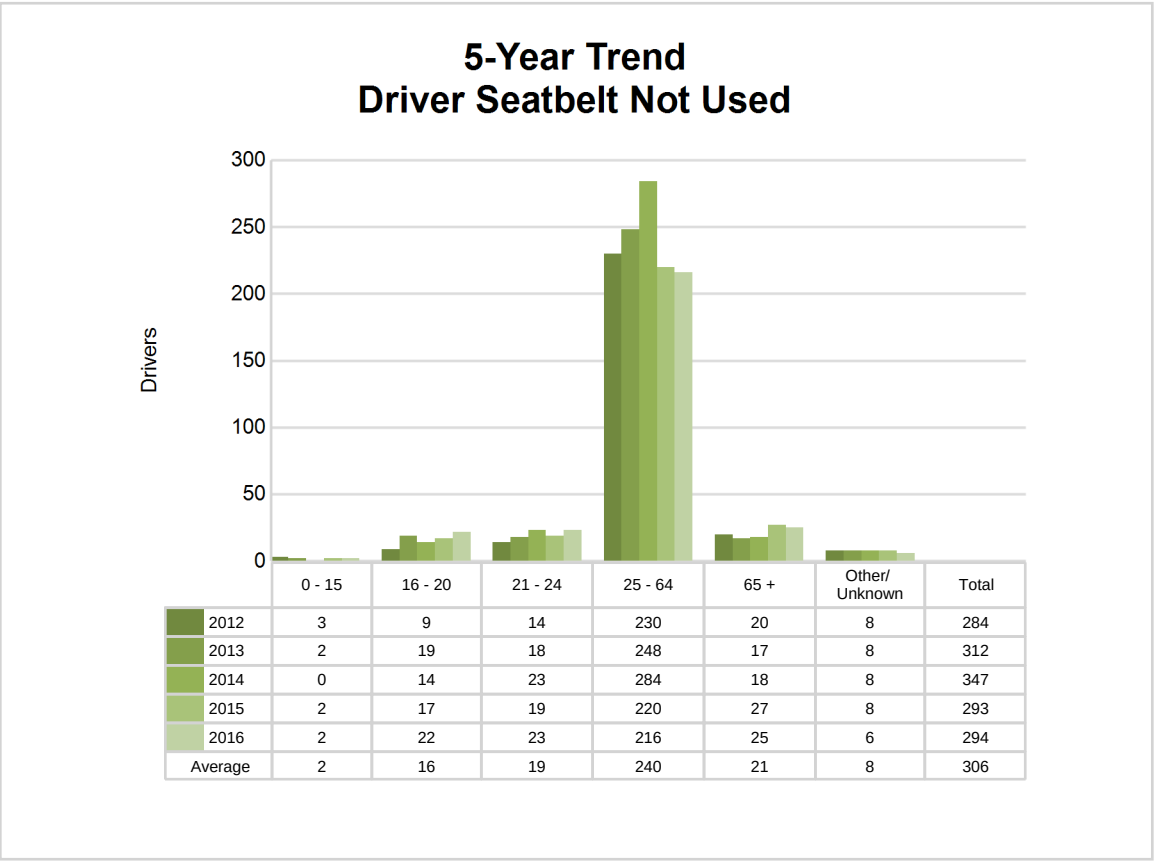
5-Year Trend - Restraint Use Among Drivers Coded Drinking

Restraint Use	2012			2013			2014			2015			2016		
	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	0	0	0	0	0	0	0	1	0	1	0	0	0
Shoulder belt only used	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Lap belt only used	0	0	0	1	0	1	1	0	1	0	0	0	1	0	0
Both lap & shoulder belts used	114	1	52	109	5	43	127	1	37	121	0	59	106	1	50
No belts used	10	3	5	11	1	6	14	2	10	11	0	8	13	4	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	22	0	9	17	0	7	23	0	6	21	0	9	24	2	8
Helmet worn	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
Helmet not worn	1	0	1	2	0	2	0	0	0	0	0	0	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	0	0	0	0	0	0	1	0	0	0	0	0
Total	148	4	67	141	6	60	165	3	54	155	0	77	146	8	63

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

Age Group	2012			2013			2014			2015			2016		
	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	3	0	1	2	0	0	0	0	0	2	0	1	2	0	0
16 - 20	9	0	4	19	1	6	14	0	5	17	2	5	22	3	11
21 - 24	14	0	7	18	0	5	23	2	12	19	0	8	23	2	4
25 - 64	230	11	38	248	9	51	284	9	59	220	9	47	216	7	40
65 +	20	2	8	17	2	3	18	2	4	27	5	2	25	1	9
Unknown	8	0	1	8	0	0	8	0	0	8	0	0	6	0	0
Total	284	13	59	312	12	65	347	13	80	293	16	63	294	13	64

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

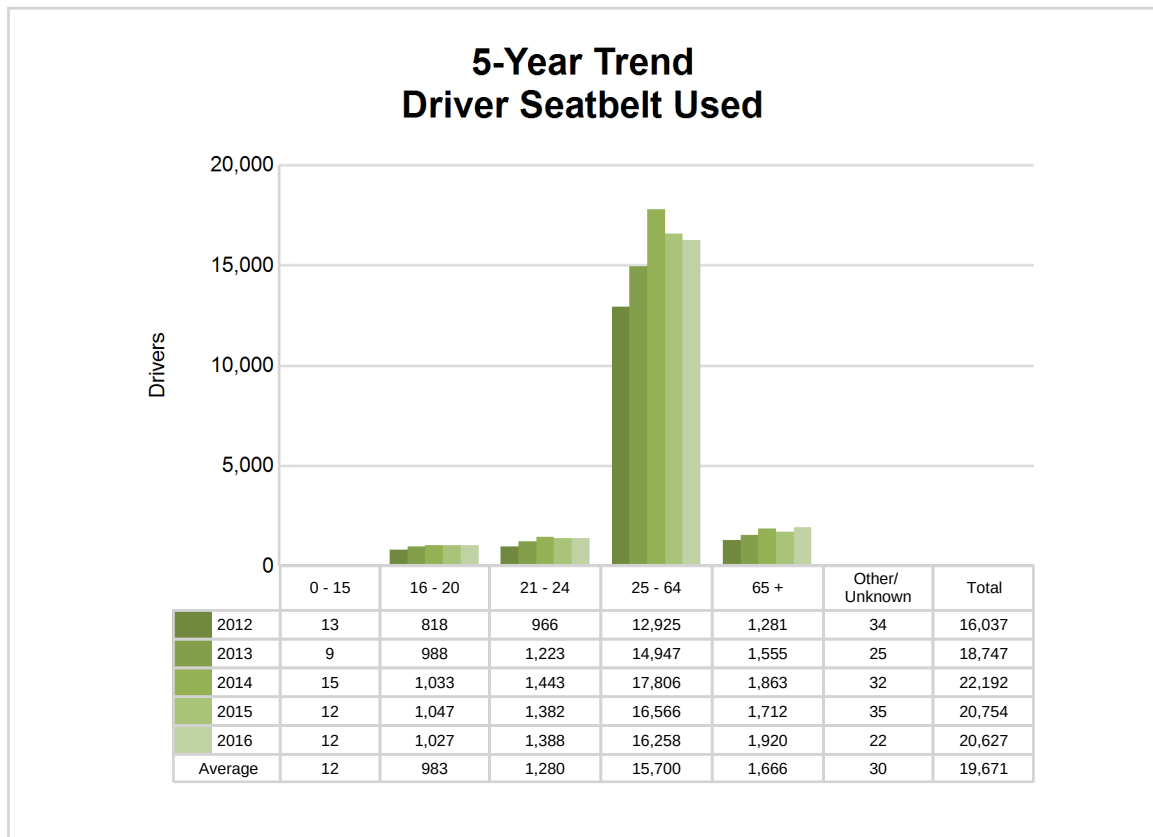


Commercial Motor Vehicles (continued)

5-Year Trend - Seatbelt Used Among Drivers by Age

Age Group	2012			2013			2014			2015			2016		
	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	13	0	0	9	0	0	15	1	4	12	0	1	12	0	2
16 - 20	818	1	138	988	5	151	1,033	5	189	1,047	5	175	1,027	5	147
21 - 24	966	6	141	1,223	1	172	1,443	3	161	1,382	1	154	1,388	1	178
25 - 64	12,925	15	1,102	14,947	27	1,247	17,806	20	1,447	16,566	19	1,393	16,258	29	1,375
65 +	1,281	9	151	1,555	13	174	1,863	12	206	1,712	8	186	1,920	12	218
Unknown	34	0	0	25	0	1	32	0	1	35	0	0	22	0	1
Total	16,037	31	1,532	18,747	46	1,745	22,192	41	2,008	20,754	33	1,909	20,627	47	1,921

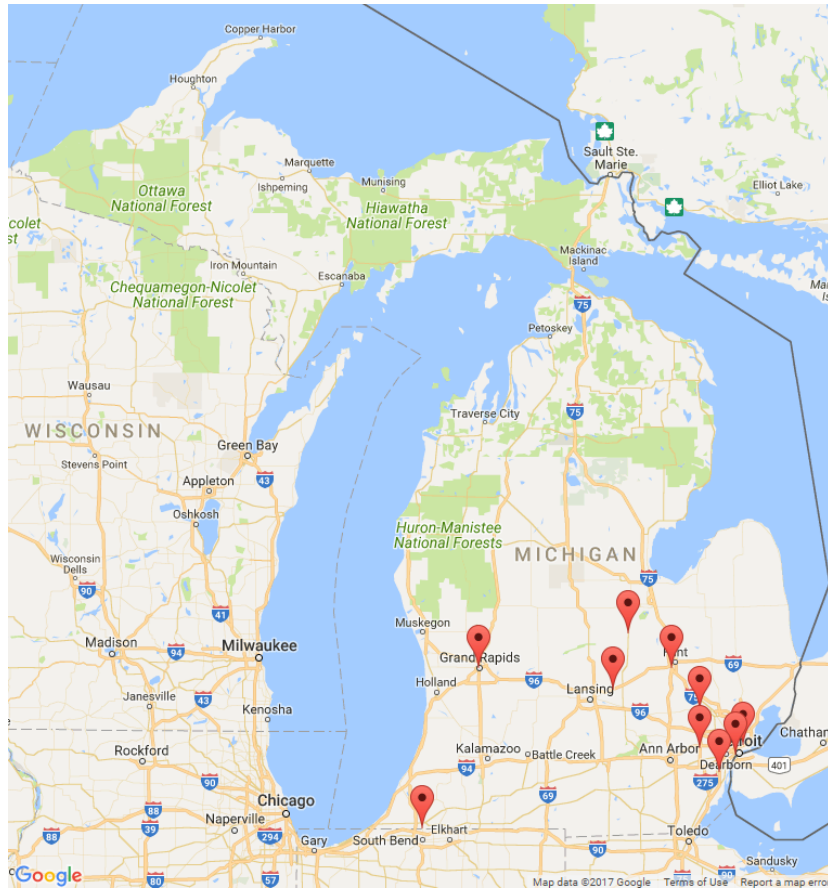
Note: Seatbelt Used includes shoulder belt only used, lap belt only used, both lap and shoulder belts used, and restraint failure.



Commercial Motor Vehicles (continued)

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

Hazardous Action	2012		2013		2014		2015		2016	
	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	8,854	80	10,268	115	12,189	100	11,488	119	11,372	114
Speed too fast	793	11	1,290	19	1,781	16	1,236	28	1,213	13
Speed too slow	15	0	20	0	15	1	26	2	19	0
Failed to yield	1,339	10	1,543	6	1,666	21	1,625	7	1,681	14
Disregard traffic control	311	12	332	12	328	3	357	8	320	12
Drove wrong way	12	0	23	2	16	2	17	0	20	2
Drove left of center	107	4	133	12	175	9	143	8	143	10
Improper passing	194	0	199	0	304	3	270	0	276	1
Improper lane use	848	2	999	1	1,101	2	1,168	2	1,305	2
Improper turn	450	1	447	0	520	1	585	1	563	1
Improper/no signal	40	0	49	1	49	1	47	0	46	0
Improper backing	438	0	481	0	604	1	559	1	592	0
Unable to stop in assured clear distance	1,746	17	1,975	12	2,518	9	2,308	23	2,196	14
Other	1,236	3	1,361	6	1,558	9	1,416	7	1,380	5
Unknown	790	11	932	6	1,016	14	977	11	1,091	13
Reckless driving	31	0	41	1	50	1	48	2	67	4
Careless/negligent driving	485	2	548	5	582	8	662	10	676	9
Uncoded & errors	247	1	252	0	288	1	232	1	297	4
Total	17,936	154	20,893	198	24,760	202	23,164	230	23,257	218



The picture above represents all 2016 alcohol-involved commercial motor vehicle fatal crashes in Michigan.

In 2016, there were 150 alcohol-involved commercial motor vehicle crashes in Michigan:

- 10 K - Fatal Crashes
- 16 A - Suspected Serious Injury Crashes
- 24 B - Suspected Minor Injury Crashes
- 27 C - Possible Injury Crashes
- 73 O - Property Damage Only/No Injury Crashes

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