



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)



Muskegon County

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



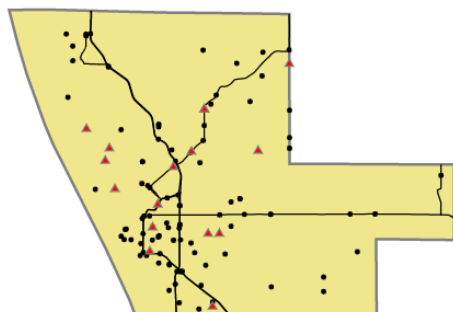
Sources:

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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Muskegon County

1



Crashes by most severe injury (mapped/actual)

- ▲ K - Fatal (16/16)
- A - Suspected Serious (101/101)

Muskegon County

In 2018:

There were 8,236 drivers involved in 4,899 motor vehicle crashes in Muskegon County. Of those crashes, 16 were classified as fatal, resulting in 16 fatalities. An additional 1,319 persons were injured.

Muskegon County experienced the highest number of motor vehicle crashes (494) in November, the highest number of fatal crashes (3) and the highest number of persons killed (3) in September.

Michigan driver statistics indicate 6.2 percent of licensed drivers in Muskegon County were age 16-20, and 11.3 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	471	1	62	408	1	81
February	396	1	69	326	1	108
March	352	0	54	298	0	72
April	394	2	87	305	2	116
May	377	1	91	285	1	126
June	440	2	108	330	2	156
July	399	1	103	295	1	137
August	364	2	90	272	2	123
September	352	3	76	273	3	103
October	456	1	75	380	1	102
November	494	0	73	421	0	93
December	404	2	75	327	2	102
Total	4,899	16	963	3,920	16	1,319

2018 - Driver Statistics

Age Group	Muskegon County			Driver Rates	
	2018 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	35,354	777	15	4.2	193.1
16 - 20	10,461	7,718	930	889.0	1,205.0
21 - 24	8,551	7,600	738	863.1	971.1
25 - 64	89,698	80,693	4,957	552.6	614.3
65 +	29,524	27,021	901	305.2	333.4
Unknown	0	0	695	- -	- -
Total	173,588	123,809	8,236	474.5	665.2

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	6,746	81.9	18	62.1	1,353	5,375
Motor home	119	1.4	0	0.0	26	93
Pickup truck	835	10.1	3	10.3	177	655
Small truck under 10,000 lbs. GVWR	78	0.9	0	0.0	21	57
Motorcycle	94	1.1	5	17.2	67	22
Moped / goped	14	0.2	0	0.0	11	3
Go-cart / golf cart	0	0.0	0	0.0	0	0
Snowmobile	0	0.0	0	0.0	0	0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	2	0.0	0	0.0	2	0
Other	62	0.8	0	0.0	16	46
Truck/bus over 10,000 lbs.	133	1.6	3	10.3	22	108
Unknown	153	1.9	0	0.0	7	146
Total	8,236	100.0	29	100.0	1,702	6,505

Muskegon County (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	735	1	524	2	514	0	537	0	471	1
February	477	0	583	0	362	3	307	2	396	1
March	393	0	324	1	399	1	329	0	352	0
April	246	1	243	0	311	1	278	1	394	2
May	316	1	364	1	359	1	368	1	377	1
June	330	1	333	1	393	1	402	0	440	2
July	295	2	390	2	370	1	389	1	399	1
August	307	2	294	3	394	1	365	2	364	2
September	296	1	317	2	366	3	374	1	352	3
October	365	1	423	0	362	2	475	3	456	1
November	627	0	447	2	434	3	424	3	494	0
December	377	3	376	2	600	1	764	2	404	2
Total	4,764	13	4,618	16	4,864	18	5,012	16	4,899	16

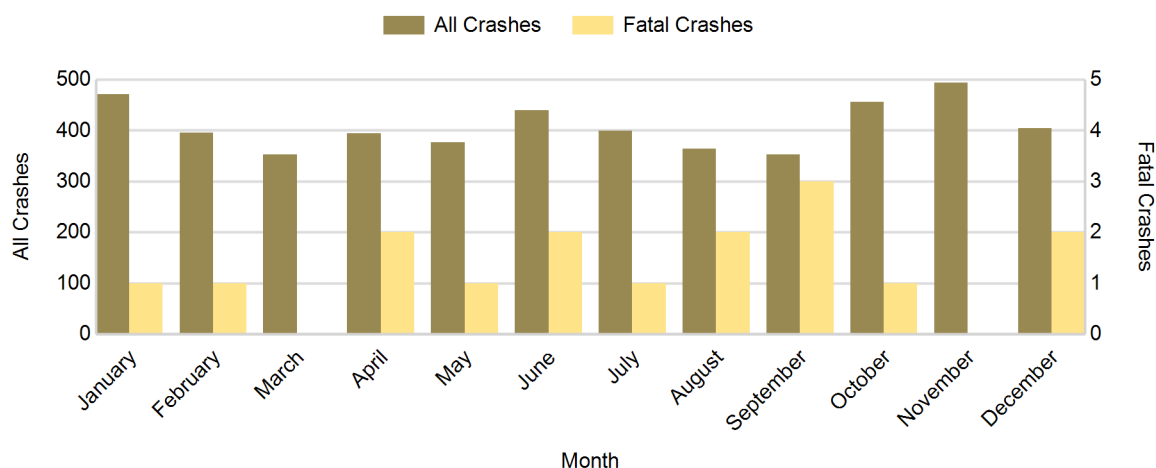
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

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	732	1	680	1	690	5	702	3	689	3
Tuesday	734	0	656	1	753	4	699	0	795	2
Wednesday	675	1	712	4	663	0	731	1	808	1
Thursday	851	3	706	4	726	3	825	5	715	1
Friday	767	2	743	1	869	2	824	1	742	3
Saturday	592	3	642	3	639	3	642	4	634	1
Sunday	413	3	479	2	524	1	589	2	516	5
Total	4,764	13	4,618	16	4,864	18	5,012	16	4,899	16

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

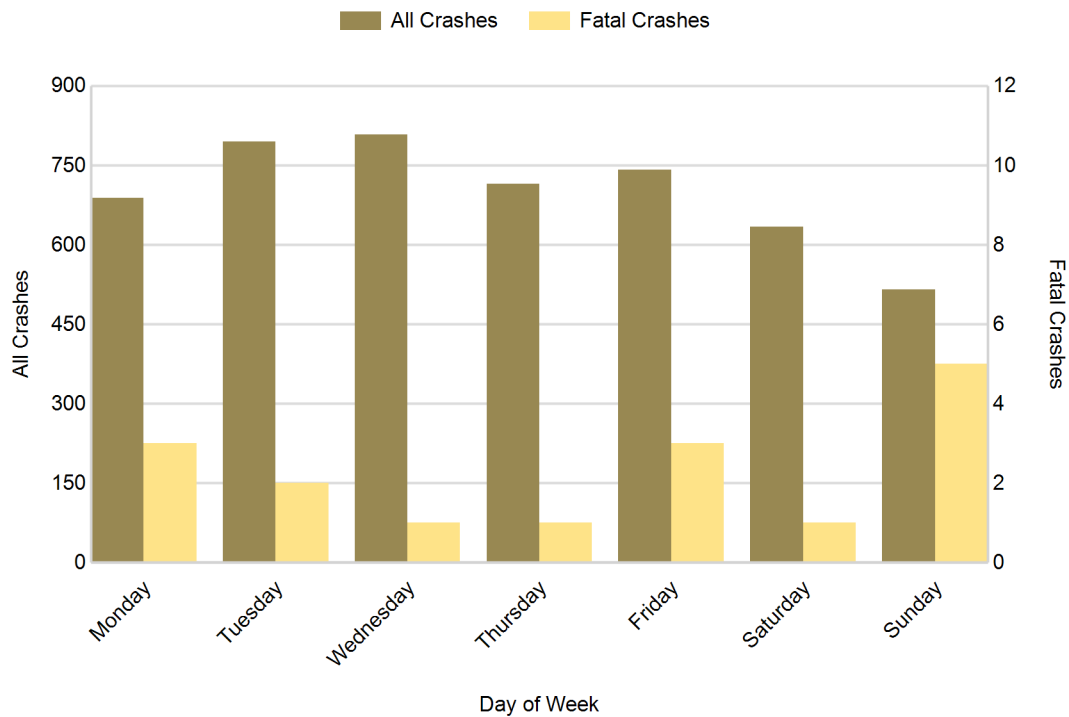
2018 Crashes by Month



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	689	14.1	3	18.8	17	34	105	530
Tuesday	795	16.2	2	12.5	16	40	98	639
Wednesday	808	16.5	1	6.3	20	45	100	642
Thursday	715	14.6	1	6.3	10	40	71	593
Friday	742	15.1	3	18.8	14	48	81	596
Saturday	634	12.9	1	6.3	13	48	75	497
Sunday	516	10.5	5	31.3	11	37	40	423
Total	4,899	100.0	16	100.0	101	292	570	3,920

2018 Day of Week and Severity

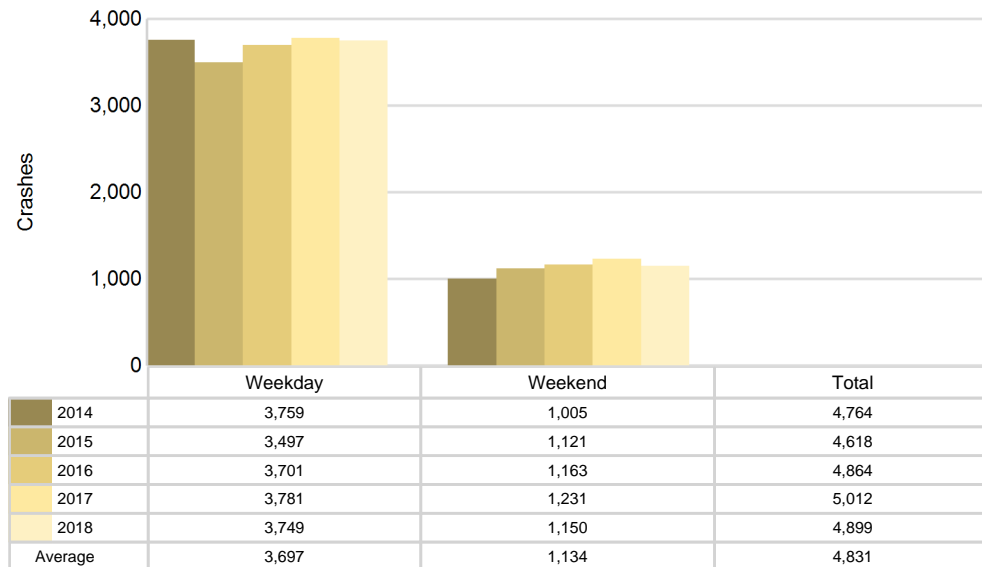


Muskegon County (continued)

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	3,759	7	3,497	11	3,701	14	3,781	10	3,749	10
Weekend	1,005	6	1,121	5	1,163	4	1,231	6	1,150	6
Total	4,764	13	4,618	16	4,864	18	5,012	16	4,899	16

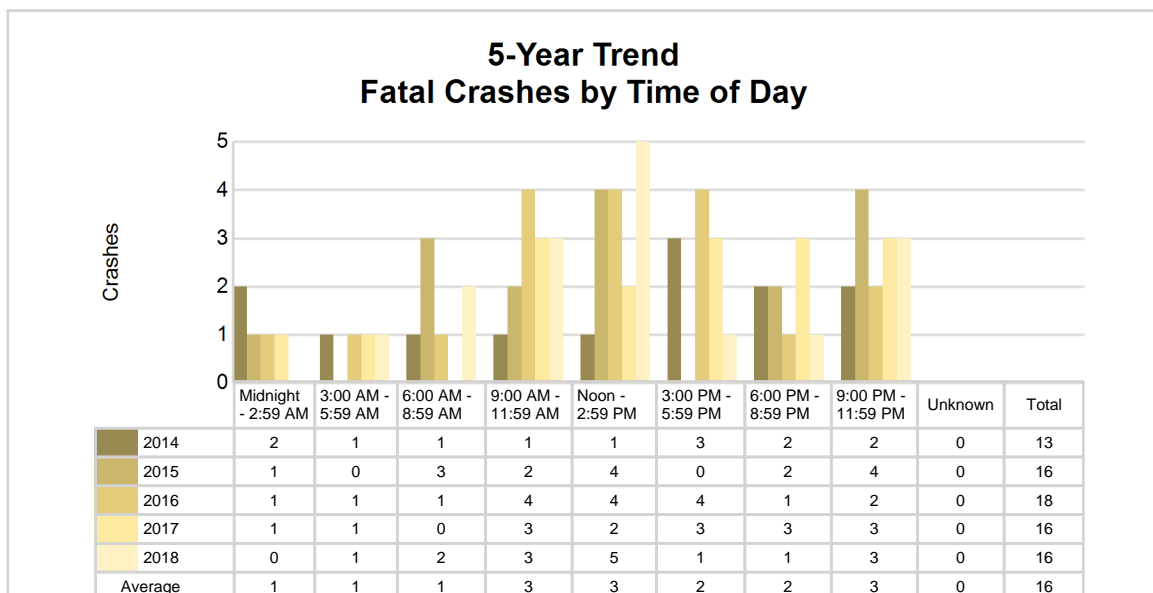
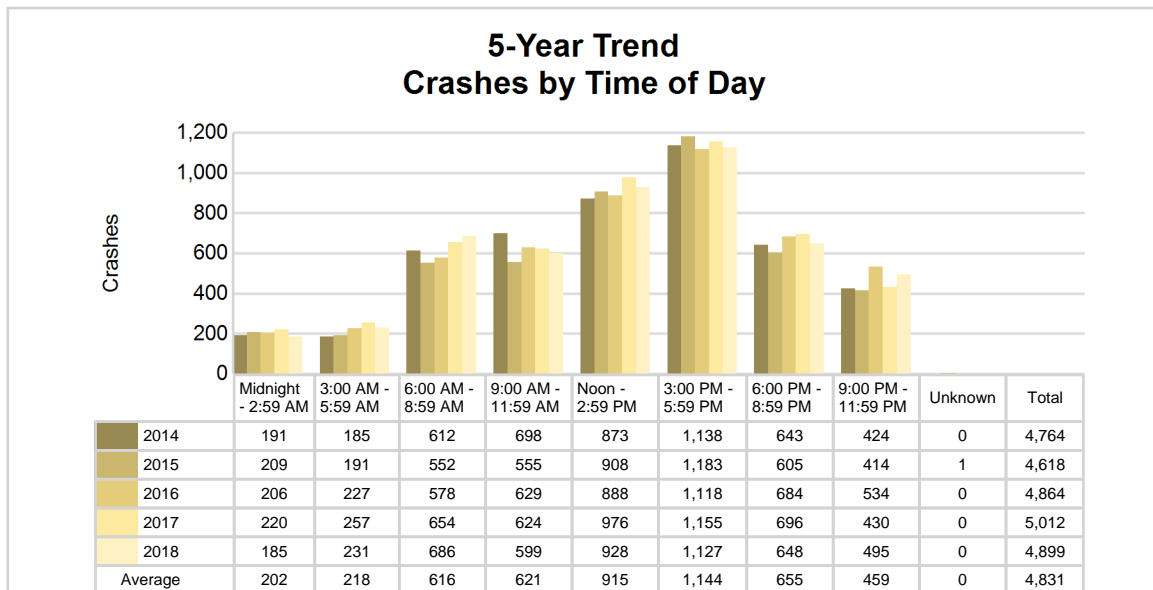
5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



5-Year Trend - Crashes by Time of Day

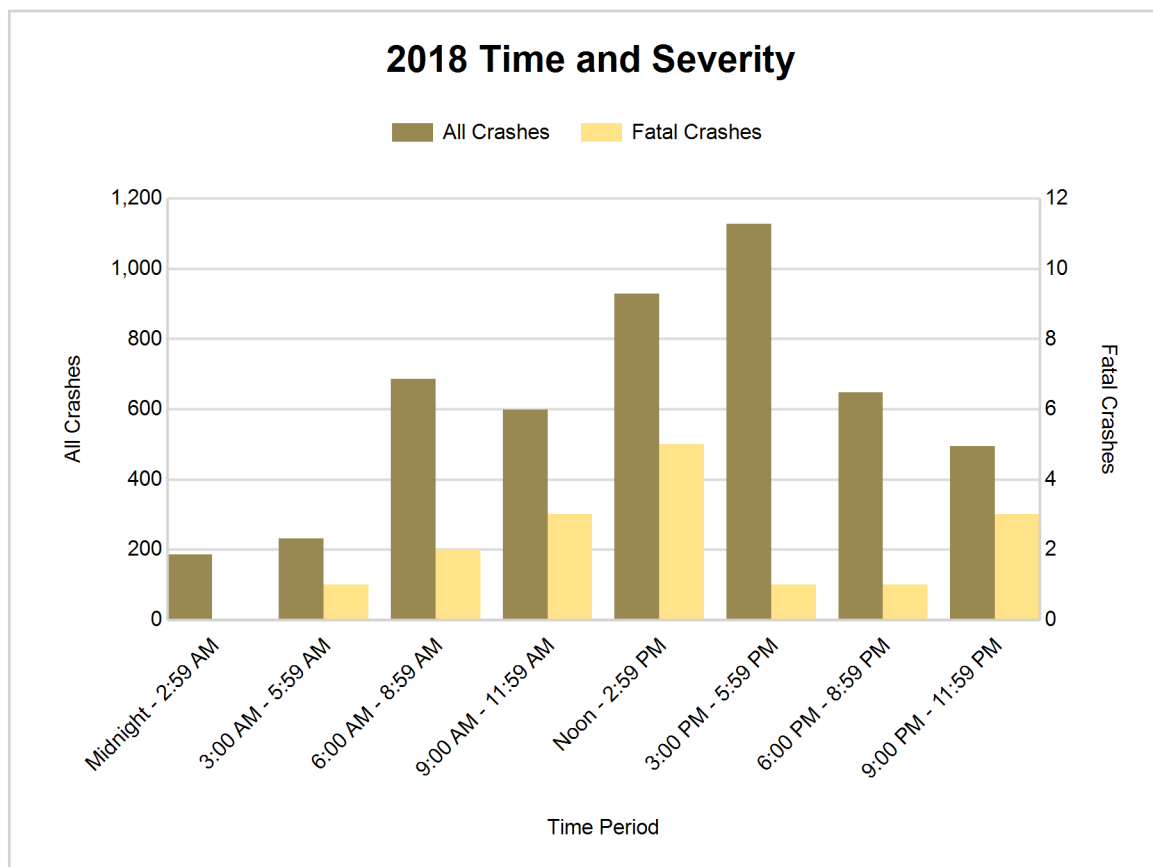
Time of Day	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	191	2	209	1	206	1	220	1	185	0
3:00 AM - 5:59 AM	185	1	191	0	227	1	257	1	231	1
6:00 AM - 8:59 AM	612	1	552	3	578	1	654	0	686	2
9:00 AM - 11:59 AM	698	1	555	2	629	4	624	3	599	3
Noon - 2:59 PM	873	1	908	4	888	4	976	2	928	5
3:00 PM - 5:59 PM	1,138 †	3	1,183 †	0	1,118 †	4	1,155 †	3	1,127 †	1
6:00 PM - 8:59 PM	643	2	605	2	684	1	696	3	648	1
9:00 PM - 11:59 PM	424	2	414	4	534	2	430	3	495	3
Unknown	0	0	1	0	0	0	0	0	0	0
Total	4,764	13	4,618	16	4,864	18	5,012	16	4,899	16

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

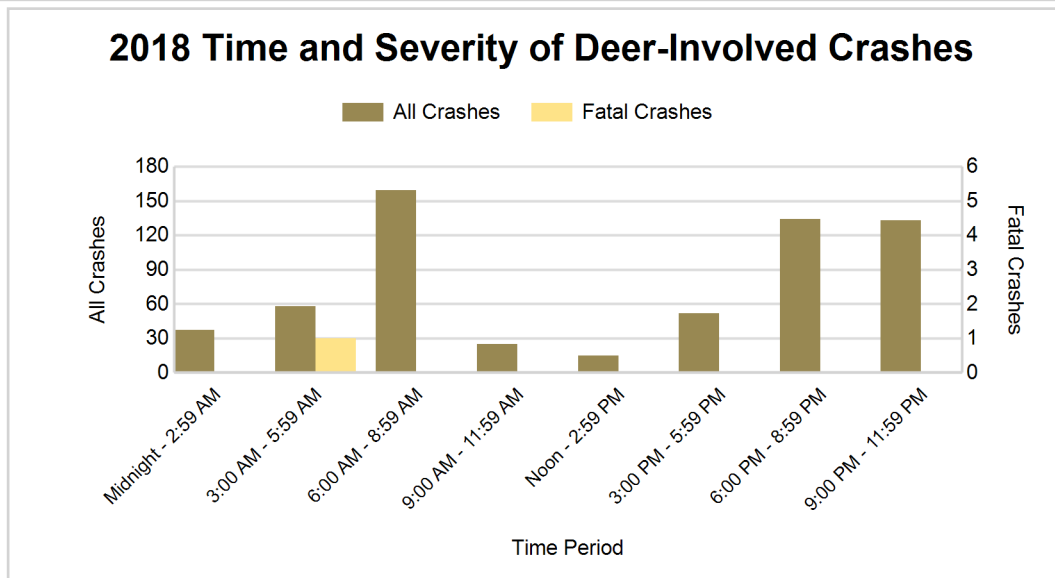
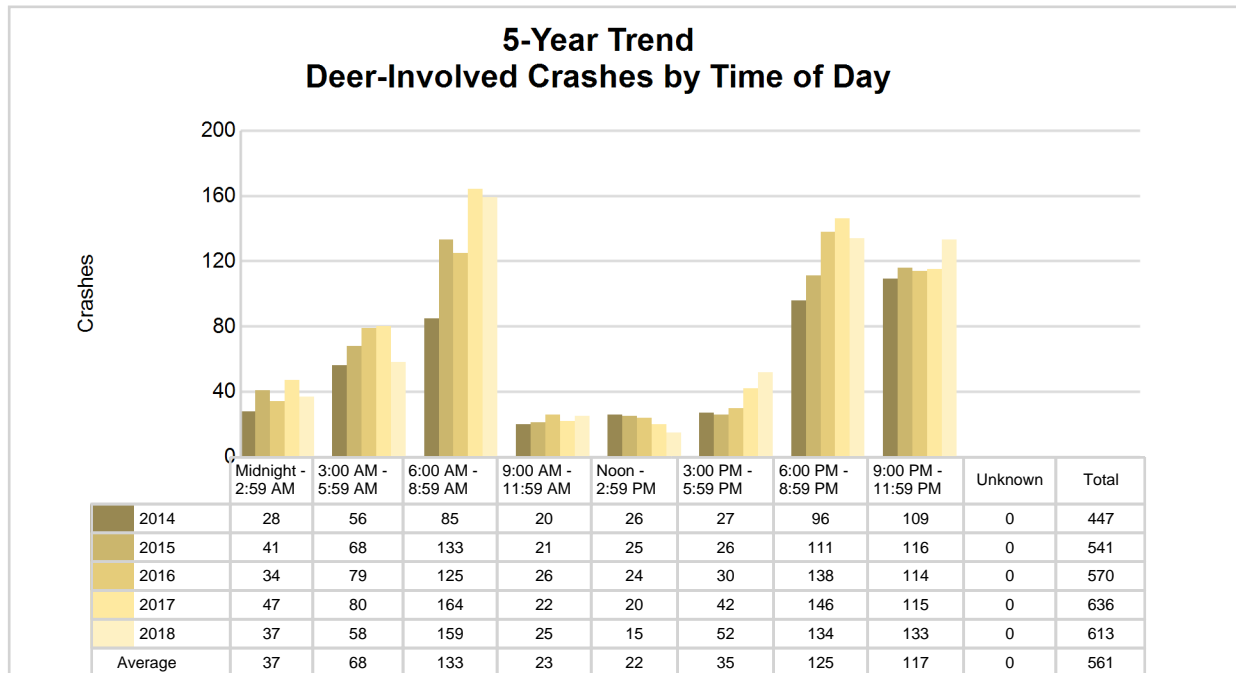
Time of Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Midnight - 2:59 AM	185	3.8	0	0.0	7	16	13	149
3:00 AM - 5:59 AM	231	4.7	1	6.3	6	14	24	186
6:00 AM - 8:59 AM	686	14.0	2	12.5	4	27	71	582
9:00 AM - 11:59 AM	599	12.2	3	18.8	11	34	65	486
Noon - 2:59 PM	928	18.9	5	31.3	17	56	128	722
3:00 PM - 5:59 PM	1,127	23.0	1	6.3	24	78	152	872
6:00 PM - 8:59 PM	648	13.2	1	6.3	13	43	75	516
9:00 PM - 11:59 PM	495	10.1	3	18.8	19	24	42	407
Unknown	0	0.0	0	0.0	0	0	0	0
Total	4,899	100.0	16	100.0	101	292	570	3,920



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

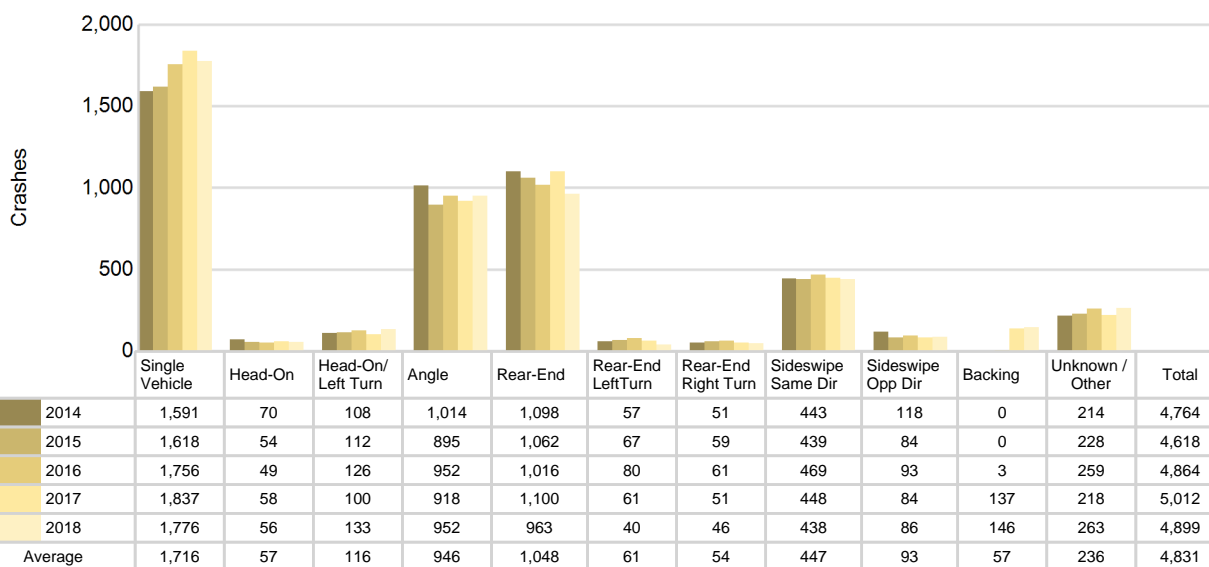
Time of Day	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	28	0	41	0	34	0	47	0	37	0
3:00 AM - 5:59 AM	56	0	68	0	79	0	80	0	58	1
6:00 AM - 8:59 AM	85	0	133	0	125	0	164	0	159	0
9:00 AM - 11:59 AM	20	0	21	0	26	0	22	0	25	0
Noon - 2:59 PM	26	0	25	0	24	0	20	0	15	0
3:00 PM - 5:59 PM	27	0	26	0	30	0	42	0	52	0
6:00 PM - 8:59 PM	96	0	111	0	138	0	146	0	134	0
9:00 PM - 11:59 PM	109	0	116	0	114	0	115	0	133	0
Unknown	0	0	0	0	0	0	0	0	0	0
Total	447	0	541	0	570	0	636	0	613	1

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



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	1,591	7	1,618	9	1,756	6	1,837	9	1,776	5
Head-on	70	2	54	1	49	3	58	2	56	3
Head-on / left turn	108	0	112	0	126	1	100	0	133	2
Angle	1,014	3	895	5	952	7	918	4	952	4
Rear-end	1,098	0	1,062	0	1,016	1	1,100	0	963	2
Rear-end left turn	57	0	67	0	80	0	61	0	40	0
Rear-end right turn	51	0	59	0	61	0	51	0	46	0
Sideswipe same direction	443	0	439	0	469	0	448	0	438	0
Sideswipe opposite direction	118	0	84	1	93	0	84	0	86	0
Backing	0	0	0	0	3	0	137	0	146	0
Other / Unknown	214	1	228	0	259	0	218	1	263	0
Uncoded and Errors	0	0	0	0	0	0	0	0	0	0
Total	4,764	13	4,618	16	4,864	18	5,012	16	4,899	16

5-Year Trend
Crashes by Crash Type

Muskegon County (continued)

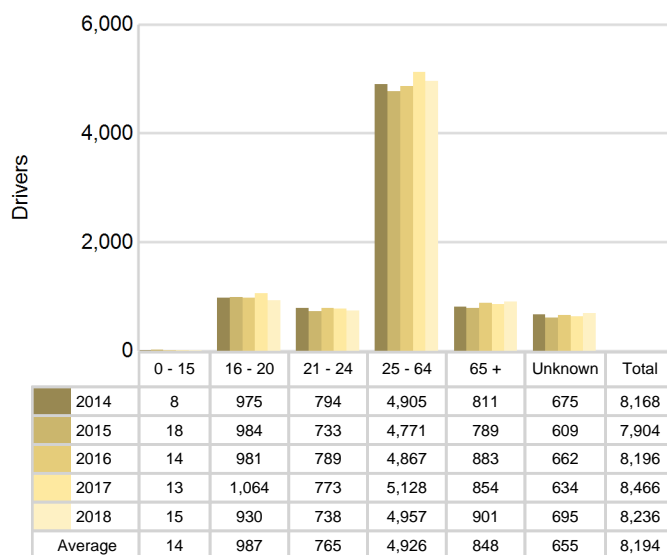
2018 - Reported Motor Vehicle Crashes by Municipality

Municipality	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Blue Lake Twp.	40	0	12	28	0	0	0	40	2	2	15	0	15
Casnovia	8	0	1	7	0	0	7	1	0	0	4	0	1
Casnovia Twp.	107	0	21	86	0	0	62	45	5	1	43	0	26
Cedar Creek Twp.	58	1	11	46	0	0	8	50	5	1	17	1	20
Dalton Twp.	221	3	50	168	0	76	50	95	5	1	48	3	78
Egelston Twp.	119	0	37	82	0	0	57	62	7	2	10	0	56
Fruitland Twp.	110	2	20	88	0	8	0	102	4	1	47	2	23
Fruitport	32	1	3	28	0	0	0	32	2	1	1	1	3
Fruitport Twp.	274	0	40	234	65	8	0	199	7	6	52	0	52
Holton Twp.	67	1	17	49	0	0	31	36	6	2	19	1	25
Laketon Twp.	89	2	17	70	0	0	0	89	4	0	27	2	27
Lakewood Club	21	0	5	16	0	7	0	14	0	0	4	0	8
Montague	31	0	6	25	0	13	0	18	1	0	10	0	7
Montague Twp.	89	0	18	71	0	45	0	44	7	1	32	0	29
Moorland Twp.	69	0	10	59	0	0	16	53	3	1	36	0	15
Muskegon	1,354	2	251	1,101	0	256	141	957	38	22	31	2	331
Muskegon Heights	342	1	73	268	0	19	0	323	13	3	7	1	96
Muskegon Twp.	607	3	155	449	0	152	209	244	22	6	21	3	220
North Muskegon	63	0	9	54	0	0	30	33	1	0	1	0	11
Norton Shores	818	0	136	682	12	322	0	484	16	2	66	0	178
Ravenna	11	0	3	8	0	0	0	11	1	1	1	0	7
Ravenna Twp.	72	0	13	59	0	0	0	72	1	0	43	0	15
Roosevelt Park	15	0	3	12	0	0	0	15	2	0	1	0	3
Sullivan Twp.	85	0	18	67	0	0	0	85	6	3	30	0	28
White River Twp.	15	0	1	14	0	0	0	15	0	0	12	0	1
Whitehall	51	0	5	46	0	24	0	27	1	0	10	0	6
Whitehall Twp.	131	0	28	103	0	92	0	39	5	1	25	0	38
Unknown Community	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	4,899	16	963	3,920	77	1,022	611	3,185	164	57	613	16	1,319

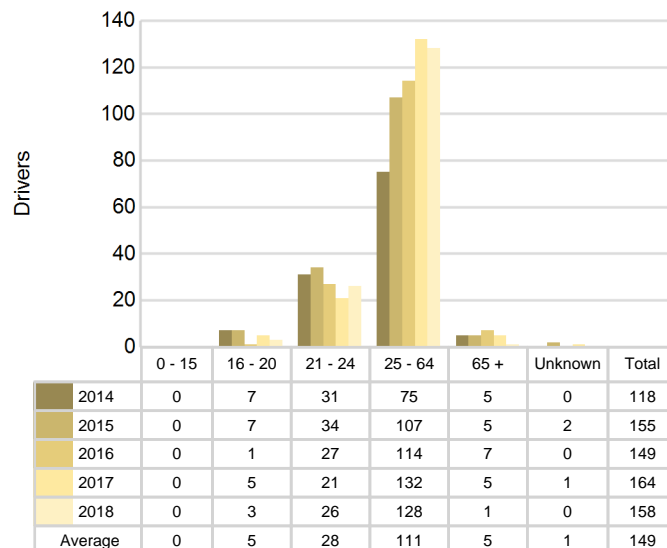
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

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	8	0	18	0	14	0	13	0	15	0
16 - 20	975	7	984	7	981	1	1,064	5	930	3
21 - 24	794	31	733	34	789	27	773	21	738	26
25 - 64	4,905	75	4,771	107	4,867	114	5,128	132	4,957	128
65 +	811	5	789	5	883	7	854	5	901	1
Unknown	675	0	609	2	662	0	634	1	695	0
Total	8,168	118	7,904	155	8,196	149	8,466	164	8,236	158

5-Year Trend
Total Drivers in Crashes by Age



5-Year Trend
Total Drivers Coded Drinking by Age



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	0	0	0	0	0	0	0	0	0
16 - 20	11	8	2	3	0	0	2	0	1
21 - 24	33	22	19	26	0	3	5	8	10
25 - 64	174	134	110	128	1	9	25	38	55
65 +	6	5	1	1	0	0	1	0	0
Unknown	7	0	0	0	0	0	0	0	0
Total	231	169	132	158	1	12	33	46	66

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 231 drivers in alcohol-involved crashes; 158 (68.4%) of those drivers were coded as had-been-drinking by the officer on the crash form.

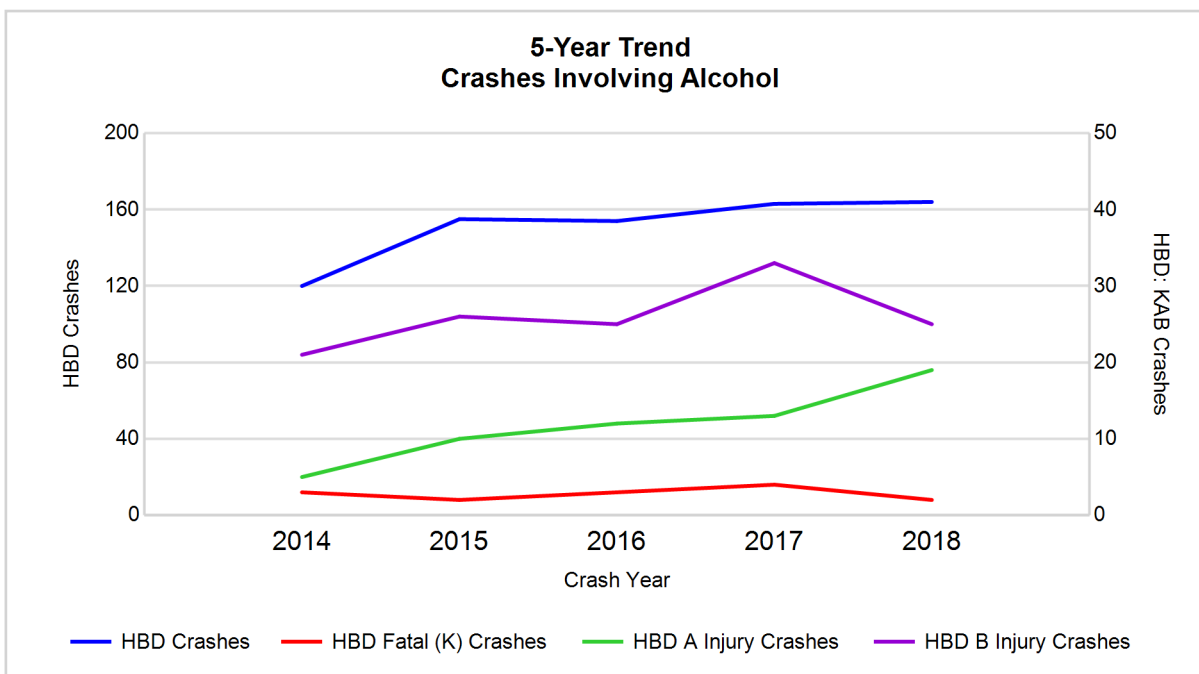
- 79 (50.0%) of the 158 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 46 (58.2%) of the 79 drivers had a BAC at or above 0.17 g/dL.
- 132 (83.5%) of the 158 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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	4,764	120	2.5	13	3	23.1	93	5	5.4	299	21	7.0
2015	4,618	155	3.4	16	2	12.5	76	10	13.2	286	26	9.1
2016	4,864	154	3.2	18	3	16.7	76	12	15.8	303	25	8.3
2017	5,012	163	3.3	16	4	25.0	97	13	13.4	302	33	10.9
2018	4,899	164**	3.3	16	2	12.5	101**	19**	18.8**	292	25	8.6

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



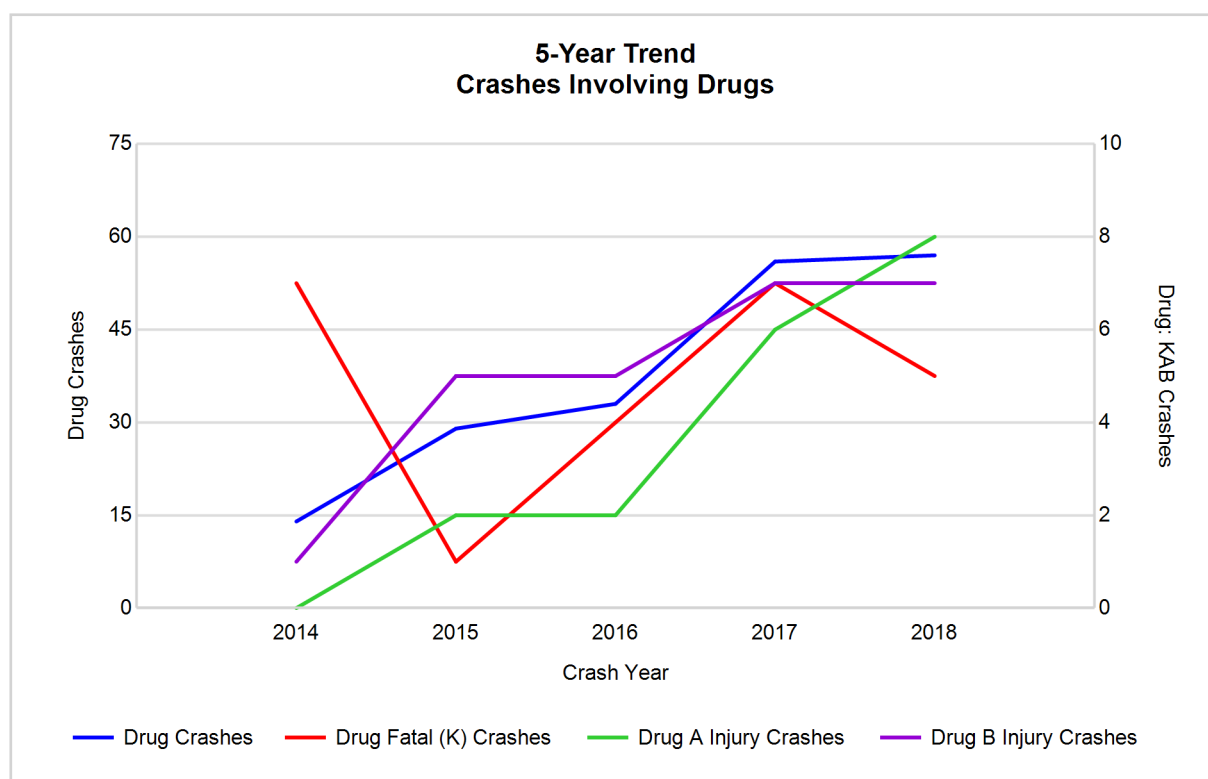
Note: Had-Been-Drinking (HBD)

5-Year Trend - Crashes Involving Drugs

Year	All Crashes	Drug Crashes	% Drug	Fatal Crashes	Drug Fatal Crashes	% Drug	A Injury Crashes	Drug A Injury Crashes	% Drug	B Injury Crashes	Drug B Injury Crashes	% Drug
2014	4,764	14	0.3	13	7	53.8	93	0	0.0	299	1	0.3
2015	4,618	29	0.6	16	1	6.3	76	2	2.6	286	5	1.7
2016	4,864	33	0.7	18	4	22.2	76	2	2.6	303	5	1.7
2017	5,012	56	1.1	16	7	43.8	97	6	6.2	302	7	2.3
2018	4,899	57**	1.2**	16	5	31.3	101**	8**	7.9**	292	7	2.4**

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

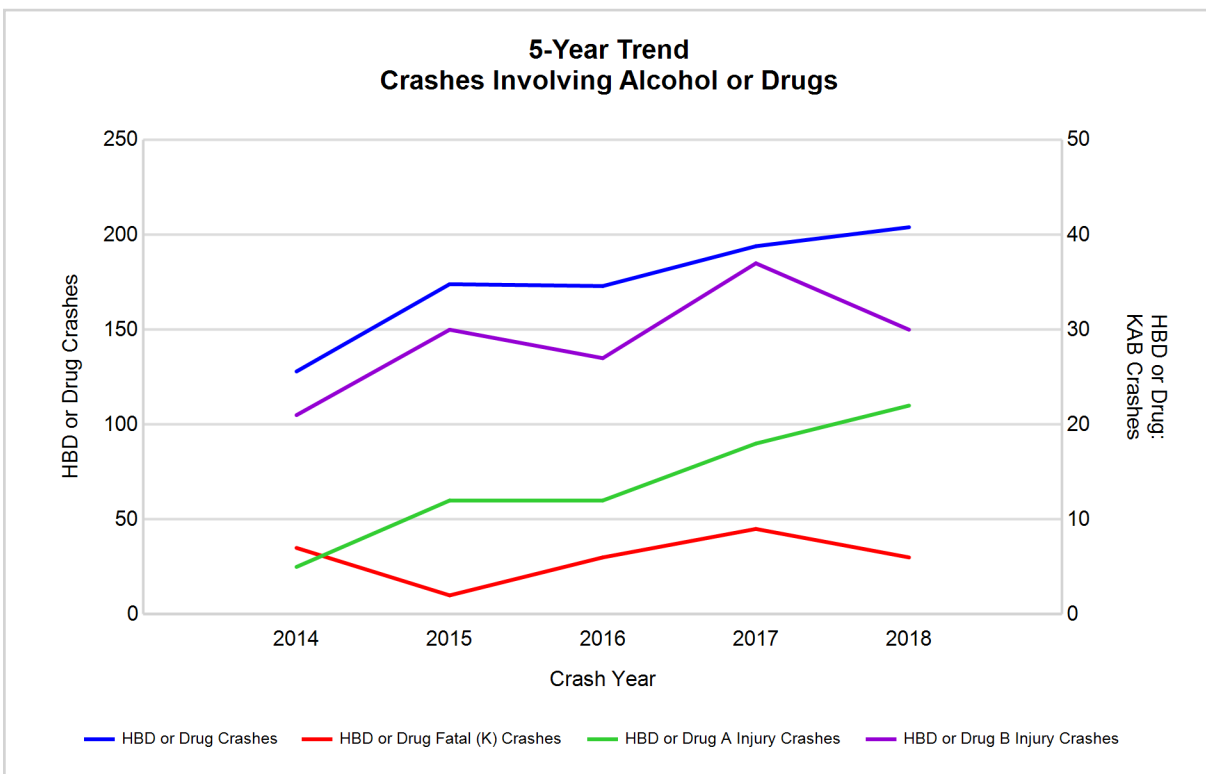


5-Year Trend - Crashes Involving Alcohol or Drugs

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	4,764	128	2.7	13	7	53.8	93	5	5.4	299	21	7.0
2015	4,618	174	3.8	16	2	12.5	76	12	15.8	286	30	10.5
2016	4,864	173	3.6	18	6	33.3	76	12	15.8	303	27	8.9
2017	5,012	194	3.9	16	9	56.3	97	18	18.6	302	37	12.3
2018	4,899	204**	4.2**	16	6	37.5	101**	22**	21.8**	292	30	10.3

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)

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	7,039	6,085	86.4	7	5	71.4	78	60	76.9	284	246	86.6	675	626	92.7	5,715	5,148	90.1
Motor home	120	108	90.0	0	0	0.0	1	0	0.0	4	4	100.0	8	8	100.0	105	96	91.4
Pickup truck	866	768	88.7	1	0	0.0	11	9	81.8	44	38	86.4	52	44	84.6	720	677	94.0
Small truck under 10,000 lbs. GVWR	82	75	91.5	0	0	0.0	1	1	100.0	2	1	50.0	9	9	100.0	69	64	92.8
Motorcycle	102	65	63.7	5	5	100.0	21	13	61.9	32	19	59.4	18	9	50.0	24	19	79.2
Moped / goped	15	3	20.0	0	0	0.0	1	0	0.0	8	3	37.5	3	0	0.0	2	0	0.0
Go-cart / golf cart	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	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	2	0	0.0	0	0	0.0	2	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Other	66	28	42.4	0	0	0.0	0	0	0.0	1	1	100.0	9	1	11.1	55	26	47.3
Truck/bus over 10,000 lbs.	137	117	85.4	2	0	0.0	1	1	100.0	1	1	100.0	5	1	20.0	123	114	92.7
Unknown	153	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	21	0	0.0
Total	8,582	7,249	84.5	15	10	0.0	116	84	72.4	376	313	83.2	779	698	89.6	6,834	6,144	89.9

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	105	90	85.7	0	0	0.0	8	3	37.5	21	20	95.2	65	59	90.8	11	8	72.7
16 - 20	985	898	91.2	1	0	0.0	13	11	84.6	61	47	77.0	85	75	88.2	824	765	92.8
21 - 24	758	691	91.2	1	1	100.0	7	3	42.9	35	29	82.9	66	63	95.5	648	595	91.8
25 - 64	5,104	4,685	91.8	10	6	60.0	77	57	74.0	212	173	81.6	469	424	90.4	4,318	4,025	93.2
65 +	935	884	94.5	3	3	100.0	11	10	90.9	47	44	93.6	89	77	86.5	779	750	96.3
Unknown	695	1	0.1	0	0	0.0	0	0	0.0	0	0	0.0	5	0	0.0	254	1	0.4
Total	8,582	7,249	84.5	15	10	0.0	116	84	72.4	376	313	83.2	779	698	89.6	6,834	6,144	89.9

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

5-Year Trend - Restraint Use Among Drivers

Restraint Use	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	27	0	3	69	0	5	58	1	1	11	0	5	6	0	1
Shoulder belt only used	10	0	1	32	0	2	55	0	2	79	0	8	43	0	4
Lap belt only used	14	0	2	19	0	0	11	0	1	8	0	2	13	0	3
Both lap & shoulder belts used	7,114	5	710	6,890	4	689	6,955	6	739	7,179	5	746	6,835	5	754
No belts used	58	0	12	64	3	23	49	3	15	49	3	27	48	4	27
Child restraint used	0	0	0	0	0	0	4	0	1	0	0	0	0	0	0
Child restraint not used, unavailable or improper use	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Restraint failure	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0
Restraint use unknown	356	2	23	239	1	16	412	1	46	1,029	3	43	1,185	0	61
Helmet worn	55	0	41	52	0	36	51	0	34	36	0	20	63	5	39
Helmet not worn	46	2	38	33	0	22	43	1	32	29	0	19	36	0	34
Helmet use unknown	7	0	2	6	0	4	9	0	5	4	0	3	6	0	3
Uncoded & errors	480	0	0	500	0	0	548	0	0	42	0	0	1	0	0
Total	8,168	9	833	7,904	8	797	8,196	12	876	8,466	11	873	8,236	14	926

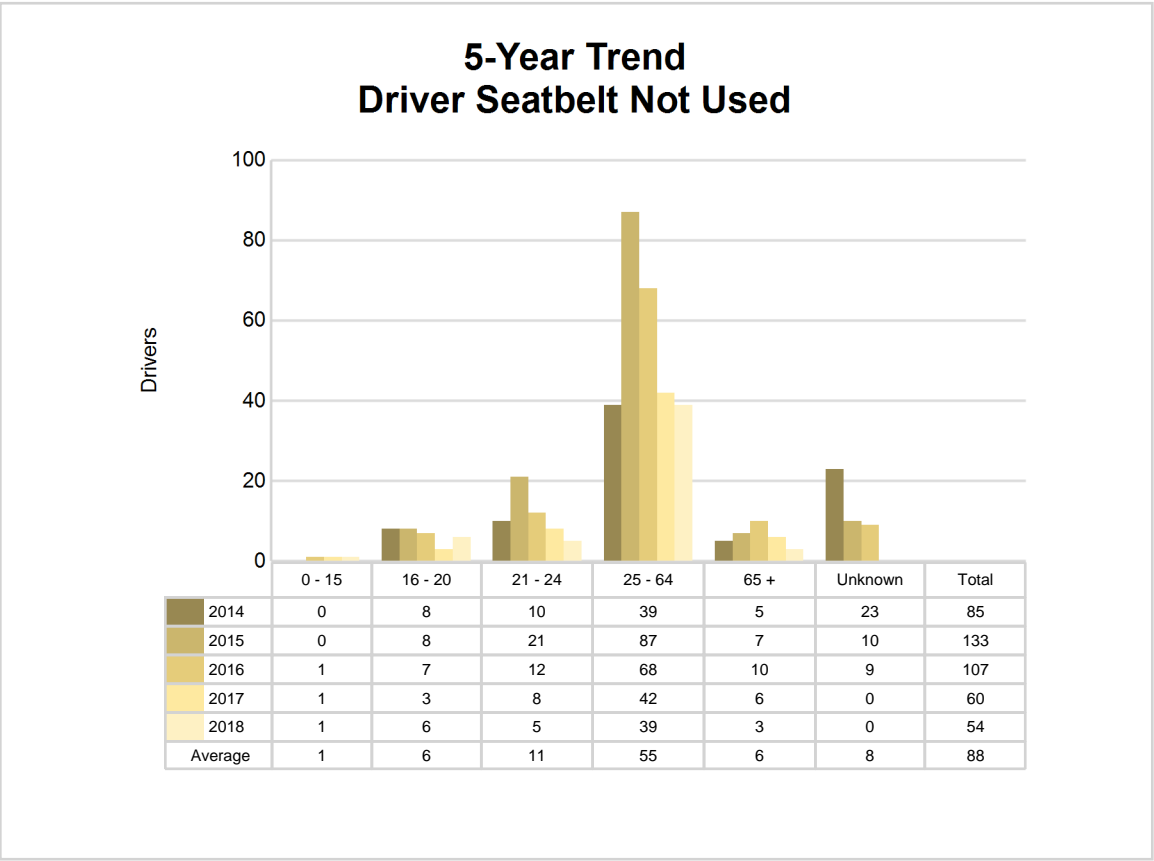
5-Year Trend - Restraint Use Among Drivers Coded Drinking

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	6	0	0	2	0	0	2	0	2	0	0	0
Shoulder belt only used	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lap belt only used	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Both lap & shoulder belts used	90	0	20	122	0	29	114	0	31	113	1	35	113	0	27
No belts used	4	0	3	10	1	6	8	0	3	15	2	11	8	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	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Restraint use unknown	13	1	3	12	0	4	16	0	4	31	1	10	30	0	8
Helmet worn	2	0	0	2	0	2	1	0	1	1	0	1	4	1	3
Helmet not worn	7	1	5	2	0	2	7	1	6	1	0	1	3	0	3
Helmet use unknown	0	0	0	0	0	0	1	0	1	1	0	1	0	0	0
Uncoded & errors	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Total	118	2	32	155	1	43	149	1	46	164	4	61	158	2	48

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	0	0	0	1	0	0	1	0	0	1	0	0
16 - 20	8	0	2	8	0	1	7	0	3	3	0	2	6	0	4
21 - 24	10	0	1	21	1	8	12	0	1	8	0	5	5	0	3
25 - 64	39	0	8	87	2	19	68	2	10	42	2	22	39	4	19
65 +	5	0	4	7	0	0	10	2	2	6	1	3	3	0	2
Unknown	23	0	0	10	0	0	9	0	0	0	0	0	0	0	0
Total	85	0	15	133	3	28	107	4	16	60	3	32	54	4	28

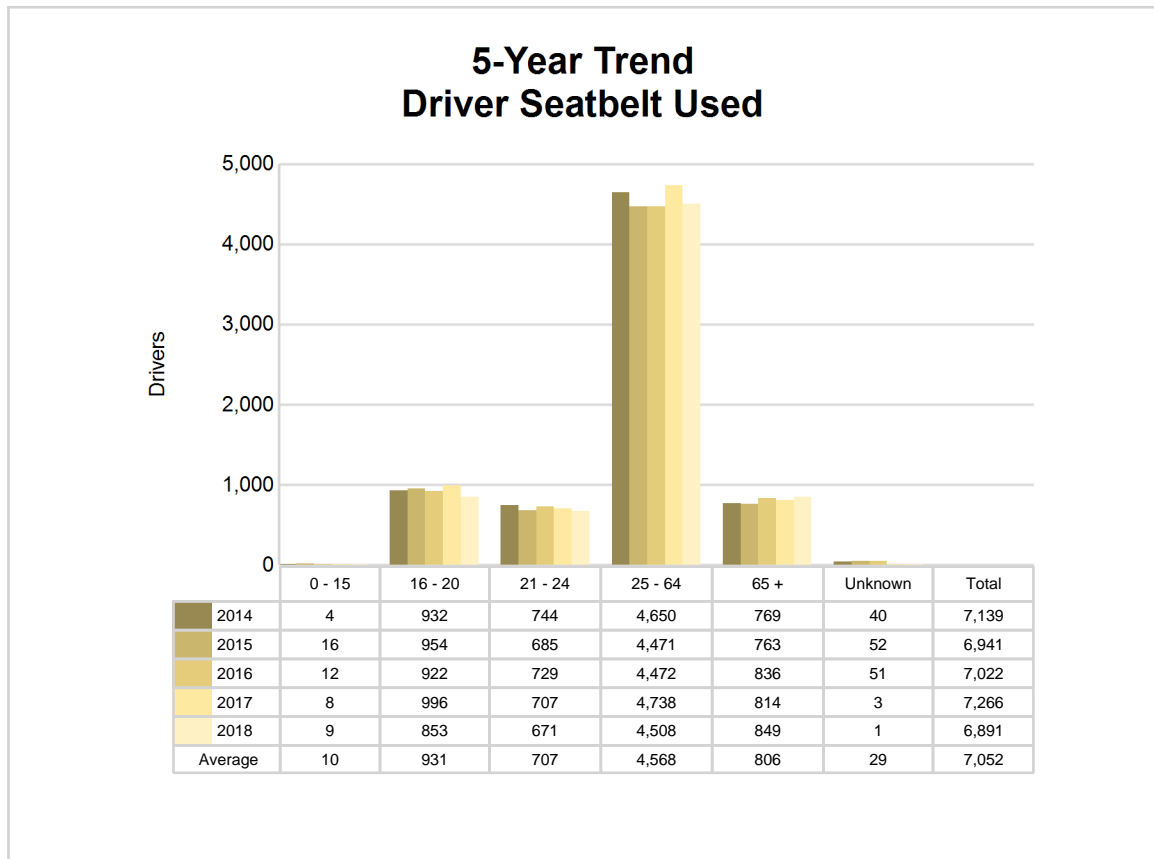
Note: Seatbelt Not Used includes no belts available or no belts used.



5-Year Trend - Seatbelt Used Among Drivers by Age

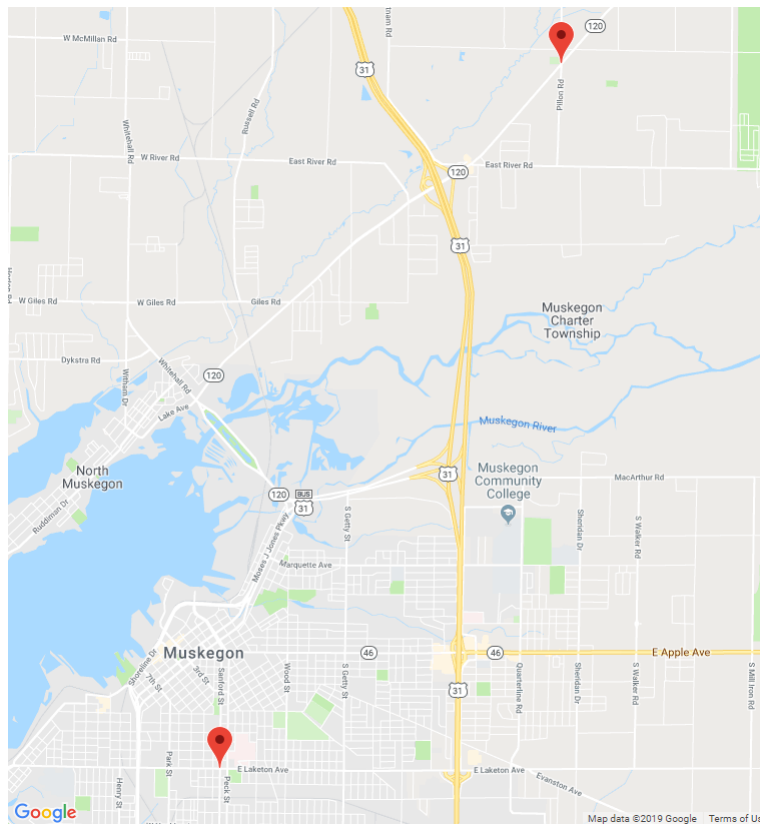
Age Group	2014			2015			2016			2017			2018		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
0 - 15	4	0	1	16	0	3	12	0	0	8	0	0	9	0	1
16 - 20	932	1	90	954	0	88	922	0	95	996	0	104	853	0	90
21 - 24	744	0	81	685	0	56	729	1	99	707	0	62	671	1	76
25 - 64	4,650	2	447	4,471	2	462	4,472	2	455	4,738	3	492	4,508	2	496
65 +	769	2	95	763	2	82	836	3	92	814	2	98	849	2	98
Unknown	40	0	0	52	0	0	51	0	1	3	0	0	1	0	0
Total	7,139	5	714	6,941	4	691	7,022	6	742	7,266	5	756	6,891	5	761

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



5-Year Trend - Drivers in Crashes by Hazardous Action

Hazardous Action	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	4,157	9	4,134	7	4,271	17	4,129	11	4,205	13
Speed too fast	1,069	2	879	3	914	2	933	6	920	2
Speed too slow	1	0	4	0	4	0	2	0	5	0
Failed to yield	865	2	812	4	892	3	894	4	987	5
Disregard traffic control	177	0	177	1	199	5	183	0	229	1
Drove wrong way	2	0	4	0	5	0	4	0	7	0
Drove left of center	50	0	45	2	45	1	66	2	58	1
Improper passing	57	0	60	1	56	0	55	0	52	0
Improper lane use	154	1	168	0	191	1	189	0	207	0
Improper turn	65	0	56	0	70	0	53	0	66	0
Improper/no signal	6	0	4	0	7	0	12	0	13	0
Improper backing	184	0	165	0	158	0	149	0	136	0
Unable to stop in assured clear distance	815	0	801	0	797	0	896	0	729	0
Other	186	1	187	1	192	1	209	0	166	0
Unknown	203	3	208	3	199	0	240	1	236	2
Reckless driving	34	2	30	0	33	1	37	1	31	2
Careless/negligent driving	143	0	169	2	141	0	198	1	188	3
Uncoded & errors	0	0	1	0	22	0	217	0	1	0
Total	8,168	20	7,904	24	8,196	31	8,466	26	8,236	29



The picture above represents all 2018 alcohol-involved fatal crashes in Muskegon County.

In 2018, there were 164 alcohol-involved crashes in Muskegon County:

- 2 K - Fatal Crashes
- 19 A - Suspected Serious Injury Crashes
- 25 B - Suspected Minor Injury Crashes
- 24 C - Possible Injury Crashes
- 94 O - Property Damage Only/No Injury Crashes

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