



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

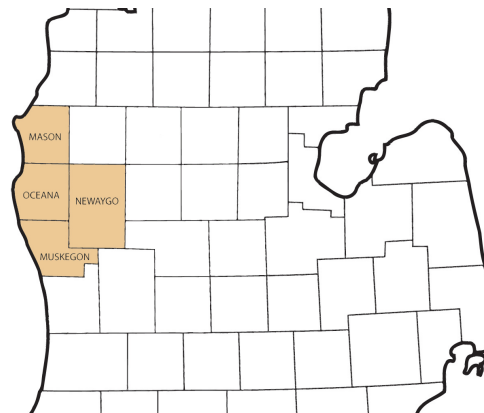
Property Damage Only (PDO)



Traffic Safety Network Lakeshore

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

Traffic Safety Network Lakeshore is comprised of Mason, Muskegon, Newaygo, and Oceana counties. Trend tables for this report are based on those counties.



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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TSN Lakeshore Experience

In 2018:

There were 13,249 drivers involved in 8,907 motor vehicle crashes in Traffic Safety Network Lakeshore. Of those crashes, 33 were classified as fatal, resulting in 33 fatalities. An additional 2,036 persons were injured.

Traffic Safety Network Lakeshore experienced the highest number of motor vehicle crashes (994) in November, the highest number of fatal crashes (6) and the highest number of persons killed (6) in August.

Michigan driver statistics indicate 6.4 percent of licensed drivers in Traffic Safety Network Lakeshore were age 16-20, and 10.7 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	866	1	110	755	1	140
February	686	2	100	584	2	150
March	662	1	87	574	1	118
April	675	2	129	544	2	174
May	642	1	131	510	1	191
June	772	3	153	616	3	217
July	719	5	160	554	5	218
August	637	6	142	489	6	201
September	630	4	127	499	4	173
October	868	2	114	752	2	156
November	994	2	122	870	2	155
December	756	4	106	646	4	143
Total	8,907	33	1,481	7,393	33	2,036

2018 - Driver Statistics

Age Group	Lakeshore			Driver Rates	
	2018 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	55,650	1,324	21	3.8	158.6
16 - 20	16,391	12,347	1,422	867.5	1,151.7
21 - 24	12,959	11,824	1,150	887.4	972.6
25 - 64	141,991	129,730	8,273	582.6	637.7
65 +	51,214	47,592	1,548	302.3	325.3
Unknown	0	0	835	--	--
Total	278,205	202,817	13,249	476.2	653.2

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	10,459	78.9	26	49.1	1,884	8,549
Motor home	129	1.0	0	0.0	27	102
Pickup truck	1,843	13.9	12	22.6	323	1,508
Small truck under 10,000 lbs. GVWR	106	0.8	0	0.0	23	83
Motorcycle	144	1.1	9	17.0	103	32
Moped / goped	19	0.1	1	1.9	14	4
Go-cart / golf cart	2	0.0	0	0.0	1	1
Snowmobile	3	0.0	0	0.0	2	1
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	10	0.1	1	1.9	7	2
Other	81	0.6	0	0.0	22	59
Truck/bus over 10,000 lbs.	253	1.9	4	7.5	50	199
Unknown	200	1.5	0	0.0	14	186
Total	13,249	100.0	53	100.0	2,470	10,726

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	1,106	1	831	3	905	1	881	1	866	1
February	729	1	850	0	640	3	539	4	686	2
March	708	1	541	2	632	2	586	1	662	1
April	435	2	416	0	531	3	508	1	675	2
May	568	1	619	1	648	3	656	1	642	1
June	624	2	644	2	704	3	747	2	772	3
July	565	5	664	3	643	4	687	4	719	5
August	566	2	534	5	670	3	667	5	637	6
September	531	4	576	5	681	5	703	4	630	4
October	713	1	813	1	765	3	907	5	868	2
November	1,130	0	890	3	929	3	911	5	994	2
December	719	3	669	4	1,010	1	1,235	5	756	4
Total	8,394	23	8,047	29	8,758	34	9,027	38	8,907	33

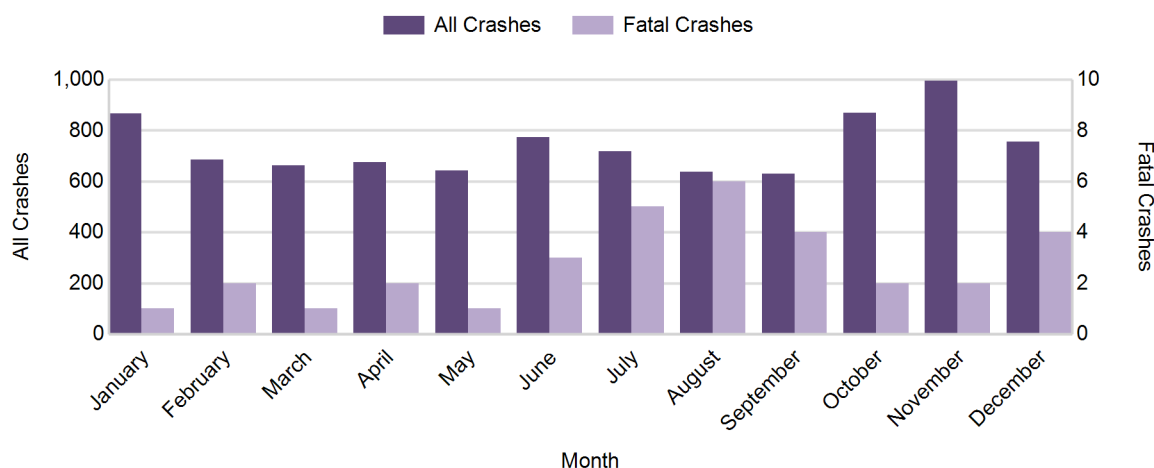
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

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	1,303	3	1,185	3	1,193	5	1,255	3	1,245	5
Tuesday	1,267	0	1,155	1	1,331	7	1,276	1	1,426	3
Wednesday	1,207	3	1,184	8	1,236	3	1,271	3	1,410	3
Thursday	1,384	5	1,260	6	1,299	6	1,424	10	1,275	1
Friday	1,341	2	1,251	1	1,534	4	1,474	8	1,356	3
Saturday	1,051	6	1,130	4	1,201	6	1,232	6	1,246	7
Sunday	841	4	882	6	964	3	1,095	7	949	11
Total	8,394	23	8,047	29	8,758	34	9,027	38	8,907	33

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

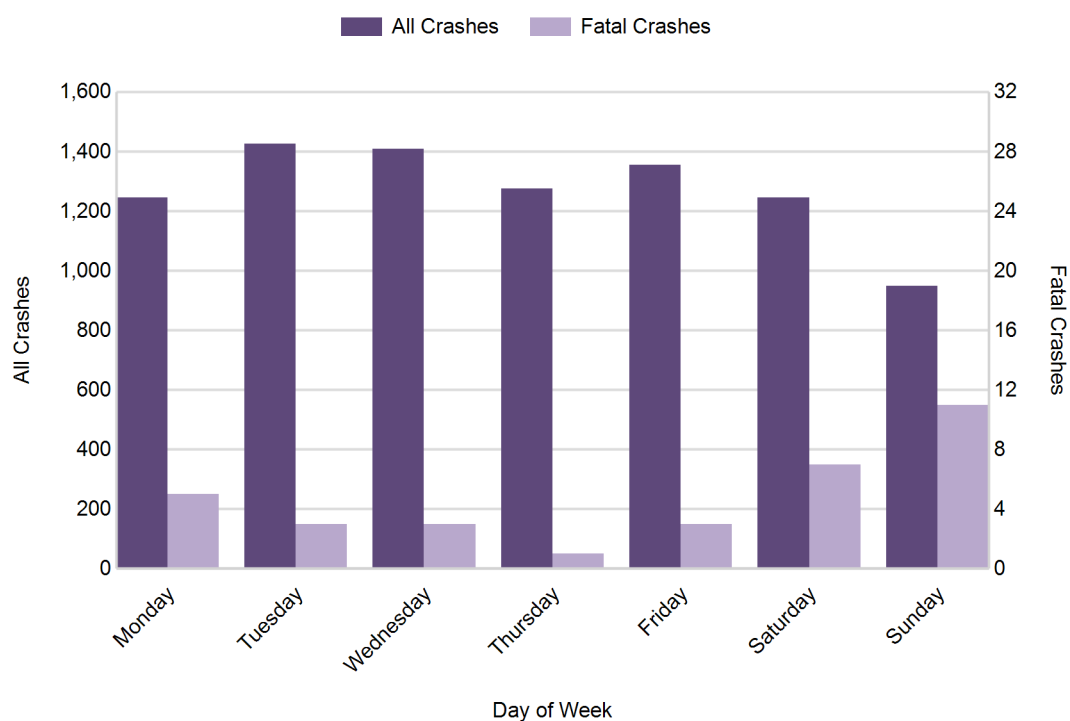
2018 Crashes by Month



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	1,245	14.0	5	15.2	27	59	138	1,016
Tuesday	1,426	16.0	3	9.1	33	68	131	1,191
Wednesday	1,410	15.8	3	9.1	33	72	133	1,169
Thursday	1,275	14.3	1	3.0	20	63	104	1,087
Friday	1,356	15.2	3	9.1	23	79	124	1,127
Saturday	1,246	14.0	7	21.2	25	88	117	1,009
Sunday	949	10.7	11	33.3	20	60	64	794
Total	8,907	100.0	33	100.0	181	489	811	7,393

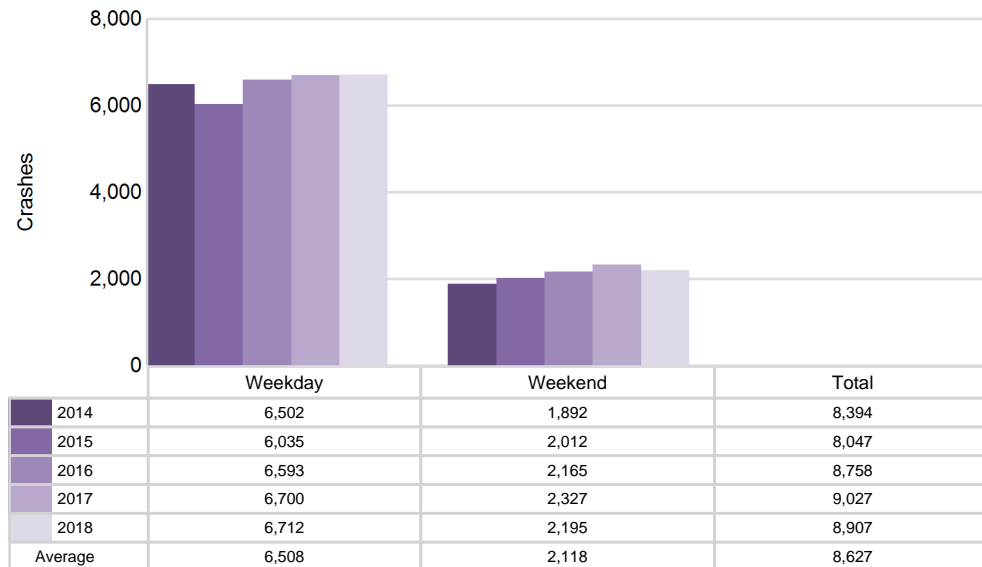
2018 Day of Week and Severity



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	6,502	13	6,035	19	6,593	25	6,700	25	6,712	15
Weekend	1,892	10	2,012	10	2,165	9	2,327	13	2,195	18
Total	8,394	23	8,047	29	8,758	34	9,027	38	8,907	33

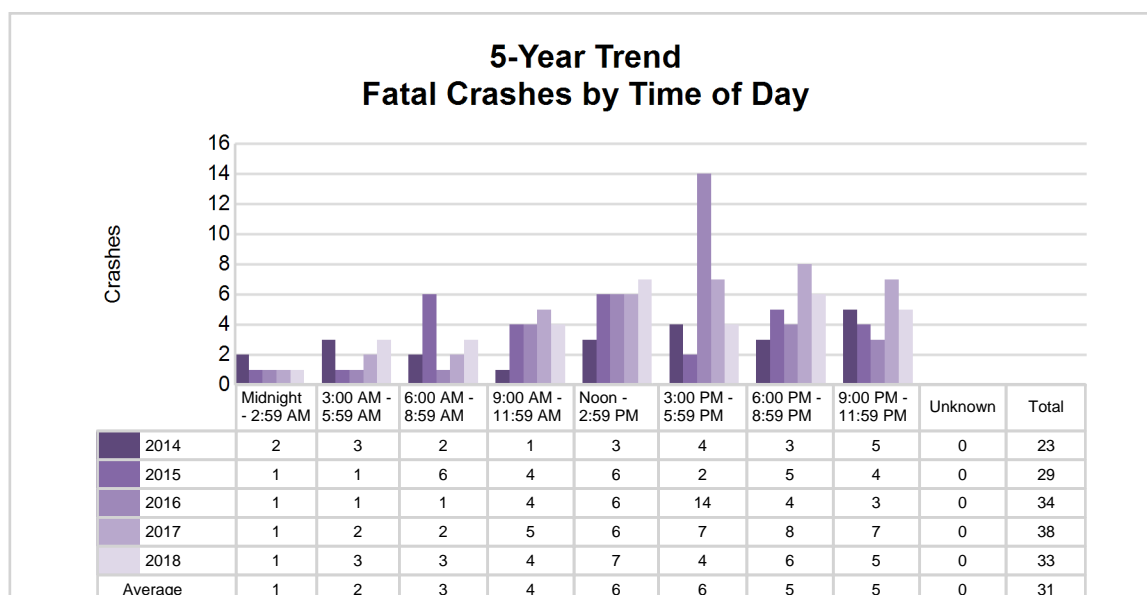
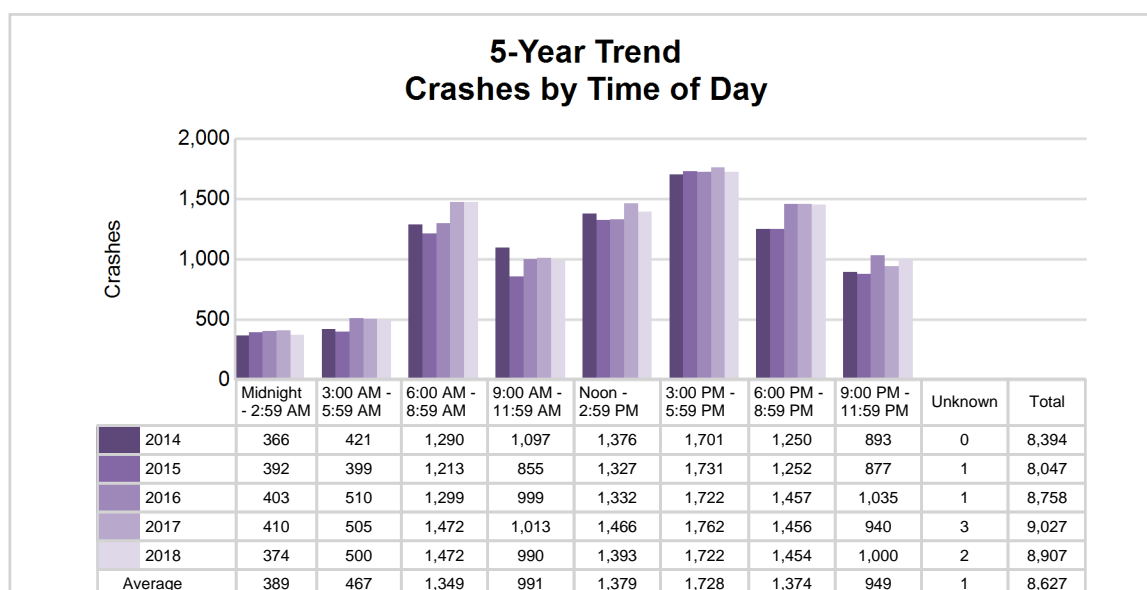
5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



5-Year Trend - Crashes by Time of Day

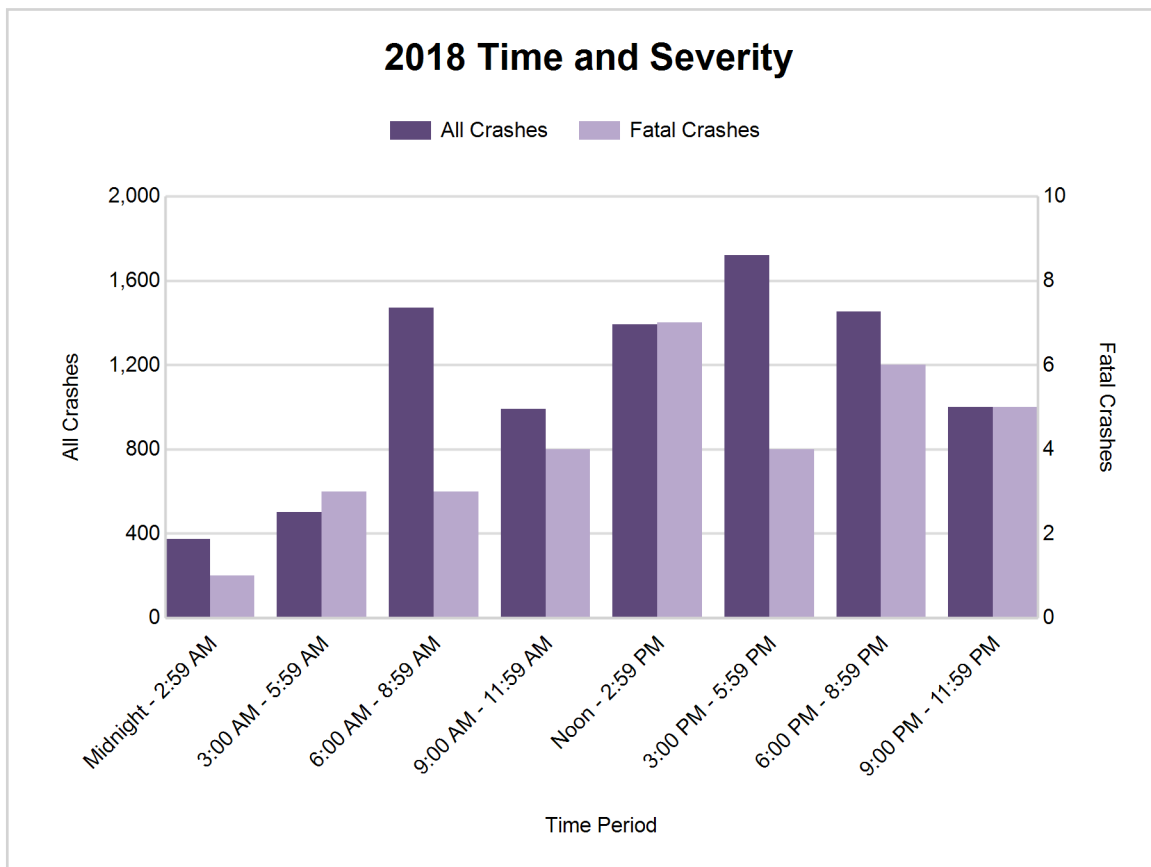
Time of Day	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	366	2	392	1	403	1	410	1	374	1
3:00 AM - 5:59 AM	421	3	399	1	510	1	505	2	500	3
6:00 AM - 8:59 AM	1,290	2	1,213	6	1,299	1	1,472	2	1,472	3
9:00 AM - 11:59 AM	1,097	1	855	4	999	4	1,013	5	990	4
Noon - 2:59 PM	1,376	3	1,327	6	1,332	6	1,466	6	1,393	7
3:00 PM - 5:59 PM	1,701 †	4	1,731 †	2	1,722 †	14	1,762 †	7	1,722 †	4
6:00 PM - 8:59 PM	1,250	3	1,252	5	1,457	4	1,456	8	1,454	6
9:00 PM - 11:59 PM	893	5	877	4	1,035	3	940	7	1,000	5
Unknown	0	0	1	0	1	0	3	0	2	0
Total	8,394	23	8,047	29	8,758	34	9,027	38	8,907	33

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

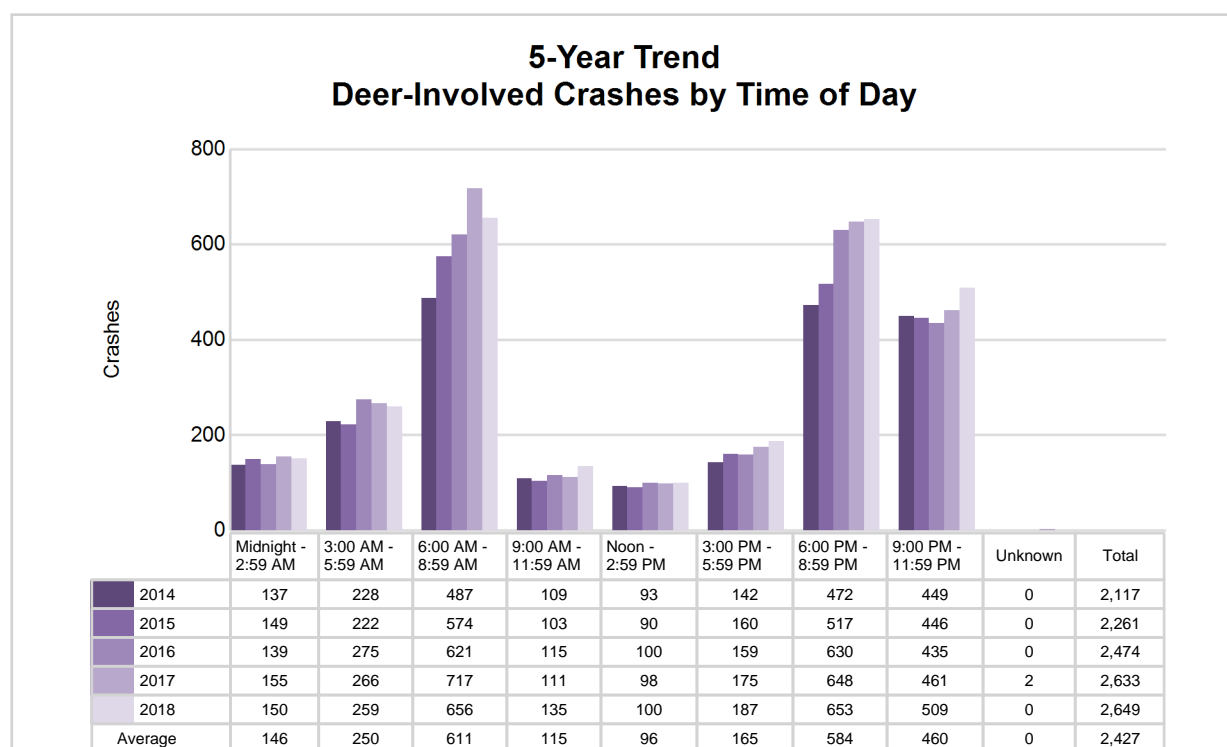
Time of Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Midnight - 2:59 AM	374	4.2	1	3.0	10	23	24	316
3:00 AM - 5:59 AM	500	5.6	3	9.1	10	20	33	434
6:00 AM - 8:59 AM	1,472	16.5	3	9.1	15	45	105	1,304
9:00 AM - 11:59 AM	990	11.1	4	12.1	19	59	102	806
Noon - 2:59 PM	1,393	15.6	7	21.2	31	97	171	1,087
3:00 PM - 5:59 PM	1,722	19.3	4	12.1	42	129	211	1,336
6:00 PM - 8:59 PM	1,454	16.3	6	18.2	28	76	108	1,236
9:00 PM - 11:59 PM	1,000	11.2	5	15.2	26	39	57	873
Unknown	2	0.0	0	0.0	0	1	0	1
Total	8,907	100.0	33	100.0	181	489	811	7,393

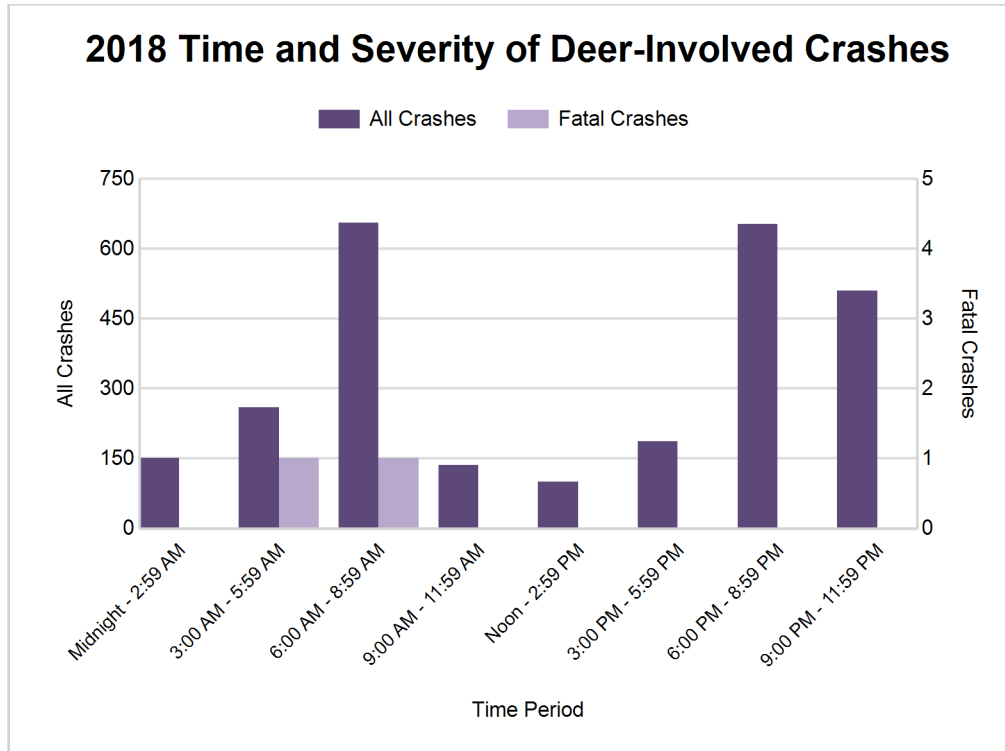


5-Year Trend - Deer-Involved Crashes by Time of Day

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	137	0	149	0	139	0	155	0	150	0
3:00 AM - 5:59 AM	228	0	222	0	275	0	266	0	259	1
6:00 AM - 8:59 AM	487	0	574	1	621	0	717	0	656	1
9:00 AM - 11:59 AM	109	0	103	0	115	0	111	0	135	0
Noon - 2:59 PM	93	0	90	0	100	1	98	0	100	0
3:00 PM - 5:59 PM	142	0	160	0	159	0	175	0	187	0
6:00 PM - 8:59 PM	472	0	517	0	630	0	648	1	653	0
9:00 PM - 11:59 PM	449	1	446	0	435	0	461	0	509	0
Unknown	0	0	0	0	0	0	2	0	0	0
Total	2,117	1	2,261	1	2,474	1	2,633	1	2,649	2

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





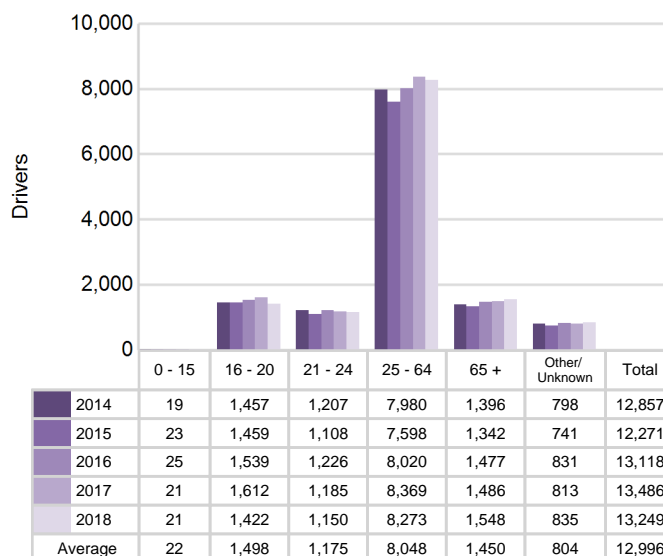
2018 - Reported Motor Vehicle Crashes by County

County	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Mason	1,391	7	139	1,245	0	541	43	807	36	7	746	7	187
Muskegon	4,899	16	963	3,920	77	1,022	611	3,185	164	57	613	16	1,319
Newaygo	1,530	9	215	1,306	0	0	518	1,010	66	12	728	9	320
Oceana	1,087	1	164	922	0	235	127	725	42	7	562	1	210
Total	8,907	33	1,481	7,393	77	1,798	1,299	5,727	308	83	2,649	33	2,036

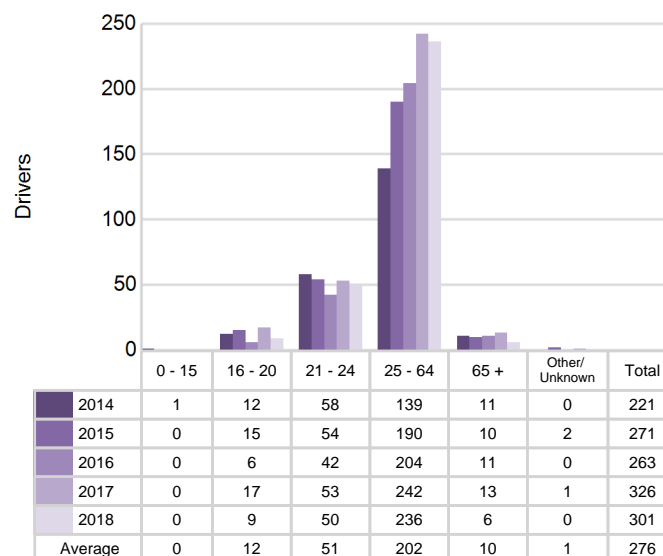
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

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	19	1	23	0	25	0	21	0	21	0
16 - 20	1,457	12	1,459	15	1,539	6	1,612	17	1,422	9
21 - 24	1,207	58	1,108	54	1,226	42	1,185	53	1,150	50
25 - 64	7,980	139	7,598	190	8,020	204	8,369	242	8,273	236
65 +	1,396	11	1,342	10	1,477	11	1,486	13	1,548	6
Unknown	798	0	741	2	831	0	813	1	835	0
Total	12,857	221	12,271	271	13,118	263	13,486	326	13,249	301

5-Year Trend Total Drivers in Crashes by Age

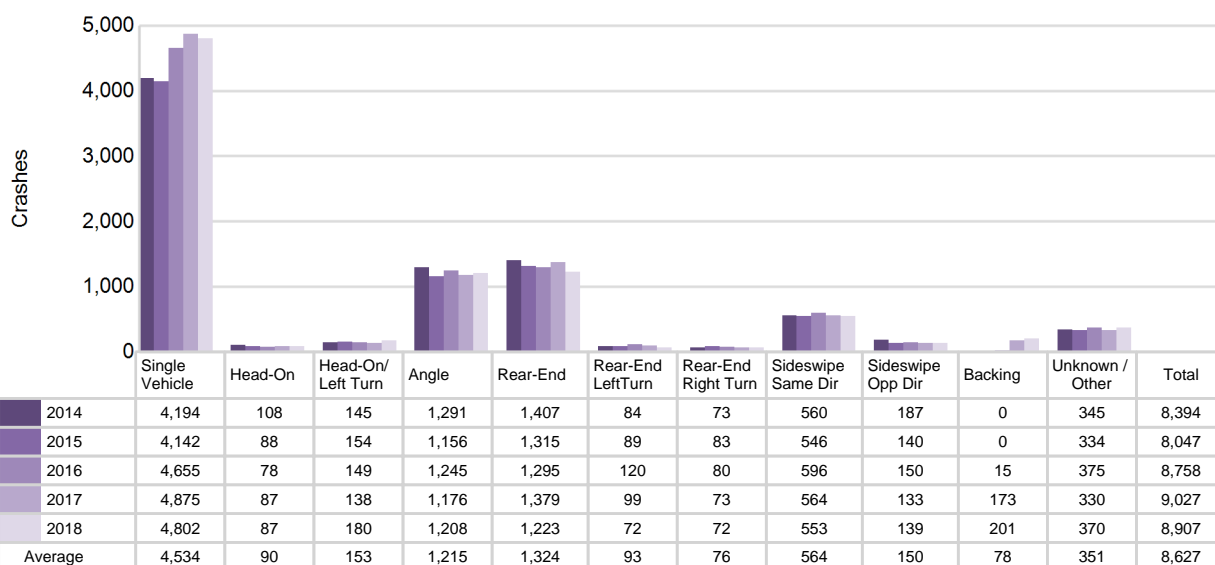


5-Year Trend Total Drivers Coded Drinking by Age



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	4,194	11	4,142	17	4,655	14	4,875	20	4,802	16
Head-on	108	4	88	2	78	4	87	4	87	4
Head-on / left turn	145	0	154	0	149	1	138	0	180	3
Angle	1,291	6	1,156	7	1,245	13	1,176	9	1,208	5
Rear-end	1,407	0	1,315	0	1,295	1	1,379	2	1,223	4
Rear-end left turn	84	0	89	0	120	1	99	0	72	0
Rear-end right turn	73	0	83	0	80	0	73	0	72	0
Sideswipe same direction	560	0	546	0	596	0	564	0	553	0
Sideswipe opposite direction	187	1	140	1	150	0	133	1	139	0
Backing	0	0	0	0	15	0	173	0	201	0
Other / Unknown	345	1	334	2	375	0	330	2	370	1
Uncoded and Errors	0	0	0	0	0	0	0	0	0	0
Total	8,394	23	8,047	29	8,758	34	9,027	38	8,907	33

5-Year Trend
Crashes by Crash Type

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	19	17	8	9	0	1	6	1	1
21 - 24	57	43	40	50	0	6	10	15	19
25 - 64	299	230	181	236	1	20	51	59	105
65 +	15	12	6	6	0	3	2	1	0
Unknown	12	0	0	0	0	0	0	0	0
Total	402	302	235	301	1	30	69	76	125

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 402 drivers in alcohol-involved crashes; 301 (74.9%) of those drivers were coded as had-been-drinking by the officer on the crash form.

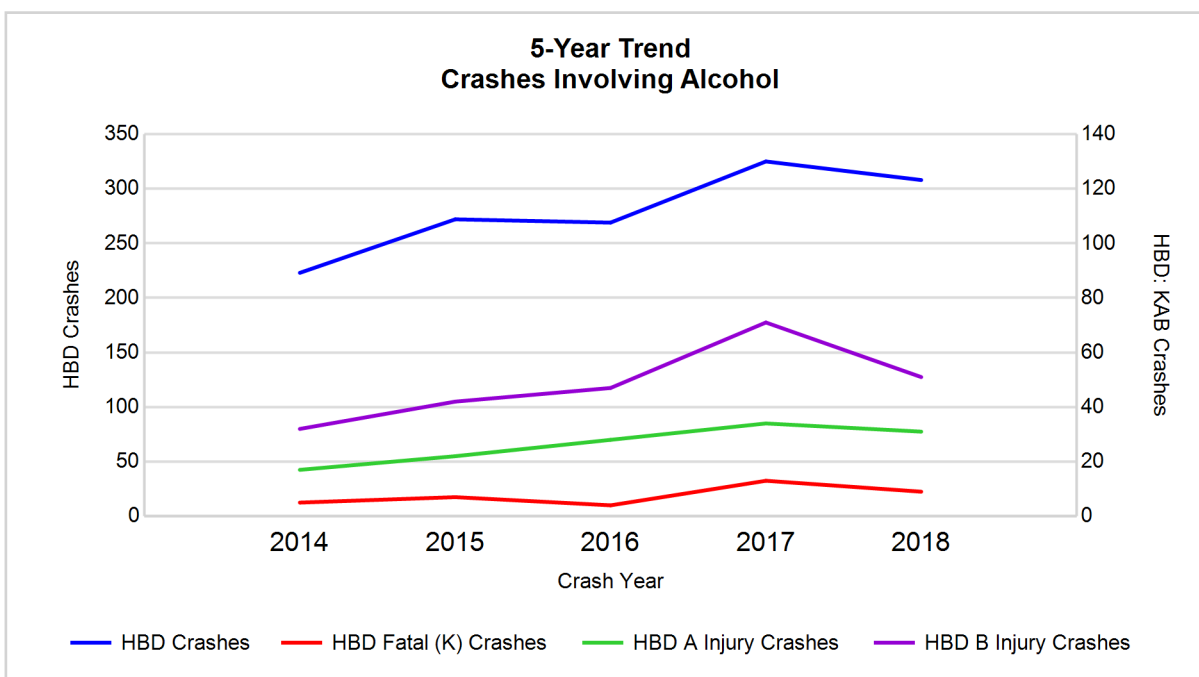
- 145 (48.2%) of the 301 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 76 (52.4%) of the 145 drivers had a BAC at or above 0.17 g/dL.
- 235 (78.1%) of the 301 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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	8,394	223	2.7	23	5	21.7	147	17	11.6	456	32	7.0
2015	8,047	272	3.4	29	7	24.1	121	22	18.2	422	42	10.0
2016	8,758	269	3.1	34	4	11.8	172	28	16.3	452	47	10.4
2017	9,027	325	3.6	38	13	34.2	182	34	18.7	514	71	13.8
2018	8,907	308	3.5	33	9	27.3	181	31	17.1	489	51	10.4

Note: * Indicates that the most recent year is the lowest number or percentage reported in the 5-year period in that column

** Indicates that the most recent year is the highest number or percentage reported in the 5-year period in that column



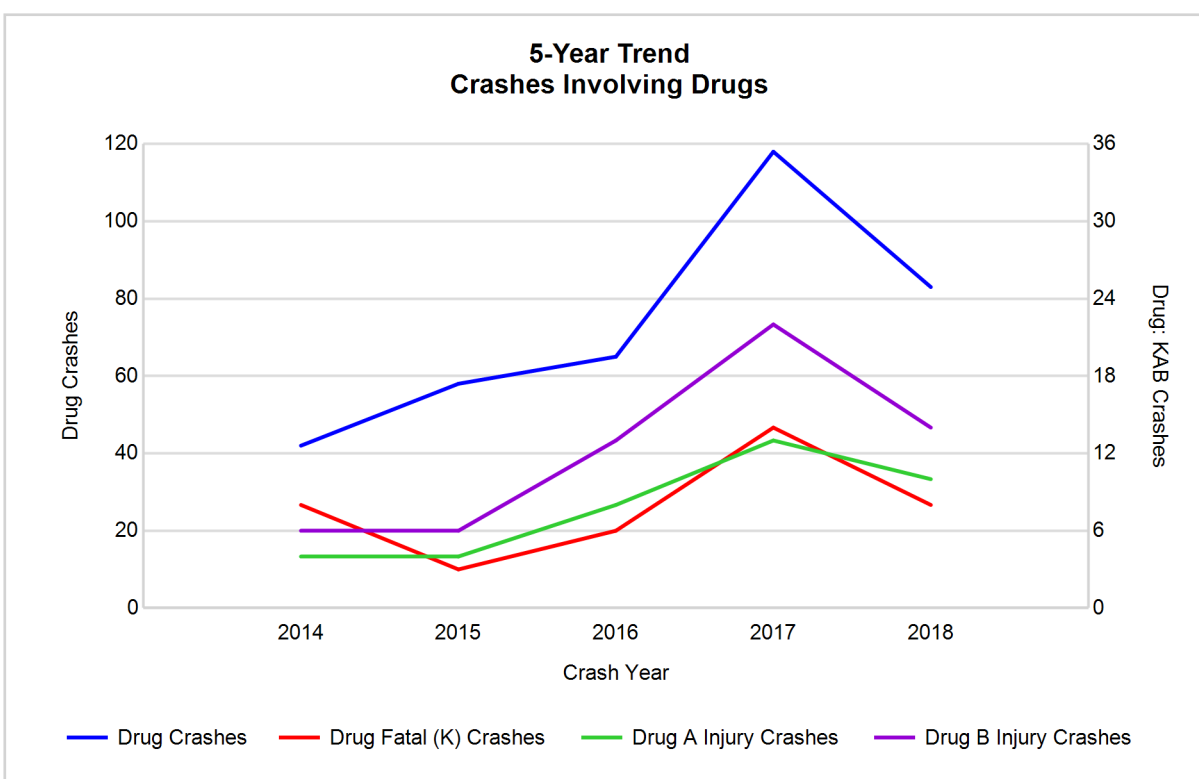
Note: Had-Been-Drinking (HBD)

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	8,394	42	0.5	23	8	34.8	147	4	2.7	456	6	1.3
2015	8,047	58	0.7	29	3	10.3	121	4	3.3	422	6	1.4
2016	8,758	65	0.7	34	6	17.6	172	8	4.7	452	13	2.9
2017	9,027	118	1.3	38	14	36.8	182	13	7.1	514	22	4.3
2018	8,907	83	0.9	33	8	24.2	181	10	5.5	489	14	2.9

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

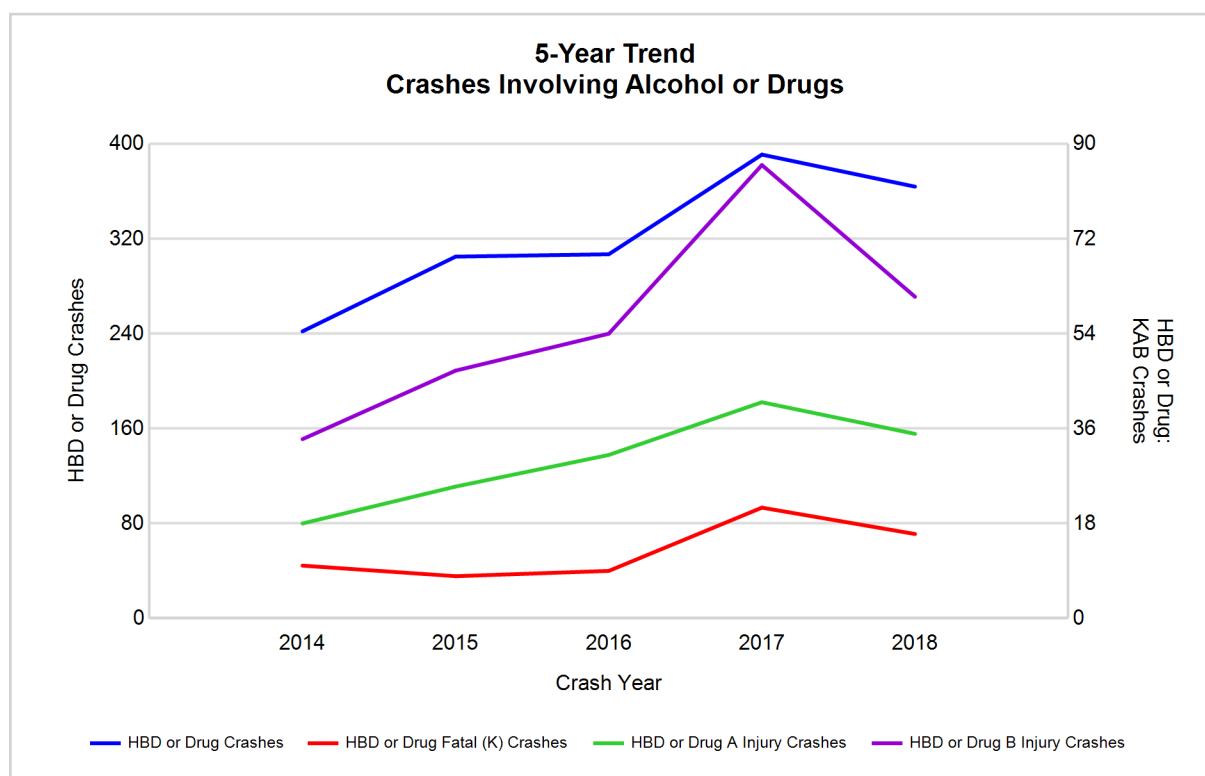


5-Year Trend - Crashes Involving Alcohol or Drugs

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	8,394	242	2.9	23	10	43.5	147	18	12.2	456	34	7.5
2015	8,047	305	3.8	29	8	27.6	121	25	20.7	422	47	11.1
2016	8,758	307	3.5	34	9	26.5	172	31	18.0	452	54	11.9
2017	9,027	391	4.3	38	21	55.3	182	41	22.5	514	86	16.7
2018	8,907	364	4.1	33	16	48.5	181	35	19.3	489	61	12.5

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)

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	10,909	9,778	89.6	13	8	61.5	132	103	78.0	467	413	88.4	946	887	93.8	9,003	8,367	92.9
Motor home	130	118	90.8	0	0	0.0	1	0	0.0	4	4	100.0	8	8	100.0	115	106	92.2
Pickup truck	1,914	1,757	91.8	4	0	0.0	31	24	77.4	94	83	88.3	111	97	87.4	1,610	1,553	96.5
Small truck under 10,000 lbs. GVWR	110	103	93.6	0	0	0.0	1	1	100.0	2	1	50.0	9	9	100.0	97	92	94.8
Motorcycle	155	100	64.5	9	7	77.8	37	21	56.8	47	31	66.0	25	14	56.0	34	27	79.4
Moped / goped	20	5	25.0	1	0	0.0	3	2	66.7	8	3	37.5	4	0	0.0	3	0	0.0
Go-cart / golf cart	3	0	0.0	0	0	0.0	0	0	0.0	1	0	0.0	0	0	0.0	1	0	0.0
Snowmobile	3	2	66.7	0	0	0.0	0	0	0.0	2	2	100.0	0	0	0.0	1	0	0.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	13	3	23.1	1	0	0.0	5	0	0.0	3	1	33.3	1	1	100.0	1	1	100.0
Other	85	38	44.7	0	0	0.0	1	0	0.0	3	2	66.7	9	1	11.1	70	35	50.0
Truck/bus over 10,000 lbs.	258	231	89.5	2	0	0.0	3	2	66.7	4	3	75.0	8	3	37.5	234	223	95.3
Unknown	200	1	0.5	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	22	1	4.5
Total	13,800	12,136	87.9	30	15	50.0	214	153	71.5	635	543	85.5	1,121	1,020	91.0	11,191	10,405	93.0

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	163	139	85.3	1	0	0.0	9	4	44.4	45	38	84.4	91	84	92.3	17	13	76.5
16 - 20	1,506	1,402	93.1	2	0	0.0	31	25	80.6	94	77	81.9	128	116	90.6	1,250	1,184	94.7
21 - 24	1,187	1,107	93.3	3	2	66.7	16	10	62.5	56	49	87.5	96	92	95.8	1,015	954	94.0
25 - 64	8,502	7,952	93.5	19	8	42.1	139	97	69.8	353	297	84.1	672	613	91.2	7,292	6,937	95.1
65 +	1,607	1,535	95.5	5	5	100.0	19	17	89.5	87	82	94.3	129	115	89.1	1,360	1,316	96.8
Unknown	835	1	0.1	0	0	0.0	0	0	0.0	0	0	0.0	5	0	0.0	257	1	0.4
Total	13,800	12,136	87.9	30	15	50.0	214	153	71.5	635	543	85.5	1,121	1,020	91.0	11,191	10,405	93.0

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.

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	68	0	7	102	1	11	79	1	4	27	0	9	27	0	7
Shoulder belt only used	23	0	1	46	0	2	71	0	4	114	0	16	87	0	8
Lap belt only used	27	0	5	28	0	1	23	0	1	26	0	4	20	0	5
Both lap & shoulder belts used	11,420	10	1,081	10,907	7	1,011	11,459	9	1,117	11,729	17	1,134	11,461	6	1,172
No belts used	87	1	22	85	5	33	96	5	40	108	7	58	82	7	45
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	3	0	0	1	0	1	1	0	0
Restraint use unknown	484	2	35	357	2	27	622	2	63	1,278	4	57	1,390	0	70
Helmet worn	114	0	77	94	2	66	90	3	63	82	3	50	101	6	68
Helmet not worn	67	4	53	50	2	34	70	2	54	50	1	38	56	3	47
Helmet use unknown	7	0	2	12	0	9	14	0	8	5	0	4	8	0	5
Uncoded & errors	559	0	0	590	0	1	587	0	0	66	0	0	16	0	0
Total	12,857	17	1,284	12,271	19	1,195	13,118	22	1,355	13,486	32	1,371	13,249	22	1,427

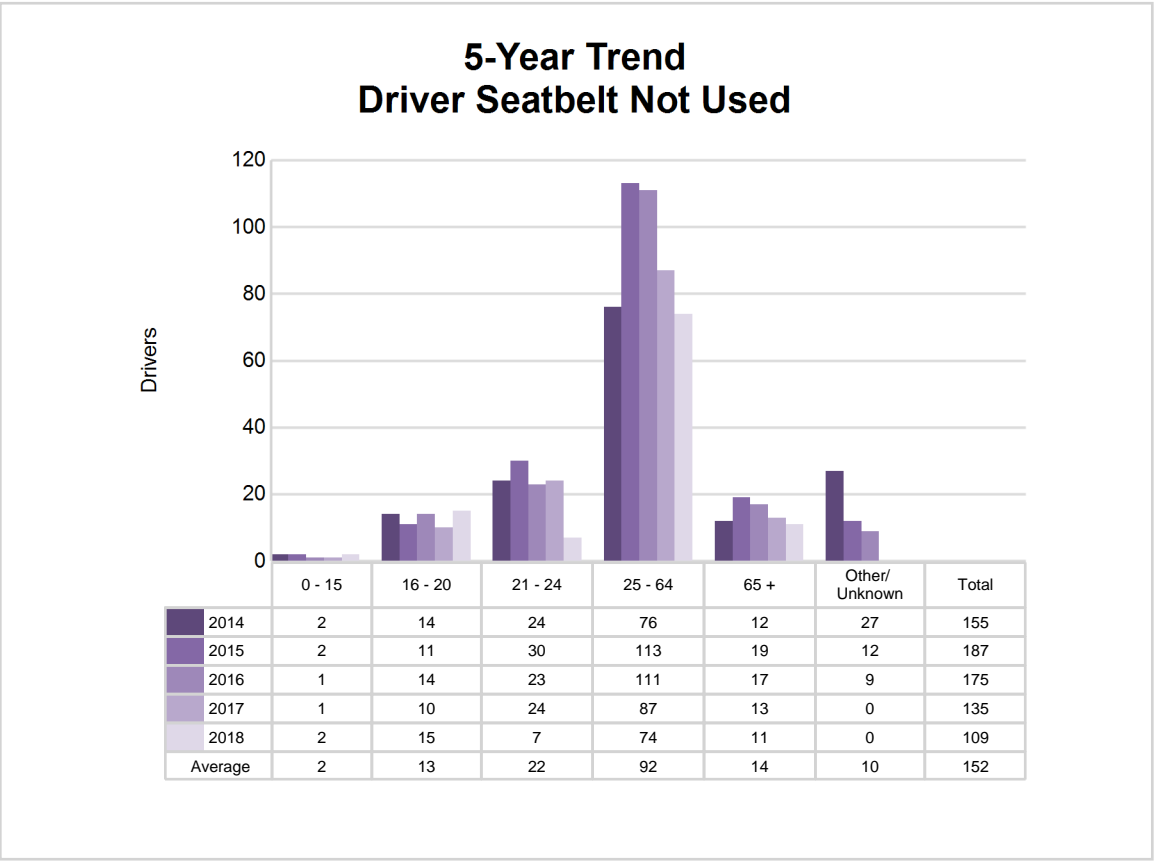
5-Year Trend - Restraint Use Among Drivers Coded Drinking

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	4	0	1	7	1	0	3	0	1	3	0	3	0	0	0
Shoulder belt only used	1	0	0	0	0	0	0	0	0	2	0	2	0	0	0
Lap belt only used	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Both lap & shoulder belts used	161	0	42	214	0	56	194	0	56	226	5	71	219	0	59
No belts used	10	1	7	16	2	10	20	0	13	36	6	26	16	2	12
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	29	1	9	23	0	11	31	0	9	44	1	13	52	0	11
Helmet worn	4	0	2	4	0	4	3	0	3	5	1	3	9	2	7
Helmet not worn	9	2	6	6	1	5	11	1	9	9	0	9	5	1	4
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	221	4	69	271	4	86	263	1	92	326	13	128	301	5	93

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	2	0	0	2	0	1	1	0	0	1	0	0	2	0	0
16 - 20	14	0	4	11	0	2	14	0	7	10	1	7	15	1	9
21 - 24	24	1	4	30	2	11	23	1	8	24	2	17	7	0	4
25 - 64	76	0	15	113	3	27	111	3	24	87	3	36	74	6	36
65 +	12	0	6	19	1	2	17	2	5	13	1	7	11	0	3
Unknown	27	0	0	12	0	1	9	0	0	0	0	0	0	0	0
Total	155	1	29	187	6	44	175	6	44	135	7	67	109	7	52

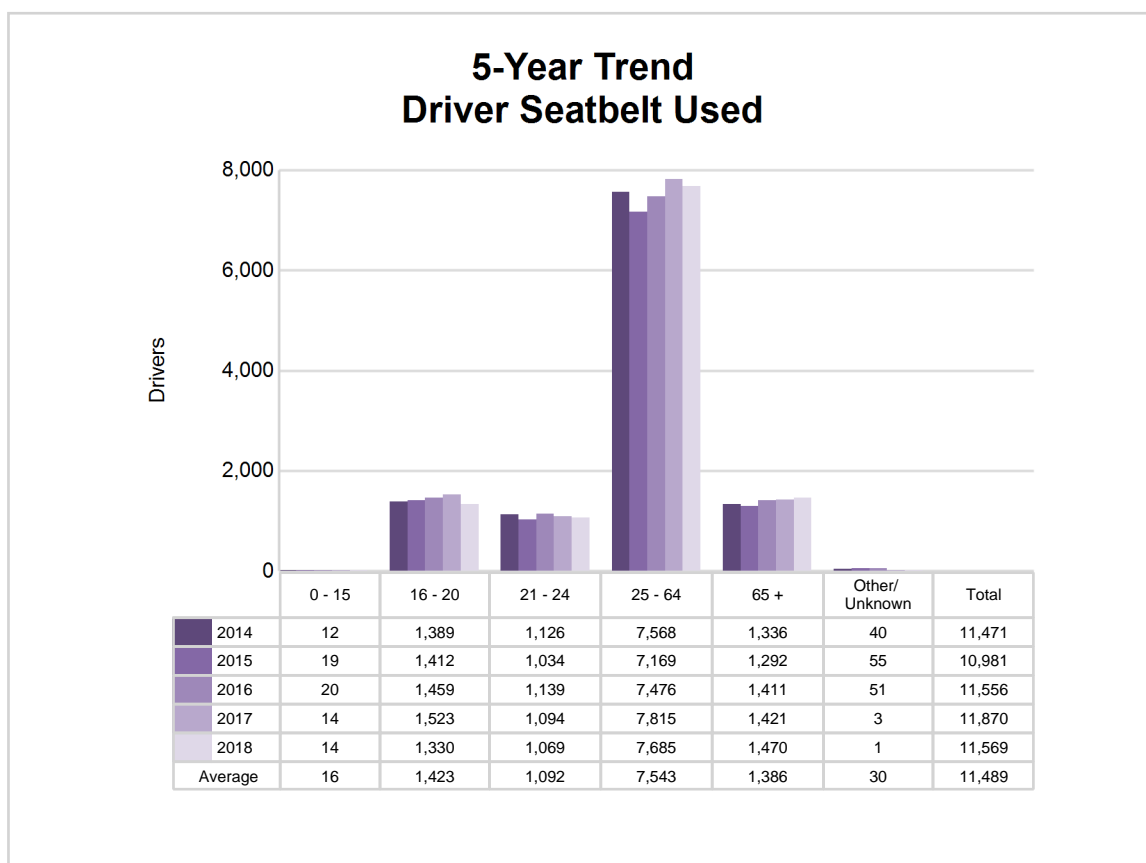
Note: Seatbelt Not Used includes no belts available or no belts used.



5-Year Trend - Seatbelt Used Among Drivers by Age

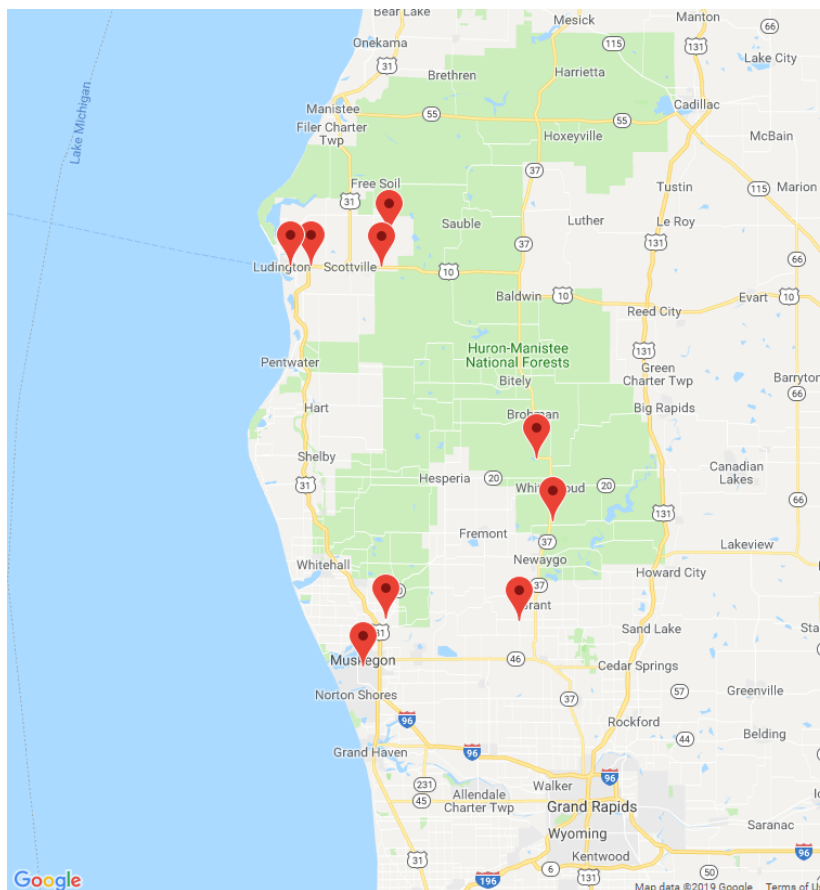
Age Group	2014			2015			2016			2017			2018		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
0 - 15	12	0	1	19	0	3	20	0	1	14	0	0	14	0	1
16 - 20	1,389	2	139	1,412	2	140	1,459	0	166	1,523	2	173	1,330	0	148
21 - 24	1,126	1	120	1,034	0	82	1,139	1	140	1,094	0	95	1,069	1	115
25 - 64	7,568	4	677	7,169	2	662	7,476	4	671	7,815	9	739	7,685	3	768
65 +	1,336	3	151	1,292	3	127	1,411	4	143	1,421	6	148	1,470	2	153
Unknown	40	0	0	55	0	0	51	0	1	3	0	0	1	0	0
Total	11,471	10	1,088	10,981	7	1,014	11,556	9	1,122	11,870	17	1,155	11,569	6	1,185

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	7,127	16	7,050	16	7,521	31	7,432	28	7,569	23
Speed too fast	1,636	3	1,289	6	1,448	4	1,457	13	1,374	7
Speed too slow	5	0	8	0	6	0	5	0	5	0
Failed to yield	1,162	2	1,083	5	1,183	7	1,186	8	1,273	6
Disregard traffic control	233	1	226	2	256	6	226	2	297	2
Drove wrong way	4	0	6	0	6	0	5	0	9	0
Drove left of center	80	2	76	3	64	1	96	5	90	2
Improper passing	69	0	80	1	76	0	74	0	74	0
Improper lane use	180	1	192	0	220	2	228	0	234	0
Improper turn	102	1	80	0	98	1	74	0	95	0
Improper/no signal	12	0	12	0	17	0	16	0	19	0
Improper backing	234	0	206	0	233	0	215	0	191	0
Unable to stop in assured clear distance	1,134	0	1,049	0	1,076	0	1,179	1	985	0
Other	323	1	293	1	308	1	325	1	305	2
Unknown	275	5	273	5	283	1	334	3	329	5
Reckless driving	58	2	55	0	54	1	68	1	59	3
Careless/negligent driving	223	2	292	3	242	1	327	1	326	3
Uncoded & errors	0	0	1	0	27	0	239	0	15	0
Total	12,857	36	12,271	42	13,118	56	13,486	63	13,249	53



The picture above represents all 2018 alcohol-involved fatal crashes in TSN Lakeshore.

In 2018, there were 308 alcohol-involved crashes in TSN Lakeshore:

- 9 K - Fatal Crashes
- 31 A - Suspected Serious Injury Crashes
- 51 B - Suspected Minor Injury Crashes
- 39 C - Possible Injury Crashes
- 178 O - Property Damage Only/No Injury Crashes

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