



2019

MTCF
Michigan Traffic
Crash Facts

Michigan Traffic Crash Facts

Reporting Criteria

Please pay particular attention to the wording when interpreting the three levels of data gathered for this report.

Crash

The Crash Level analyzes data related to crash events and returns one result per crash.

Examples: Time, weather, and location.

Units

The Units Level analyzes the experience of the units in the crash and returns one result per vehicle, driver, pedestrian, bicyclist, or train.

Examples: Vehicle type, driver condition, and unit events.

People

The People Level analyzes the experience of the people involved in the crash and returns one result per occupant/person/party.

Examples: Age, injury severity, and seat belt or helmet use.

KABCO Injury Indicator:

K = Killed

A = Suspected Serious Injury

B = Suspected Minor Injury

C = Possible Injury

O = No Injury

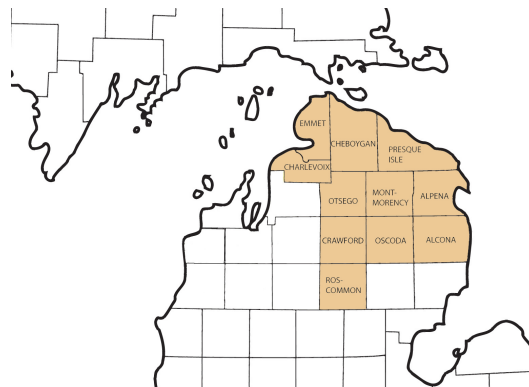
Property Damage Only (PDO)



Traffic Safety Network Northern Lower

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

Traffic Safety Network Northern Lower is comprised of Alcona, Alpena, Charlevoix, Cheboygan, Crawford, Emmet, Montmorency, Oscoda, Otsego, Presque Isle, and Roscommon 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 Northern Lower Experience

In 2019:

There were 11,137 drivers involved in 8,730 motor vehicle crashes in Traffic Safety Network Northern Lower. Of those crashes, 27 were classified as fatal, resulting in 29 fatalities. An additional 1,365 persons were injured.

Traffic Safety Network Northern Lower experienced the highest number of motor vehicle crashes (1,088) in November, the highest number of fatal crashes (4) in July, September, and December, and the highest number of persons killed (5) in September and December.

Michigan driver statistics indicate 5.2 percent of licensed drivers in Traffic Safety Network Northern Lower were age 16-20, and 9.3 percent of drivers in crashes were also in that age group.

2019 - Crashes and Injuries by Month

Month	Crashes				Persons	
	Total	Fatal	Injury	Property Damage Only (PDO)	Fatalities	Injuries
January	868	2	88	778	2	113
February	742	1	100	641	1	136
March	740	0	61	679	0	74
April	598	1	59	538	1	79
May	496	2	56	438	2	75
June	739	3	95	641	3	133
July	673	4	131	538	4	172
August	578	2	84	492	2	127
September	551	4	75	472	5	105
October	733	3	83	647	3	106
November	1,088	1	106	981	1	125
December	924	4	88	832	5	120
Total	8,730	27	1,026	7,677	29	1,365

2019 - Driver Statistics

Age Group	Northern Lower			Driver Rates	
	2019 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	33,113	1,168	21	6.3	179.8
16 - 20	10,769	9,227	1,039	964.8	1,126.0
21 - 24	8,129	8,040	828	1,018.6	1,029.9
25 - 64	106,104	103,045	7,222	680.7	700.9
65 +	58,406	56,514	1,778	304.4	314.6
Unknown	0	0	249	--	--
Total	216,521	177,994	11,137	514.4	625.7

2019 - Vehicles in Crashes

Vehicle Type	Motor Vehicles		Fatal Crashes		Injury Crashes	PDO Crashes
	Number of Vehicles	% of Total	Number	% of Total	Number	Number
Passenger car, SUV, van	7,841	70.4	25	58.1	1,079	6,737
Motor home	57	0.5	0	0.0	10	47
Pickup truck	2,601	23.4	10	23.3	302	2,289
Small truck under 10,000 lbs. GVWR	110	1.0	0	0.0	12	98
Motorcycle	65	0.6	4	9.3	49	12
Moped / goped	11	0.1	0	0.0	11	0
Go-cart / golf cart	0	0.0	0	0.0	0	0
Snowmobile	29	0.3	0	0.0	20	9
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	38	0.3	1	2.3	28	9
Other	41	0.4	0	0.0	1	40
Truck/bus over 10,000 lbs.	276	2.5	3	7.0	42	231
Unknown	68	0.6	0	0.0	4	64
Total	11,137	100.0	43	100.0	1,558	9,536

5-Year Trend - Crashes by Month

Month	2015		2016		2017		2018		2019	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
January	847	1	710	2	729	2	806	1	868	2
February	557	0	640	0	730	2	695	1	742	1
March	522	0	487	0	589	1	638	1	740	0
April	460	0	499	2	439	3	677	0	598	1
May	545	3	564	3	567	3	558	1	496	2
June	759	2	718	2	673	3	747	0	739	3
July	678	4	689	7	706	4	727	3	673	4
August	619	2	628	3	599	1	622	3	578	2
September	538	4	590	3	716	3	563	1	551	4
October	743	0	681	4	927	3	780	2	733	3
November	1,013	2	1,073	0	1,104	3	1,168	2	1,088	1
December	631	1	973	3	1,172	0	943	1	924	4
Total	7,912	19	8,252	29	8,951	28	8,924	16	8,730	27

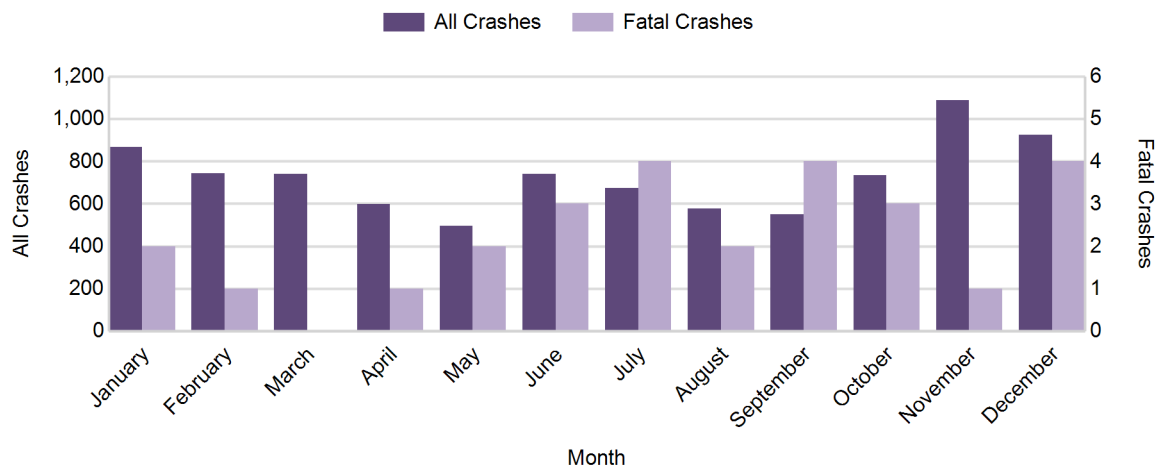
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

5-Year Trend - Crashes by Day of Week

Day	2015		2016		2017		2018		2019	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Monday	1,144	4	1,181	2	1,267	4	1,334	4	1,227	4
Tuesday	1,060	3	1,135	4	1,315	1	1,335	0	1,235	2
Wednesday	1,177	4	1,282	3	1,257	1	1,247	4	1,341	1
Thursday	1,181	2	1,227	5	1,320	7	1,287	2	1,361	3
Friday	1,313 †	3	1,342 †	4	1,480 †	2	1,571 †	2	1,443 †	6
Saturday	1,085	2	1,087	7	1,240	9	1,127	3	1,116	6
Sunday	952	1	998	4	1,072	4	1,023	1	1,007	5
Total	7,912	19	8,252	29	8,951	28	8,924	16	8,730	27

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

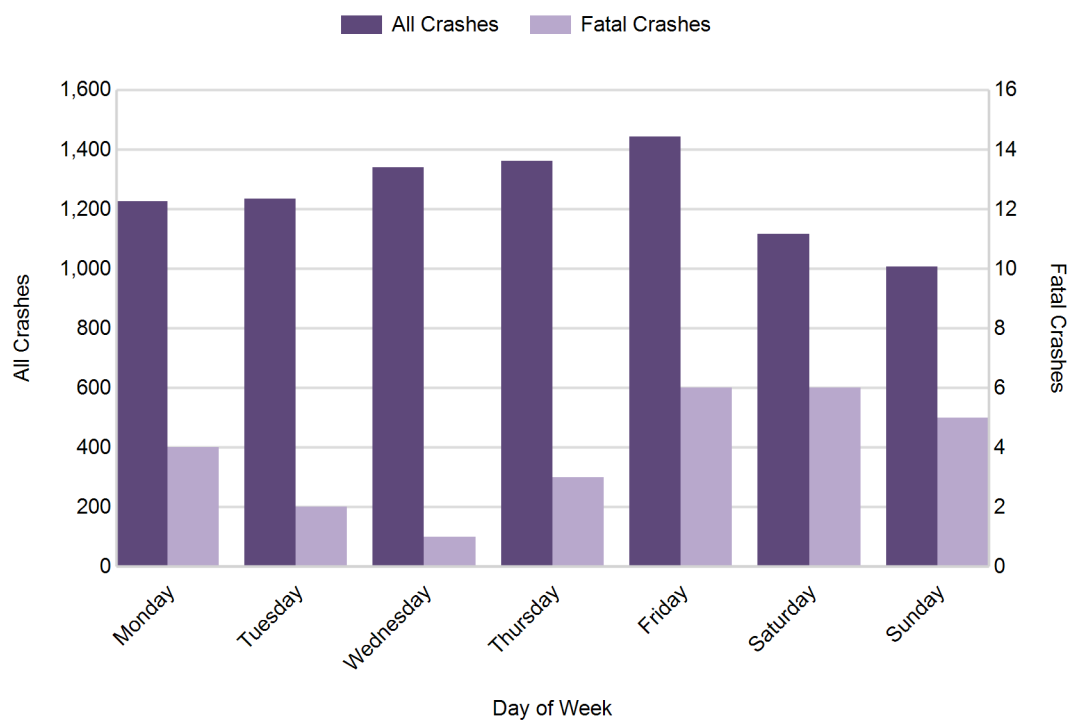
2019 Crashes by Month



2019 - Crashes by Day of Week

Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Monday	1,227	14.1	4	14.8	18	36	72	1,097
Tuesday	1,235	14.1	2	7.4	14	43	79	1,097
Wednesday	1,341	15.4	1	3.7	19	48	103	1,170
Thursday	1,361	15.6	3	11.1	14	52	87	1,205
Friday	1,443	16.5	6	22.2	27	45	91	1,274
Saturday	1,116	12.8	6	22.2	32	66	61	951
Sunday	1,007	11.5	5	18.5	17	42	60	883
Total	8,730	100.0	27	100.0	141	332	553	7,677

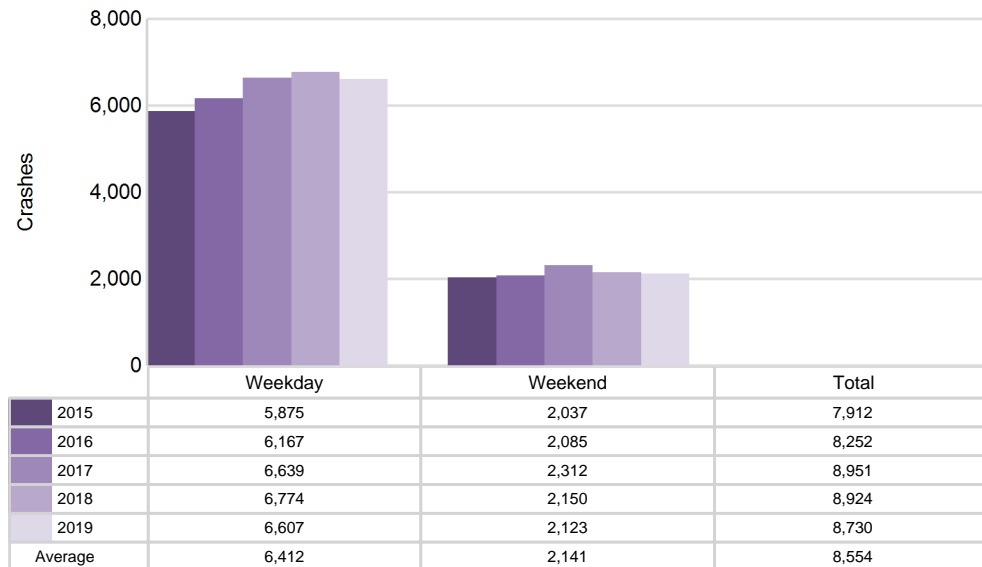
2019 Day of Week and Severity



5-Year Trend - Crashes by Weekday and Weekend

Portion of Week	2015		2016		2017		2018		2019	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Weekday	5,875	16	6,167	18	6,639	15	6,774	12	6,607	16
Weekend	2,037	3	2,085	11	2,312	13	2,150	4	2,123	11
Total	7,912	19	8,252	29	8,951	28	8,924	16	8,730	27

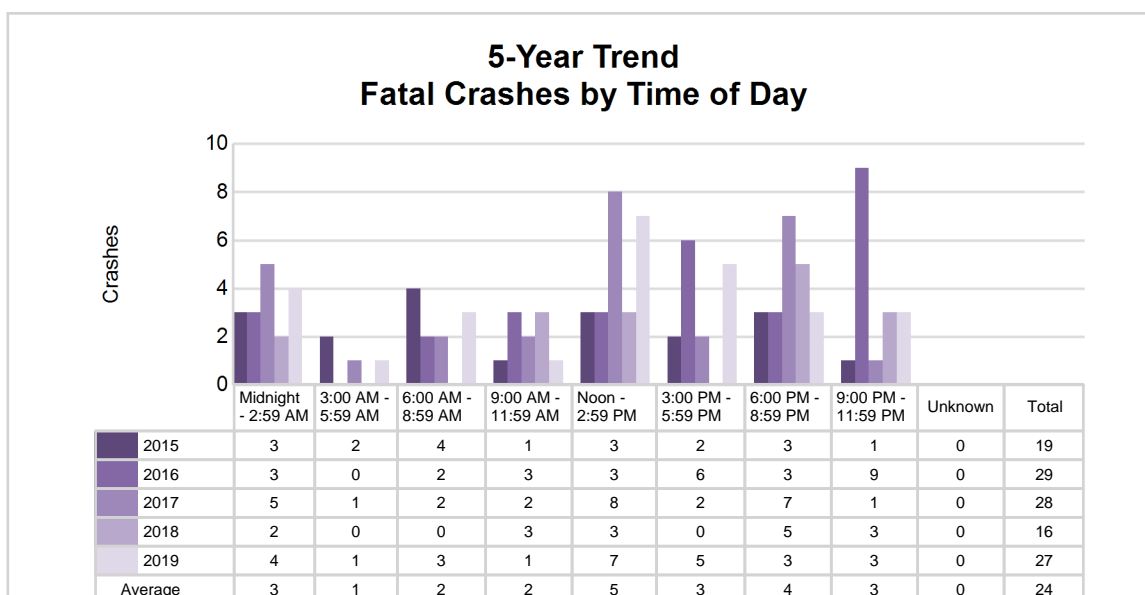
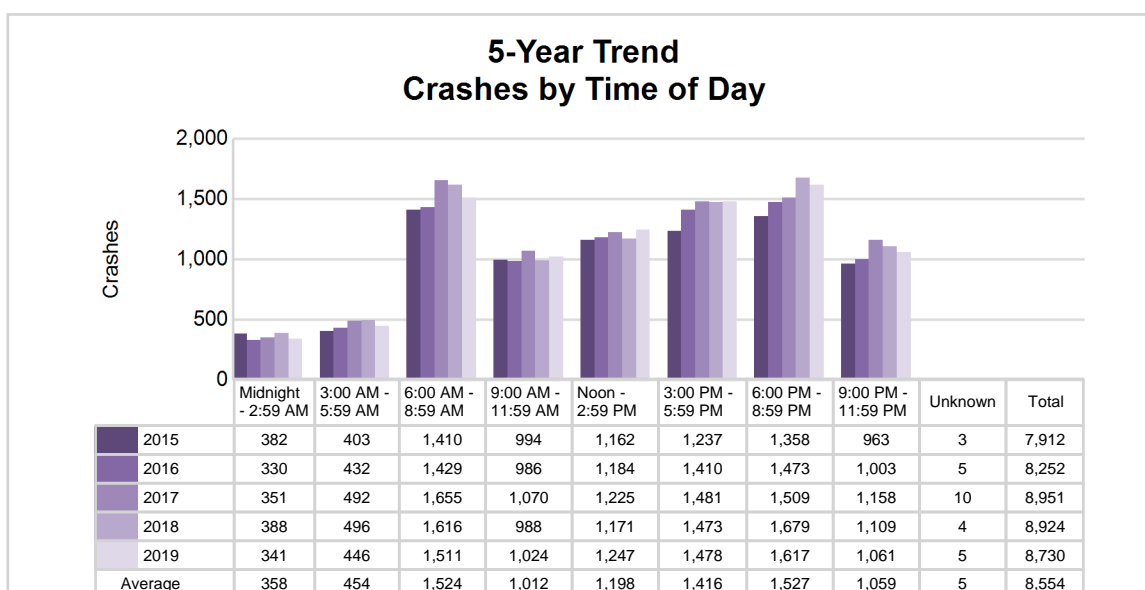
5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



5-Year Trend - Crashes by Time of Day

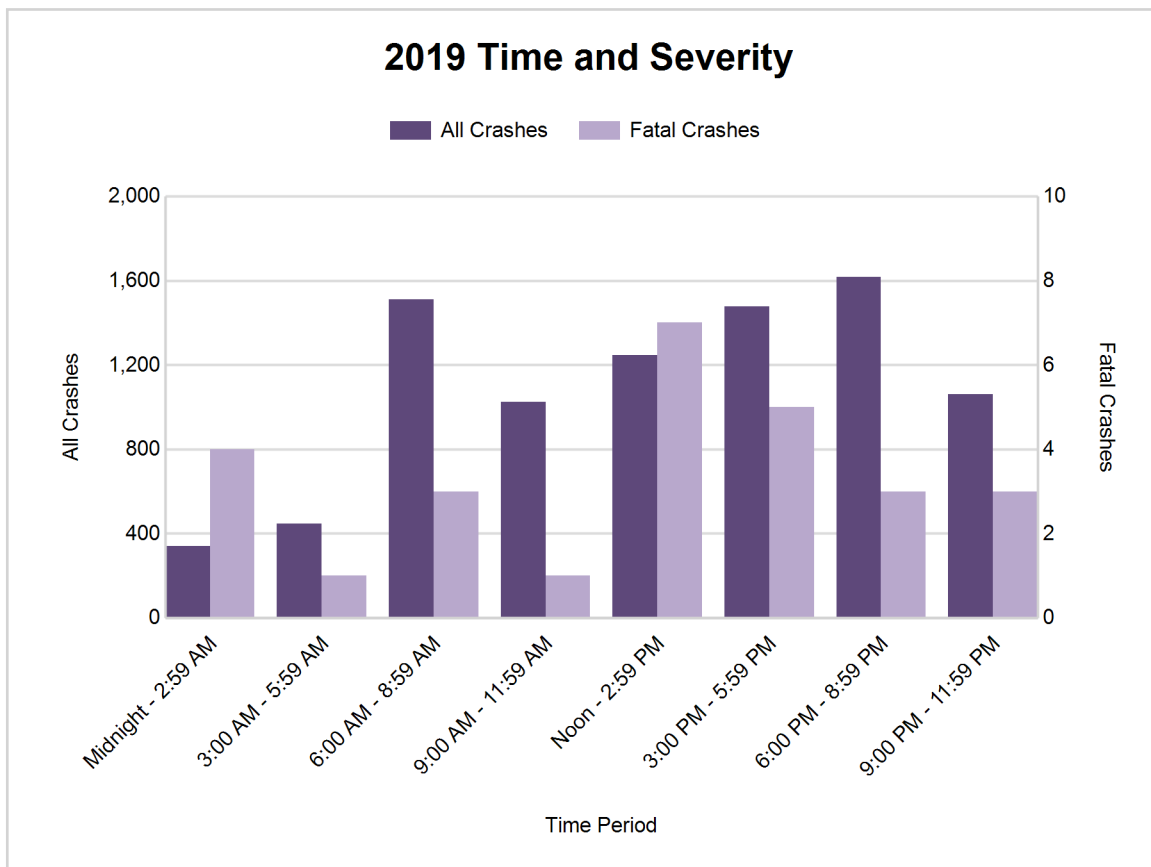
Time of Day	2015		2016		2017		2018		2019	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	382	3	330	3	351	5	388	2	341	4
3:00 AM - 5:59 AM	403	2	432	0	492	1	496	0	446	1
6:00 AM - 8:59 AM	1,410	4	1,429	2	1,655	2	1,616	0	1,511	3
9:00 AM - 11:59 AM	994	1	986	3	1,070	2	988	3	1,024	1
Noon - 2:59 PM	1,162	3	1,184	3	1,225	8	1,171	3	1,247	7
3:00 PM - 5:59 PM	1,237	2	1,410	6	1,481	2	1,473	0	1,478	5
6:00 PM - 8:59 PM	1,358	3	1,473	3	1,509	7	1,679	5	1,617	3
9:00 PM - 11:59 PM	963	1	1,003	9	1,158	1	1,109	3	1,061	3
Unknown	3	0	5	0	10	0	4	0	5	0
Total	7,912	19	8,252	29	8,951	28	8,924	16	8,730	27

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



2019 - Time and Severity

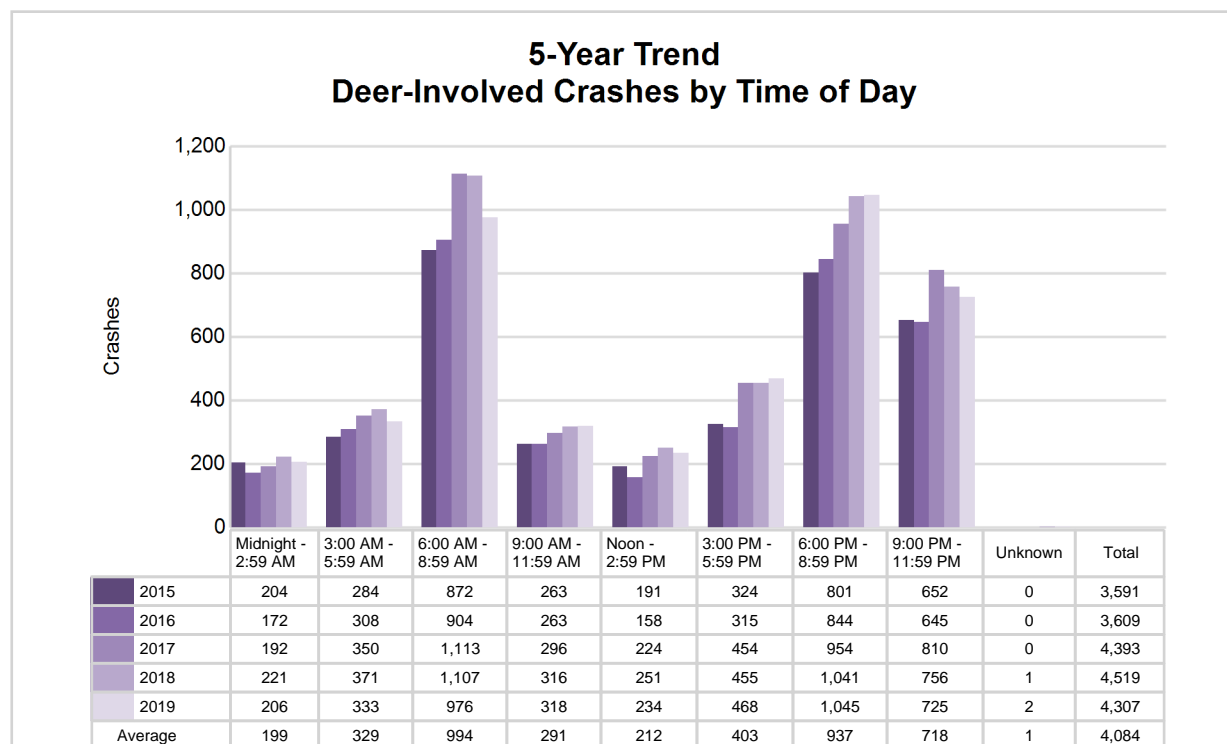
Time of Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Midnight - 2:59 AM	341	3.9	4	14.8	8	22	17	290
3:00 AM - 5:59 AM	446	5.1	1	3.7	5	8	17	415
6:00 AM - 8:59 AM	1,511	17.3	3	11.1	8	30	63	1,407
9:00 AM - 11:59 AM	1,024	11.7	1	3.7	12	40	89	882
Noon - 2:59 PM	1,247	14.3	7	25.9	26	69	124	1,021
3:00 PM - 5:59 PM	1,478	16.9	5	18.5	41	74	124	1,234
6:00 PM - 8:59 PM	1,617	18.5	3	11.1	28	44	83	1,459
9:00 PM - 11:59 PM	1,061	12.2	3	11.1	13	45	36	964
Unknown	5	0.1	0	0.0	0	0	0	5
Total	8,730	100.0	27	100.0	141	332	553	7,677

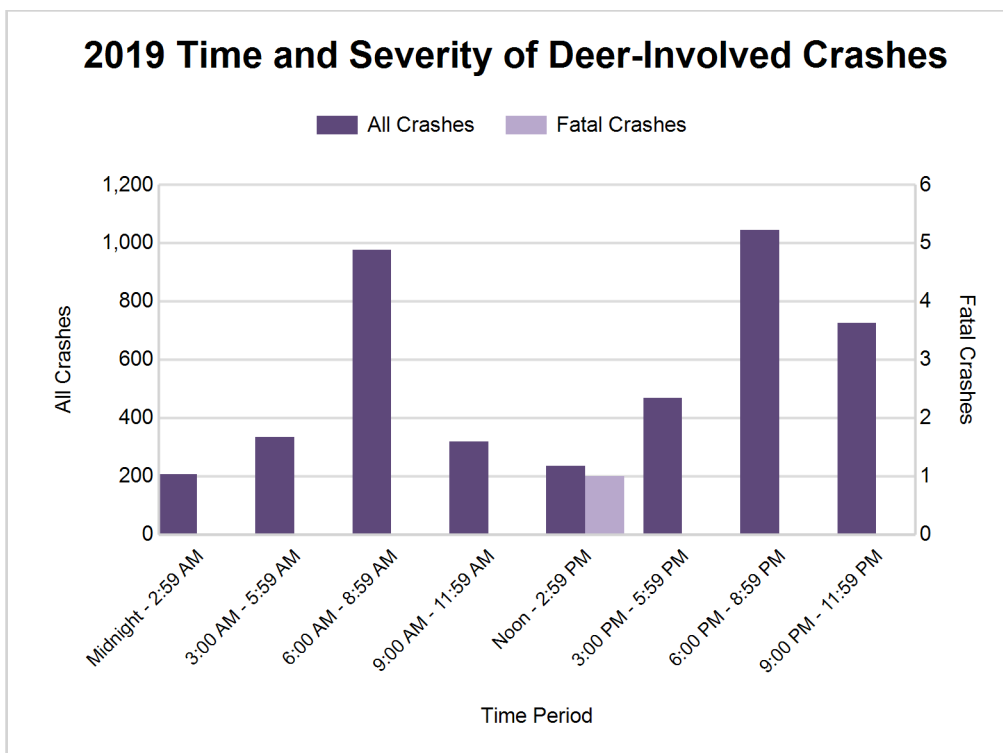


5-Year Trend - Deer-Involved Crashes by Time of Day

Time of Day	2015		2016		2017		2018		2019	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	204	0	172	1	192	0	221	0	206	0
3:00 AM - 5:59 AM	284	0	308	0	350	0	371	0	333	0
6:00 AM - 8:59 AM	872	0	904	0	1,113	0	1,107	0	976	0
9:00 AM - 11:59 AM	263	0	263	0	296	0	316	0	318	0
Noon - 2:59 PM	191	0	158	0	224	0	251	0	234	1
3:00 PM - 5:59 PM	324	0	315	0	454	0	455	0	468	0
6:00 PM - 8:59 PM	801	0	844	0	954	1	1,041	1	1,045	0
9:00 PM - 11:59 PM	652	0	645	1	810	0	756	0	725	0
Unknown	0	0	0	0	0	0	1	0	2	0
Total	3,591	0	3,609	2	4,393	1	4,519	1	4,307	1

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





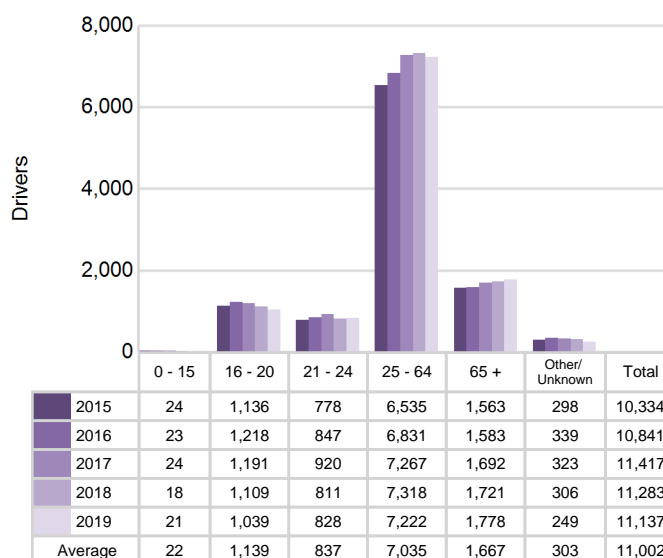
2019 - Reported Motor Vehicle Crashes by County

County	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Alcona	617	3	40	574	0	101	159	357	10	2	480	3	63
Alpena	840	1	102	737	0	174	231	432	31	11	367	1	135
Charlevoix	1,066	4	96	966	0	276	204	581	29	6	573	4	134
Cheboygan	1,009	4	129	876	215	70	272	446	29	8	510	4	166
Crawford	672	1	98	573	209	28	199	229	23	6	317	1	133
Emmet	1,365	3	158	1,204	8	495	131	728	53	17	509	3	205
Montmorency	380	0	35	345	0	0	196	184	12	4	214	0	40
Oscoda	297	1	39	257	0	0	157	136	12	1	162	1	48
Otsego	993	3	159	831	259	0	282	447	38	12	296	4	204
Presque Isle	664	2	45	617	0	134	240	289	8	2	513	3	55
Roscommon	827	5	125	697	122	107	228	364	46	13	366	5	182
Total	8,730	27	1,026	7,677	813	1,385	2,299	4,193	291	82	4,307	29	1,365

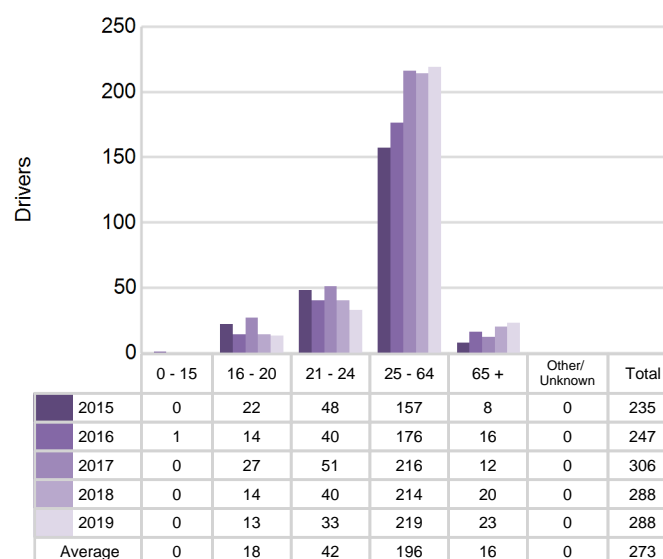
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

Driver Age	2015		2016		2017		2018		2019	
	Total Drivers in Crashes	Total Drivers Coded Drinking	Total Drivers in Crashes	Total Drivers Coded Drinking	Total Drivers in Crashes	Total Drivers Coded Drinking	Total Drivers in Crashes	Total Drivers Coded Drinking	Total Drivers in Crashes	Total Drivers Coded Drinking
0 - 15	24	0	23	1	24	0	18	0	21	0
16 - 20	1,136	22	1,218	14	1,191	27	1,109	14	1,039	13
21 - 24	778	48	847	40	920	51	811	40	828	33
25 - 64	6,535	157	6,831	176	7,267	216	7,318	214	7,222	219
65 +	1,563	8	1,583	16	1,692	12	1,721	20	1,778	23
Unknown	298	0	339	0	323	0	306	0	249	0
Total	10,334	235	10,841	247	11,417	306	11,283	288	11,137	288

5-Year Trend Total Drivers in Crashes by Age

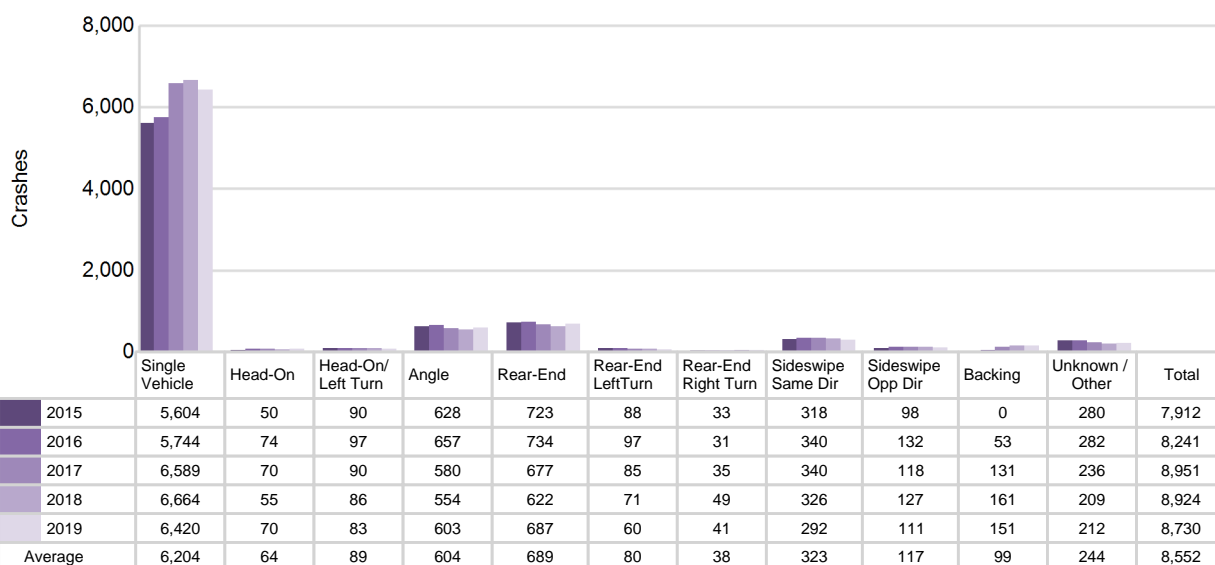


5-Year Trend Total Drivers Coded Drinking by Age



5-Year Trend - Crashes by Crash Type

Crash Type	2015		2016		2017		2018		2019	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Single motor vehicle	5,604	13	5,744	18	6,589	19	6,664	10	6,420	13
Head-on	50	3	74	5	70	4	55	1	70	5
Head-on / left turn	90	0	97	1	90	2	86	0	83	0
Angle	628	0	657	4	580	3	554	1	603	4
Rear-end	723	1	734	0	677	0	622	1	687	3
Rear-end left turn	88	0	97	0	85	0	71	0	60	0
Rear-end right turn	33	0	31	0	35	0	49	0	41	0
Sideswipe same direction	318	0	340	0	340	0	326	0	292	1
Sideswipe opposite direction	98	2	132	1	118	0	127	0	111	0
Backing	0	0	53	0	131	0	161	0	151	0
Other / Unknown	280	0	282	0	236	0	209	3	212	1
Uncoded and Errors	0	0	11	0	0	0	0	0	0	0
Total	7,912	19	8,252	29	8,951	28	8,924	16	8,730	27

5-Year Trend
Crashes by Crash Type

2019 - Bodily Alcohol Concentration (BAC) Results Among All Vehicle Drivers in Alcohol-Involved Crashes by Age

Age Group	Drivers				BAC Result Range for Drivers Coded Drinking				
	Total Drivers in Alcohol-Involved Crashes	Total Drivers Tested in all Crashes	Total Drivers Coded Drinking, Tested	Total Drivers Coded Drinking	BAC = 0.00	BAC 0.01 g/dL to 0.07 g/dL	BAC 0.08 g/dL to 0.16 g/dL	BAC 0.17 g/dL and Above	BAC Not Reported
0 - 15	0	0	0	0	0	0	0	0	0
16 - 20	18	20	9	13	0	5	3	0	5
21 - 24	36	33	28	33	0	3	14	10	6
25 - 64	274	230	172	219	1	25	51	64	78
65 +	35	32	21	23	0	7	3	4	9
Unknown	16	0	0	0	0	0	0	0	0
Total	379	315	230	288	1	40	71	78	98

Notes: BAC measured in grams (g) per deciliter (dL).

BAC may not be reported if drivers are not tested or if the results are not available immediately (as in the case of a blood test).

A driver may be coded by the officer as drinking even though no test is administered.

Alcohol-Involved Crashes

In 2019, there were 379 drivers in alcohol-involved crashes; 288 (76.0%) of those drivers were coded as had-been-drinking by the officer on the crash form.

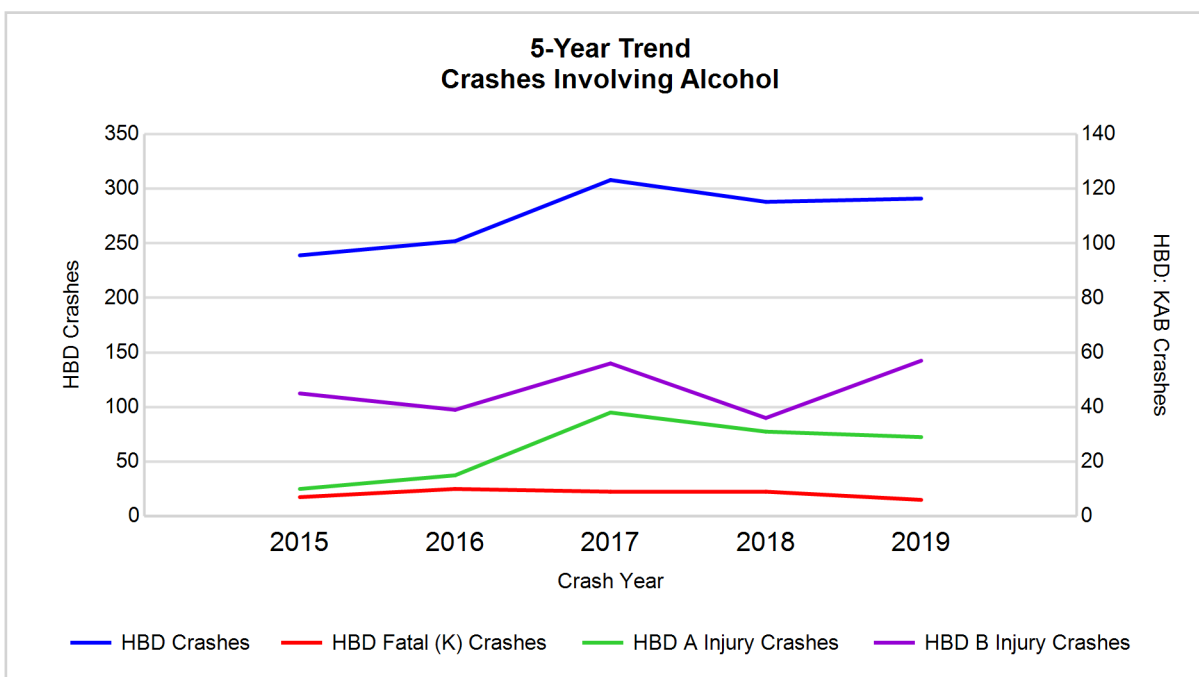
- 149 (51.7%) of the 288 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 78 (52.3%) of the 149 drivers had a BAC at or above 0.17 g/dL.
- 230 (79.9%) of the 288 drivers were coded as had-been-drinking and were tested for alcohol consumption.

5-Year Trend - Crashes Involving Alcohol

Year	All Crashes	HBD Crashes	% HBD	Fatal Crashes	HBD Fatal Crashes	% HBD	A Injury Crashes	HBD A Injury Crashes	% HBD	B Injury Crashes	HBD B Injury Crashes	% HBD
2015	7,912	239	3.0	19	7	36.8	118	10	8.5	337	45	13.4
2016	8,252	252	3.1	29	10	34.5	141	15	10.6	362	39	10.8
2017	8,951	308	3.4	28	9	32.1	156	38	24.4	406	56	13.8
2018	8,924	288	3.2	16	9	56.3	156	31	19.9	363	36	9.9
2019	8,730	291	3.3	27	6*	22.2*	141	29	20.6	332*	57**	17.2**

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



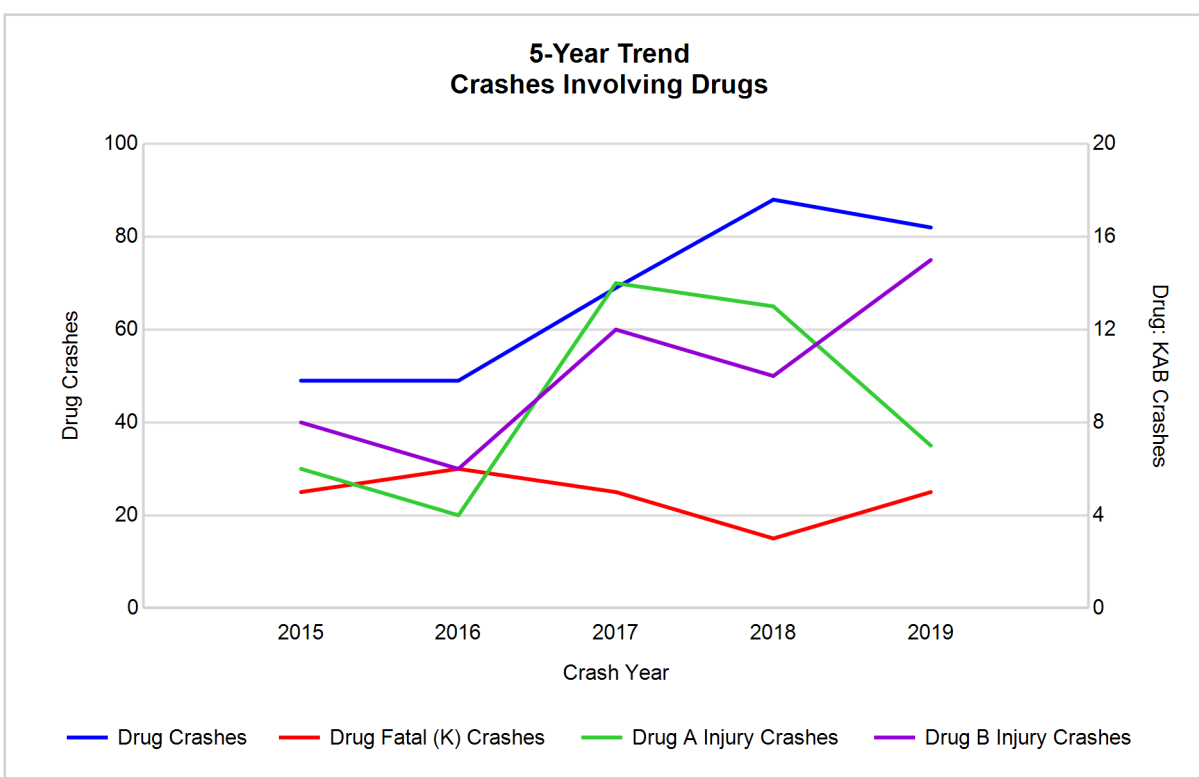
Note: Had-Been-Drinking (HBD)

5-Year Trend - Crashes Involving Drugs

Year	All Crashes	Drug Crashes	% Drug	Fatal Crashes	Drug Fatal Crashes	% Drug	A Injury Crashes	Drug A Injury Crashes	% Drug	B Injury Crashes	Drug B Injury Crashes	% Drug
2015	7,912	49	0.6	19	5	26.3	118	6	5.1	337	8	2.4
2016	8,252	49	0.6	29	6	20.7	141	4	2.8	362	6	1.7
2017	8,951	69	0.8	28	5	17.9	156	14	9.0	406	12	3.0
2018	8,924	88	1.0	16	3	18.8	156	13	8.3	363	10	2.8
2019	8,730	82	0.9	27	5	18.5	141	7	5.0	332*	15**	4.5**

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

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

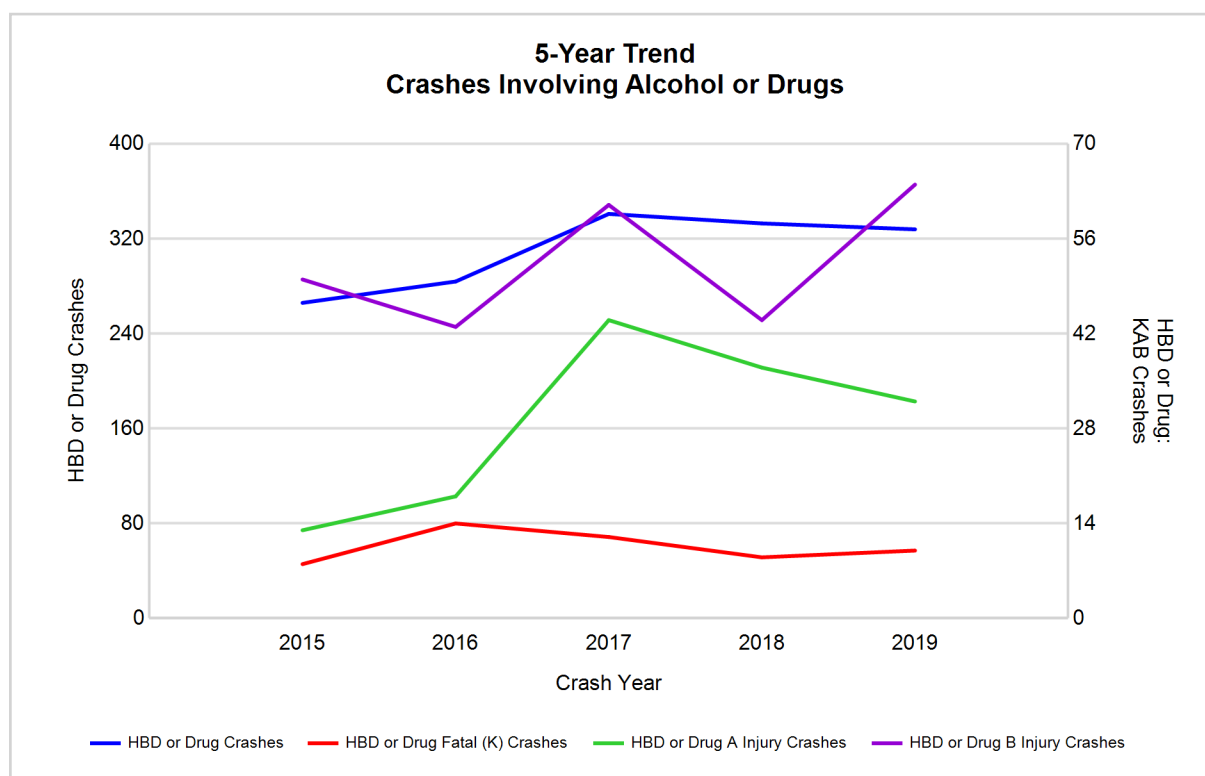


5-Year Trend - Crashes Involving Alcohol or Drugs

Year	All Crashes	HBD or Drug Crashes	% HBD or Drug	Fatal Crashes	HBD or Drug Fatal Crashes	% HBD or Drug	A Injury Crashes	HBD or Drug A Injury Crashes	% HBD or Drug	B Injury Crashes	HBD or Drug B Injury Crashes	% HBD or Drug
2015	7,912	266	3.4	19	8	42.1	118	13	11.0	337	50	14.8
2016	8,252	284	3.4	29	14	48.3	141	18	12.8	362	43	11.9
2017	8,951	341	3.8	28	12	42.9	156	44	28.2	406	61	15.0
2018	8,924	333	3.7	16	9	56.3	156	37	23.7	363	44	12.1
2019	8,730	328	3.8	27	10	37.0*	141	32	22.7	332*	64**	19.3**

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)

2019 - Restraints Worn Among Vehicle Drivers and Injured Passengers by Vehicle Type

Vehicle Type	Total Occupants			Fatalities			A - Suspected Serious			B - Suspected Minor			C - Possible Injury			No Injury		
	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%
Passenger car, SUV, van	8,116	7,720	95.1	16	8	50.0	93	76	81.7	279	256	91.8	593	564	95.1	7,013	6,816	97.2
Motor home	62	56	90.3	0	0	0.0	1	0	0.0	3	1	33.3	8	7	87.5	49	48	98.0
Pickup truck	2,653	2,523	95.1	6	3	50.0	14	12	85.7	79	68	86.1	129	122	94.6	2,385	2,318	97.2
Small truck under 10,000 lbs. GVWR	113	103	91.2	0	0	0.0	1	0	0.0	6	5	83.3	6	6	100.0	98	92	93.9
Motorcycle	69	51	73.9	4	3	75.0	18	13	72.2	20	14	70.0	15	11	73.3	11	10	90.9
Moped / goped	11	3	27.3	0	0	0.0	2	1	50.0	6	1	16.7	3	1	33.3	0	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	29	28	96.6	0	0	0.0	10	10	100.0	7	7	100.0	1	0	0.0	11	11	100.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	42	18	42.9	1	0	0.0	12	9	75.0	13	6	46.2	5	1	20.0	10	2	20.0
Other	41	34	82.9	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	38	34	89.5
Truck/bus over 10,000 lbs.	276	262	94.9	0	0	0.0	2	2	100.0	4	4	100.0	5	5	100.0	261	251	96.2
Unknown	68	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	5	0	0.0
Total	11,480	10,798	94.1	27	14	51.9	153	123	80.4	417	362	86.8	765	717	93.7	9,881	9,582	97.0

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.

2019 - Restraints Worn Among Vehicle Drivers and Injured Passengers by Age

Age Group	Total Occupants			Fatalities			A - Suspected Serious			B - Suspected Minor			C - Possible Injury			No Injury		
	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%
0 - 15	98	88	89.8	1	0	0.0	3	3	100.0	26	21	80.8	52	50	96.2	16	14	87.5
16 - 20	1,089	1,044	95.9	3	2	66.7	11	8	72.7	54	48	88.9	106	96	90.6	914	890	97.4
21 - 24	846	814	96.2	3	1	33.3	9	7	77.8	34	27	79.4	61	58	95.1	739	721	97.6
25 - 64	7,371	7,079	96.0	13	6	46.2	95	75	78.9	236	203	86.0	427	399	93.4	6,586	6,396	97.1
65 +	1,827	1,773	97.0	7	5	71.4	35	30	85.7	67	63	94.0	119	114	95.8	1,598	1,561	97.7
Unknown	249	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	28	0	0.0
Total	11,480	10,798	94.1	27	14	51.9	153	123	80.4	417	362	86.8	765	717	93.7	9,881	9,582	97.0

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	2015			2016			2017			2018			2019		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	40	0	3	36	0	8	40	1	16	14	0	2	14	0	1
Shoulder belt only used	9	0	2	40	0	7	52	0	7	49	0	6	43	0	7
Lap belt only used	19	0	2	13	0	6	11	0	0	15	1	5	7	0	0
Both lap & shoulder belts used	9,577	4	797	10,005	9	863	10,591	11	848	10,475	6	818	10,348	8	826
No belts used	68	4	30	82	4	34	74	4	30	57	4	34	49	7	18
Child restraint used	0	0	0	6	0	0	4	0	0	1	0	0	0	0	0
Child restraint not used, unavailable or improper use	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Restraint failure	1	0	0	3	0	0	2	0	0	2	0	0	3	0	1
Restraint use unknown	222	4	21	256	1	14	387	0	26	441	0	32	479	2	40
Helmet worn	106	1	75	123	3	95	116	4	84	84	2	68	97	3	71
Helmet not worn	33	1	23	38	3	25	43	3	26	34	1	28	33	2	28
Helmet use unknown	6	0	4	19	3	9	5	2	1	8	0	4	11	0	5
Uncoded & errors	252	0	1	220	0	1	92	0	0	103	0	0	53	0	0
Total	10,334	14	959	10,841	23	1,062	11,417	25	1,038	11,283	14	997	11,137	22	997

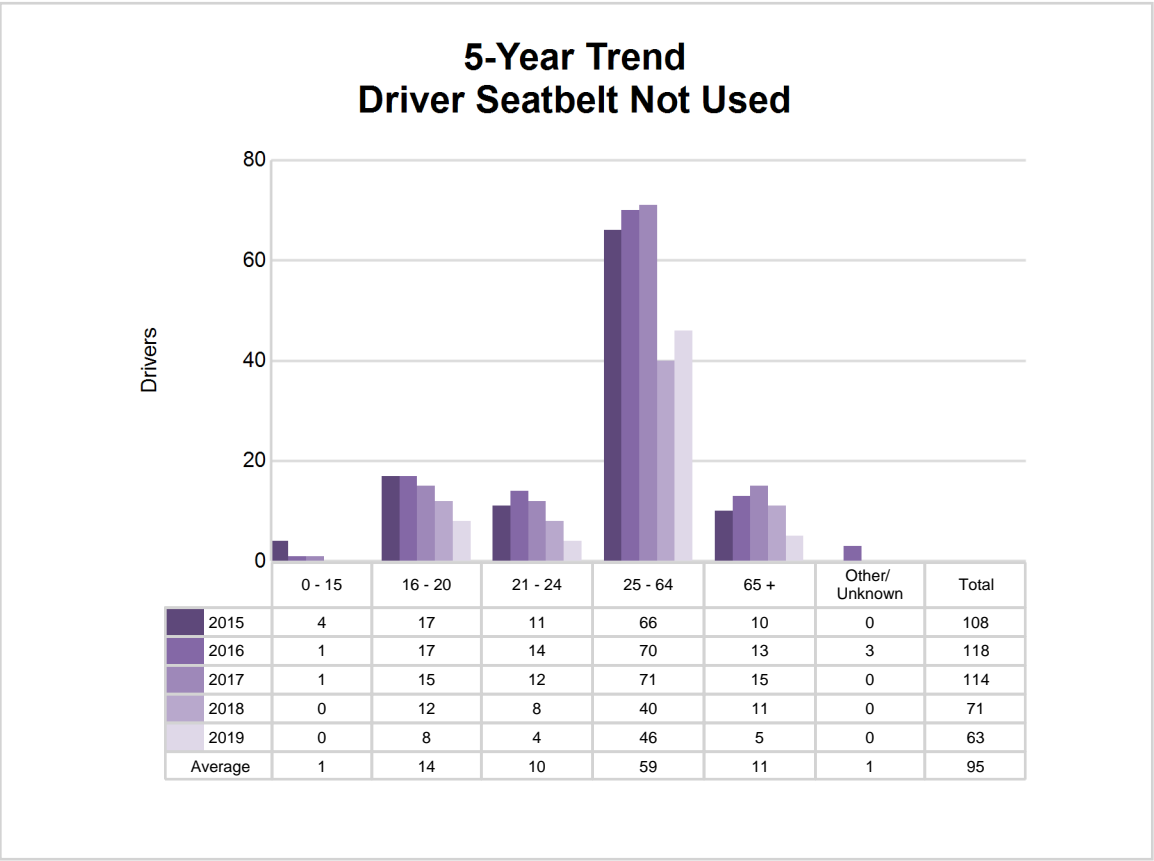
5-Year Trend - Restraint Use Among Drivers Coded Drinking

Restraint Use	2015			2016			2017			2018			2019		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	1	0	0	0	0	0	3	0	2	1	0	1	0	0	0
Shoulder belt only used	1	0	0	1	0	1	4	0	2	1	0	0	2	0	1
Lap belt only used	1	0	1	1	0	1	0	0	0	1	1	0	0	0	0
Both lap & shoulder belts used	167	1	56	181	1	41	221	1	56	204	3	52	183	0	65
No belts used	21	3	9	14	2	8	20	4	15	14	2	9	12	2	6
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	38	1	10	32	0	9	38	0	13	49	0	14	72	0	24
Helmet worn	2	1	1	10	1	8	7	1	6	5	1	4	7	0	7
Helmet not worn	4	0	4	7	2	4	10	1	7	11	1	9	9	1	7
Helmet use unknown	0	0	0	1	1	0	3	2	0	1	0	1	3	0	2
Uncoded & errors	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Total	235	6	81	247	7	72	306	9	101	288	8	90	288	3	112

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

Age Group	2015			2016			2017			2018			2019		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
0 - 15	4	0	1	1	0	0	1	0	0	0	0	0	0	0	0
16 - 20	17	0	6	17	1	8	15	1	7	12	0	9	8	1	2
21 - 24	11	0	3	14	0	7	12	0	8	8	2	4	4	1	1
25 - 64	66	3	20	70	2	24	71	4	23	40	1	19	46	5	12
65 +	10	1	3	13	1	2	15	0	8	11	1	4	5	0	4
Unknown	0	0	0	3	0	1	0	0	0	0	0	0	0	0	0
Total	108	4	33	118	4	42	114	5	46	71	4	36	63	7	19

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

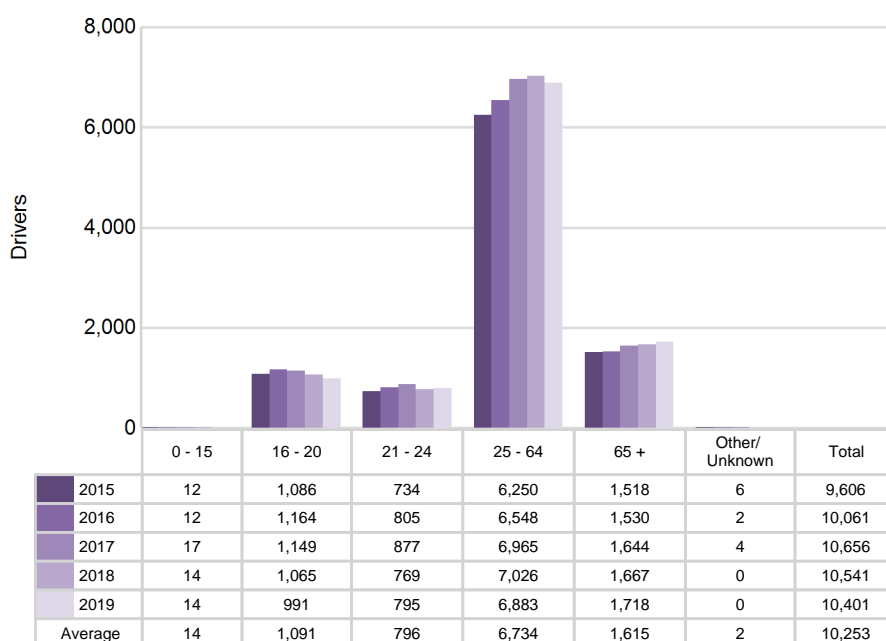


5-Year Trend - Seatbelt Used Among Drivers by Age

Age Group	2015			2016			2017			2018			2019		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
0 - 15	12	0	2	12	0	1	17	0	1	14	0	1	14	0	2
16 - 20	1,086	0	133	1,164	2	144	1,149	2	142	1,065	0	130	991	1	102
21 - 24	734	0	73	805	1	72	877	0	92	769	2	56	795	1	74
25 - 64	6,250	4	464	6,548	3	516	6,965	5	467	7,026	1	483	6,883	4	500
65 +	1,518	0	128	1,530	3	143	1,644	4	153	1,667	4	159	1,718	2	156
Unknown	6	0	1	2	0	0	4	0	0	0	0	0	0	0	0
Total	9,606	4	801	10,061	9	876	10,656	11	855	10,541	7	829	10,401	8	834

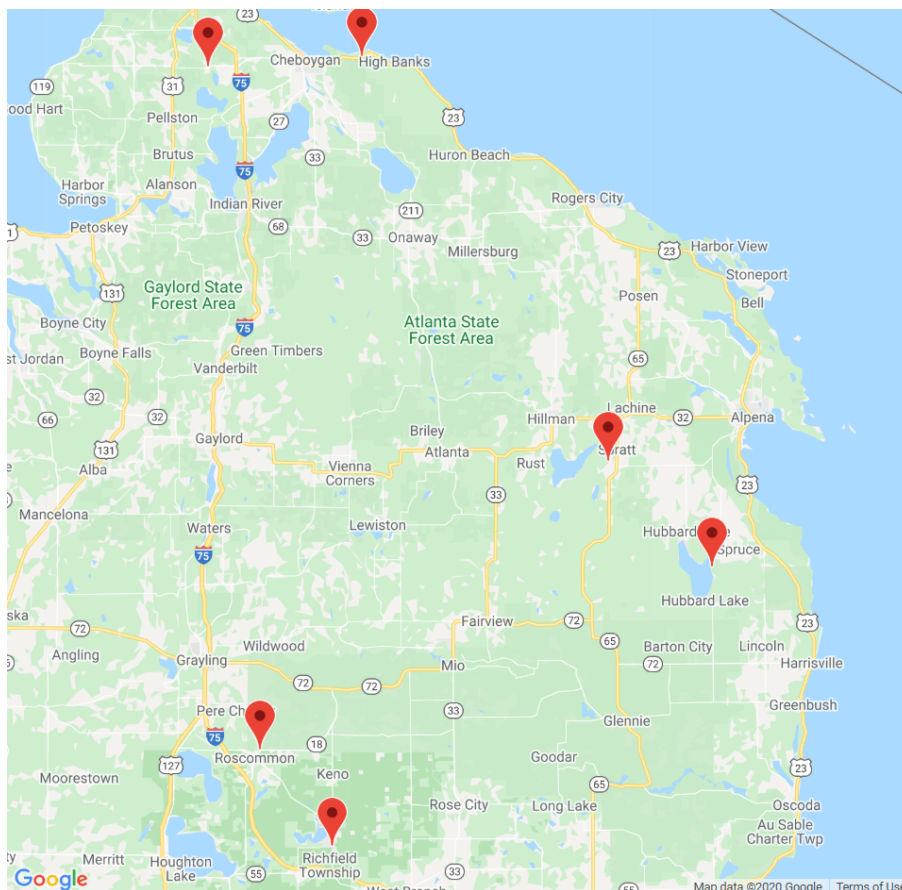
Note: Seatbelt Used includes shoulder belt only used, lap belt only used, both lap and shoulder belts used, and restraint failure.

5-Year Trend Driver Seatbelt Used



5-Year Trend - Drivers in Crashes by Hazardous Action

Hazardous Action	2015		2016		2017		2018		2019	
	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes
None	6,364	7	6,602	13	7,228	14	7,313	6	7,144	19
Speed too fast	1,133	10	1,387	11	1,439	9	1,218	4	1,333	10
Speed too slow	9	0	7	0	9	0	6	0	11	0
Failed to yield	683	0	681	3	655	3	662	2	689	1
Disregard traffic control	106	0	101	1	95	0	95	0	87	2
Drove wrong way	5	0	8	0	4	1	4	0	2	1
Drove left of center	45	2	58	2	56	2	63	0	61	0
Improper passing	43	0	42	0	40	0	44	0	37	2
Improper lane use	106	0	110	0	110	0	96	1	90	0
Improper turn	64	0	77	1	59	0	69	0	64	0
Improper/no signal	15	0	14	0	7	0	8	0	10	0
Improper backing	169	0	165	0	157	0	169	0	138	0
Unable to stop in assured clear distance	743	0	684	0	642	1	595	1	624	2
Other	292	4	348	4	307	1	296	0	285	0
Unknown	134	0	153	3	156	5	176	5	207	4
Reckless driving	62	1	51	0	37	0	48	0	42	0
Careless/negligent driving	297	1	292	2	311	1	332	3	268	2
Uncoded & errors	64	0	61	0	105	0	89	1	45	0
Total	10,334	25	10,841	40	11,417	37	11,283	23	11,137	43



The picture above represents all 2019 alcohol-involved fatal crashes in TSN Northern Lower.

In 2019, there were 291 alcohol-involved crashes in TSN Northern Lower:

6	K - Fatal Crashes
29	A - Suspected Serious Injury Crashes
57	B - Suspected Minor Injury Crashes
43	C - Possible Injury Crashes
156	O - Property Damage Only/No Injury Crashes

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