



2017

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

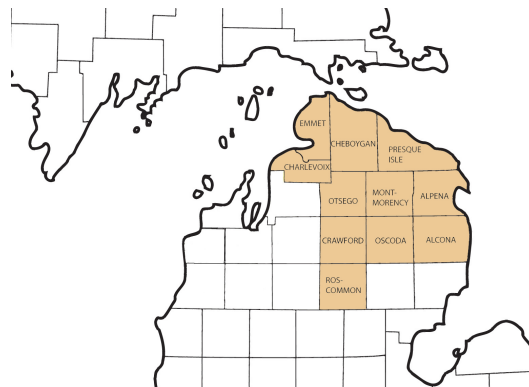
Property Damage Only (PDO)



Traffic Safety Network Northern Lower

2017 Traffic Crash Data & 2013-2017 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 2017:

There were 11,417 drivers involved in 8,951 motor vehicle crashes in Traffic Safety Network Northern Lower. Of those crashes, 28 were classified as fatal, resulting in 31 fatalities. An additional 1,487 persons were injured.

Traffic Safety Network Northern Lower experienced the highest number of motor vehicle crashes (1,172) in December, the highest number of fatal crashes (4) in July, and the highest number of persons killed (4) in July, September, and October.

Michigan driver statistics indicate 6.5 percent of licensed drivers in Traffic Safety Network Northern Lower were age 16-20, and 10.4 percent of drivers in crashes were also in that age group.

2017 - Crashes and Injuries by Month

Month	Crashes				Persons	
	Total	Fatal	Injury	Property Damage Only (PDO)	Fatalities	Injuries
January	729	2	86	641	3	137
February	730	2	84	644	2	111
March	589	1	52	536	1	72
April	439	3	61	375	3	88
May	567	3	78	486	3	109
June	673	3	91	579	3	114
July	706	4	121	581	4	182
August	599	1	113	485	1	166
September	716	3	93	620	4	122
October	927	3	87	837	4	115
November	1,104	3	84	1,017	3	107
December	1,172	0	130	1,042	0	164
Total	8,951	28	1,080	7,843	31	1,487

2017 - Driver Statistics

Age Group	Northern Lower			Driver Rates	
	2017 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	33,856	1,140	24	7.1	210.5
16 - 20	11,083	9,471	1,191	1,074.6	1,257.5
21 - 24	8,448	8,274	920	1,089.0	1,111.9
25 - 64	107,213	104,071	7,267	677.8	698.3
65 +	55,582	53,480	1,692	304.4	316.4
Unknown	0	0	323	--	--
Total	216,182	176,436	11,417	528.1	647.1

2017 - 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	8,155	71.4	17	45.9	1,106	7,032
Motor home	112	1.0	0	0.0	8	104
Pickup truck	2,504	21.9	8	21.6	283	2,213
Small truck under 10,000 lbs. GVWR	153	1.3	0	0.0	20	133
Motorcycle	87	0.8	5	13.5	61	21
Moped / goped	13	0.1	0	0.0	11	2
Go-cart / golf cart	1	0.0	0	0.0	1	0
Snowmobile	28	0.2	0	0.0	23	5
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	62	0.5	4	10.8	42	16
Other	39	0.3	1	2.7	7	31
Truck/bus over 10,000 lbs.	178	1.6	2	5.4	28	148
Unknown	85	0.7	0	0.0	5	80
Total	11,417	100.0	37	100.0	1,595	9,785

Traffic Safety Network Northern Lower (continued)

5-Year Trend - Crashes by Month

Month	2013		2014		2015		2016		2017	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
January	820	0	894	3	847	1	710	2	729	2
February	639	5	620	1	557	0	640	0	730	2
March	520	2	746	0	522	0	487	0	589	1
April	546	1	515	2	460	0	499	2	439	3
May	494	3	529	4	545	3	564	3	567	3
June	672	4	630	3	759	2	718	2	673	3
July	622	2	630	1	678	4	689	7	706	4
August	556	6	539	0	619	2	628	3	599	1
September	605	4	498	5	538	4	590	3	716	3
October	788	2	748	2	743	0	681	4	927	3
November	1,089	2	1,178	2	1,013	2	1,073	0	1,104	3
December	1,066	1	850	0	631	1	973	3	1,172	0
Total	8,417	32	8,377	23	7,912	19	8,252	29	8,951	28

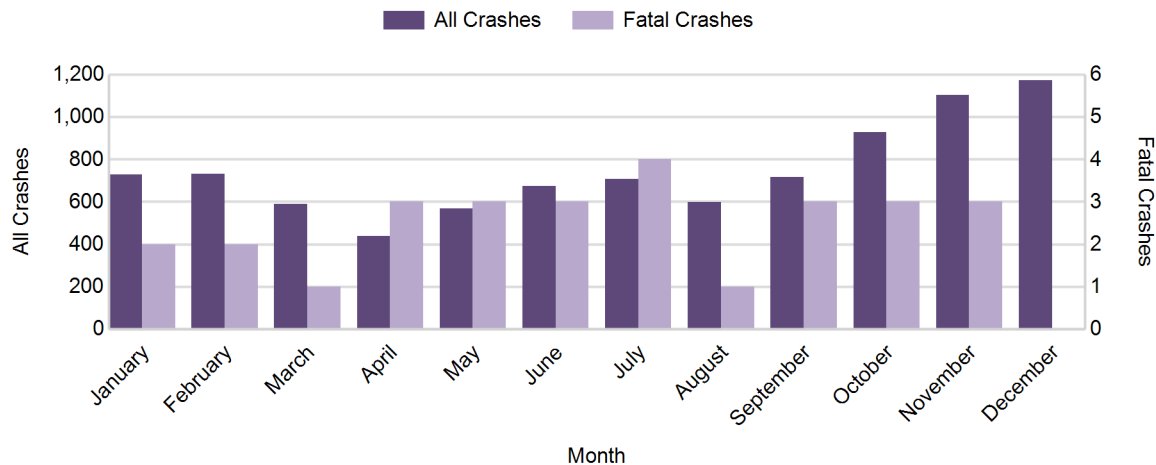
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

5-Year Trend - Crashes by Day of Week

Day	2013		2014		2015		2016		2017	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Monday	1,181	5	1,154	5	1,144	4	1,181	2	1,267	4
Tuesday	1,181	2	1,213	1	1,060	3	1,135	4	1,315	1
Wednesday	1,221	4	1,224	5	1,177	4	1,282	3	1,257	1
Thursday	1,341	3	1,260	2	1,181	2	1,227	5	1,320	7
Friday	1,373 †	4	1,401 †	1	1,313 †	3	1,342 †	4	1,480 †	2
Saturday	1,156	8	1,084	4	1,085	2	1,087	7	1,240	9
Sunday	964	6	1,041	5	952	1	998	4	1,072	4
Total	8,417	32	8,377	23	7,912	19	8,252	29	8,951	28

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

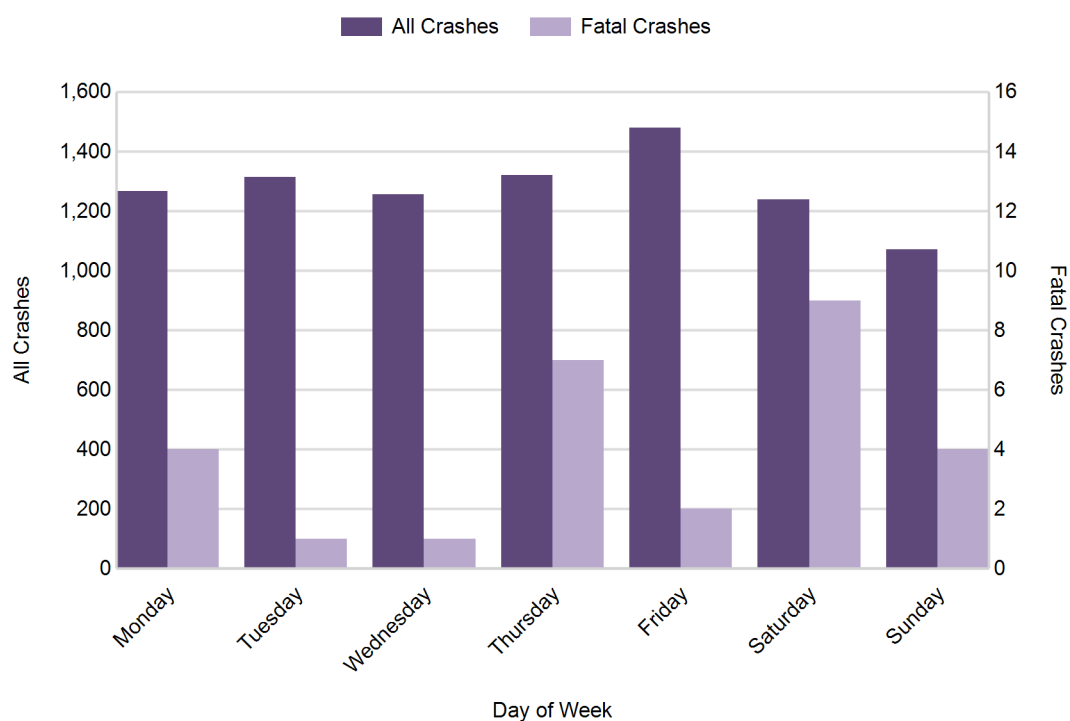
2017 Crashes by Month



2017 - 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	1,267	14.2	4	14.3	19	56	71	1,117
Tuesday	1,315	14.7	1	3.6	22	46	70	1,176
Wednesday	1,257	14.0	1	3.6	14	48	78	1,116
Thursday	1,320	14.7	7	25.0	16	55	76	1,166
Friday	1,480	16.5	2	7.1	19	81	96	1,282
Saturday	1,240	13.9	9	32.1	35	70	67	1,059
Sunday	1,072	12.0	4	14.3	31	50	60	927
Total	8,951	100.0	28	100.0	156	406	518	7,843

2017 Day of Week and Severity

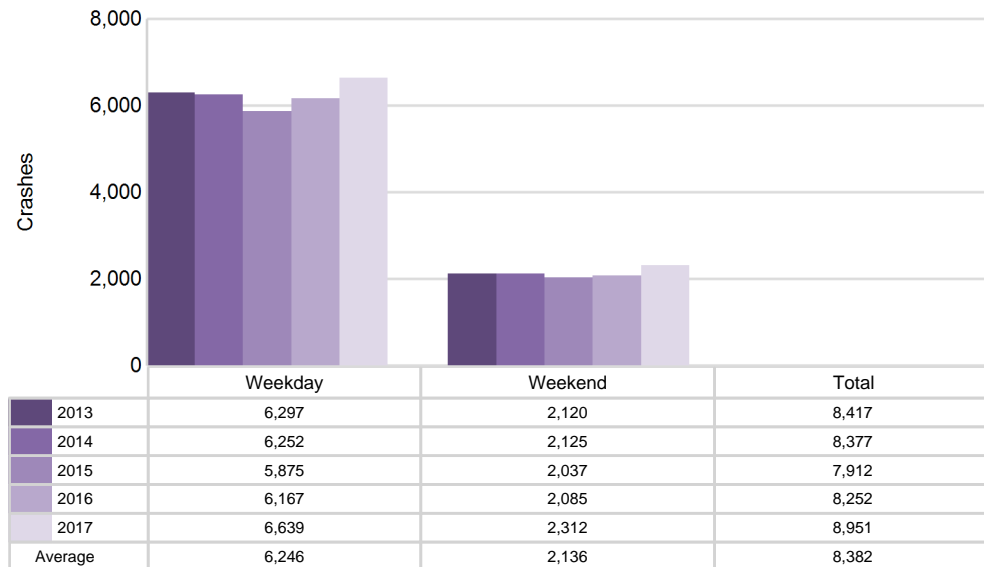


Traffic Safety Network Northern Lower (continued)

5-Year Trend - Crashes by Weekday and Weekend

Portion of Week	2013		2014		2015		2016		2017	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Weekday	6,297	18	6,252	14	5,875	16	6,167	18	6,639	15
Weekend	2,120	14	2,125	9	2,037	3	2,085	11	2,312	13
Total	8,417	32	8,377	23	7,912	19	8,252	29	8,951	28

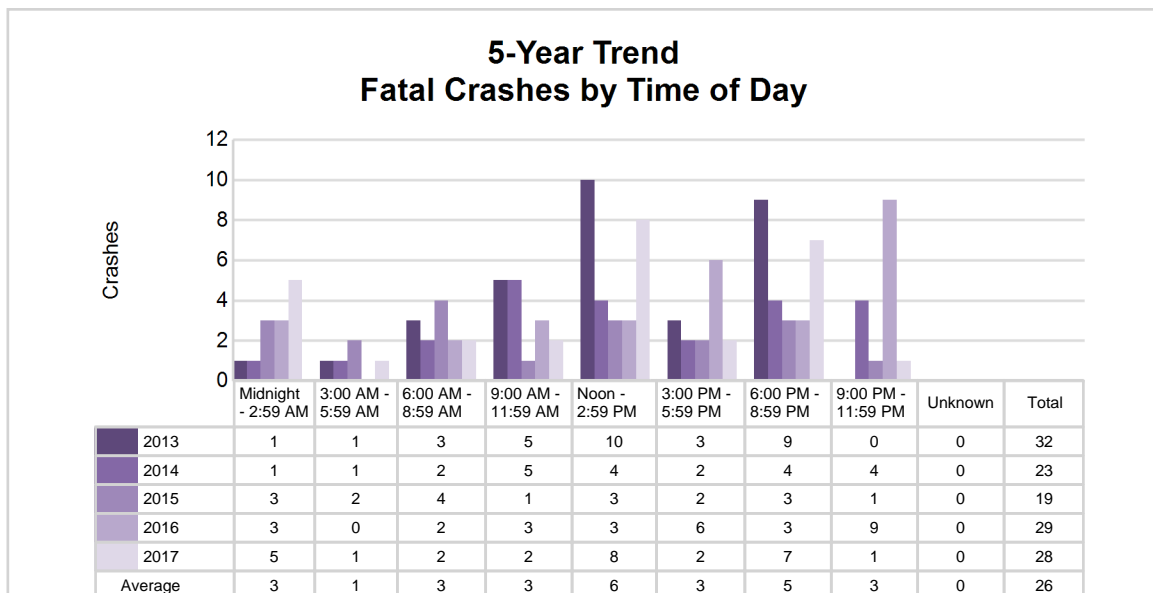
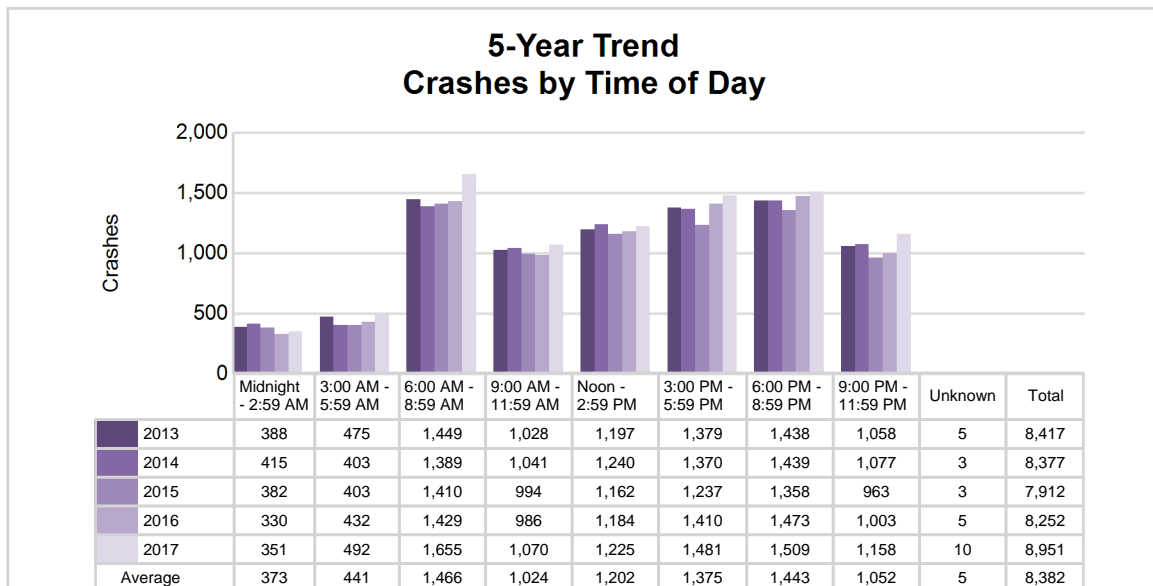
5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



5-Year Trend - Crashes by Time of Day

Time of Day	2013		2014		2015		2016		2017	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	388	1	415	1	382	3	330	3	351	5
3:00 AM - 5:59 AM	475	1	403	1	403	2	432	0	492	1
6:00 AM - 8:59 AM	1,449	3	1,389	2	1,410	4	1,429	2	1,655	2
9:00 AM - 11:59 AM	1,028	5	1,041	5	994	1	986	3	1,070	2
Noon - 2:59 PM	1,197	10	1,240	4	1,162	3	1,184	3	1,225	8
3:00 PM - 5:59 PM	1,379	3	1,370	2	1,237	2	1,410	6	1,481	2
6:00 PM - 8:59 PM	1,438	9	1,439	4	1,358	3	1,473	3	1,509	7
9:00 PM - 11:59 PM	1,058	0	1,077	4	963	1	1,003	9	1,158	1
Unknown	5	0	3	0	3	0	5	0	10	0
Total	8,417	32	8,377	23	7,912	19	8,252	29	8,951	28

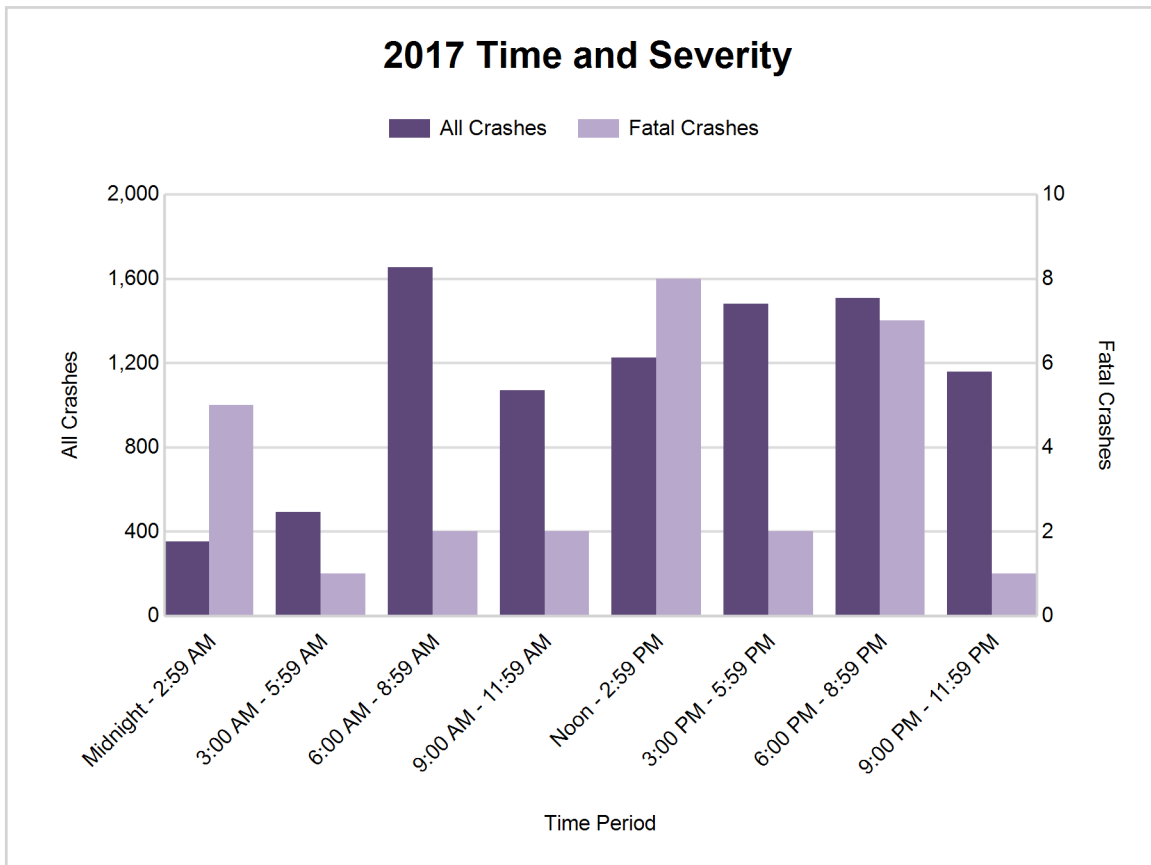
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same time period



Traffic Safety Network Northern Lower (continued)

2017 - Time and Severity

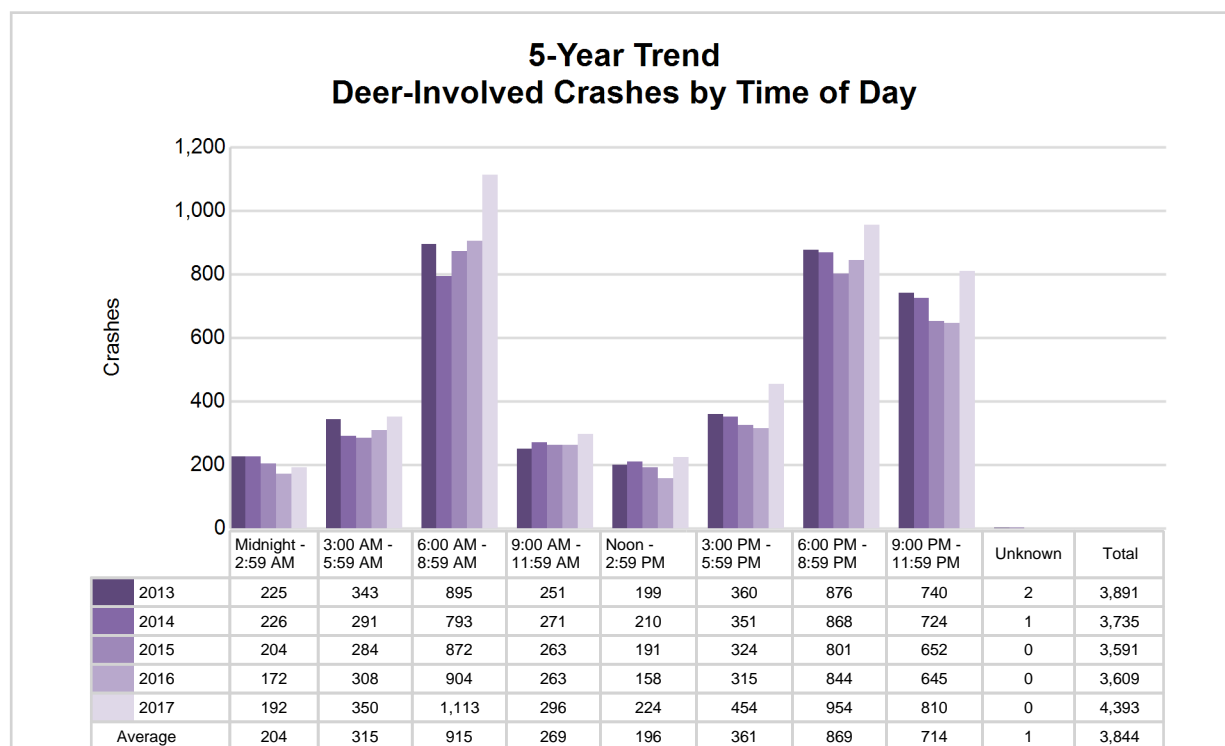
Time of Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Midnight - 2:59 AM	351	3.9	5	17.9	7	21	19	299
3:00 AM - 5:59 AM	492	5.5	1	3.6	6	6	13	466
6:00 AM - 8:59 AM	1,655	18.5	2	7.1	12	36	64	1,541
9:00 AM - 11:59 AM	1,070	12.0	2	7.1	20	49	75	924
Noon - 2:59 PM	1,225	13.7	8	28.6	32	78	106	1,001
3:00 PM - 5:59 PM	1,481	16.5	2	7.1	38	110	131	1,200
6:00 PM - 8:59 PM	1,509	16.9	7	25.0	27	58	67	1,350
9:00 PM - 11:59 PM	1,158	12.9	1	3.6	13	48	41	1,055
Unknown	10	0.1	0	0.0	1	0	2	7
Total	8,951	100.0	28	100.0	156	406	518	7,843



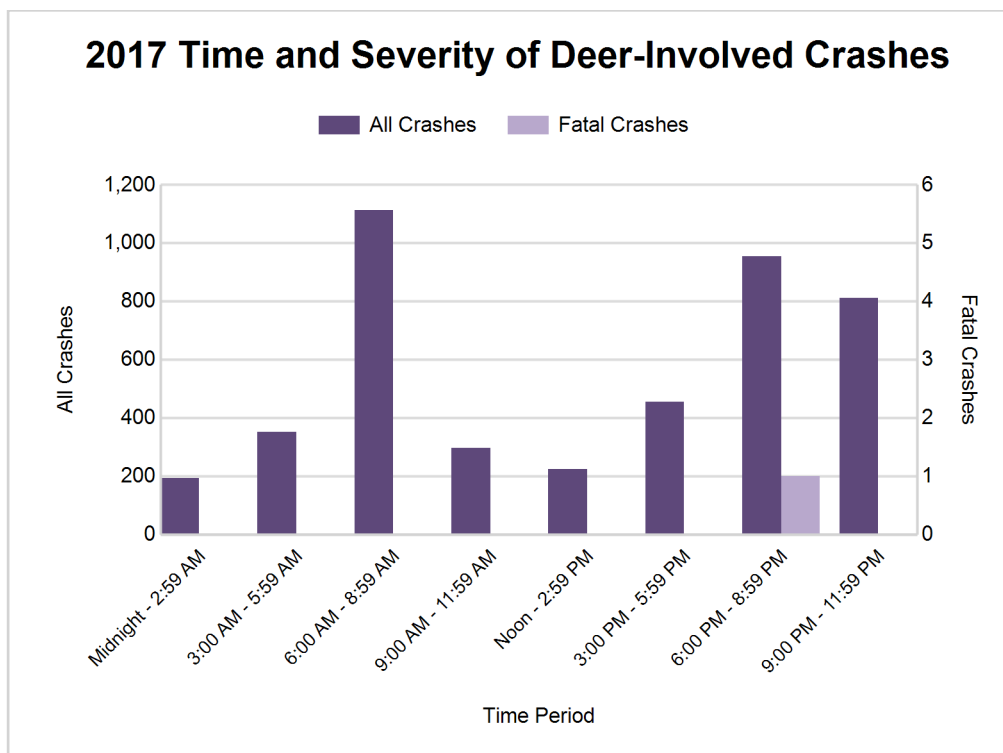
5-Year Trend - Deer-Involved Crashes by Time of Day

Time of Day	2013		2014		2015		2016		2017	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	225	0	226	0	204	0	172	1	192	0
3:00 AM - 5:59 AM	343	0	291	0	284	0	308	0	350	0
6:00 AM - 8:59 AM	895	0	793	0	872	0	904	0	1,113	0
9:00 AM - 11:59 AM	251	0	271	0	263	0	263	0	296	0
Noon - 2:59 PM	199	0	210	0	191	0	158	0	224	0
3:00 PM - 5:59 PM	360	0	351	0	324	0	315	0	454	0
6:00 PM - 8:59 PM	876	0	868	0	801	0	844	0	954	1
9:00 PM - 11:59 PM	740	0	724	0	652	0	645	1	810	0
Unknown	2	0	1	0	0	0	0	0	0	0
Total	3,891	0	3,735	0	3,591	0	3,609	2	4,393	1

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



Traffic Safety Network Northern Lower (continued)



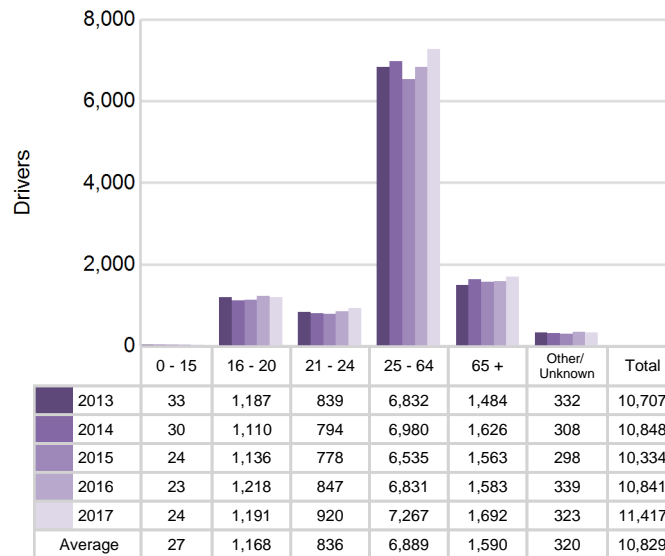
2017 - Reported Motor Vehicle Crashes by County

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	676	2	58	616	0	120	145	409	19	1	517	2	85
Alpena	861	3	123	735	0	175	196	485	34	13	350	3	166
Charlevoix	1,187	3	124	1,060	0	317	230	638	45	8	607	3	170
Cheboygan	1,125	3	147	975	274	68	251	528	29	6	555	3	199
Crawford	602	4	77	521	154	34	165	245	25	7	301	4	110
Emmet	1,476	2	197	1,277	5	457	142	869	53	10	538	2	276
Montmorency	381	1	31	349	0	0	180	200	15	1	246	1	35
Oscoda	287	1	29	257	0	0	147	139	3	2	169	2	41
Otsego	967	5	147	815	224	0	281	455	38	12	318	7	206
Presque Isle	649	1	34	614	0	120	225	304	17	2	504	1	48
Roscommon	740	3	113	624	101	102	218	310	30	7	288	3	151
Total	8,951	28	1,080	7,843	758	1,393	2,180	4,582	308	69	4,393	31	1,487

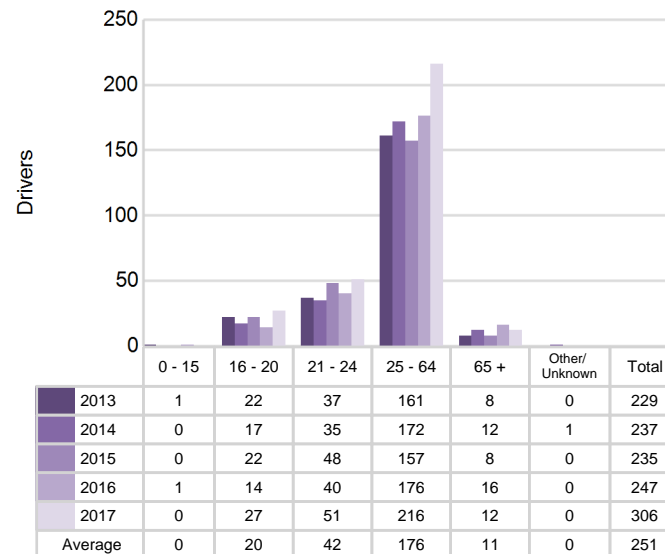
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

Driver Age	2013		2014		2015		2016		2017	
	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	33	1	30	0	24	0	23	1	24	0
16 - 20	1,187	22	1,110	17	1,136	22	1,218	14	1,191	27
21 - 24	839	37	794	35	778	48	847	40	920	51
25 - 64	6,832	161	6,980	172	6,535	157	6,831	176	7,267	216
65 +	1,484	8	1,626	12	1,563	8	1,583	16	1,692	12
Unknown	332	0	308	1	298	0	339	0	323	0
Total	10,707	229	10,848	237	10,334	235	10,841	247	11,417	306

**5-Year Trend
Total Drivers in Crashes by Age**



**5-Year Trend
Total Drivers Coded Drinking by Age**



Traffic Safety Network Northern Lower (continued)

2017 - 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	31	28	20	27	2	3	6	1	15
21 - 24	58	53	43	51	0	8	18	8	17
25 - 64	252	213	179	216	1	23	64	52	76
65 +	17	16	10	12	0	1	1	3	7
Unknown	10	0	0	0	0	0	0	0	0
Total	368	310	252	306	3	35	89	64	115

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 2017, there were 368 drivers in alcohol-involved crashes; 306 (83.2%) of those drivers were coded as had-been-drinking by the officer on the crash form.

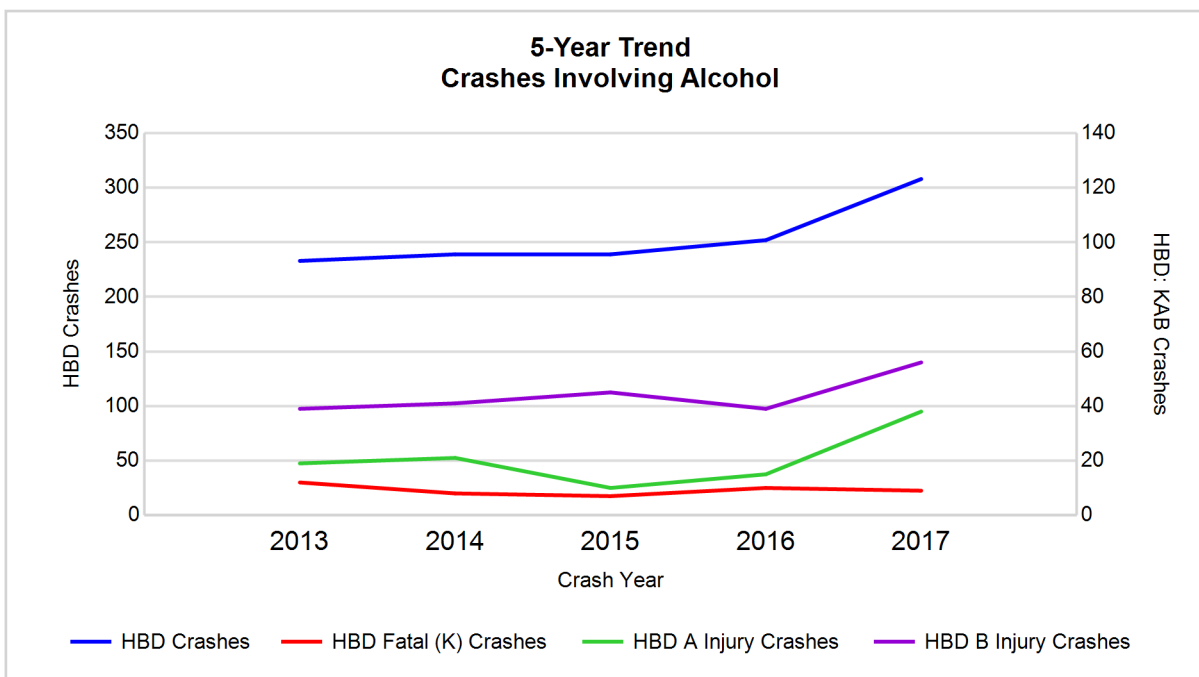
- 153 (50.0%) of the 306 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 64 (41.8%) of the 153 drivers had a BAC at or above 0.17 g/dL.
- 252 (82.4%) of the 306 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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
2013	8,417	233	2.8	32	12	37.5	138	19	13.8	357	39	10.9
2014	8,377	239	2.9	23	8	34.8	128	21	16.4	357	41	11.5
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**

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



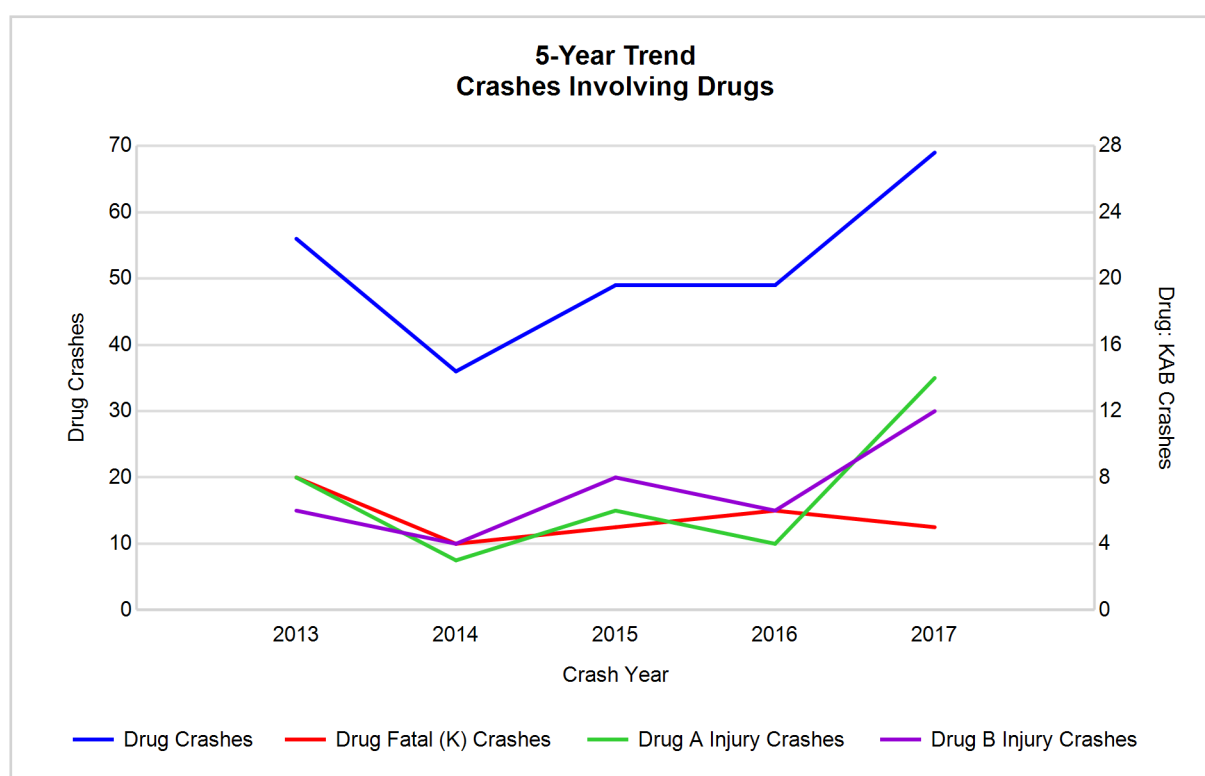
Note: Had-Been-Drinking (HBD)

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
2013	8,417	56	0.7	32	8	25.0	138	8	5.8	357	6	1.7
2014	8,377	36	0.4	23	4	17.4	128	3	2.3	357	4	1.1
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**

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



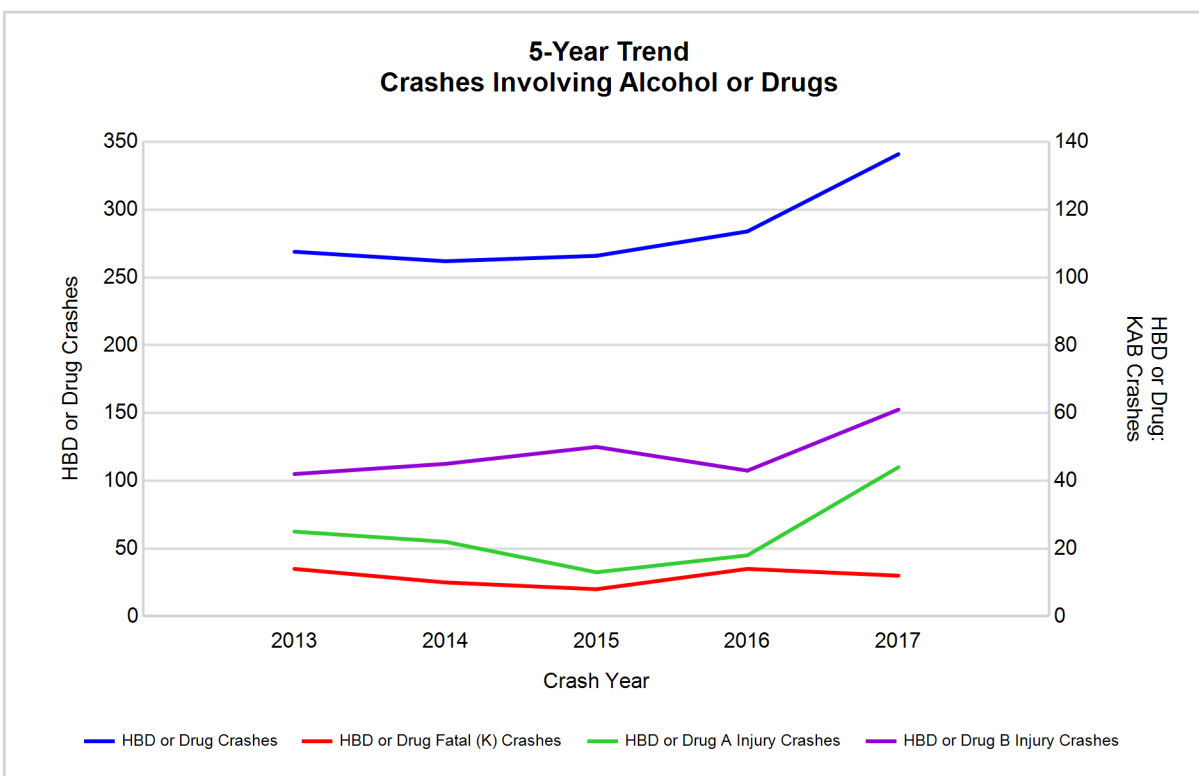
Traffic Safety Network Northern Lower (continued)

5-Year Trend - Crashes Involving Alcohol or Drugs

Year	All Crashes	HBD or Drug Crashes	% HBD or Drug	Fatal Crashes	HBD or Drug Fatal Crashes	% HBD or Drug	A Injury Crashes	HBD or Drug A Injury Crashes	% HBD or Drug	B Injury Crashes	HBD or Drug B Injury Crashes	% HBD or Drug
2013	8,417	269	3.2	32	14	43.8	138	25	18.1	357	42	11.8
2014	8,377	262	3.1	23	10	43.5	128	22	17.2	357	45	12.6
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**

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)

Traffic Safety Network Northern Lower (continued)

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2017 - 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	8,453	8,080	95.6	14	11	78.6	110	94	85.5	350	318	90.9	559	540	96.6	7,201	7,076	98.3
Motor home	113	110	97.3	0	0	0.0	0	0	0.0	1	1	100.0	3	2	66.7	107	106	99.1
Pickup truck	2,568	2,455	95.6	6	3	50.0	29	25	86.2	71	59	83.1	120	114	95.0	2,281	2,241	98.2
Small truck under 10,000 lbs. GVWR	158	145	91.8	0	0	0.0	0	0	0.0	7	7	100.0	8	7	87.5	134	130	97.0
Motorcycle	98	75	76.5	5	3	60.0	21	15	71.4	29	23	79.3	18	16	88.9	25	18	72.0
Moped / goped	14	4	28.6	0	0	0.0	4	0	0.0	7	4	57.1	0	0	0.0	3	0	0.0
Go-cart / golf cart	1	0	0.0	0	0	0.0	1	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Snowmobile	30	29	96.7	0	0	0.0	10	10	100.0	7	7	100.0	7	7	100.0	3	3	100.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	77	32	41.6	4	1	25.0	20	6	30.0	26	12	46.2	9	4	44.4	16	9	56.3
Other	40	24	60.0	1	0	0.0	1	0	0.0	1	0	0.0	1	0	0.0	33	24	72.7
Truck/bus over 10,000 lbs.	180	165	91.7	0	0	0.0	0	0	0.0	4	2	50.0	9	9	100.0	163	154	94.5
Unknown	85	3	3.5	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	5	3	60.0
Total	11,817	11,122	94.1	30	18	60.0	196	150	76.5	503	433	86.1	734	699	95.2	9,971	9,764	97.9

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.

2017 - 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	111	98	88.3	0	0	0.0	8	6	75.0	41	33	80.5	44	42	95.5	18	17	94.4
16 - 20	1,258	1,222	97.1	3	2	66.7	32	26	81.3	82	70	85.4	123	118	95.9	1,010	998	98.8
21 - 24	956	911	95.3	0	0	0.0	20	17	85.0	66	47	71.2	64	61	95.3	803	784	97.6
25 - 64	7,421	7,180	96.8	19	9	47.4	104	75	72.1	239	213	89.1	384	363	94.5	6,623	6,484	97.9
65 +	1,747	1,706	97.7	8	7	87.5	31	25	80.6	75	70	93.3	119	115	96.6	1,500	1,477	98.5
Unknown	324	5	1.5	0	0	0.0	1	1	100.0	0	0	0.0	0	0	0.0	17	4	23.5
Total	11,817	11,122	94.1	30	18	60.0	196	150	76.5	503	433	86.1	734	699	95.2	9,971	9,764	97.9

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.

Traffic Safety Network Northern Lower (continued)

5-Year Trend - Restraint Use Among Drivers

Restraint Use	2013			2014			2015			2016			2017		
	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	46	0	11	69	0	9	40	0	3	36	0	8	40	1	16
Shoulder belt only used	7	0	0	13	0	7	9	0	2	40	0	7	52	0	7
Lap belt only used	20	0	3	15	0	1	19	0	2	13	0	6	11	0	0
Both lap & shoulder belts used	9,925	7	793	10,036	9	779	9,577	4	797	10,005	9	863	10,591	11	848
No belts used	79	6	33	74	3	36	68	4	30	82	4	34	74	4	30
Child restraint used	2	0	0	1	0	0	0	0	0	6	0	0	4	0	0
Child restraint not used, unavailable or improper use	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
Restraint failure	4	0	0	1	0	0	1	0	0	3	0	0	2	0	0
Restraint use unknown	207	1	22	235	2	27	222	4	21	256	1	14	387	0	26
Helmet worn	128	4	93	130	4	94	106	1	75	123	3	95	116	4	84
Helmet not worn	36	8	25	28	1	18	33	1	23	38	3	25	43	3	26
Helmet use unknown	7	1	3	6	0	2	6	0	4	19	3	9	5	2	1
Uncoded & errors	246	0	0	240	0	2	252	0	1	220	0	1	92	0	0
Total	10,707	27	983	10,848	19	975	10,334	14	959	10,841	23	1,062	11,417	25	1,038

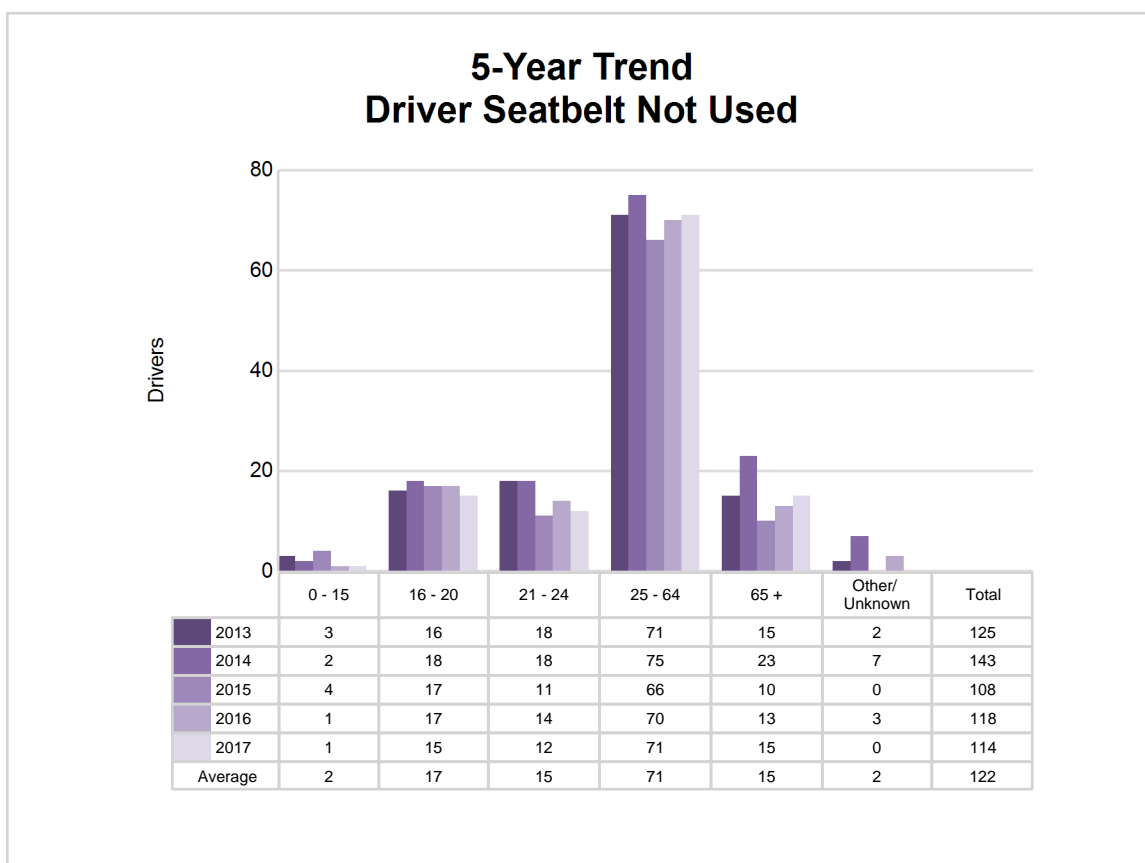
5-Year Trend - Restraint Use Among Drivers Coded Drinking

Restraint Use	2013			2014			2015			2016			2017		
	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	1	0	0	0	1	0	0	0	0	0	3	0	2
Shoulder belt only used	0	0	0	1	0	1	1	0	0	1	0	1	4	0	2
Lap belt only used	0	0	0	0	0	0	1	0	1	1	0	1	0	0	0
Both lap & shoulder belts used	161	1	49	158	2	48	167	1	56	181	1	41	221	1	56
No belts used	19	4	9	17	2	13	21	3	9	14	2	8	20	4	15
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	31	0	9	44	1	14	38	1	10	32	0	9	38	0	13
Helmet worn	6	2	4	8	2	4	2	1	1	10	1	8	7	1	6
Helmet not worn	11	4	6	7	0	7	4	0	4	7	2	4	10	1	7
Helmet use unknown	0	0	0	1	0	0	0	0	0	1	1	0	3	2	0
Uncoded & errors	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Total	229	11	78	237	7	87	235	6	81	247	7	72	306	9	101

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

Age Group	2013			2014			2015			2016			2017		
	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	2	2	0	0	4	0	1	1	0	0	1	0	0
16 - 20	16	0	9	18	0	8	17	0	6	17	1	8	15	1	7
21 - 24	18	2	4	18	0	9	11	0	3	14	0	7	12	0	8
25 - 64	71	4	25	75	2	23	66	3	20	70	2	24	71	4	23
65 +	15	0	4	23	1	5	10	1	3	13	1	2	15	0	8
Unknown	2	0	0	7	0	0	0	0	0	3	0	1	0	0	0
Total	125	6	44	143	3	45	108	4	33	118	4	42	114	5	46

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



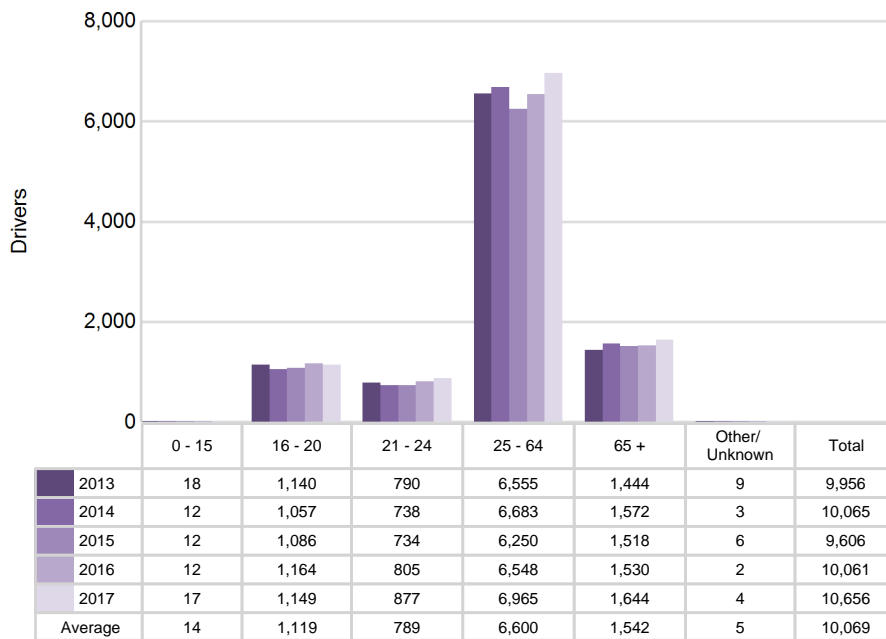
Traffic Safety Network Northern Lower (continued)

5-Year Trend - Seatbelt Used Among Drivers by Age

Age Group	2013			2014			2015			2016			2017		
	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	18	0	3	12	0	1	12	0	2	12	0	1	17	0	1
16 - 20	1,140	1	113	1,057	2	108	1,086	0	133	1,164	2	144	1,149	2	142
21 - 24	790	1	82	738	0	57	734	0	73	805	1	72	877	0	92
25 - 64	6,555	4	463	6,683	4	482	6,250	4	464	6,548	3	516	6,965	5	467
65 +	1,444	1	134	1,572	3	138	1,518	0	128	1,530	3	143	1,644	4	153
Unknown	9	0	1	3	0	1	6	0	1	2	0	0	4	0	0
Total	9,956	7	796	10,065	9	787	9,606	4	801	10,061	9	876	10,656	11	855

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

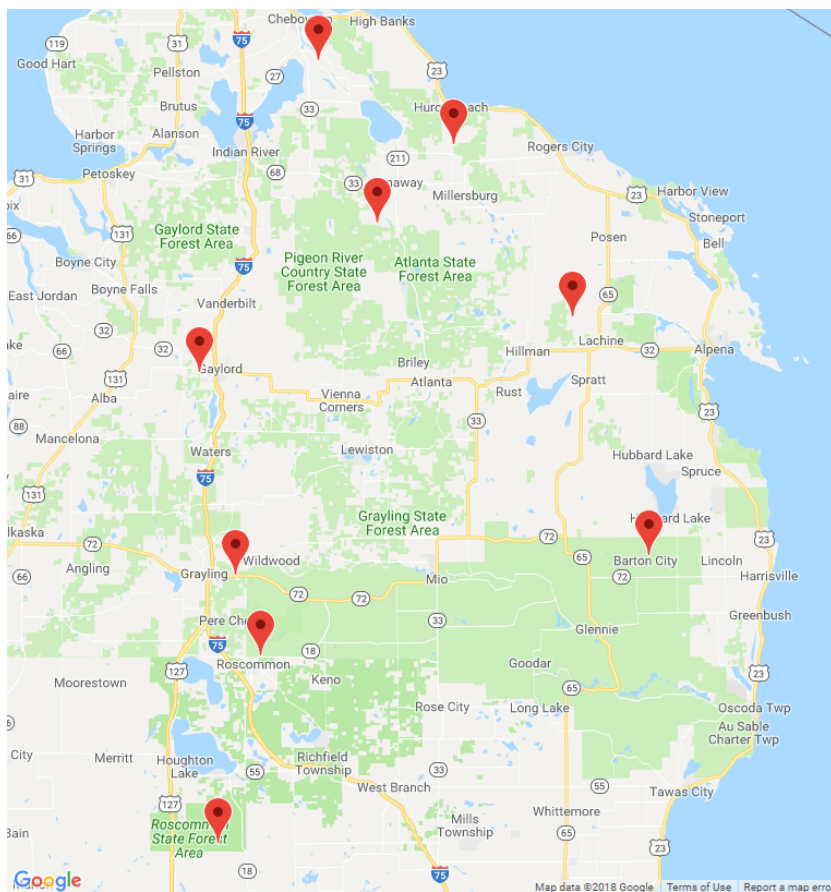
5-Year Trend Driver Seatbelt Used



5-Year Trend - Drivers in Crashes by Hazardous Action

Hazardous Action	2013		2014		2015		2016		2017	
	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	6,489	13	6,525	10	6,364	7	6,602	13	7,228	14
Speed too fast	1,573	12	1,543	14	1,133	10	1,387	11	1,439	9
Speed too slow	14	0	11	0	9	0	7	0	9	0
Failed to yield	588	2	689	2	683	0	681	3	655	3
Disregard traffic control	101	2	128	2	106	0	101	1	95	0
Drove wrong way	11	0	7	0	5	0	8	0	4	1
Drove left of center	50	0	48	1	45	2	58	2	56	2
Improper passing	38	0	48	1	43	0	42	0	40	0
Improper lane use	88	0	89	1	106	0	110	0	110	0
Improper turn	57	0	82	0	64	0	77	1	59	0
Improper/no signal	19	0	19	0	15	0	14	0	7	0
Improper backing	161	0	183	0	169	0	165	0	157	0
Unable to stop in assured clear distance	705	0	671	1	743	0	684	0	642	1
Other	246	2	307	0	292	4	348	4	307	1
Unknown	154	5	148	0	134	0	153	3	156	5
Reckless driving	41	0	29	0	62	1	51	0	37	0
Careless/negligent driving	303	2	271	0	297	1	292	2	311	1
Uncoded & errors	69	0	50	0	64	0	61	0	105	0
Total	10,707	38	10,848	32	10,334	25	10,841	40	11,417	37

Traffic Safety Network Northern Lower (continued)



The picture above represents all 2017 alcohol-involved fatal crashes in TSN Northern Lower.

In 2017, there were 308 alcohol-involved crashes in TSN Northern Lower:

- 9 K - Fatal Crashes
- 38 A - Suspected Serious Injury Crashes
- 56 B - Suspected Minor Injury Crashes
- 28 C - Possible Injury Crashes
- 177 O - Property Damage Only/No Injury Crashes

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