MTCF
Michigan Traffic
Crash Facts

MICHIGAN

OHSP

Office of Highway Safety Planning

2016

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)

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Traffic Safety Network Northern Lower

2016 Traffic Crash Data & 2012-2016 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.
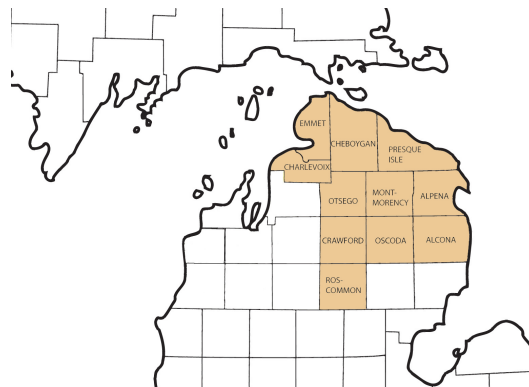
Sources:
The crashes in this report occurred on public roadways in Michigan and resulted in injuries, fatalities, or property damage (with $1,000 as a reporting threshold). The information was gathered from Michigan Traffic Crash Report Forms (UD-10) submitted by local police departments, sheriff's offices, and the Michigan State Police. Other related information was obtained from the departments of Transportation, State, and Community Health.

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Traffic Safety Network Northern Lower

TSN Northern Lower Experience

In 2016:

There were 10,841 drivers involved in 8,252 motor vehicle crashes in Traffic Safety Network Northern Lower. Of those crashes, 29 were classified as fatal, resulting in 31 fatalities. An additional 1,499 persons were injured.

Traffic Safety Network Northern Lower experienced the highest number of motor vehicle crashes (1,073) in November, the highest number of fatal crashes (7) and the highest number of persons killed (7) in July.

Michigan driver statistics indicate 6.6 percent of licensed drivers in Traffic Safety Network Northern Lower were age 16-20, and 11.2 percent of drivers in crashes were also in that age group.

2016 - Crashes and Injuries by Month

Month	Crashes				Persons	
	Total	Fatal	Injury	Property Damage Only (PDO)	Fatalities	Injuries
January	710	2	86	622	2	121
February	640	0	83	557	0	103
March	487	0	53	434	0	73
April	499	2	64	433	2	79
May	564	3	93	468	3	123
June	718	2	94	622	2	120
July	689	7	130	552	7	175
August	628	3	128	497	3	179
September	590	3	98	489	3	125
October	681	4	100	577	6	143
November	1,073	0	104	969	0	128
December	973	3	99	871	3	130
Total	**8,252**	**29**	**1,132**	**7,091**	**31**	**1,499**

2016 - Driver Statistics

Age Group	Statewide			Driver Rates	
	2016 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	1,923,244	49,678	23	0.1	4.6
16 - 20	672,666	471,135	1,218	18.1	25.9
21 - 24	570,792	470,489	847	14.8	18.0
25 - 64	5,149,843	4,748,323	6,831	13.3	14.4
65 +	1,611,755	1,437,067	1,583	9.8	11.0
Unknown	0	0	339	- -	- -
Total	**9,928,300**	**7,176,692**	**10,841**	**10.9**	**15.1**

2016 - Vehicles in Crashes

Vehicle Type	Motor Vehicles		Fatal Crashes		Injury Crashes	PDO Crashes
	Number of Vehicles	% of Total	Number	% of Total	Number	Number
Passenger car, SUV, van	7,464	68.8	18	45.0	1,118	6,328
Motor home	202	1.9	0	0.0	18	184
Pickup truck	2,374	21.9	8	20.0	322	2,044
Small truck under 10,000 lbs. GVWR	268	2.5	2	5.0	33	233
Motorcycle	110	1.0	6	15.0	78	26
Moped / goped	13	0.1	1	2.5	10	2
Go-cart / golf cart	3	0.0	0	0.0	2	1
Snowmobile	22	0.2	1	2.5	16	5
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	40	0.4	1	2.5	36	3
Other	55	0.5	1	2.5	9	45
Truck/bus over 10,000 lbs.	196	1.8	2	5.0	31	163
Unknown	94	0.9	0	0.0	5	89
Total	**10,841**	**100.0**	**40**	**100.0**	**1,678**	**9,123**

Traffic Safety Network Northern Lower (continued)

5-Year Trend - Crashes by Month

| Month	2012 Total Crashes	2012 Fatal Crashes	2013 Total Crashes	2013 Fatal Crashes	2014 Total Crashes	2014 Fatal Crashes	2015 Total Crashes	2015 Fatal Crashes	2016 Total Crashes	2016 Fatal Crashes
January	836	2	820	0	894	3	847	1	710	2
February	646	1	639	5	620	1	557	0	640	0
March	450	0	520	2	746	0	522	0	487	0
April	405	1	546	1	515	2	460	0	499	2
May	478	1	494	3	529	4	545	3	564	3
June	631	0	672	4	630	3	759	2	718	2
July	628	3	622	2	630	1	678	4	689	7
August	529	2	556	6	539	0	619	2	628	3
September	625	0	605	4	498	5	538	4	590	3
October	777	0	788	2	748	2	743	0	681	4
November	1,021 †	3	1,089 †	2	1,178 †	2	1,013 †	2	1,073 †	0
December	776	0	1,066	1	850	0	631	1	973	3
Total	**7,802**	**13**	**8,417**	**32**	**8,377**	**23**	**7,912**	**19**	**8,252**	**29**

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

5-Year Trend - Crashes by Day of Week

Day	2012 Total Crashes	2012 Fatal Crashes	2013 Total Crashes	2013 Fatal Crashes	2014 Total Crashes	2014 Fatal Crashes	2015 Total Crashes	2015 Fatal Crashes	2016 Total Crashes	2016 Fatal Crashes
Monday	1,130	2	1,181	5	1,154	5	1,144	4	1,181	2
Tuesday	1,038	0	1,181	2	1,213	1	1,060	3	1,135	4
Wednesday	1,035	1	1,221	4	1,224	5	1,177	4	1,282	3
Thursday	1,155	2	1,341	3	1,260	2	1,181	2	1,227	5
Friday	1,386 †	0	1,373 †	4	1,401 †	1	1,313 †	3	1,342 †	4
Saturday	1,095	4	1,156	8	1,084	4	1,085	2	1,087	7
Sunday	963	4	964	6	1,041	5	952	1	998	4
Total	**7,802**	**13**	**8,417**	**32**	**8,377**	**23**	**7,912**	**19**	**8,252**	**29**

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

2016 Crashes by Month
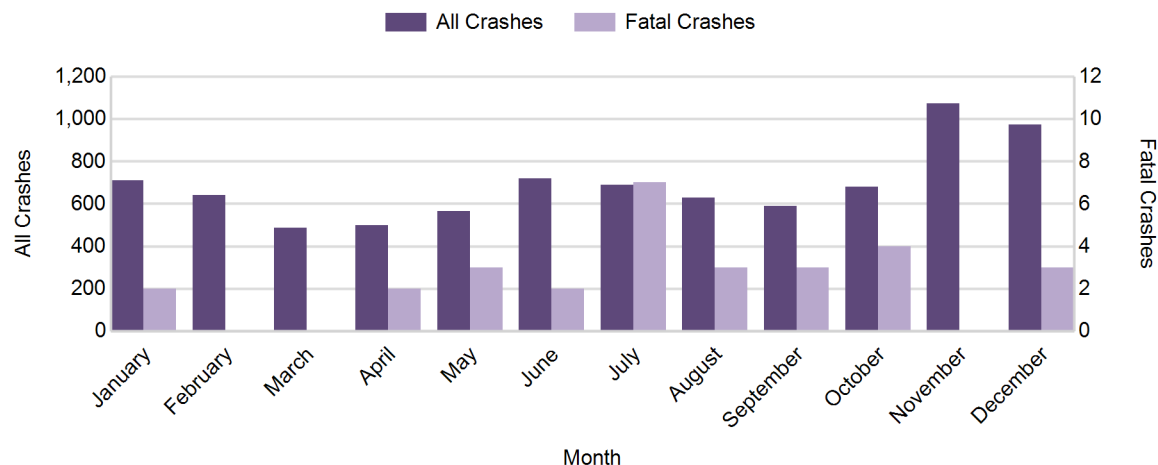
2016 - Crashes by Day of Week

Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Monday	1,181	14.3	2	6.9	17	45	92	1,025
Tuesday	1,135	13.8	4	13.8	19	39	79	994
Wednesday	1,282	15.5	3	10.3	15	49	97	1,118
Thursday	1,227	14.9	5	17.2	23	49	93	1,057
Friday	1,342	16.3	4	13.8	20	61	94	1,163
Saturday	1,087	13.2	7	24.1	31	67	90	892
Sunday	998	12.1	4	13.8	16	52	84	842
Total	**8,252**	**100.0**	**29**	**100.0**	**141**	**362**	**629**	**7,091**

2016 Day of Week and Severity
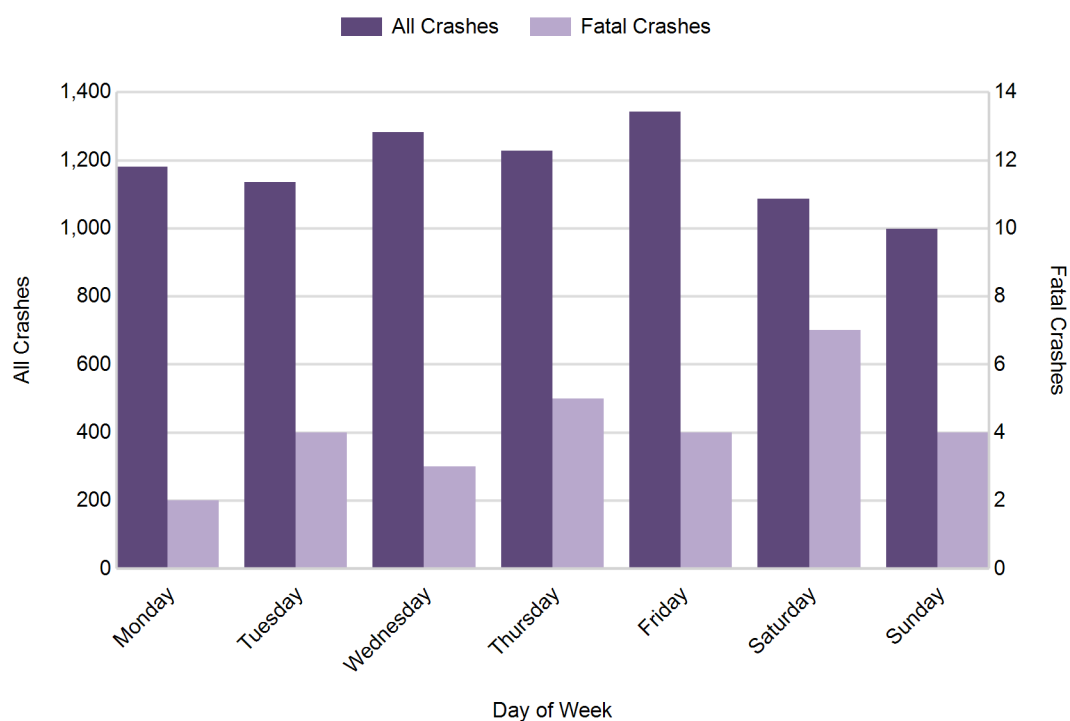
Traffic Safety Network Northern Lower (continued)

5-Year Trend - Crashes by Weekday and Weekend

Portion of Week	2012		2013		2014		2015		2016	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Weekday	5,744	5	6,297	18	6,252	14	5,875	16	6,167	18
Weekend	2,058	8	2,120	14	2,125	9	2,037	3	2,085	11
Total	**7,802**	**13**	**8,417**	**32**	**8,377**	**23**	**7,912**	**19**	**8,252**	**29**

5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)
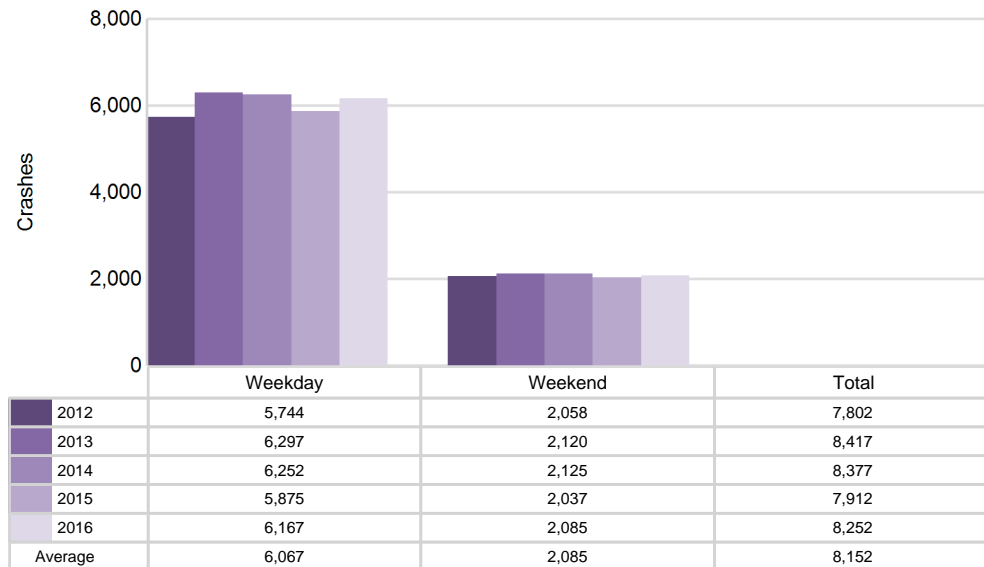
	Weekday	Weekend	Total
2012	5,744	2,058	7,802
2013	6,297	2,120	8,417
2014	6,252	2,125	8,377
2015	5,875	2,037	7,912
2016	6,167	2,085	8,252
Average	6,067	2,085	8,152

Traffic Safety Network Northern Lower (continued)

5-Year Trend - Crashes by Time of Day

Time of Day	2012		2013		2014		2015		2016	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	379	2	388	1	415	1	382	3	330	3
3:00 AM - 5:59 AM	380	0	475	1	403	1	403	2	432	0
6:00 AM - 8:59 AM	1,385	0	1,449	3	1,389	2	1,410	4	1,429	2
9:00 AM - 11:59 AM	913	2	1,028	5	1,041	5	994	1	986	3
Noon - 2:59 PM	1,059	1	1,197	10	1,240	4	1,162	3	1,184	3
3:00 PM - 5:59 PM	1,223	3	1,379	3	1,370	2	1,237	2	1,410	6
6:00 PM - 8:59 PM	1,382	3	1,438	9	1,439	4	1,358	3	1,473	3
9:00 PM - 11:59 PM	1,072	2	1,058	0	1,077	4	963	1	1,003	9
Unknown	9	0	5	0	3	0	3	0	5	0
Total	7,802	13	8,417	32	8,377	23	7,912	19	8,252	29

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 Time of Day**

	Midnight - 2:59 AM	3:00 AM - 5:59 AM	6:00 AM - 8:59 AM	9:00 AM - 11:59 AM	Noon - 2:59 PM	3:00 PM - 5:59 PM	6:00 PM - 8:59 PM	9:00 PM - 11:59 PM	Unknown	Total
2012	379	380	1,385	913	1,059	1,223	1,382	1,072	9	7,802
2013	388	475	1,449	1,028	1,197	1,379	1,438	1,058	5	8,417
2014	415	403	1,389	1,041	1,240	1,370	1,439	1,077	3	8,377
2015	382	403	1,410	994	1,162	1,237	1,358	963	3	7,912
2016	330	432	1,429	986	1,184	1,410	1,473	1,003	5	8,252
Average	379	419	1,412	992	1,168	1,324	1,418	1,035	5	8,152

**5-Year Trend
Fatal Crashes by Time of Day**

	Midnight - 2:59 AM	3:00 AM - 5:59 AM	6:00 AM - 8:59 AM	9:00 AM - 11:59 AM	Noon - 2:59 PM	3:00 PM - 5:59 PM	6:00 PM - 8:59 PM	9:00 PM - 11:59 PM	Unknown	Total
2012	2	0	0	2	1	3	3	2	0	13
2013	1	1	3	5	10	3	9	0	0	32
2014	1	1	2	5	4	2	4	4	0	23
2015	3	2	4	1	3	2	3	1	0	19
2016	3	0	2	3	3	6	3	9	0	29
Average	2	1	2	3	4	3	4	3	0	23

2016 - Time and Severity

Time of Day		All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
		Number	% of Total	Number	% of Fatal	A	B	C	Number
Midnight	- 2:59 AM	330	4.0	3	10.3	7	12	18	290
3:00 AM	- 5:59 AM	432	5.2	0	0.0	3	12	25	392
6:00 AM	- 8:59 AM	1,429	17.3	2	6.9	11	44	70	1,302
9:00 AM	- 11:59 AM	986	11.9	3	10.3	21	62	91	809
Noon	- 2:59 PM	1,184	14.3	3	10.3	30	64	147	940
3:00 PM	- 5:59 PM	1,410	17.1	6	20.7	32	79	136	1,157
6:00 PM	- 8:59 PM	1,473	17.9	3	10.3	27	65	85	1,293
9:00 PM	- 11:59 PM	1,003	12.2	9	31.0	10	24	56	904
Unknown		5	0.1	0	0.0	0	0	1	4
Total		**8,252**	**100.0**	**29**	**100.0**	**141**	**362**	**629**	**7,091**
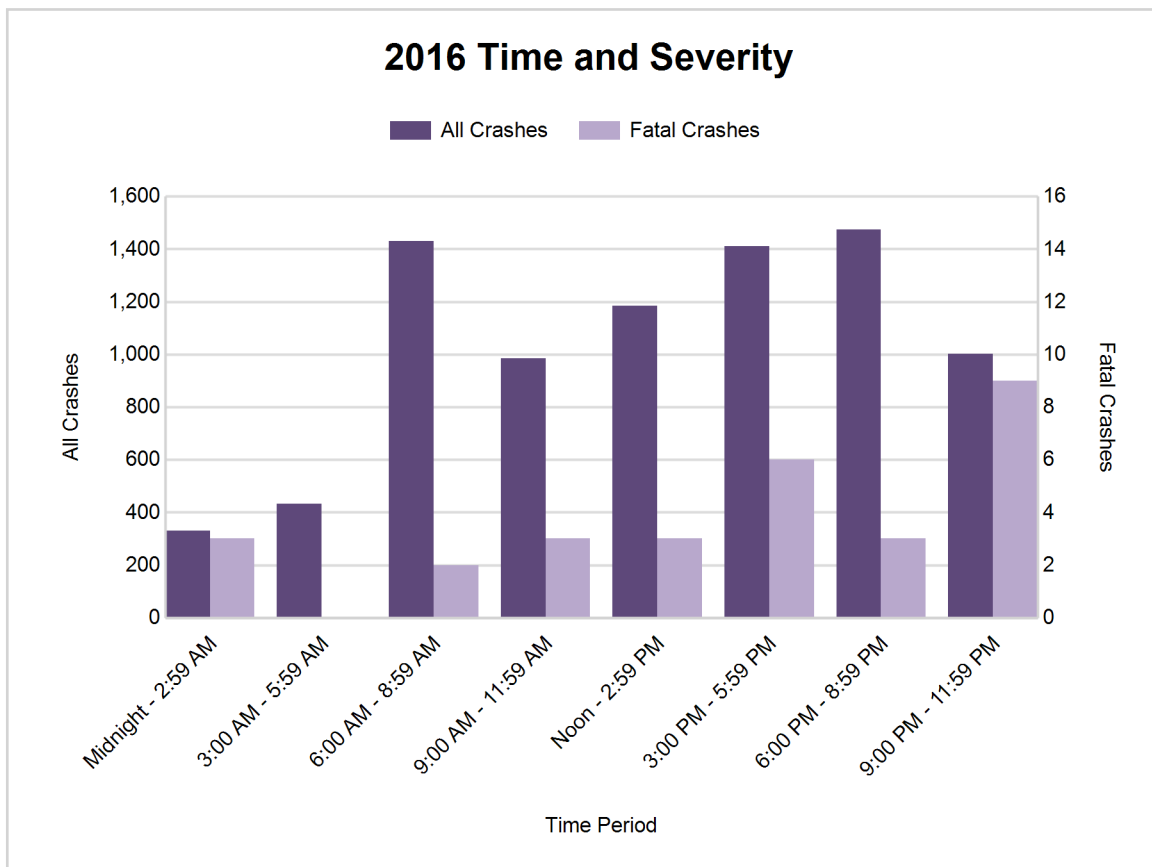
2016 Time and Severity

Traffic Safety Network Northern Lower (continued)

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

Time of Day	2012		2013		2014		2015		2016	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	198	0	225	0	226	0	204	0	172	1
3:00 AM - 5:59 AM	272	0	343	0	291	0	284	0	308	0
6:00 AM - 8:59 AM	945	0	895	0	793	0	872	0	904	0
9:00 AM - 11:59 AM	235	0	251	0	271	0	263	0	263	0
Noon - 2:59 PM	162	0	199	0	210	0	191	0	158	0
3:00 PM - 5:59 PM	331	0	360	0	351	0	324	0	315	0
6:00 PM - 8:59 PM	869	0	876	0	868	0	801	0	844	0
9:00 PM - 11:59 PM	730	0	740	0	724	0	652	0	645	1
Unknown	1	0	2	0	1	0	0	0	0	0
Total	**3,743**	**0**	**3,891**	**0**	**3,735**	**0**	**3,591**	**0**	**3,609**	**2**

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

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

	Midnight - 2:59 AM	3:00 AM - 5:59 AM	6:00 AM - 8:59 AM	9:00 AM - 11:59 AM	Noon - 2:59 PM	3:00 PM - 5:59 PM	6:00 PM - 8:59 PM	9:00 PM - 11:59 PM	Unknown	Total
2012	198	272	945	235	162	331	869	730	1	3,743
2013	225	343	895	251	199	360	876	740	2	3,891
2014	226	291	793	271	210	351	868	724	1	3,735
2015	204	284	872	263	191	324	801	652	0	3,591
2016	172	308	904	263	158	315	844	645	0	3,609
Average	205	300	882	257	184	336	852	698	1	3,714

2016 Time and Severity of Deer-Involved Crashes
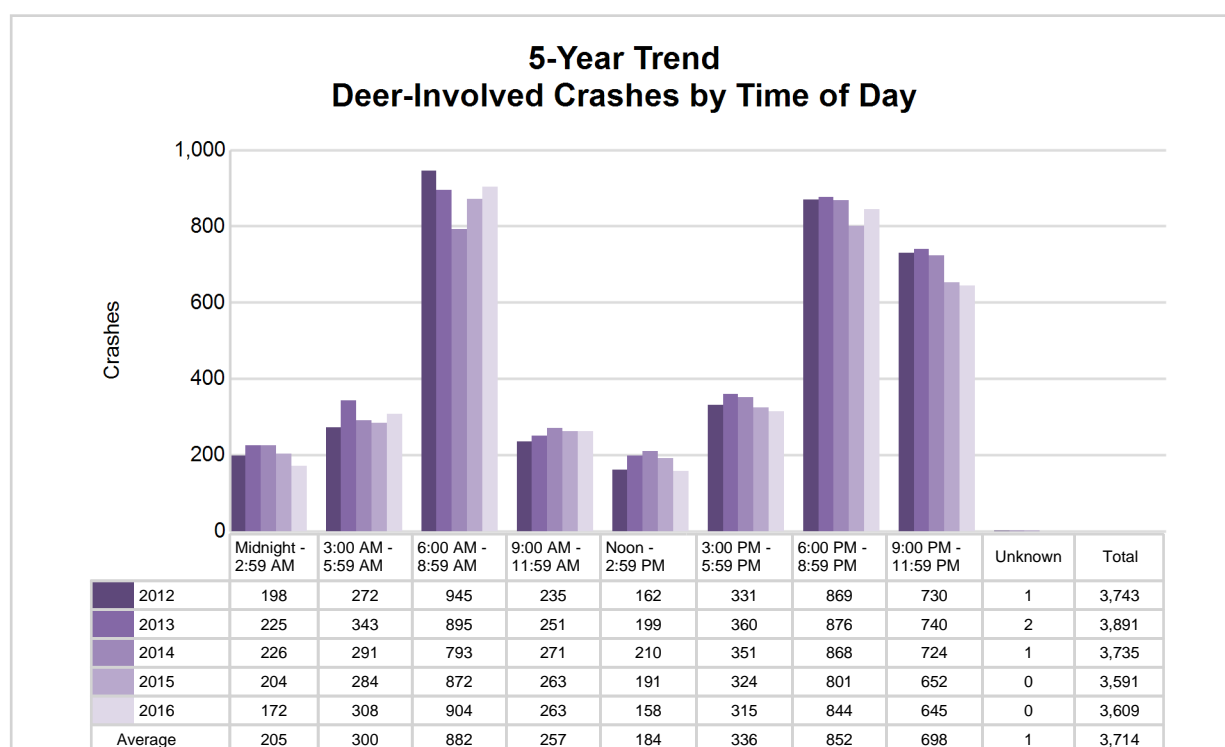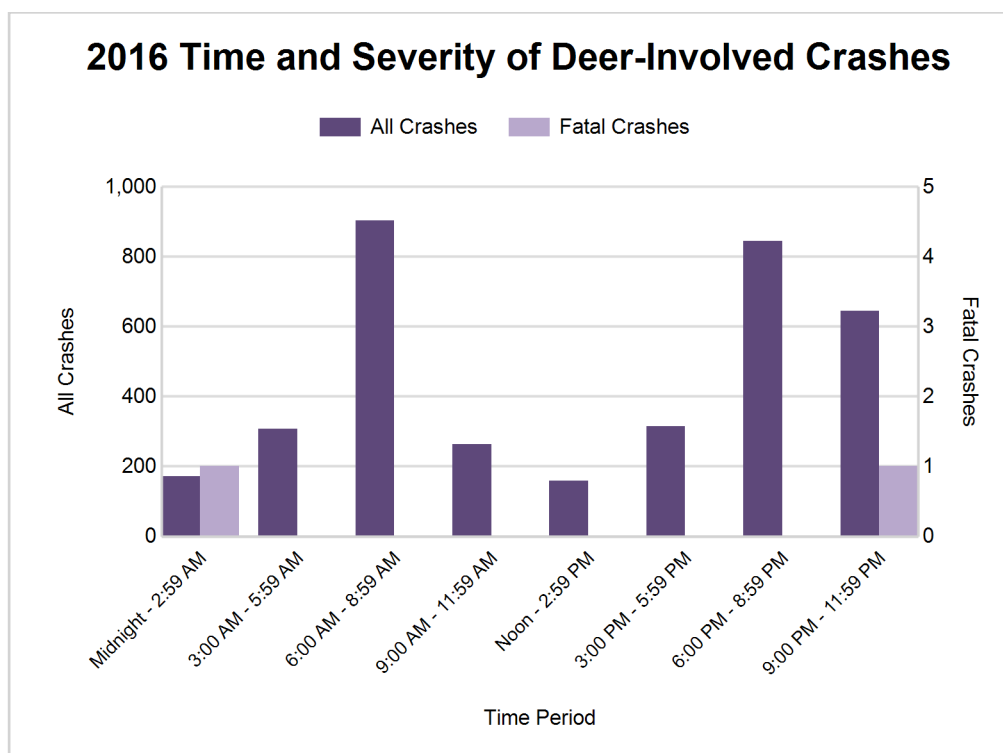
2016 - Reported Motor Vehicle Crashes by County

County	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Alcona	658	2	56	600	0	103	148	402	11	2	482	2	72
Alpena	779	1	114	664	0	173	172	433	24	6	301	1	144
Charlevoix	1,034	1	134	899	0	271	199	561	25	2	474	1	183
Cheboygan	1,012	5	150	857	229	60	254	469	34	5	464	5	207
Crawford	411	2	85	324	135	13	98	164	20	8	73	2	105
Emmet	1,479	5	239	1,235	3	504	136	835	46	9	474	5	324
Montmorency	371	2	28	341	0	0	167	203	9	0	246	2	31
Oscoda	287	3	34	250	0	0	134	150	10	1	173	3	40
Otsego	903	3	147	753	218	0	249	430	37	10	209	3	195
Presque Isle	548	2	36	510	0	94	161	293	12	3	407	2	44
Roscommon	770	3	109	658	115	99	243	305	24	3	306	5	154
Total	**8,252**	**29**	**1,132**	**7,091**	**700**	**1,317**	**1,961**	**4,245**	**252**	**49**	**3,609**	**31**	**1,499**

Traffic Safety Network Northern Lower (continued)

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

Driver Age	2012		2013		2014		2015		2016	
	Total Drivers in Crashes	Total Drivers Coded Drinking	Total Drivers in Crashes	Total Drivers Coded Drinking	Total Drivers in Crashes	Total Drivers Coded Drinking	Total Drivers in Crashes	Total Drivers Coded Drinking	Total Drivers in Crashes	Total Drivers Coded Drinking
0 - 15	37	0	33	1	30	0	24	0	23	1
16 - 20	1,137	27	1,187	22	1,110	17	1,136	22	1,218	14
21 - 24	723	50	839	37	794	35	778	48	847	40
25 - 64	6,427	173	6,832	161	6,980	172	6,535	157	6,831	176
65 +	1,295	14	1,484	8	1,626	12	1,563	8	1,583	16
Unknown	260	2	332	0	308	1	298	0	339	0
Total	**9,879**	**266**	**10,707**	**229**	**10,848**	**237**	**10,334**	**235**	**10,841**	**247**

5-Year Trend
Total Drivers in Crashes by Age
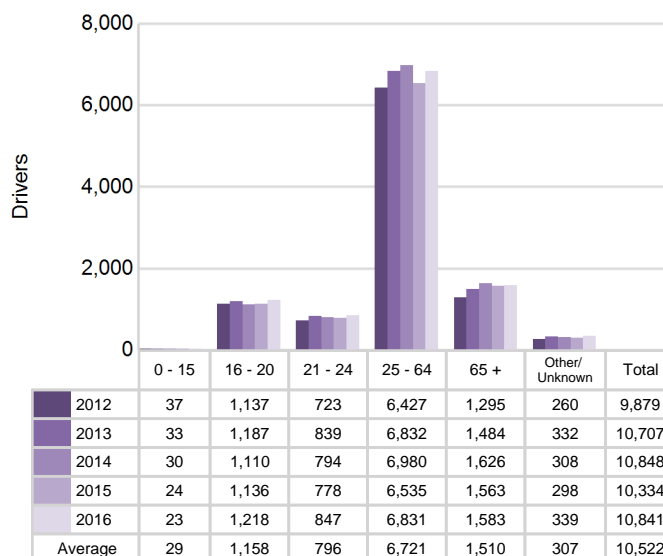
	0 - 15	16 - 20	21 - 24	25 - 64	65 +	Other/ Unknown	Total
2012	37	1,137	723	6,427	1,295	260	9,879
2013	33	1,187	839	6,832	1,484	332	10,707
2014	30	1,110	794	6,980	1,626	308	10,848
2015	24	1,136	778	6,535	1,563	298	10,334
2016	23	1,218	847	6,831	1,583	339	10,841
Average	29	1,158	796	6,721	1,510	307	10,522

5-Year Trend
Total Drivers Coded Drinking by Age

	0 - 15	16 - 20	21 - 24	25 - 64	65 +	Other/ Unknown	Total
2012	0	27	50	173	14	2	266
2013	1	22	37	161	8	0	229
2014	0	17	35	172	12	1	237
2015	0	22	48	157	8	0	235
2016	1	14	40	176	16	0	247
Average	0	20	42	168	12	1	243
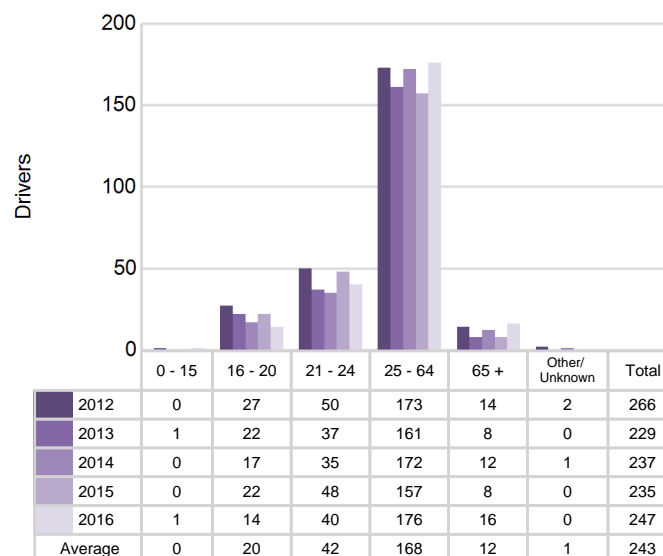
2016 - Bodily Alcohol Concentration (BAC) Results Among All Vehicle Drivers in Alcohol-Involved Crashes by Age

Age Group	Drivers				BAC Result Range for Drivers Coded Drinking				
	Total Drivers in Alcohol-Involved Crashes	Total Drivers Tested in all Crashes	Total Drivers Coded Drinking, Tested	Total Drivers Coded Drinking	BAC = 0.00	BAC 0.01 g/dL to 0.07 g/dL	BAC 0.08 g/dL to 0.16 g/dL	BAC 0.17 g/dL and Above	BAC Not Reported
0 - 15	1	1	1	1	0	0	0	1	0
16 - 20	17	31	13	14	0	0	9	3	2
21 - 24	49	35	30	40	2	3	14	9	12
25 - 64	210	222	149	176	5	15	51	51	54
65 +	24	30	16	16	0	5	5	4	2
Unknown	10	0	0	0	0	0	0	0	0
Total	**311**	**319**	**209**	**247**	**7**	**23**	**79**	**68**	**70**

Notes: BAC measured in grams (g) per deciliter (dL).
BAC may not be reported if drivers are not tested or if the results are not available immediately (as in the case of a blood test).
A driver may be coded by the officer as drinking even though no test is administered.

Alcohol-Involved Crashes

In 2016, there were 311 drivers in alcohol-involved crashes; 247 (79.4%) of those drivers were coded as had-been-drinking by the officer on the crash form.

- 147 (59.5%) of the 247 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 68 (46.3%) of the 147 drivers had a BAC at or above 0.17 g/dL.

- 209 (84.6%) of the 247 drivers were coded as had-been-drinking and were tested for alcohol consumption.

5-Year Trend - Crashes Involving Alcohol

Year	All Crashes	HBD Crashes	% HBD	Fatal Crashes	HBD Fatal Crashes	% HBD	A Injury Crashes	HBD A Injury Crashes	% HBD	B Injury Crashes	HBD B Injury Crashes	% HBD
2012	7,802	267	3.4	13	5	38.5	145	28	19.3	375	54	14.4
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*

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
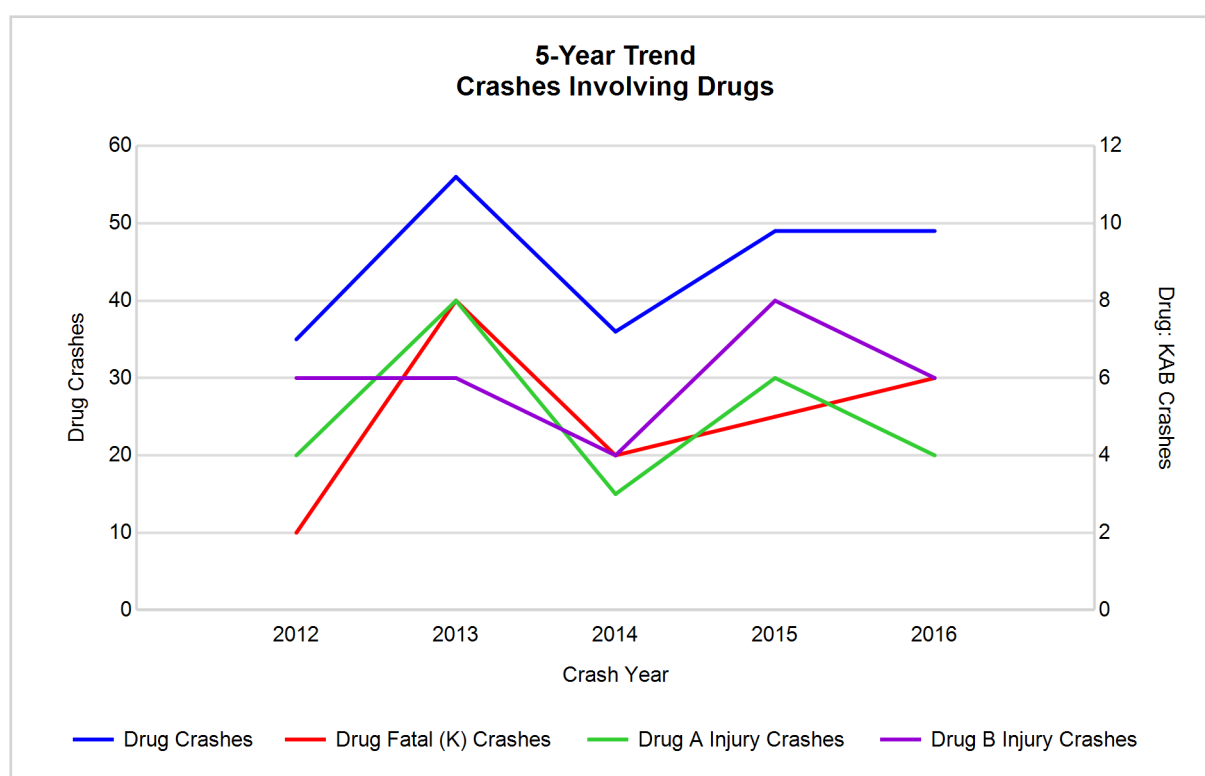

5-Year Trend Crashes Involving Alcohol
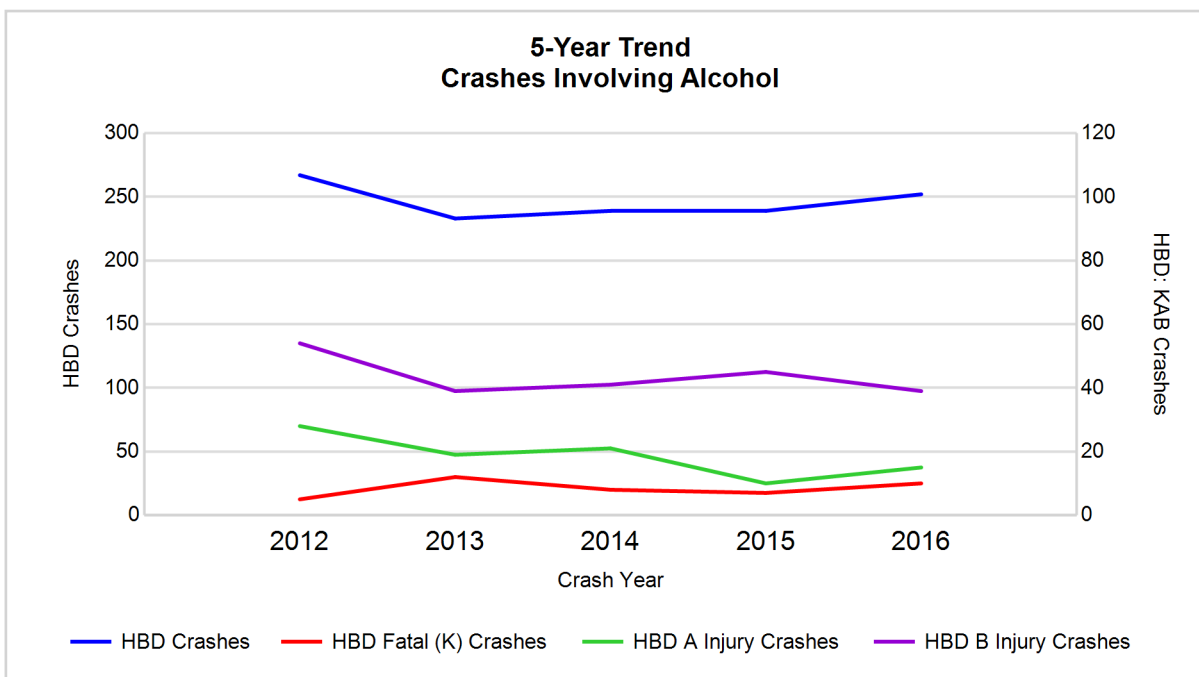
Note: Had-Been-Drinking (HBD)

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
2012	7,802	35	0.4	13	2	15.4	145	4	2.8	375	6	1.6
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

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 Drugs

5-Year Trend - Crashes Involving Alcohol or Drugs

Year	All Crashes	HBD or Drug Crashes	% HBD or Drug	Fatal Crashes	HBD or Drug Fatal Crashes	% HBD or Drug	A Injury Crashes	HBD or Drug A Injury Crashes	% HBD or Drug	B Injury Crashes	HBD or Drug B Injury Crashes	% HBD or Drug
2012	7,802	285	3.7	13	6	46.2	145	29	20.0	375	59	15.7
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

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
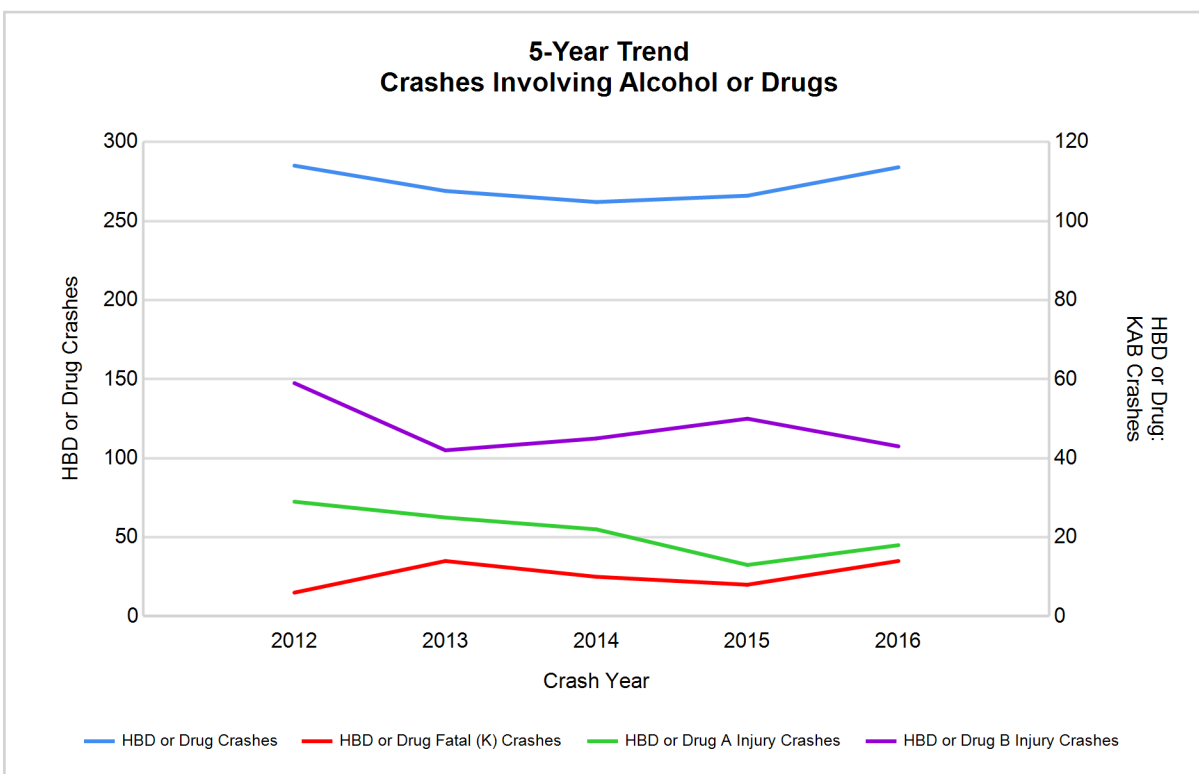

5-Year Trend
Crashes Involving Alcohol or Drugs

Note: Had-Been-Drinking (HBD)

2016 - Restraints Worn Among Vehicle Drivers and Injured Passengers by Vehicle Type

Vehicle Type	Total Occupants			Fatalities			A - Suspected Serious			B - Suspected Minor			C - Possible Injury			No Injury		
	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%
Passenger car, SUV, van	7,762	7,419	95.6	14	10	71.4	74	63	85.1	286	264	92.3	646	617	95.5	6,559	6,441	98.2
Motor home	207	192	92.8	0	0	0.0	0	0	0.0	5	2	40.0	10	9	90.0	185	181	97.8
Pickup truck	2,437	2,296	94.2	4	0	0.0	22	15	68.2	64	53	82.8	145	137	94.5	2,130	2,086	97.9
Small truck under 10,000 lbs. GVWR	271	262	96.7	1	1	100.0	3	3	100.0	5	4	80.0	18	18	100.0	239	236	98.7
Motorcycle	130	89	68.5	5	2	40.0	27	17	63.0	36	25	69.4	30	26	86.7	31	19	61.3
Moped / goped	13	5	38.5	1	0	0.0	1	0	0.0	6	4	66.7	3	1	33.3	2	0	0.0
Go-cart / golf cart	5	0	0.0	0	0	0.0	1	0	0.0	1	0	0.0	1	0	0.0	2	0	0.0
Snowmobile	25	21	84.0	1	1	100.0	6	4	66.7	7	6	85.7	6	5	83.3	5	5	100.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	44	27	61.4	1	0	0.0	15	8	53.3	15	11	73.3	7	6	85.7	6	2	33.3
Other	56	35	62.5	1	0	0.0	1	0	0.0	2	0	0.0	2	2	100.0	45	33	73.3
Truck/bus over 10,000 lbs.	198	180	90.9	1	1	100.0	2	1	50.0	6	4	66.7	2	2	100.0	181	172	95.0
Unknown	94	4	4.3	0	0	0.0	1	0	0.0	0	0	0.0	1	1	100.0	6	2	33.3
Total	**11,242**	**10,530**	**93.7**	**29**	**15**	**51.7**	**153**	**111**	**72.5**	**433**	**373**	**86.1**	**871**	**824**	**94.6**	**9,391**	**9,177**	**97.7**

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

2016 - Restraints Worn Among Vehicle Drivers and Injured Passengers by Age

Age Group	Total Occupants			Fatalities			A - Suspected Serious			B - Suspected Minor			C - Possible Injury			No Injury		
	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%
0 - 15	102	91	89.2	0	0	0.0	3	2	66.7	25	21	84.0	59	55	93.2	15	13	86.7
16 - 20	1,276	1,231	96.5	3	2	66.7	21	16	76.2	85	69	81.2	129	124	96.1	1,036	1,018	98.3
21 - 24	874	835	95.5	1	1	100.0	11	10	90.9	33	30	90.9	73	61	83.6	750	731	97.5
25 - 64	7,020	6,775	96.5	20	9	45.0	95	65	68.4	234	198	84.6	479	454	94.8	6,158	6,025	97.8
65 +	1,630	1,595	97.9	5	3	60.0	22	18	81.8	56	55	98.2	130	129	99.2	1,412	1,388	98.3
Unknown	340	3	0.9	0	0	0.0	1	0	0.0	0	0	0.0	1	1	100.0	20	2	10.0
Total	**11,242**	**10,530**	**93.7**	**29**	**15**	**51.7**	**153**	**111**	**72.5**	**433**	**373**	**86.1**	**871**	**824**	**94.6**	**9,391**	**9,177**	**97.7**

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

5-Year Trend - Restraint Use Among Drivers

Restraint Use	2012			2013			2014			2015			2016		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	86	0	17	46	0	11	69	0	9	40	0	3	36	0	8
Shoulder belt only used	8	0	3	7	0	0	13	0	7	9	0	2	40	0	7
Lap belt only used	17	0	2	20	0	3	15	0	1	19	0	2	13	0	6
Both lap & shoulder belts used	9,123	2	721	9,925	7	793	10,036	9	779	9,577	4	797	10,005	9	863
No belts used	80	3	47	79	6	33	74	3	36	68	4	30	82	4	34
Child restraint used	1	0	0	2	0	0	1	0	0	0	0	0	6	0	0
Child restraint not used, unavailable or improper use	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
Restraint failure	4	0	2	4	0	0	1	0	0	1	0	0	3	0	0
Restraint use unknown	191	0	25	207	1	22	235	2	27	222	4	21	256	1	14
Helmet worn	138	1	103	128	4	93	130	4	94	106	1	75	123	3	95
Helmet not worn	30	1	26	36	8	25	28	1	18	33	1	23	38	3	25
Helmet use unknown	5	1	3	7	1	3	6	0	2	6	0	4	19	3	9
Uncoded & errors	196	0	4	246	0	0	240	0	2	252	0	1	220	0	1
Total	**9,879**	**8**	**953**	**10,707**	**27**	**983**	**10,848**	**19**	**975**	**10,334**	**14**	**959**	**10,841**	**23**	**1,062**

5-Year Trend - Restraint Use Among Drivers Coded Drinking

Restraint Use	2012			2013			2014			2015			2016		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	1	0	1	1	0	1	0	0	0	1	0	0	0	0	0
Shoulder belt only used	2	0	2	0	0	0	1	0	1	1	0	0	1	0	1
Lap belt only used	1	0	0	0	0	0	0	0	0	1	0	1	1	0	1
Both lap & shoulder belts used	180	0	49	161	1	49	158	2	48	167	1	56	181	1	41
No belts used	23	2	18	19	4	9	17	2	13	21	3	9	14	2	8
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	39	0	16	31	0	9	44	1	14	38	1	10	32	0	9
Helmet worn	13	1	10	6	2	4	8	2	4	2	1	1	10	1	8
Helmet not worn	4	0	4	11	4	6	7	0	7	4	0	4	7	2	4
Helmet use unknown	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0
Uncoded & errors	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Total	**266**	**3**	**100**	**229**	**11**	**78**	**237**	**7**	**87**	**235**	**6**	**81**	**247**	**7**	**72**

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

Age Group	2012			2013			2014			2015			2016		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
0 - 15	3	0	2	3	0	2	2	0	0	4	0	1	1	0	0
16 - 20	29	0	11	16	0	9	18	0	8	17	0	6	17	1	8
21 - 24	19	1	7	18	2	4	18	0	9	11	0	3	14	0	7
25 - 64	93	2	37	71	4	25	75	2	23	66	3	20	70	2	24
65 +	21	0	7	15	0	4	23	1	5	10	1	3	13	1	2
Unknown	1	0	0	2	0	0	7	0	0	0	0	0	3	0	1
Total	**166**	**3**	**64**	**125**	**6**	**44**	**143**	**3**	**45**	**108**	**4**	**33**	**118**	**4**	**42**

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

5-Year Trend
Driver Seatbelt Not Used

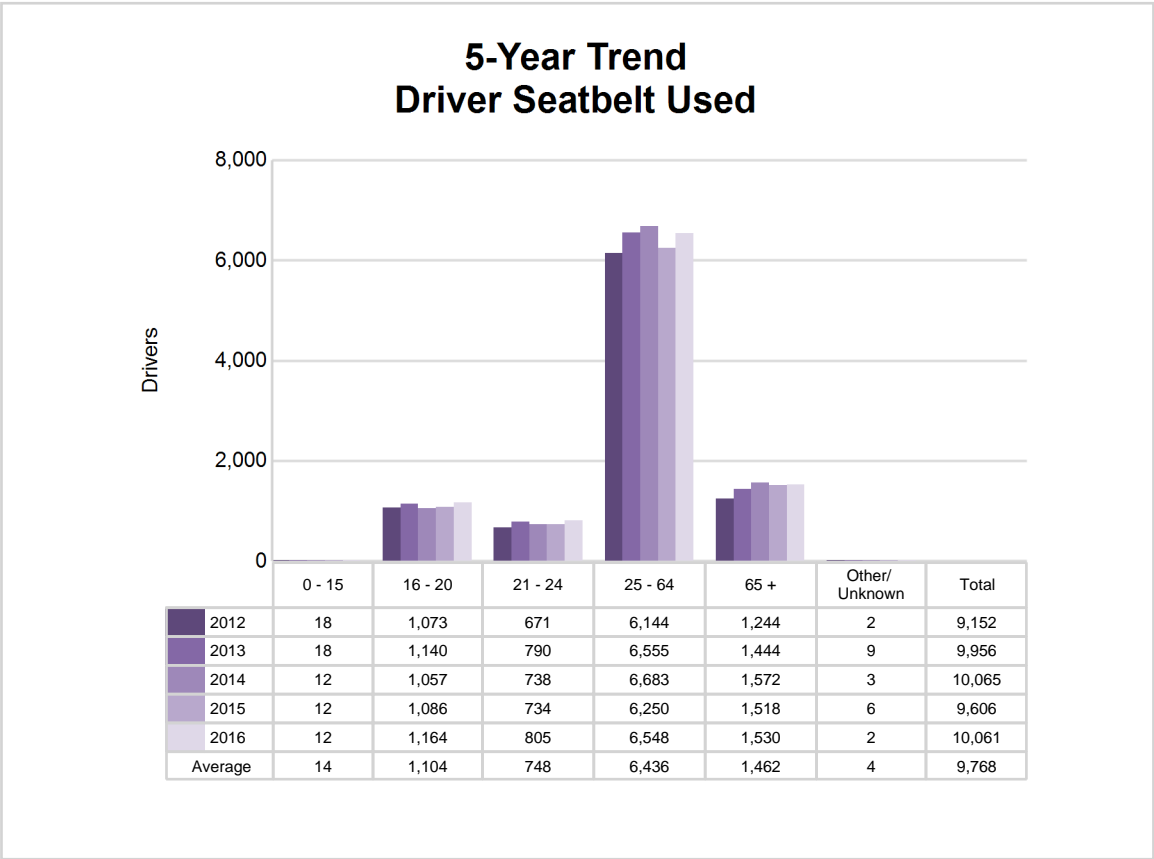|	0 - 15	16 - 20	21 - 24	25 - 64	65 +	Other/ Unknown	Total
2012	3	29	19	93	21	1	166
2013	3	16	18	71	15	2	125
2014	2	18	18	75	23	7	143
2015	4	17	11	66	10	0	108
2016	1	17	14	70	13	3	118
Average	3	19	16	75	16	3	132
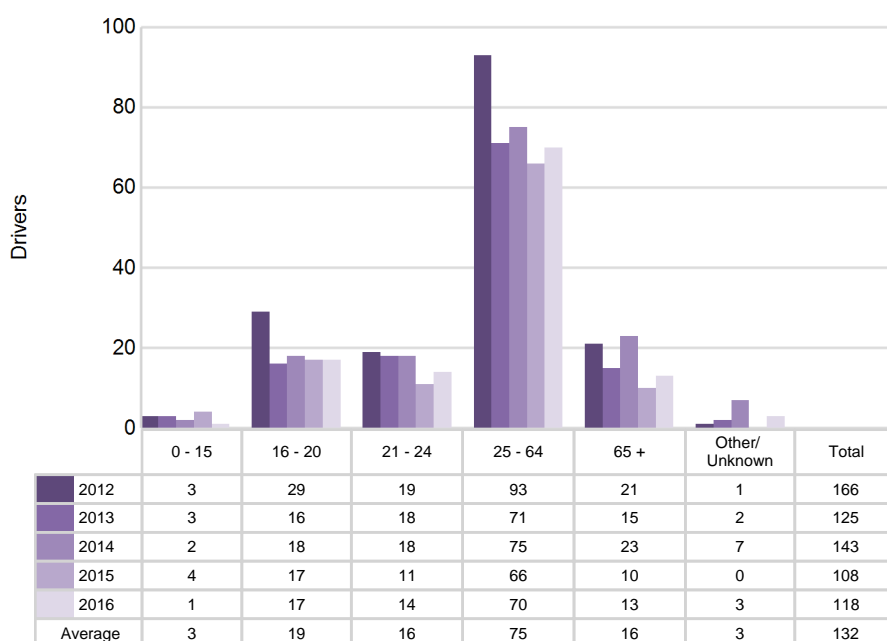
Traffic Safety Network Northern Lower (continued)

5-Year Trend - Seatbelt Used Among Drivers by Age

| Age Group	2012			2013			2014			2015			2016		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
0 - 15	18	0	1	18	0	3	12	0	1	12	0	2	12	0	1
16 - 20	1,073	0	117	1,140	1	113	1,057	2	108	1,086	0	133	1,164	2	144
21 - 24	671	0	71	790	1	82	738	0	57	734	0	73	805	1	72
25 - 64	6,144	1	433	6,555	4	463	6,683	4	482	6,250	4	464	6,548	3	516
65 +	1,244	1	106	1,444	1	134	1,572	3	138	1,518	0	128	1,530	3	143
Unknown	2	0	0	9	0	1	3	0	1	6	0	1	2	0	0
Total	**9,152**	**2**	**728**	**9,956**	**7**	**796**	**10,065**	**9**	**787**	**9,606**	**4**	**801**	**10,061**	**9**	**876**

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

	0 - 15	16 - 20	21 - 24	25 - 64	65 +	Other/ Unknown	Total
2012	18	1,073	671	6,144	1,244	2	9,152
2013	18	1,140	790	6,555	1,444	9	9,956
2014	12	1,057	738	6,683	1,572	3	10,065
2015	12	1,086	734	6,250	1,518	6	9,606
2016	12	1,164	805	6,548	1,530	2	10,061
Average	14	1,104	748	6,436	1,462	4	9,768

Traffic Safety Network Northern Lower (continued)

5-Year Trend - Drivers in Crashes by Hazardous Action

Hazardous Action	2012		2013		2014		2015		2016	
	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes
None	6,151	7	6,489	13	6,525	10	6,364	7	6,602	13
Speed too fast	1,232	3	1,573	12	1,543	14	1,133	10	1,387	11
Speed too slow	6	0	14	0	11	0	9	0	7	0
Failed to yield	536	0	588	2	689	2	683	0	681	3
Disregard traffic control	92	1	101	2	128	2	106	0	101	1
Drove wrong way	5	0	11	0	7	0	5	0	8	0
Drove left of center	48	1	50	0	48	1	45	2	58	2
Improper passing	45	0	38	0	48	1	43	0	42	0
Improper lane use	66	0	88	0	89	1	106	0	110	0
Improper turn	57	1	57	0	82	0	64	0	77	1
Improper/no signal	18	0	19	0	19	0	15	0	14	0
Improper backing	145	0	161	0	183	0	169	0	165	0
Unable to stop in assured clear distance	678	0	705	0	671	1	743	0	684	0
Other	263	1	246	2	307	0	292	4	348	4
Unknown	125	1	154	5	148	0	134	0	153	3
Reckless driving	51	1	41	0	29	0	62	1	51	0
Careless/negligent driving	277	3	303	2	271	0	297	1	292	2
Uncoded & errors	84	0	69	0	50	0	64	0	61	0
Total	**9,879**	**19**	**10,707**	**38**	**10,848**	**32**	**10,334**	**25**	**10,841**	**40**
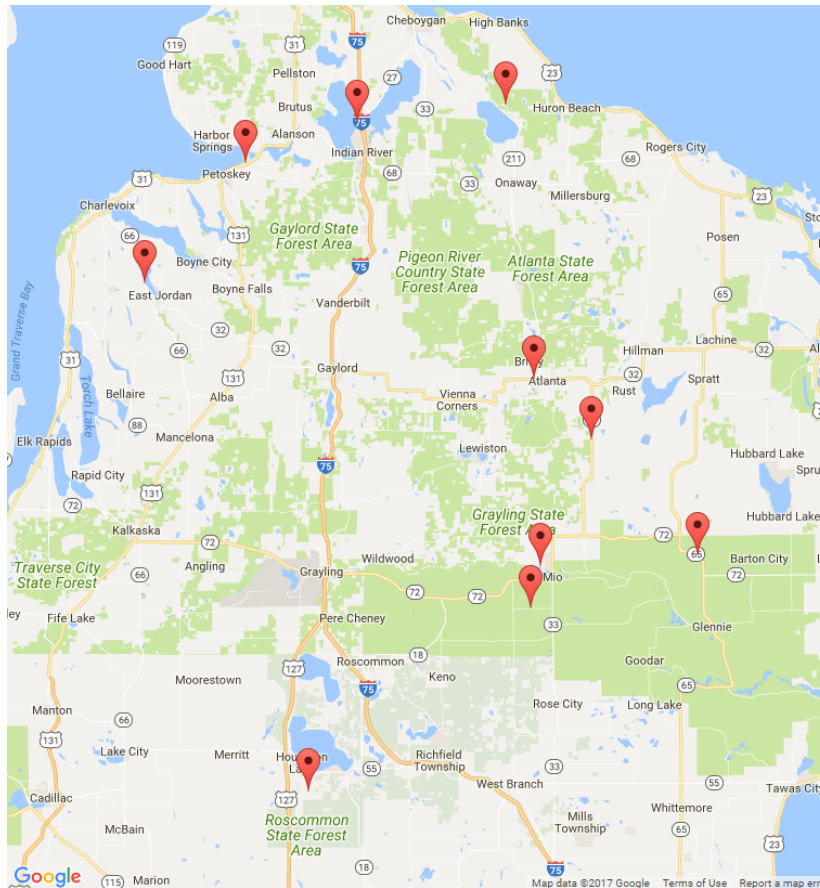
The picture above represents all 2016 alcohol-involved fatal crashes in TSN Northern Lower.

In 2016, there were 252 alcohol-involved crashes in TSN Northern Lower:

10   K - Fatal Crashes

15   A - Suspected Serious Injury Crashes

39   B - Suspected Minor Injury Crashes

40   C - Possible Injury Crashes

148   O - Property Damage Only/No Injury Crashes

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