



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

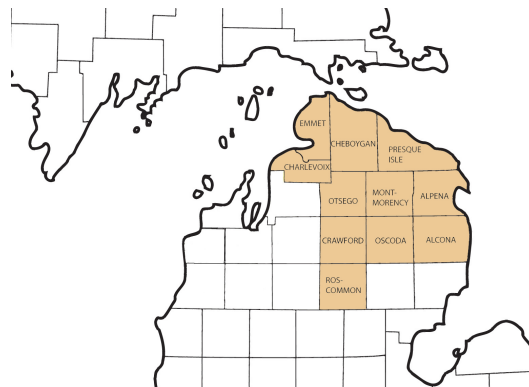
Property Damage Only (PDO)



## Traffic Safety Network Northern Lower

### 2018 Traffic Crash Data & 2014-2018 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 2018:

There were 11,283 drivers involved in 8,924 motor vehicle crashes in Traffic Safety Network Northern Lower. Of those crashes, 16 were classified as fatal, resulting in 18 fatalities. An additional 1,407 persons were injured.

Traffic Safety Network Northern Lower experienced the highest number of motor vehicle crashes (1,168) in November, the highest number of fatal crashes (3) in July and August, and the highest number of persons killed (4) in July.

Michigan driver statistics indicate 6.4 percent of licensed drivers in Traffic Safety Network Northern Lower were age 16-20, and 9.8 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	806	1	67	738	1	85
February	695	1	72	622	1	91
March	638	1	49	588	2	88
April	677	0	61	616	0	73
May	558	1	86	471	1	119
June	747	0	85	662	0	109
July	727	3	119	605	4	168
August	622	3	107	512	3	148
September	563	1	102	460	1	142
October	780	2	84	694	2	124
November	1,168	2	114	1,052	2	143
December	943	1	96	846	1	117
<b>Total</b>	<b>8,924</b>	<b>16</b>	<b>1,042</b>	<b>7,866</b>	<b>18</b>	<b>1,407</b>

## 2018 - Driver Statistics

Age Group	Northern Lower			Driver Rates	
	2018 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	33,358	1,159	18	5.4	155.3
16 - 20	10,907	9,269	1,109	1,016.8	1,196.5
21 - 24	8,366	8,063	811	969.4	1,005.8
25 - 64	106,793	103,752	7,318	685.3	705.3
65 +	56,992	55,014	1,721	302.0	312.8
Unknown	0	0	306	--	--
<b>Total</b>	<b>216,416</b>	<b>177,257</b>	<b>11,283</b>	<b>521.4</b>	<b>636.5</b>

## 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	8,012	71.0	16	69.6	1,037	6,959
Motor home	74	0.7	0	0.0	10	64
Pickup truck	2,585	22.9	2	8.7	319	2,264
Small truck under 10,000 lbs. GVWR	123	1.1	0	0.0	11	112
Motorcycle	83	0.7	2	8.7	70	11
Moped / goped	4	0.0	0	0.0	4	0
Go-cart / golf cart	1	0.0	0	0.0	1	0
Snowmobile	8	0.1	0	0.0	7	1
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	33	0.3	1	4.3	26	6
Other	39	0.3	0	0.0	4	35
Truck/bus over 10,000 lbs.	241	2.1	2	8.7	37	202
Unknown	80	0.7	0	0.0	7	73
<b>Total</b>	<b>11,283</b>	<b>100.0</b>	<b>23</b>	<b>100.0</b>	<b>1,533</b>	<b>9,727</b>

## 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	894	3	847	1	710	2	729	2	806	1
February	620	1	557	0	640	0	730	2	695	1
March	746	0	522	0	487	0	589	1	638	1
April	515	2	460	0	499	2	439	3	677	0
May	529	4	545	3	564	3	567	3	558	1
June	630	3	759	2	718	2	673	3	747	0
July	630	1	678	4	689	7	706	4	727	3
August	539	0	619	2	628	3	599	1	622	3
September	498	5	538	4	590	3	716	3	563	1
October	748	2	743	0	681	4	927	3	780	2
November	1,178	2	1,013	2	1,073	0	1,104	3	1,168	2
December	850	0	631	1	973	3	1,172	0	943	1
<b>Total</b>	<b>8,377</b>	<b>23</b>	<b>7,912</b>	<b>19</b>	<b>8,252</b>	<b>29</b>	<b>8,951</b>	<b>28</b>	<b>8,924</b>	<b>16</b>

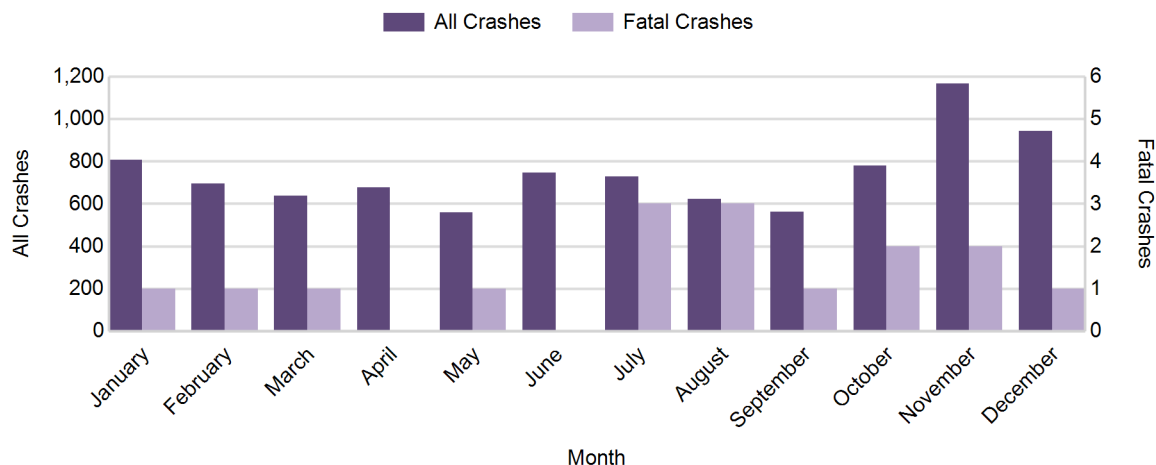
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

## 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	1,154	5	1,144	4	1,181	2	1,267	4	1,334	4
Tuesday	1,213	1	1,060	3	1,135	4	1,315	1	1,335	0
Wednesday	1,224	5	1,177	4	1,282	3	1,257	1	1,247	4
Thursday	1,260	2	1,181	2	1,227	5	1,320	7	1,287	2
Friday	1,401 †	1	1,313 †	3	1,342 †	4	1,480 †	2	1,571 †	2
Saturday	1,084	4	1,085	2	1,087	7	1,240	9	1,127	3
Sunday	1,041	5	952	1	998	4	1,072	4	1,023	1
<b>Total</b>	<b>8,377</b>	<b>23</b>	<b>7,912</b>	<b>19</b>	<b>8,252</b>	<b>29</b>	<b>8,951</b>	<b>28</b>	<b>8,924</b>	<b>16</b>

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

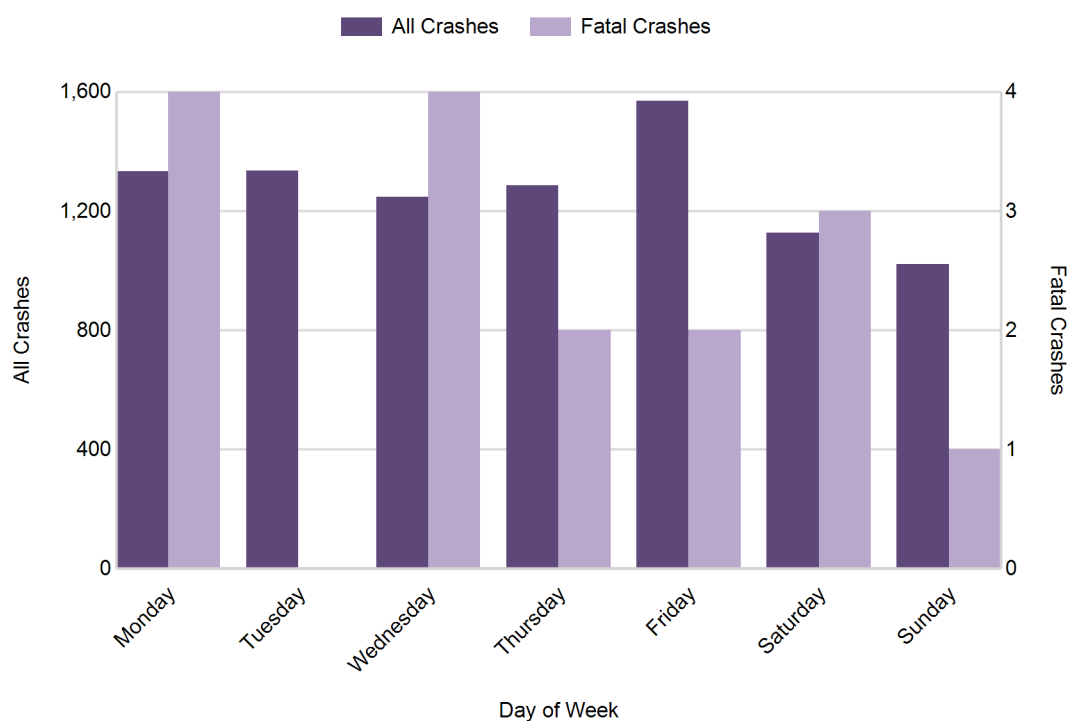
## 2018 Crashes by Month



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	1,334	14.9	4	25.0	26	39	76	1,189
Tuesday	1,335	15.0	0	0.0	21	53	90	1,171
Wednesday	1,247	14.0	4	25.0	19	49	58	1,117
Thursday	1,287	14.4	2	12.5	12	54	72	1,147
Friday	1,571	17.6	2	12.5	23	61	103	1,382
Saturday	1,127	12.6	3	18.8	30	60	60	974
Sunday	1,023	11.5	1	6.3	25	47	64	886
<b>Total</b>	<b>8,924</b>	<b>100.0</b>	<b>16</b>	<b>100.0</b>	<b>156</b>	<b>363</b>	<b>523</b>	<b>7,866</b>

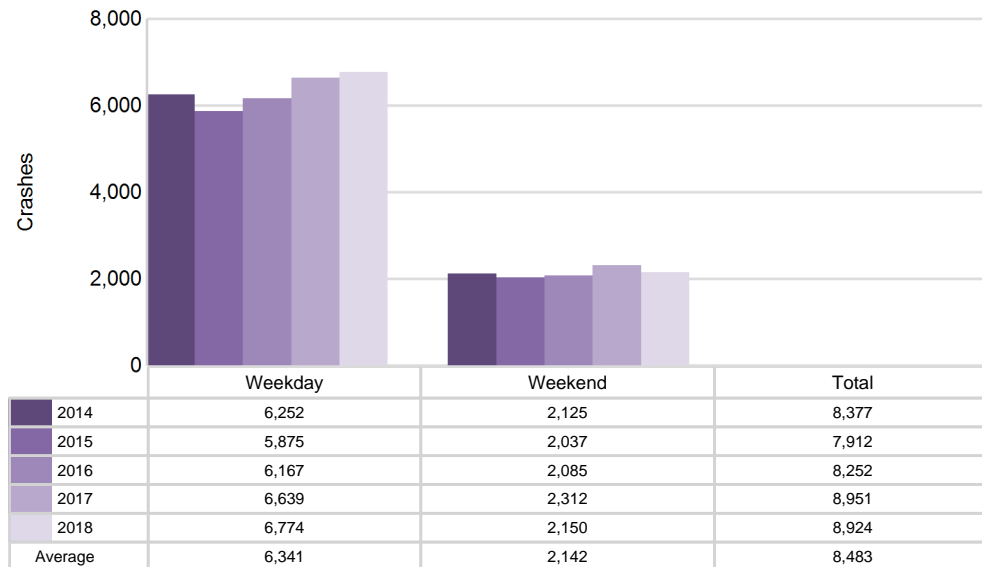
2018 Day of Week and Severity



## 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	6,252	14	5,875	16	6,167	18	6,639	15	6,774	12
Weekend	2,125	9	2,037	3	2,085	11	2,312	13	2,150	4
<b>Total</b>	<b>8,377</b>	<b>23</b>	<b>7,912</b>	<b>19</b>	<b>8,252</b>	<b>29</b>	<b>8,951</b>	<b>28</b>	<b>8,924</b>	<b>16</b>

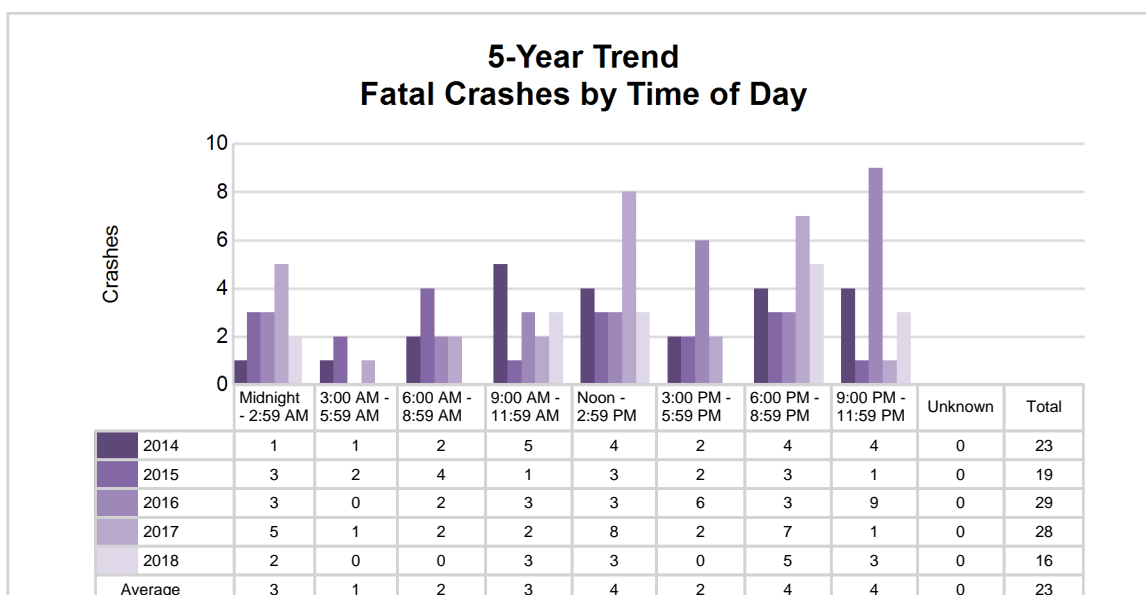
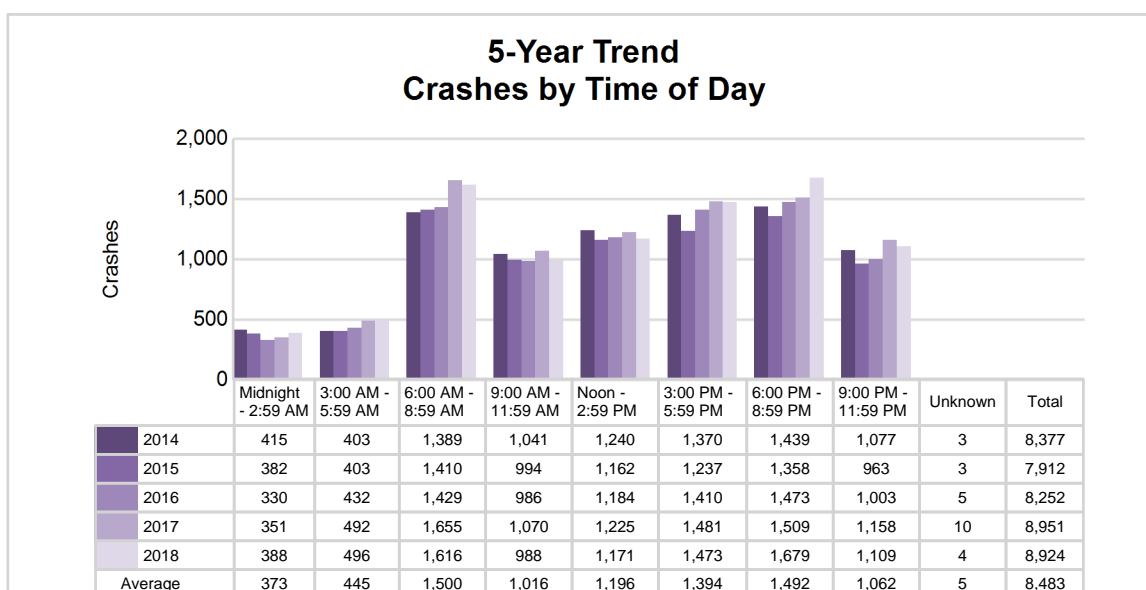
### 5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



## 5-Year Trend - Crashes by Time of Day

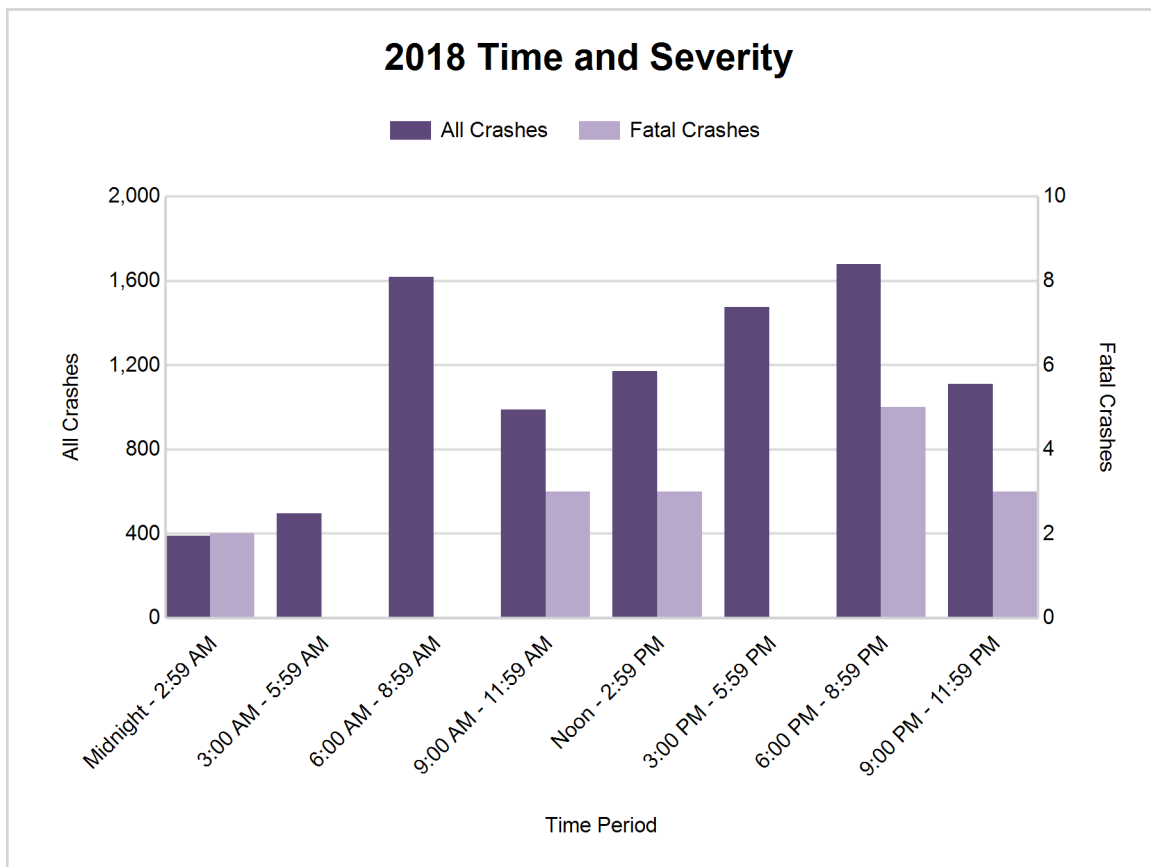
Time of Day	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	415	1	382	3	330	3	351	5	388	2
3:00 AM - 5:59 AM	403	1	403	2	432	0	492	1	496	0
6:00 AM - 8:59 AM	1,389	2	1,410	4	1,429	2	1,655	2	1,616	0
9:00 AM - 11:59 AM	1,041	5	994	1	986	3	1,070	2	988	3
Noon - 2:59 PM	1,240	4	1,162	3	1,184	3	1,225	8	1,171	3
3:00 PM - 5:59 PM	1,370	2	1,237	2	1,410	6	1,481	2	1,473	0
6:00 PM - 8:59 PM	1,439	4	1,358	3	1,473	3	1,509	7	1,679	5
9:00 PM - 11:59 PM	1,077	4	963	1	1,003	9	1,158	1	1,109	3
Unknown	3	0	3	0	5	0	10	0	4	0
<b>Total</b>	<b>8,377</b>	<b>23</b>	<b>7,912</b>	<b>19</b>	<b>8,252</b>	<b>29</b>	<b>8,951</b>	<b>28</b>	<b>8,924</b>	<b>16</b>

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	388	4.3	2	12.5	10	21	15	340
3:00 AM - 5:59 AM	496	5.6	0	0.0	6	10	18	462
6:00 AM - 8:59 AM	1,616	18.1	0	0.0	21	38	58	1,499
9:00 AM - 11:59 AM	988	11.1	3	18.8	16	43	76	850
Noon - 2:59 PM	1,171	13.1	3	18.8	26	74	112	956
3:00 PM - 5:59 PM	1,473	16.5	0	0.0	38	78	139	1,218
6:00 PM - 8:59 PM	1,679	18.8	5	31.3	24	68	58	1,524
9:00 PM - 11:59 PM	1,109	12.4	3	18.8	15	31	46	1,014
Unknown	4	0.0	0	0.0	0	0	1	3
<b>Total</b>	<b>8,924</b>	<b>100.0</b>	<b>16</b>	<b>100.0</b>	<b>156</b>	<b>363</b>	<b>523</b>	<b>7,866</b>

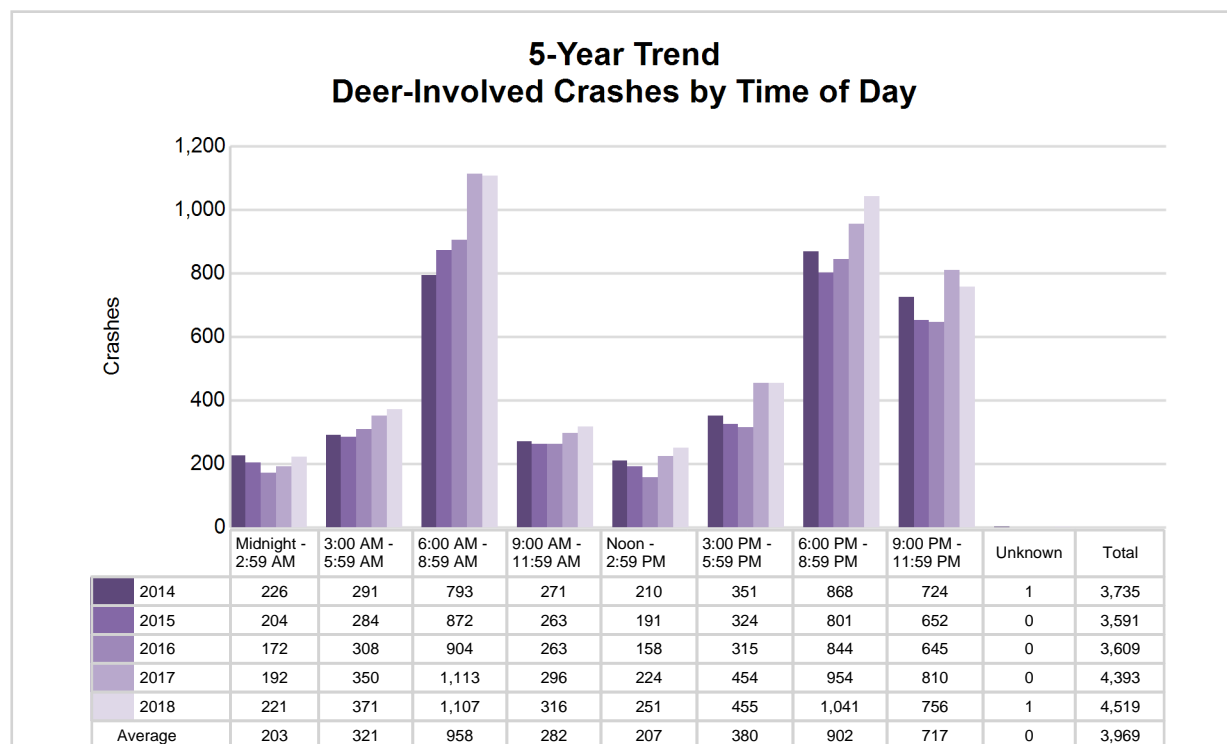


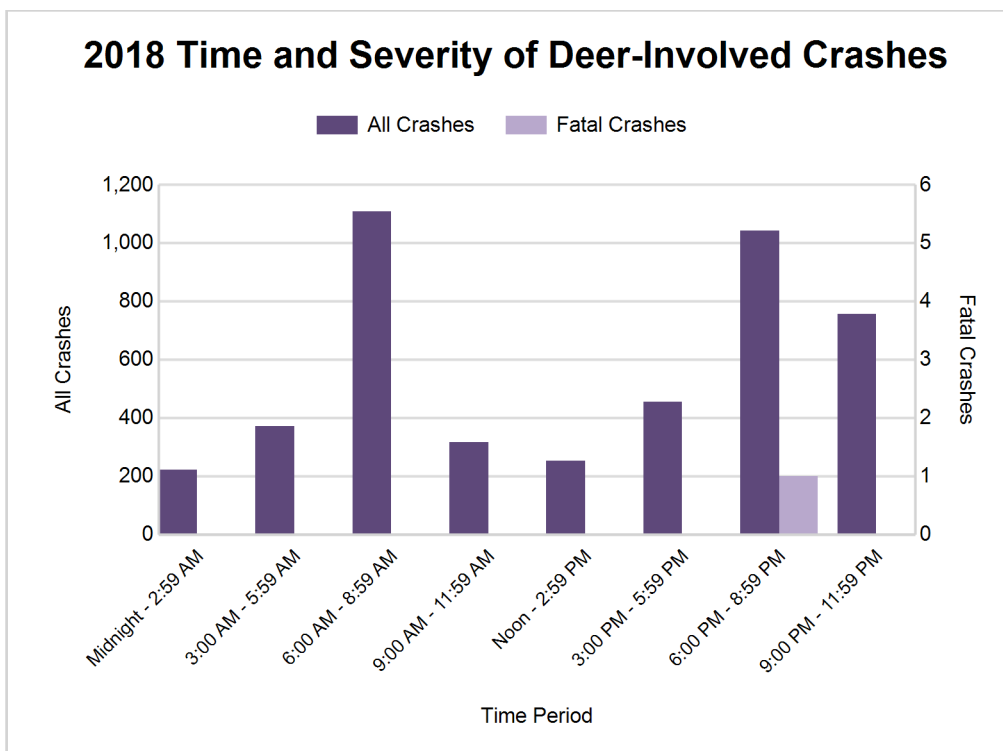


## 5-Year Trend - Deer-Involved Crashes by Time of Day

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	226	0	204	0	172	1	192	0	221	0
3:00 AM - 5:59 AM	291	0	284	0	308	0	350	0	371	0
6:00 AM - 8:59 AM	793	0	872	0	904	0	1,113	0	1,107	0
9:00 AM - 11:59 AM	271	0	263	0	263	0	296	0	316	0
Noon - 2:59 PM	210	0	191	0	158	0	224	0	251	0
3:00 PM - 5:59 PM	351	0	324	0	315	0	454	0	455	0
6:00 PM - 8:59 PM	868	0	801	0	844	0	954	1	1,041	1
9:00 PM - 11:59 PM	724	0	652	0	645	1	810	0	756	0
Unknown	1	0	0	0	0	0	0	0	1	0
<b>Total</b>	<b>3,735</b>	<b>0</b>	<b>3,591</b>	<b>0</b>	<b>3,609</b>	<b>2</b>	<b>4,393</b>	<b>1</b>	<b>4,519</b>	<b>1</b>

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





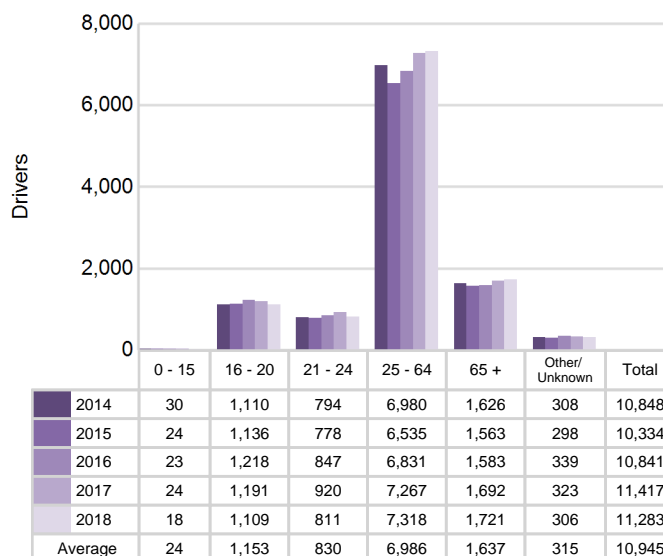
### 2018 - Reported Motor Vehicle Crashes by County

County	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Alcona	587	0	50	537	0	114	138	335	10	7	434	0	66
Alpena	857	1	113	743	0	196	199	461	36	18	367	1	133
Charlevoix	1,317	1	124	1,192	0	345	265	700	30	9	729	2	162
Cheboygan	1,081	1	129	951	248	58	262	507	22	3	579	1	164
Crawford	592	2	92	498	181	24	157	227	22	7	288	2	113
Emmet	1,533	3	179	1,351	3	512	155	859	61	16	625	4	238
Montmorency	335	1	34	300	0	0	162	173	13	4	205	1	53
Oscoda	245	2	30	213	0	0	136	108	7	2	133	2	48
Otsego	919	1	109	809	189	0	270	458	41	14	342	1	151
Presque Isle	659	1	41	617	0	122	230	306	15	3	507	1	56
Roscommon	799	3	141	655	125	90	228	352	31	5	310	3	223
<b>Total</b>	<b>8,924</b>	<b>16</b>	<b>1,042</b>	<b>7,866</b>	<b>746</b>	<b>1,461</b>	<b>2,202</b>	<b>4,486</b>	<b>288</b>	<b>88</b>	<b>4,519</b>	<b>18</b>	<b>1,407</b>

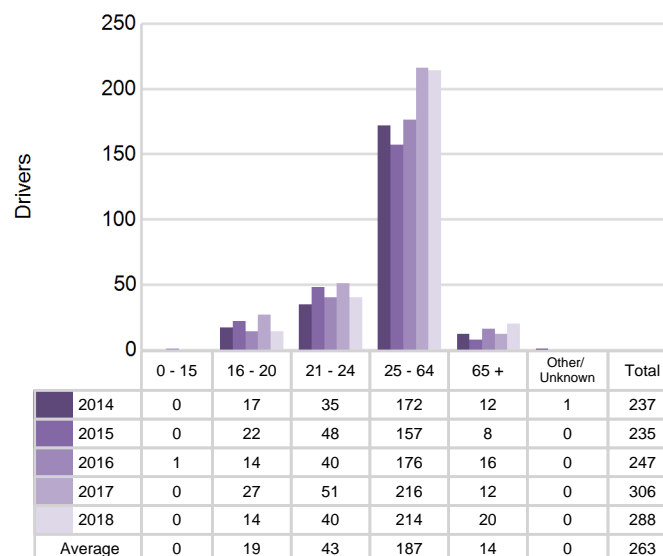
## 5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

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	30	0	24	0	23	1	24	0	18	0
16 - 20	1,110	17	1,136	22	1,218	14	1,191	27	1,109	14
21 - 24	794	35	778	48	847	40	920	51	811	40
25 - 64	6,980	172	6,535	157	6,831	176	7,267	216	7,318	214
65 +	1,626	12	1,563	8	1,583	16	1,692	12	1,721	20
Unknown	308	1	298	0	339	0	323	0	306	0
<b>Total</b>	<b>10,848</b>	<b>237</b>	<b>10,334</b>	<b>235</b>	<b>10,841</b>	<b>247</b>	<b>11,417</b>	<b>306</b>	<b>11,283</b>	<b>288</b>

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

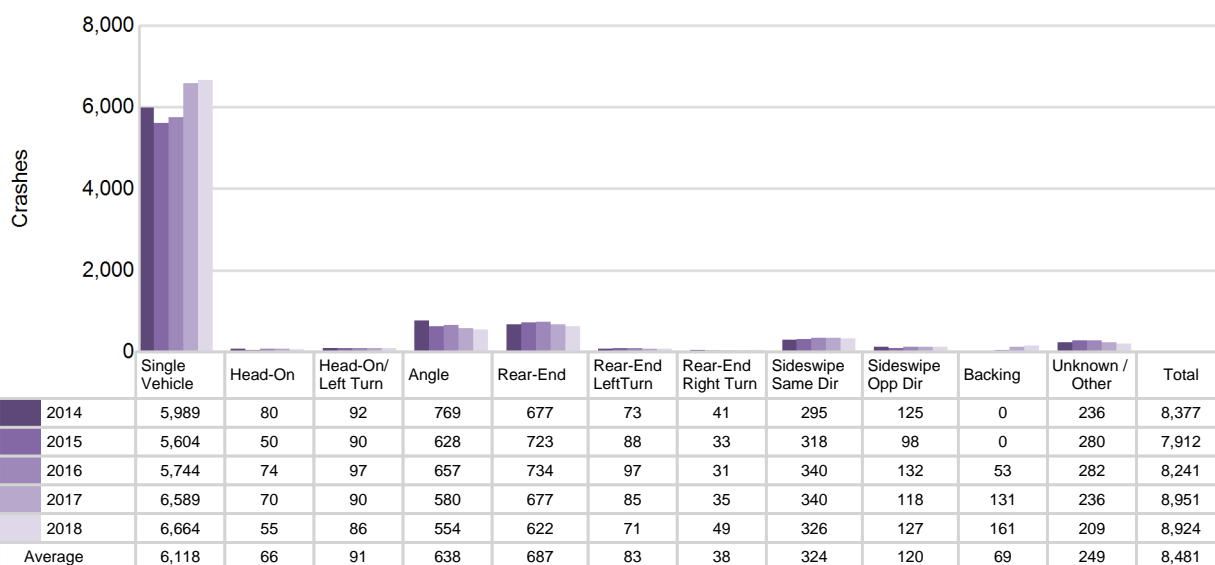


**5-Year Trend  
Total Drivers Coded Drinking by Age**



## 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	5,989	14	5,604	13	5,744	18	6,589	19	6,664	10
Head-on	80	4	50	3	74	5	70	4	55	1
Head-on / left turn	92	2	90	0	97	1	90	2	86	0
Angle	769	2	628	0	657	4	580	3	554	1
Rear-end	677	0	723	1	734	0	677	0	622	1
Rear-end left turn	73	0	88	0	97	0	85	0	71	0
Rear-end right turn	41	0	33	0	31	0	35	0	49	0
Sideswipe same direction	295	0	318	0	340	0	340	0	326	0
Sideswipe opposite direction	125	0	98	2	132	1	118	0	127	0
Backing	0	0	0	0	53	0	131	0	161	0
Other / Unknown	236	1	280	0	282	0	236	0	209	3
Uncoded and Errors	0	0	0	0	11	0	0	0	0	0
<b>Total</b>	<b>8,377</b>	<b>23</b>	<b>7,912</b>	<b>19</b>	<b>8,252</b>	<b>29</b>	<b>8,951</b>	<b>28</b>	<b>8,924</b>	<b>16</b>

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	2	0	0	0	0	0	0	0
16 - 20	22	18	14	14	0	4	2	7	1
21 - 24	44	41	32	40	0	4	9	13	14
25 - 64	254	218	174	214	1	19	44	53	97
65 +	29	25	20	20	0	6	5	3	6
Unknown	12	0	0	0	0	0	0	0	0
<b>Total</b>	<b>361</b>	<b>304</b>	<b>240</b>	<b>288</b>	<b>1</b>	<b>33</b>	<b>60</b>	<b>76</b>	<b>118</b>

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 361 drivers in alcohol-involved crashes; 288 (79.8%) of those drivers were coded as had-been-drinking by the officer on the crash form.

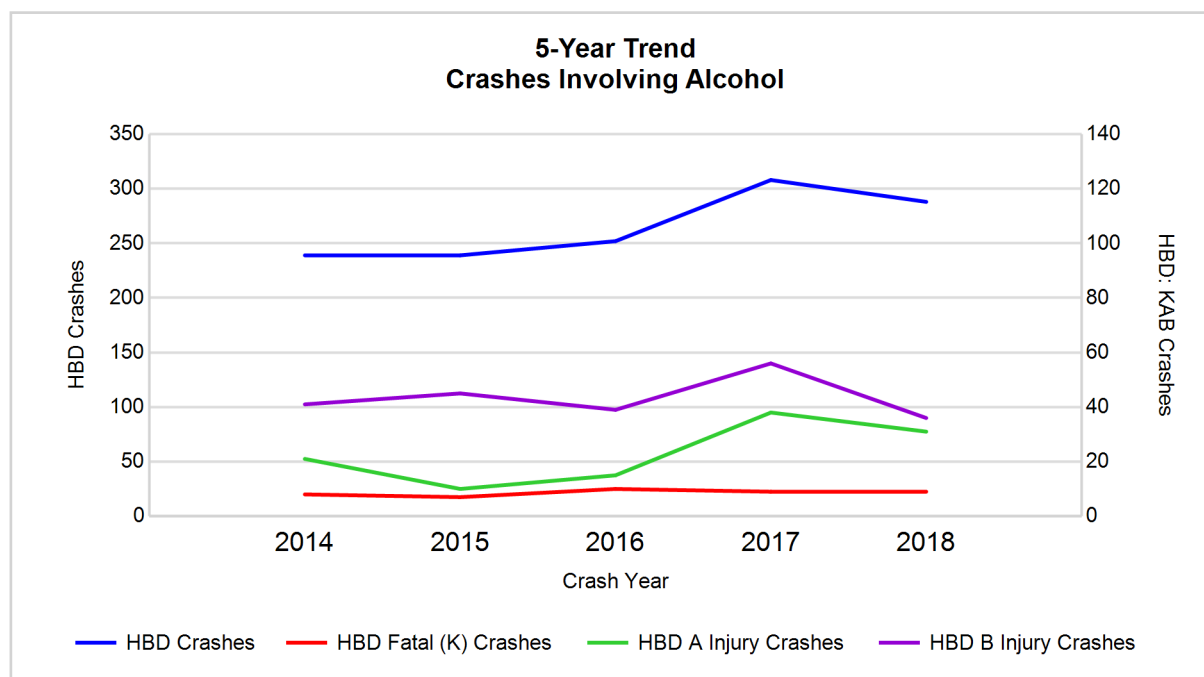
- 136 (47.2%) of the 288 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 76 (55.9%) of the 136 drivers had a BAC at or above 0.17 g/dL.
- 240 (83.3%) of the 288 drivers were coded as had-been-drinking and were tested for alcohol consumption.

## 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
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
2018	8,924	288	3.2	16*	9	56.3**	156	31	19.9	363	36*	9.9*

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



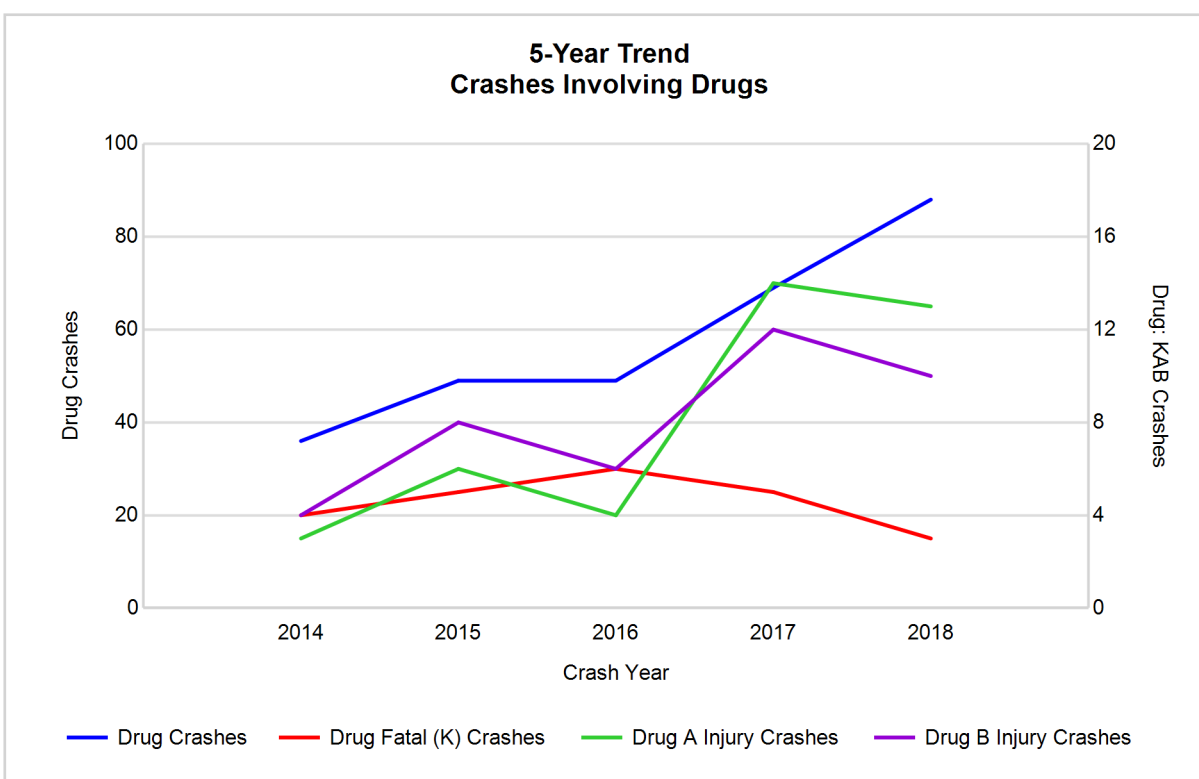
Note: Had-Been-Drinking (HBD)

## 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	8,377	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
2018	8,924	88**	1.0**	16*	3*	18.8	156	13	8.3	363	10	2.8

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

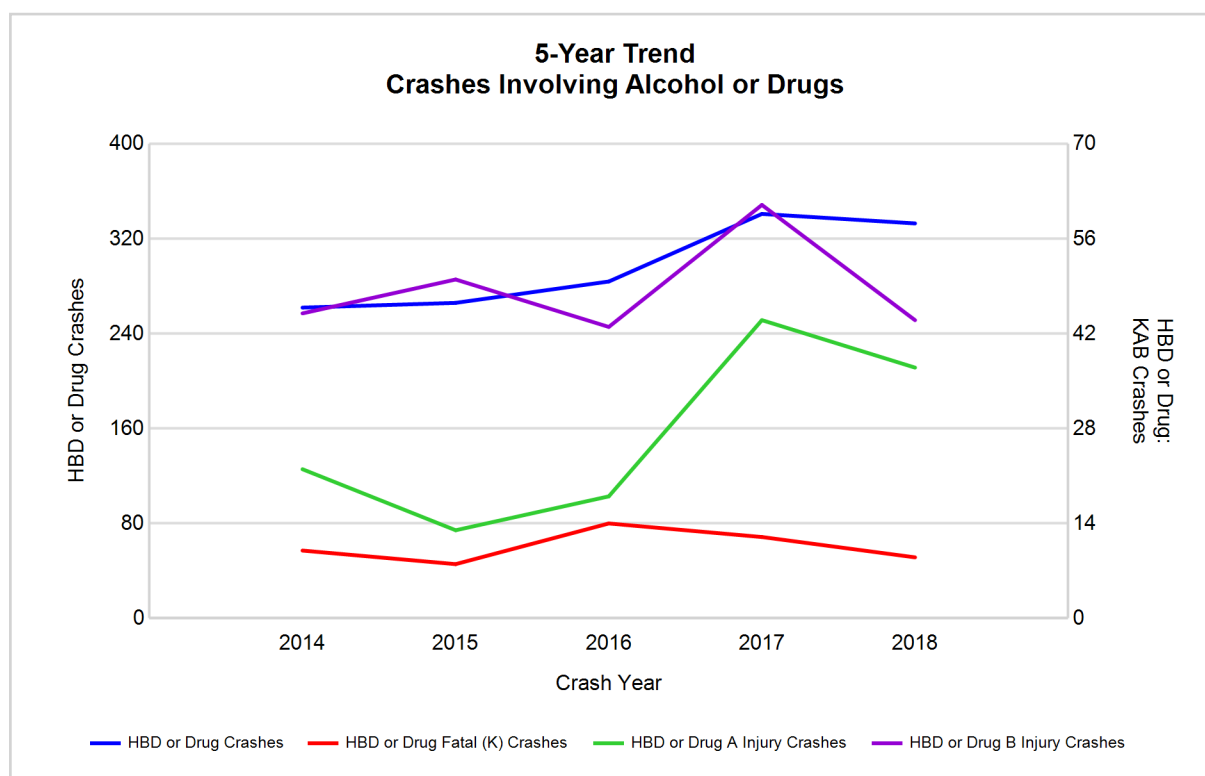


## 5-Year Trend - Crashes Involving Alcohol or Drugs

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	8,377	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
2018	8,924	333	3.7	16*	9	56.3**	156	37	23.7	363	44	12.1

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	8,253	7,860	95.2	13	9	69.2	90	74	82.2	277	254	91.7	563	535	95.0	7,100	6,968	98.1
Motor home	77	69	89.6	0	0	0.0	0	0	0.0	2	1	50.0	6	6	100.0	64	62	96.9
Pickup truck	2,657	2,505	94.3	1	0	0.0	36	26	72.2	81	61	75.3	133	122	91.7	2,353	2,292	97.4
Small truck under 10,000 lbs. GVWR	125	117	93.6	0	0	0.0	2	2	100.0	2	1	50.0	5	5	100.0	112	109	97.3
Motorcycle	95	63	66.3	2	1	50.0	33	19	57.6	34	25	73.5	12	8	66.7	14	10	71.4
Moped / goped	4	3	75.0	0	0	0.0	1	1	100.0	2	1	50.0	1	1	100.0	0	0	0.0
Go-cart / golf cart	2	0	0.0	0	0	0.0	1	0	0.0	1	0	0.0	0	0	0.0	0	0	0.0
Snowmobile	8	8	100.0	0	0	0.0	1	1	100.0	2	2	100.0	3	3	100.0	2	2	100.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	42	20	47.6	1	1	100.0	12	5	41.7	11	7	63.6	10	5	50.0	7	2	28.6
Other	39	32	82.1	0	0	0.0	0	0	0.0	1	1	100.0	1	1	100.0	34	30	88.2
Truck/bus over 10,000 lbs.	274	237	86.5	0	0	0.0	7	3	42.9	19	8	42.1	18	7	38.9	226	219	96.9
Unknown	80	2	2.5	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	8	1	12.5
<b>Total</b>	<b>11,656</b>	<b>10,916</b>	<b>93.7</b>	<b>17</b>	<b>11</b>	<b>64.7</b>	<b>183</b>	<b>131</b>	<b>71.6</b>	<b>432</b>	<b>361</b>	<b>83.6</b>	<b>752</b>	<b>693</b>	<b>92.2</b>	<b>9,920</b>	<b>9,695</b>	<b>97.7</b>

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	116	85	73.3	0	0	0.0	9	6	66.7	32	17	53.1	60	48	80.0	15	14	93.3
16 - 20	1,165	1,120	96.1	0	0	0.0	29	21	72.4	69	61	88.4	111	101	91.0	952	936	98.3
21 - 24	842	795	94.4	5	3	60.0	14	6	42.9	39	28	71.8	49	45	91.8	731	712	97.4
25 - 64	7,456	7,197	96.5	6	4	66.7	102	78	76.5	218	189	86.7	404	375	92.8	6,677	6,530	97.8
65 +	1,771	1,719	97.1	6	4	66.7	29	20	69.0	74	66	89.2	128	124	96.9	1,528	1,503	98.4
Unknown	306	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	17	0	0.0
<b>Total</b>	<b>11,656</b>	<b>10,916</b>	<b>93.7</b>	<b>17</b>	<b>11</b>	<b>64.7</b>	<b>183</b>	<b>131</b>	<b>71.6</b>	<b>432</b>	<b>361</b>	<b>83.6</b>	<b>752</b>	<b>693</b>	<b>92.2</b>	<b>9,920</b>	<b>9,695</b>	<b>97.7</b>

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	69	0	9	40	0	3	36	0	8	40	1	16	14	0	2
Shoulder belt only used	13	0	7	9	0	2	40	0	7	52	0	7	49	0	6
Lap belt only used	15	0	1	19	0	2	13	0	6	11	0	0	15	1	5
Both lap & shoulder belts used	10,036	9	779	9,577	4	797	10,005	9	863	10,591	11	848	10,475	6	818
No belts used	74	3	36	68	4	30	82	4	34	74	4	30	57	4	34
Child restraint used	1	0	0	0	0	0	6	0	0	4	0	0	1	0	0
Child restraint not used, unavailable or improper use	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
Restraint failure	1	0	0	1	0	0	3	0	0	2	0	0	2	0	0
Restraint use unknown	235	2	27	222	4	21	256	1	14	387	0	26	441	0	32
Helmet worn	130	4	94	106	1	75	123	3	95	116	4	84	84	2	68
Helmet not worn	28	1	18	33	1	23	38	3	25	43	3	26	34	1	28
Helmet use unknown	6	0	2	6	0	4	19	3	9	5	2	1	8	0	4
Uncoded & errors	240	0	2	252	0	1	220	0	1	92	0	0	103	0	0
<b>Total</b>	<b>10,848</b>	<b>19</b>	<b>975</b>	<b>10,334</b>	<b>14</b>	<b>959</b>	<b>10,841</b>	<b>23</b>	<b>1,062</b>	<b>11,417</b>	<b>25</b>	<b>1,038</b>	<b>11,283</b>	<b>14</b>	<b>997</b>

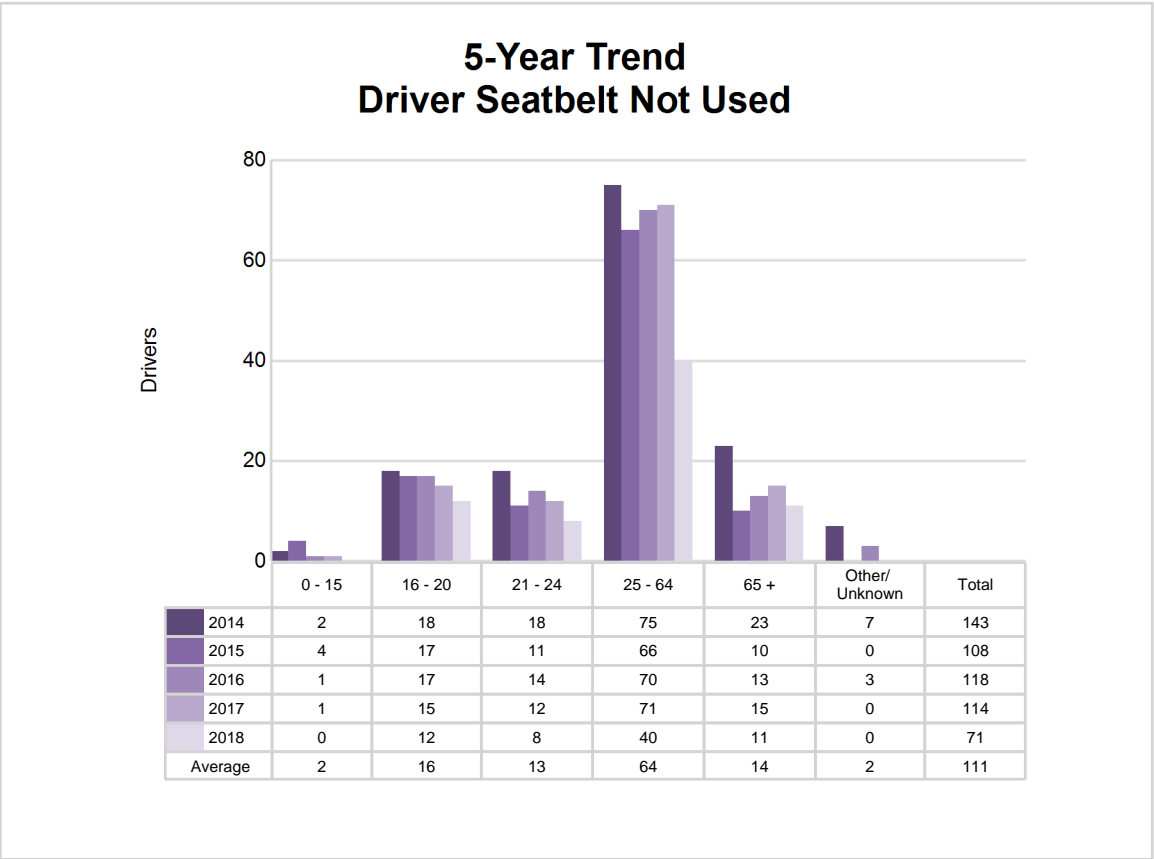
## 5-Year Trend - Restraint Use Among Drivers Coded Drinking

Restraint Use	2014			2015			2016			2017			2018		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	0	0	0	1	0	0	0	0	0	3	0	2	1	0	1
Shoulder belt only used	1	0	1	1	0	0	1	0	1	4	0	2	1	0	0
Lap belt only used	0	0	0	1	0	1	1	0	1	0	0	0	1	1	0
Both lap & shoulder belts used	158	2	48	167	1	56	181	1	41	221	1	56	204	3	52
No belts used	17	2	13	21	3	9	14	2	8	20	4	15	14	2	9
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	44	1	14	38	1	10	32	0	9	38	0	13	49	0	14
Helmet worn	8	2	4	2	1	1	10	1	8	7	1	6	5	1	4
Helmet not worn	7	0	7	4	0	4	7	2	4	10	1	7	11	1	9
Helmet use unknown	1	0	0	0	0	0	1	1	0	3	2	0	1	0	1
Uncoded & errors	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<b>Total</b>	<b>237</b>	<b>7</b>	<b>87</b>	<b>235</b>	<b>6</b>	<b>81</b>	<b>247</b>	<b>7</b>	<b>72</b>	<b>306</b>	<b>9</b>	<b>101</b>	<b>288</b>	<b>8</b>	<b>90</b>

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	4	0	1	1	0	0	1	0	0	0	0	0
16 - 20	18	0	8	17	0	6	17	1	8	15	1	7	12	0	9
21 - 24	18	0	9	11	0	3	14	0	7	12	0	8	8	2	4
25 - 64	75	2	23	66	3	20	70	2	24	71	4	23	40	1	19
65 +	23	1	5	10	1	3	13	1	2	15	0	8	11	1	4
Unknown	7	0	0	0	0	0	3	0	1	0	0	0	0	0	0
Total	143	3	45	108	4	33	118	4	42	114	5	46	71	4	36

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

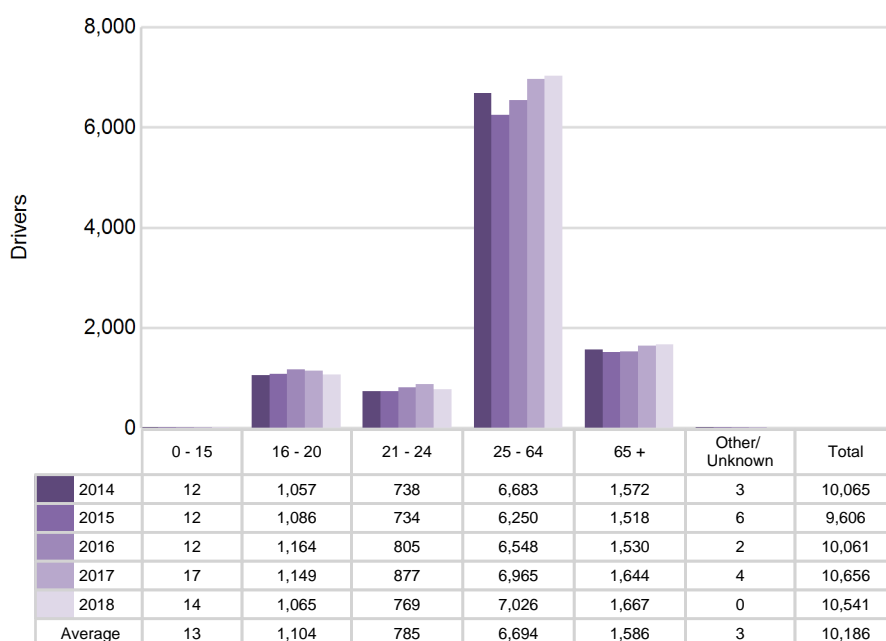


## 5-Year Trend - Seatbelt Used Among Drivers by Age

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	12	0	2	12	0	1	17	0	1	14	0	1
16 - 20	1,057	2	108	1,086	0	133	1,164	2	144	1,149	2	142	1,065	0	130
21 - 24	738	0	57	734	0	73	805	1	72	877	0	92	769	2	56
25 - 64	6,683	4	482	6,250	4	464	6,548	3	516	6,965	5	467	7,026	1	483
65 +	1,572	3	138	1,518	0	128	1,530	3	143	1,644	4	153	1,667	4	159
Unknown	3	0	1	6	0	1	2	0	0	4	0	0	0	0	0
<b>Total</b>	<b>10,065</b>	<b>9</b>	<b>787</b>	<b>9,606</b>	<b>4</b>	<b>801</b>	<b>10,061</b>	<b>9</b>	<b>876</b>	<b>10,656</b>	<b>11</b>	<b>855</b>	<b>10,541</b>	<b>7</b>	<b>829</b>

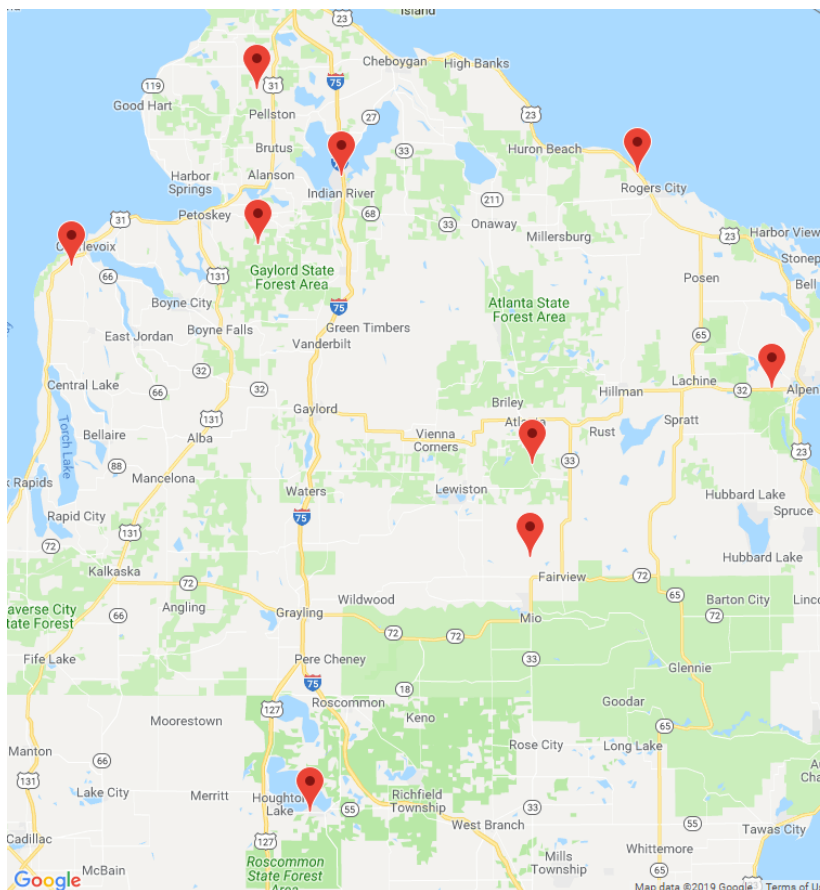
Note: Seatbelt Used includes shoulder belt only used, lap belt only used, both lap and shoulder belts used, and restraint failure.

## 5-Year Trend Driver Seatbelt Used



## 5-Year Trend - Drivers in Crashes by Hazardous Action

Hazardous Action	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	6,525	10	6,364	7	6,602	13	7,228	14	7,313	6
Speed too fast	1,543	14	1,133	10	1,387	11	1,439	9	1,218	4
Speed too slow	11	0	9	0	7	0	9	0	6	0
Failed to yield	689	2	683	0	681	3	655	3	662	2
Disregard traffic control	128	2	106	0	101	1	95	0	95	0
Drove wrong way	7	0	5	0	8	0	4	1	4	0
Drove left of center	48	1	45	2	58	2	56	2	63	0
Improper passing	48	1	43	0	42	0	40	0	44	0
Improper lane use	89	1	106	0	110	0	110	0	96	1
Improper turn	82	0	64	0	77	1	59	0	69	0
Improper/no signal	19	0	15	0	14	0	7	0	8	0
Improper backing	183	0	169	0	165	0	157	0	169	0
Unable to stop in assured clear distance	671	1	743	0	684	0	642	1	595	1
Other	307	0	292	4	348	4	307	1	296	0
Unknown	148	0	134	0	153	3	156	5	176	5
Reckless driving	29	0	62	1	51	0	37	0	48	0
Careless/negligent driving	271	0	297	1	292	2	311	1	332	3
Uncoded & errors	50	0	64	0	61	0	105	0	89	1
<b>Total</b>	<b>10,848</b>	<b>32</b>	<b>10,334</b>	<b>25</b>	<b>10,841</b>	<b>40</b>	<b>11,417</b>	<b>37</b>	<b>11,283</b>	<b>23</b>



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

In 2018, there were 288 alcohol-involved crashes in TSN Northern Lower:

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

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