



2020

**MTCF**  
Michigan Traffic  
Crash Facts

# Michigan Traffic Crash Facts

## Reporting Criteria

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

### Crash

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

Examples: Time, weather, and location.

### Units

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

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

### People

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

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

### **KABCO Injury Indicator:**

K = Killed

A = Suspected Serious Injury

B = Suspected Minor Injury

C = Possible Injury

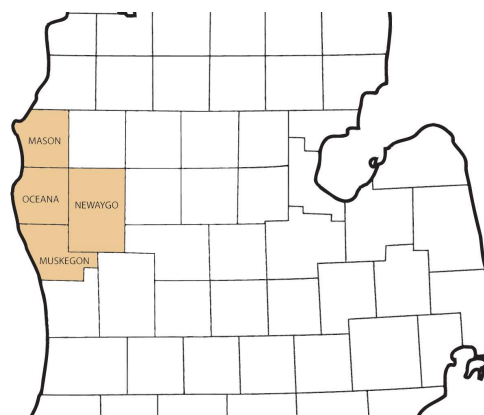
O = No Injury

Property Damage Only (PDO)

## Traffic Safety Network Lakeshore

### 2020 Traffic Crash Data & 2016-2020 5-Year Trends

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



### Sources:

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

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## TSN Lakeshore Experience

In 2020:

There were 11,480 drivers involved in 7,891 motor vehicle crashes in Traffic Safety Network Lakeshore. Of those crashes, 45 were classified as fatal, resulting in 49 fatalities. An additional 1,630 persons were injured.

Traffic Safety Network Lakeshore experienced the highest number of motor vehicle crashes (898) in October, the highest number of fatal crashes (9) and the highest number of persons killed (10) in July.

Michigan driver statistics indicate 5.9 percent of licensed drivers in Traffic Safety Network Lakeshore were age 16-20, and 10.6 percent of drivers in crashes were also in that age group.

## 2020 - Crashes and Injuries by Month

Month	Crashes				Persons	
	Total	Fatal	Injury	Property Damage Only (PDO)	Fatalities	Injuries
January	773	1	106	666	1	144
February	697	3	83	611	3	115
March	397	2	63	332	2	87
April	279	1	37	241	2	44
May	489	2	82	405	2	108
June	724	3	136	585	4	204
July	687	9	153	525	10	222
August	629	7	134	488	8	191
September	696	8	100	588	8	144
October	898	3	115	780	3	145
November	881	4	84	793	4	122
December	741	2	87	652	2	104
<b>Total</b>	<b>7,891</b>	<b>45</b>	<b>1,180</b>	<b>6,666</b>	<b>49</b>	<b>1,630</b>

## 2020 - Driver Statistics

Age Group	Lakeshore			Driver Rates	
	2019 Population*	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	55,238	1,146	35	6.3	305.4
16 - 20	16,137	11,856	1,218	754.8	1,027.3
21 - 24	12,724	11,237	1,000	785.9	889.9
25 - 64	141,094	127,585	7,111	504.0	557.4
65 +	52,964	50,309	1,329	250.9	264.2
Unknown	0	0	787	--	--
<b>Total</b>	<b>278,157</b>	<b>202,133</b>	<b>11,480</b>	<b>412.7</b>	<b>567.9</b>

\*2020 Population of Michigan Counties (by single-year of age) not yet available from U.S. Census Bureau

## 2020 - 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	8,876	77.3	48	64.9	1,486	7,342
Motor home	101	0.9	0	0.0	15	86
Pickup truck	1,761	15.3	10	13.5	252	1,499
Small truck under 10,000 lbs. GVWR	82	0.7	0	0.0	14	68
Motorcycle	146	1.3	11	14.9	110	25
Moped / goped	27	0.2	1	1.4	25	1
Go-cart / golf cart	5	0.0	0	0.0	5	0
Snowmobile	0	0.0	0	0.0	0	0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	13	0.1	0	0.0	12	1
Other	88	0.8	2	2.7	15	71
Truck/bus over 10,000 lbs.	209	1.8	2	2.7	31	176
Unknown	172	1.5	0	0.0	7	165
<b>Total</b>	<b>11,480</b>	<b>100.0</b>	<b>74</b>	<b>100.0</b>	<b>1,972</b>	<b>9,434</b>

# TSN Lakeshore (continued)

## 5-Year Trend - Crashes by Month

Month	2016		2017		2018		2019		2020	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
January	905	1	881	1	866	1	941	4	773	1
February	640	3	539	4	686	2	680	2	697	3
March	632	2	586	1	662	1	696	3	397	2
April	531	3	508	1	675	2	582	2	279	1
May	648	3	656	1	642	1	597	7	489	2
June	704	3	747	2	772	3	702	4	724	3
July	643	4	687	4	719	5	658	5	687	9
August	670	3	667	5	637	6	655	7	629	7
September	681	5	703	4	630	4	649	5	696	8
October	765	3	907	5	868	2	942	5	898	3
November	929	3	911	5	994	2	1,056	3	881	4
December	1,010	1	1,235	5	756	4	870	1	741	2
<b>Total</b>	<b>8,758</b>	<b>34</b>	<b>9,027</b>	<b>38</b>	<b>8,907</b>	<b>33</b>	<b>9,028</b>	<b>48</b>	<b>7,891</b>	<b>45</b>

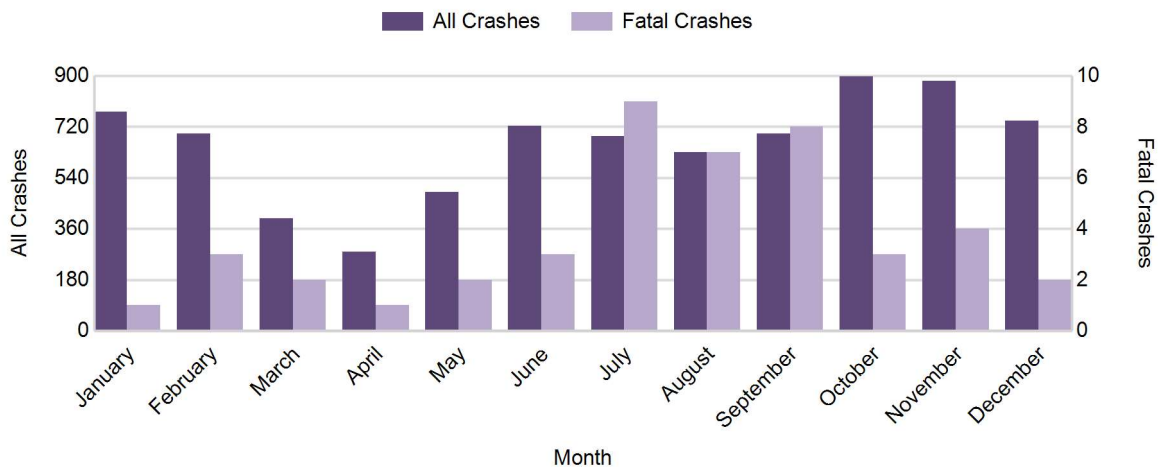
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

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

Day	2016		2017		2018		2019		2020	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Sunday	964	3	1,095	7	949	11	1,058	9	951	9
Monday	1,193	5	1,255	3	1,245	5	1,278	7	1,061	7
Tuesday	1,331	7	1,276	1	1,426	3	1,349	4	1,080	7
Wednesday	1,236	3	1,271	3	1,410	3	1,447	3	1,170	7
Thursday	1,299	6	1,424	10	1,275	1	1,346	6	1,216	4
Friday	1,534	4	1,474	8	1,356	3	1,407	9	1,256	3
Saturday	1,201	6	1,232	6	1,246	7	1,143	10	1,157	8
<b>Total</b>	<b>8,758</b>	<b>34</b>	<b>9,027</b>	<b>38</b>	<b>8,907</b>	<b>33</b>	<b>9,028</b>	<b>48</b>	<b>7,891</b>	<b>45</b>

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

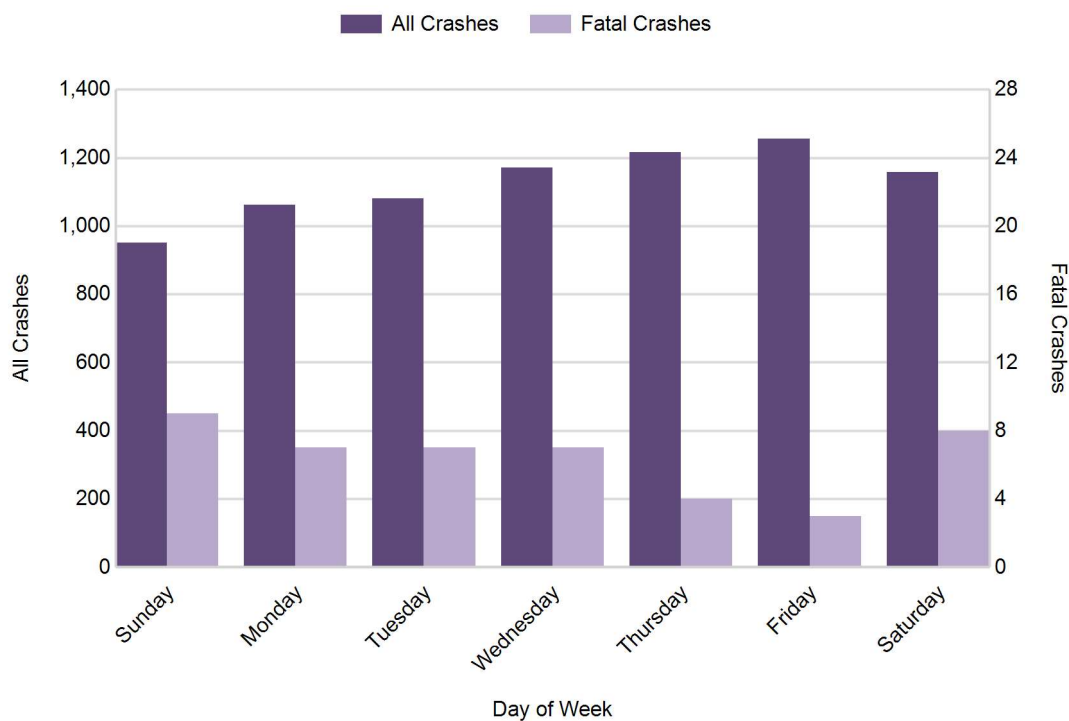
## 2020 Crashes by Month



## 2020 - Crashes by Day of Week

Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Sunday	951	12.1	9	20.0	30	67	57	788
Monday	1,061	13.4	7	15.6	11	49	77	917
Tuesday	1,080	13.7	7	15.6	22	57	80	914
Wednesday	1,170	14.8	7	15.6	23	60	85	995
Thursday	1,216	15.4	4	8.9	22	65	94	1,031
Friday	1,256	15.9	3	6.7	28	91	92	1,042
Saturday	1,157	14.7	8	17.8	29	82	59	979
<b>Total</b>	<b>7,891</b>	<b>100.0</b>	<b>45</b>	<b>100.0</b>	<b>165</b>	<b>471</b>	<b>544</b>	<b>6,666</b>

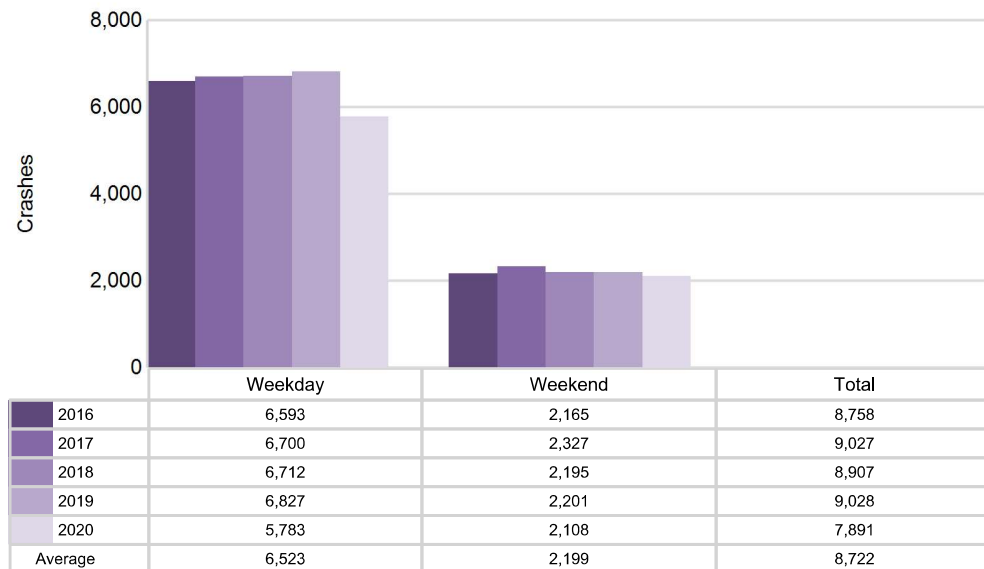
## 2020 Day of Week and Severity



## 5-Year Trend - Crashes by Weekday and Weekend

Portion of Week	2016		2017		2018		2019		2020	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Weekday	6,593	25	6,700	25	6,712	15	6,827	29	5,783	28
Weekend	2,165	9	2,327	13	2,195	18	2,201	19	2,108	17
<b>Total</b>	<b>8,758</b>	<b>34</b>	<b>9,027</b>	<b>38</b>	<b>8,907</b>	<b>33</b>	<b>9,028</b>	<b>48</b>	<b>7,891</b>	<b>45</b>

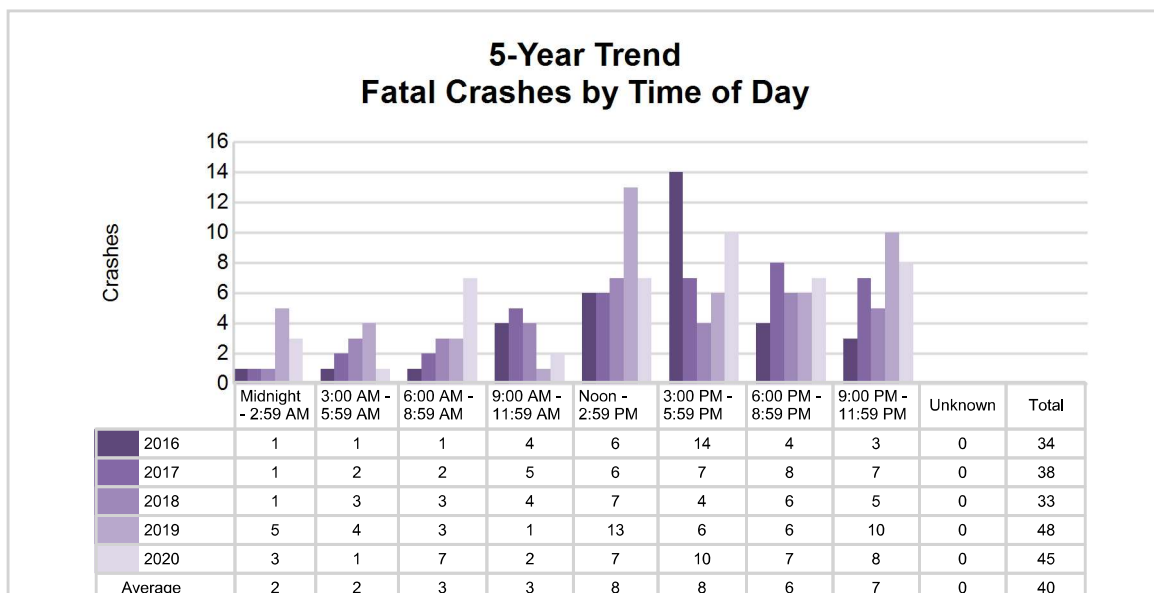
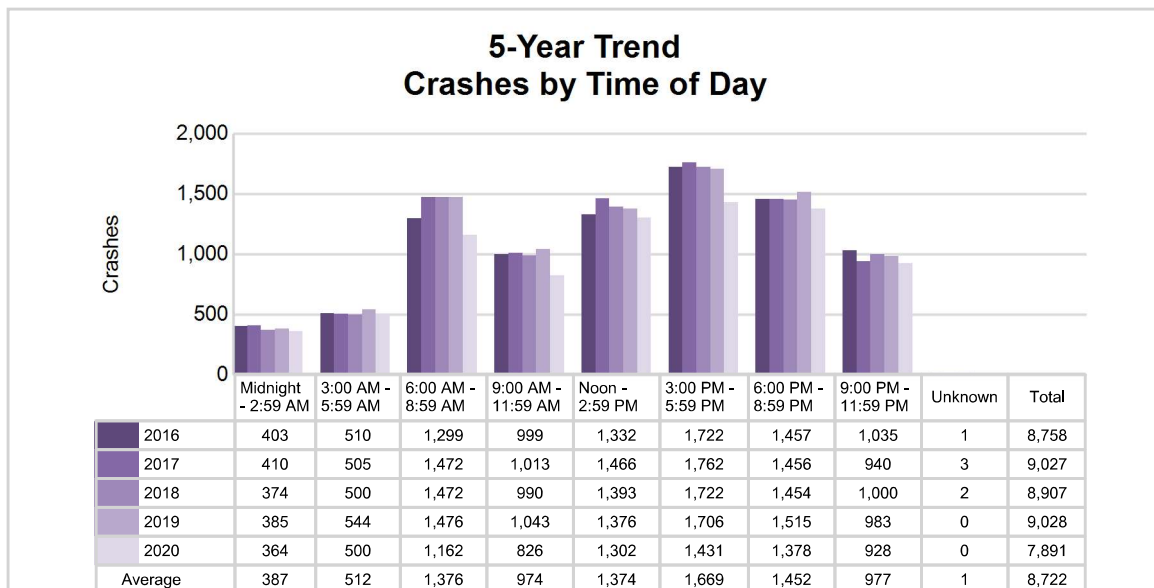
### 5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



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

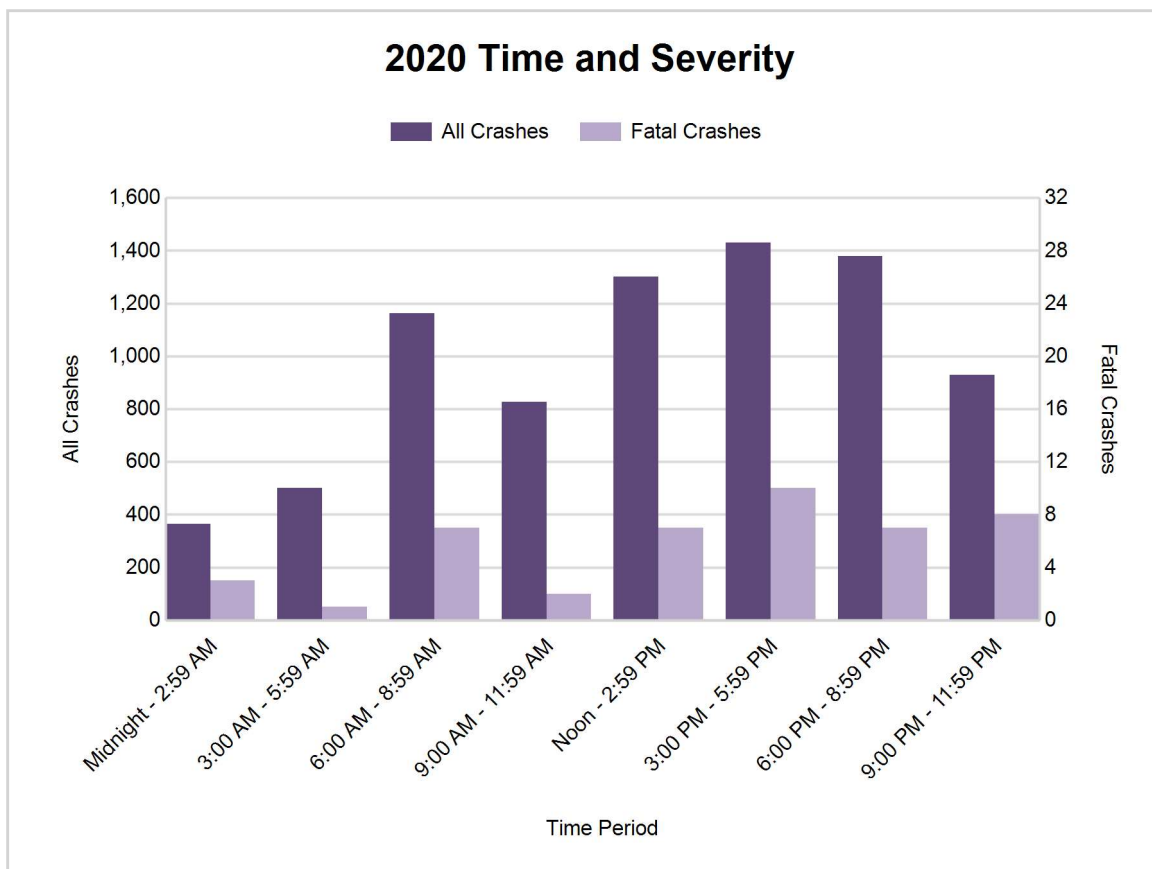
Time of Day	2016		2017		2018		2019		2020	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	403	1	410	1	374	1	385	5	364	3
3:00 AM - 5:59 AM	510	1	505	2	500	3	544	4	500	1
6:00 AM - 8:59 AM	1,299	1	1,472	2	1,472	3	1,476	3	1,162	7
9:00 AM - 11:59 AM	999	4	1,013	5	990	4	1,043	1	826	2
Noon - 2:59 PM	1,332	6	1,466	6	1,393	7	1,376	13	1,302	7
3:00 PM - 5:59 PM	1,722 †	14	1,762 †	7	1,722 †	4	1,706 †	6	1,431 †	10
6:00 PM - 8:59 PM	1,457	4	1,456	8	1,454	6	1,515	6	1,378	7
9:00 PM - 11:59 PM	1,035	3	940	7	1,000	5	983	10	928	8
Unknown	1	0	3	0	2	0	0	0	0	0
<b>Total</b>	<b>8,758</b>	<b>34</b>	<b>9,027</b>	<b>38</b>	<b>8,907</b>	<b>33</b>	<b>9,028</b>	<b>48</b>	<b>7,891</b>	<b>45</b>

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



## 2020 - 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	364	4.6	3	6.7	15	21	19	306
3:00 AM - 5:59 AM	500	6.3	1	2.2	7	27	14	451
6:00 AM - 8:59 AM	1,162	14.7	7	15.6	13	22	56	1,064
9:00 AM - 11:59 AM	826	10.5	2	4.4	13	60	82	669
Noon - 2:59 PM	1,302	16.5	7	15.6	31	106	136	1,022
3:00 PM - 5:59 PM	1,431	18.1	10	22.2	42	114	124	1,141
6:00 PM - 8:59 PM	1,378	17.5	7	15.6	28	74	66	1,203
9:00 PM - 11:59 PM	928	11.8	8	17.8	16	47	47	810
Unknown	0	0.0	0	0.0	0	0	0	0
<b>Total</b>	<b>7,891</b>	<b>100.0</b>	<b>45</b>	<b>100.0</b>	<b>165</b>	<b>471</b>	<b>544</b>	<b>6,666</b>

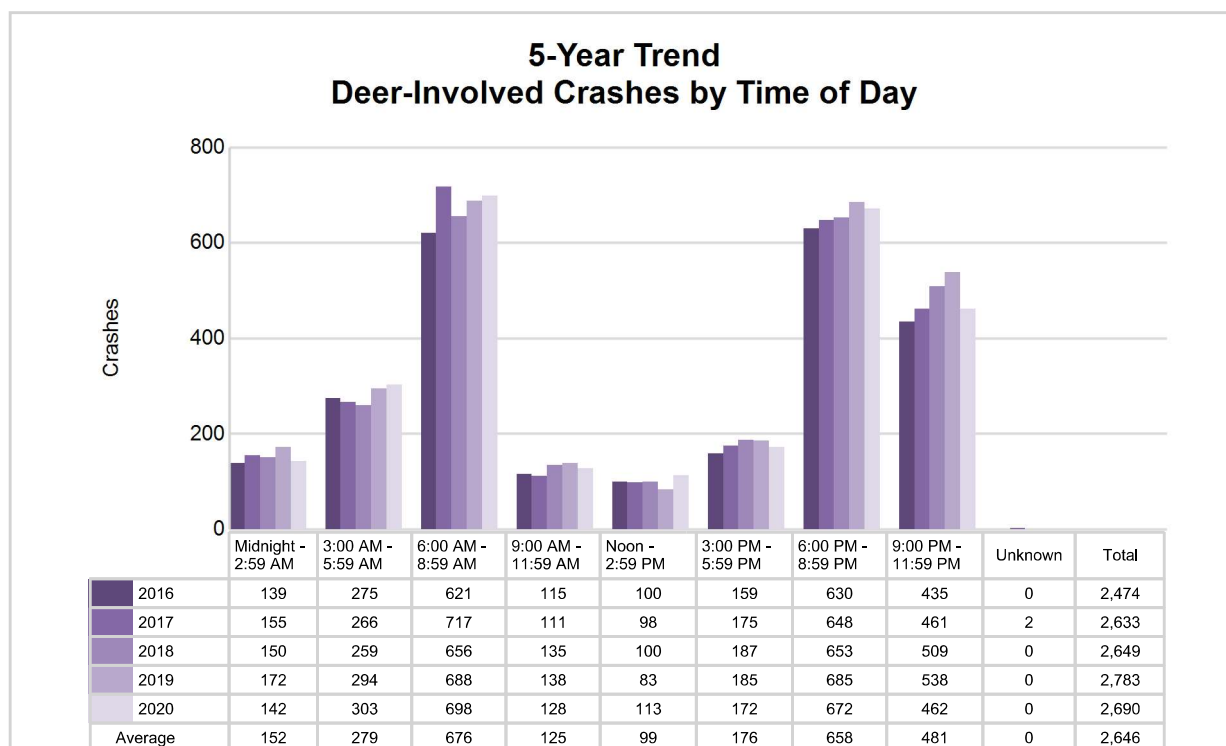


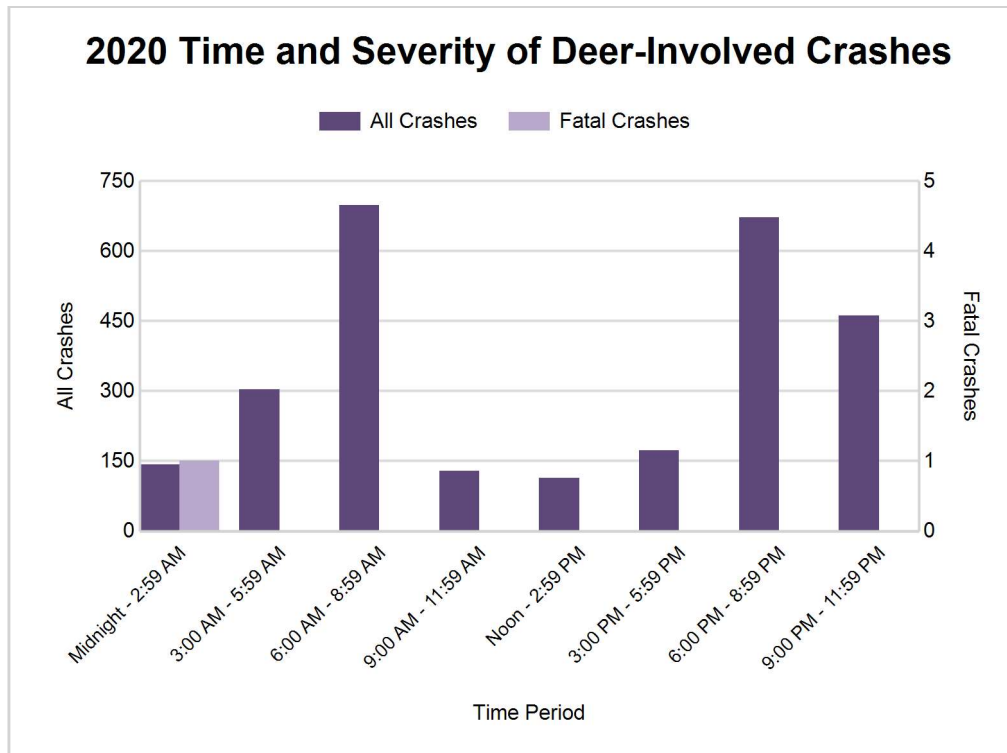


## 5-Year Trend - Deer-Involved Crashes by Time of Day

Time of Day	2016		2017		2018		2019		2020	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	139	0	155	0	150	0	172	0	142	1
3:00 AM - 5:59 AM	275	0	266	0	259	1	294	0	303	0
6:00 AM - 8:59 AM	621	0	717	0	656	1	688	0	698	0
9:00 AM - 11:59 AM	115	0	111	0	135	0	138	0	128	0
Noon - 2:59 PM	100	1	98	0	100	0	83	0	113	0
3:00 PM - 5:59 PM	159	0	175	0	187	0	185	1	172	0
6:00 PM - 8:59 PM	630	0	648	1	653	0	685	0	672	0
9:00 PM - 11:59 PM	435	0	461	0	509	0	538	0	462	0
Unknown	0	0	2	0	0	0	0	0	0	0
<b>Total</b>	<b>2,474</b>	<b>1</b>	<b>2,633</b>	<b>1</b>	<b>2,649</b>	<b>2</b>	<b>2,783</b>	<b>1</b>	<b>2,690</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





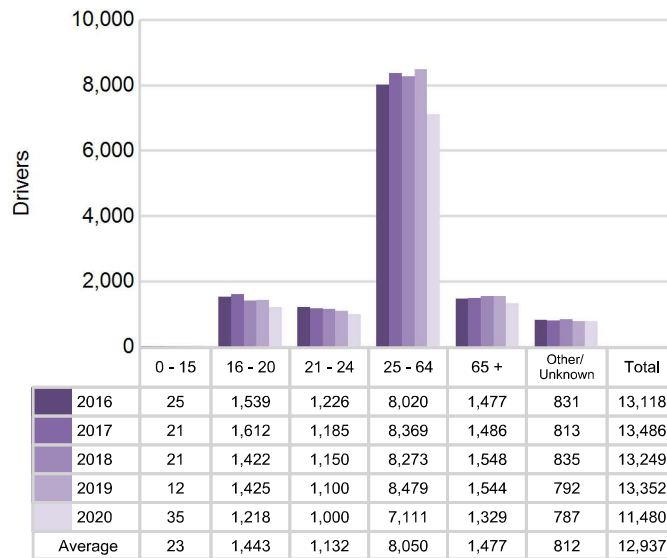
#### 2020 - Reported Motor Vehicle Crashes by County

County	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Mason	1,178	5	106	1,067	0	446	31	700	25	10	706	5	149
Muskegon	4,242	23	738	3,481	52	822	464	2,894	188	80	662	23	1,025
Newaygo	1,500	13	218	1,269	0	0	503	997	67	23	721	16	305
Oceana	971	4	118	849	0	222	115	633	36	6	601	5	151
<b>Total</b>	<b>7,891</b>	<b>45</b>	<b>1,180</b>	<b>6,666</b>	<b>52</b>	<b>1,490</b>	<b>1,113</b>	<b>5,224</b>	<b>316</b>	<b>119</b>	<b>2,690</b>	<b>49</b>	<b>1,630</b>

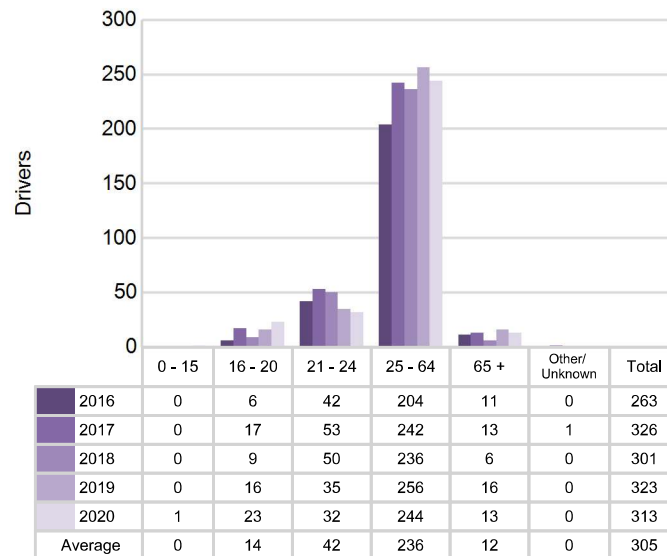
## 5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

Driver Age	2016		2017		2018		2019		2020	
	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	25	0	21	0	21	0	12	0	35	1
16 - 20	1,539	6	1,612	17	1,422	9	1,425	16	1,218	23
21 - 24	1,226	42	1,185	53	1,150	50	1,100	35	1,000	32
25 - 64	8,020	204	8,369	242	8,273	236	8,479	256	7,111	244
65 +	1,477	11	1,486	13	1,548	6	1,544	16	1,329	13
Unknown	831	0	813	1	835	0	792	0	787	0
<b>Total</b>	<b>13,118</b>	<b>263</b>	<b>13,486</b>	<b>326</b>	<b>13,249</b>	<b>301</b>	<b>13,352</b>	<b>323</b>	<b>11,480</b>	<b>313</b>

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

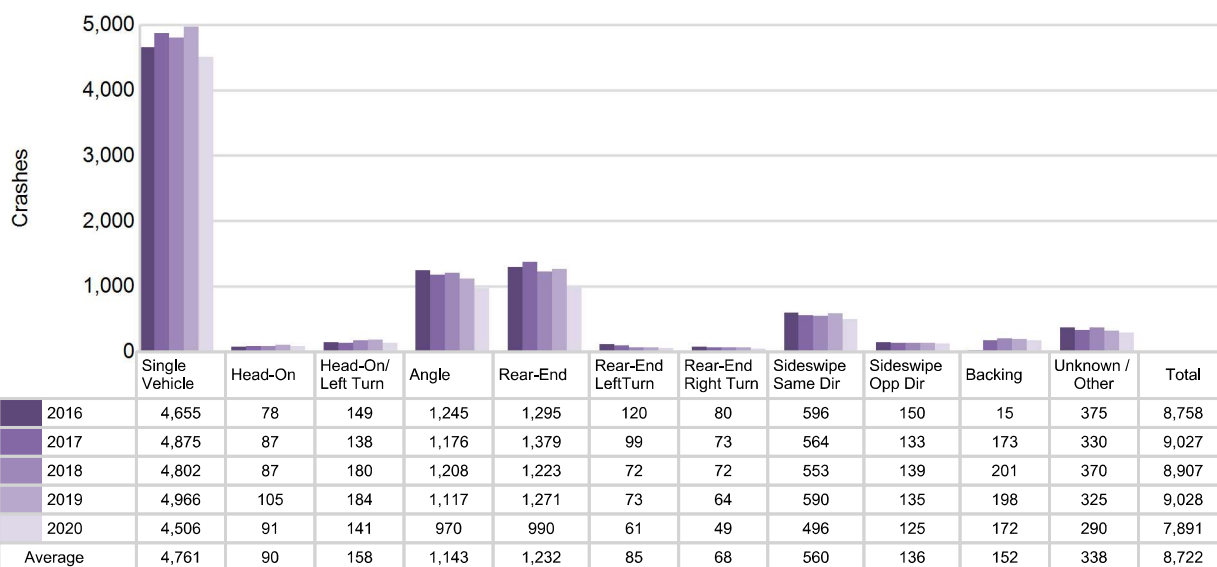


### 5-Year Trend Total Drivers Coded Drinking by Age



## 5-Year Trend - Crashes by Crash Type

Crash Type	2016		2017		2018		2019		2020	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Single motor vehicle	4,655	14	4,875	20	4,802	16	4,966	27	4,506	23
Head-on	78	4	87	4	87	4	105	4	91	3
Head-on / left turn	149	1	138	0	180	3	184	2	141	6
Angle	1,245	13	1,176	9	1,208	5	1,117	8	970	7
Rear-end	1,295	1	1,379	2	1,223	4	1,271	5	990	4
Rear-end left turn	120	1	99	0	72	0	73	0	61	0
Rear-end right turn	80	0	73	0	72	0	64	0	49	0
Sideswipe same direction	596	0	564	0	553	0	590	0	496	0
Sideswipe opposite direction	150	0	133	1	139	0	135	0	125	2
Backing	15	0	173	0	201	0	198	0	172	0
Other / Unknown	375	0	330	2	370	1	325	2	290	0
Uncoded and Errors	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>8,758</b>	<b>34</b>	<b>9,027</b>	<b>38</b>	<b>8,907</b>	<b>33</b>	<b>9,028</b>	<b>48</b>	<b>7,891</b>	<b>45</b>

5-Year Trend  
Crashes by Crash Type

## 2020 - 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	2	0	0	1	0	0	0	0	1
16 - 20	34	30	19	23	1	0	8	3	11
21 - 24	38	37	28	32	0	2	12	7	11
25 - 64	316	264	193	244	0	11	46	55	132
65 +	18	20	11	13	0	1	5	3	4
Unknown	27	0	0	0	0	0	0	0	0
<b>Total</b>	<b>435</b>	<b>351</b>	<b>251</b>	<b>313</b>	<b>1</b>	<b>14</b>	<b>71</b>	<b>68</b>	<b>159</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 2020, there were 435 drivers in alcohol-involved crashes; 313 (72.0%) of those drivers were coded as had-been-drinking by the officer on the crash form.

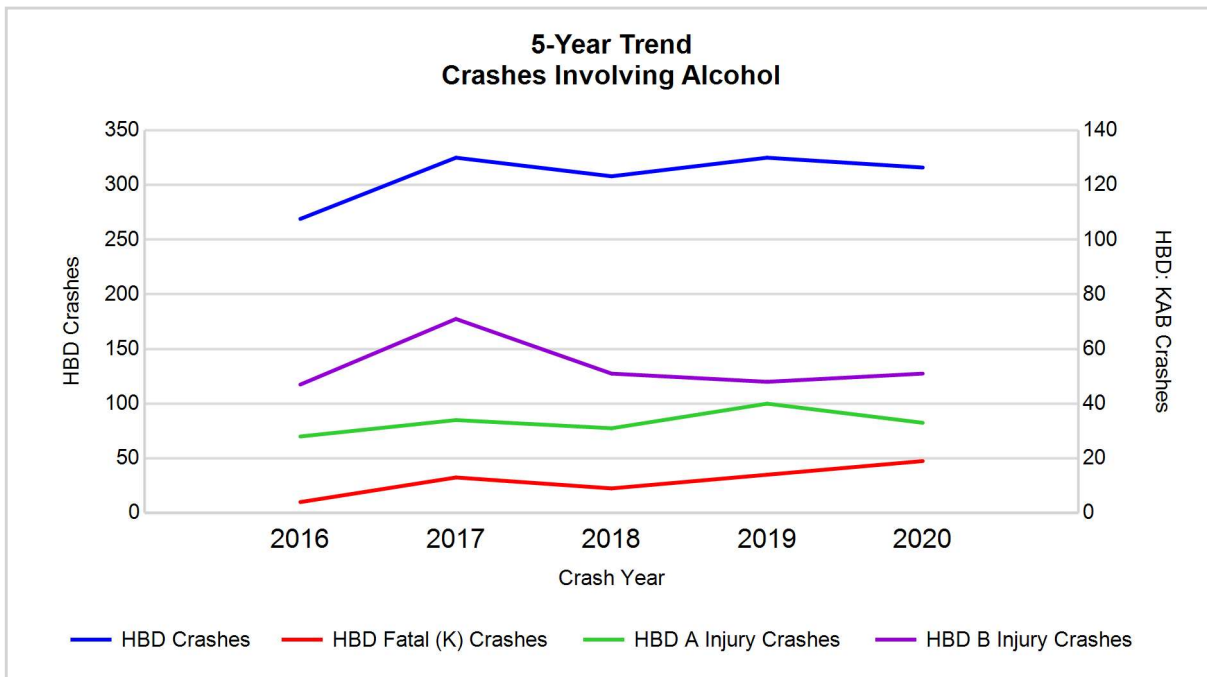
- 139 (44.4%) of the 313 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 68 (48.9%) of the 139 drivers had a BAC at or above 0.17 g/dL.
- 251 (80.2%) of the 313 drivers were coded as had-been-drinking and were tested for alcohol consumption.

## 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
2016	8,758	269	3.1	34	4	11.8	172	28	16.3	452	47	10.4
2017	9,027	325	3.6	38	13	34.2	182	34	18.7	514	71	13.8
2018	8,907	308	3.5	33	9	27.3	181	31	17.1	489	51	10.4
2019	9,028	325	3.6	48	14	29.2	167	40	24.0	494	48	9.7
2020	7,891*	316	4.0**	45	19**	42.2**	165*	33	20.0	471	51	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



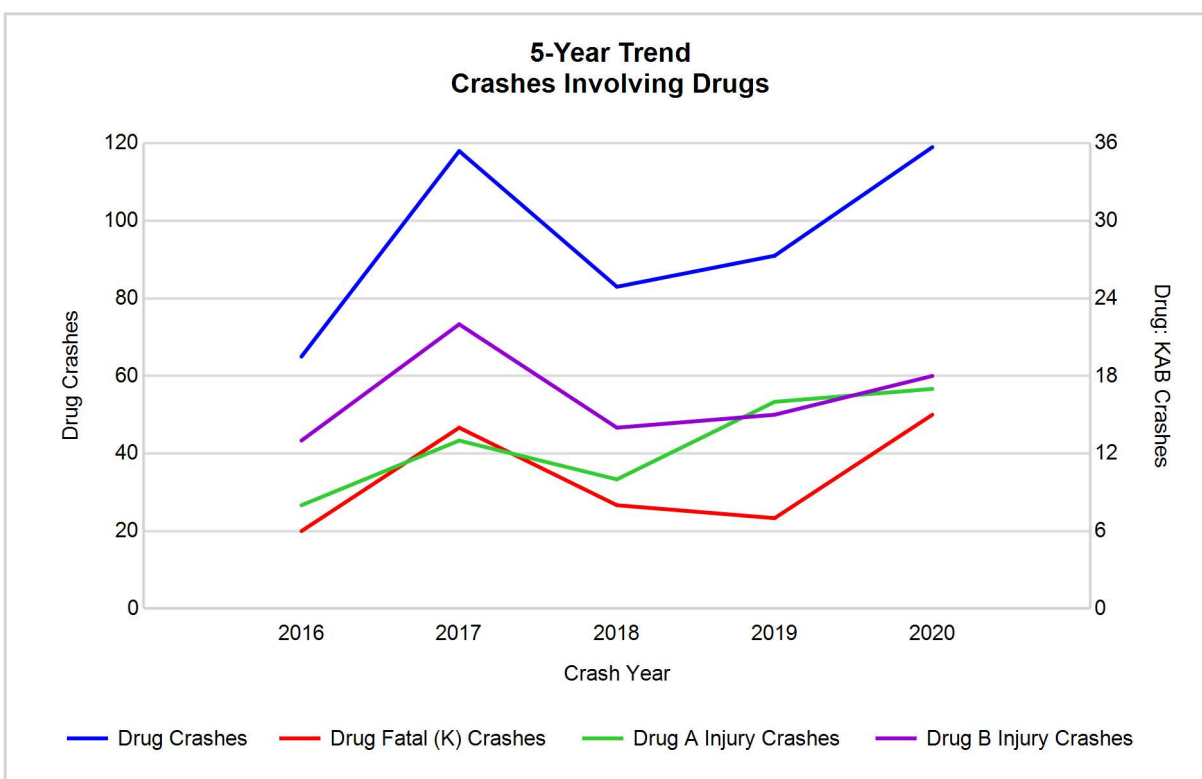
Note: Had-Been-Drinking (HBD)

## 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
2016	8,758	65	0.7	34	6	17.6	172	8	4.7	452	13	2.9
2017	9,027	118	1.3	38	14	36.8	182	13	7.1	514	22	4.3
2018	8,907	83	0.9	33	8	24.2	181	10	5.5	489	14	2.9
2019	9,028	91	1.0	48	7	14.6	167	16	9.6	494	15	3.0
2020	7,891*	119**	1.5**	45	15**	33.3	165*	17**	10.3**	471	18	3.8

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

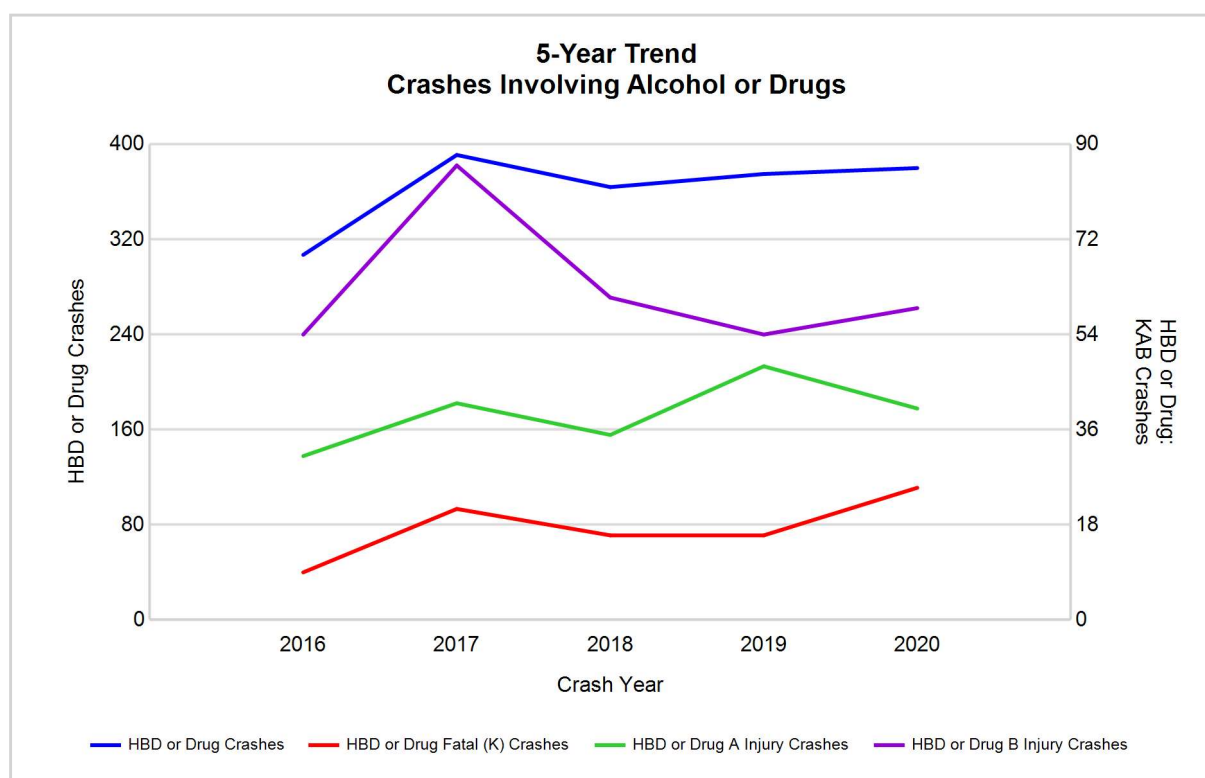


## 5-Year Trend - Crashes Involving Alcohol or Drugs

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
2016	8,758	307	3.5	34	9	26.5	172	31	18.0	452	54	11.9
2017	9,027	391	4.3	38	21	55.3	182	41	22.5	514	86	16.7
2018	8,907	364	4.1	33	16	48.5	181	35	19.3	489	61	12.5
2019	9,028	375	4.2	48	16	33.3	167	48	28.7	494	54	10.9
2020	7,891*	380	4.8**	45	25**	55.6**	165*	40	24.2	471	59	12.5

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

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



Note: Had-Been-Drinking (HBD)

## 2020 - 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	9,208	8,038	87.3	26	12	46.2	125	88	70.4	440	382	86.8	635	590	92.9	7,660	6,966	90.9
Motor home	105	87	82.9	0	0	0.0	1	1	100.0	6	5	83.3	2	2	100.0	87	79	90.8
Pickup truck	1,804	1,643	91.1	4	2	50.0	17	11	64.7	75	64	85.3	90	82	91.1	1,569	1,484	94.6
Small truck under 10,000 lbs. GVWR	82	69	84.1	0	0	0.0	3	3	100.0	0	0	0.0	3	3	100.0	73	63	86.3
Motorcycle	164	98	59.8	12	9	75.0	35	15	42.9	63	45	71.4	23	15	65.2	31	14	45.2
Moped / goped	29	2	6.9	1	0	0.0	7	1	14.3	11	1	9.1	9	0	0.0	1	0	0.0
Go-cart / golf cart	8	2	25.0	0	0	0.0	2	0	0.0	3	1	33.3	1	0	0.0	2	1	50.0
Snowmobile	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	17	10	58.8	0	0	0.0	4	4	100.0	5	3	60.0	5	2	40.0	3	1	33.3
Other	89	51	57.3	0	0	0.0	0	0	0.0	2	1	50.0	5	1	20.0	77	49	63.6
Truck/bus over 10,000 lbs.	212	202	95.3	0	0	0.0	1	1	100.0	6	5	83.3	5	3	60.0	197	193	98.0
Unknown	172	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	27	0	0.0
<b>Total</b>	<b>11,890</b>	<b>10,202</b>	<b>85.8</b>	<b>43</b>	<b>23</b>	<b>53.5</b>	<b>195</b>	<b>124</b>	<b>63.6</b>	<b>611</b>	<b>507</b>	<b>83.0</b>	<b>778</b>	<b>698</b>	<b>89.7</b>	<b>9,727</b>	<b>8,850</b>	<b>91.0</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.

## 2020 - 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	145	108	74.5	1	1	100.0	6	2	33.3	61	48	78.7	59	44	74.6	18	13	72.2
16 - 20	1,282	1,162	90.6	3	1	33.3	24	15	62.5	84	68	81.0	105	100	95.2	1,065	978	91.8
21 - 24	1,030	948	92.0	2	0	0.0	12	9	75.0	61	53	86.9	69	61	88.4	881	825	93.6
25 - 64	7,266	6,675	91.9	29	15	51.7	123	69	56.1	334	273	81.7	429	385	89.7	6,318	5,933	93.9
65 +	1,379	1,308	94.9	8	6	75.0	30	29	96.7	71	65	91.5	113	107	94.7	1,156	1,101	95.2
Unknown	788	1	0.1	0	0	0.0	0	0	0.0	0	0	0.0	3	1	33.3	289	0	0.0
<b>Total</b>	<b>11,890</b>	<b>10,202</b>	<b>85.8</b>	<b>43</b>	<b>23</b>	<b>53.5</b>	<b>195</b>	<b>124</b>	<b>63.6</b>	<b>611</b>	<b>507</b>	<b>83.0</b>	<b>778</b>	<b>698</b>	<b>89.7</b>	<b>9,727</b>	<b>8,850</b>	<b>91.0</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	2016			2017			2018			2019			2020		
	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	79	1	4	27	0	9	27	0	7	33	0	8	32	0	3
Shoulder belt only used	71	0	4	114	0	16	87	0	8	92	0	6	82	0	10
Lap belt only used	23	0	1	26	0	4	20	0	5	15	0	3	13	0	1
Both lap & shoulder belts used	11,459	9	1,117	11,729	17	1,134	11,461	6	1,172	11,513	18	1,025	9,682	9	923
No belts used	96	5	40	108	7	58	82	7	45	77	5	45	91	9	48
Child restraint used	4	0	1	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	3	0	0	1	0	1	1	0	0	5	0	1	3	0	1
Restraint use unknown	622	2	63	1,278	4	57	1,390	0	70	1,439	3	73	1,397	3	61
Helmet worn	90	3	63	82	3	50	101	6	68	85	3	63	90	7	69
Helmet not worn	70	2	54	50	1	38	56	3	47	67	6	46	83	3	64
Helmet use unknown	14	0	8	5	0	4	8	0	5	10	0	7	7	1	5
Uncoded & errors	587	0	0	66	0	0	16	0	0	16	0	0	0	0	0
<b>Total</b>	<b>13,118</b>	<b>22</b>	<b>1,355</b>	<b>13,486</b>	<b>32</b>	<b>1,371</b>	<b>13,249</b>	<b>22</b>	<b>1,427</b>	<b>13,352</b>	<b>35</b>	<b>1,277</b>	<b>11,480</b>	<b>32</b>	<b>1,185</b>

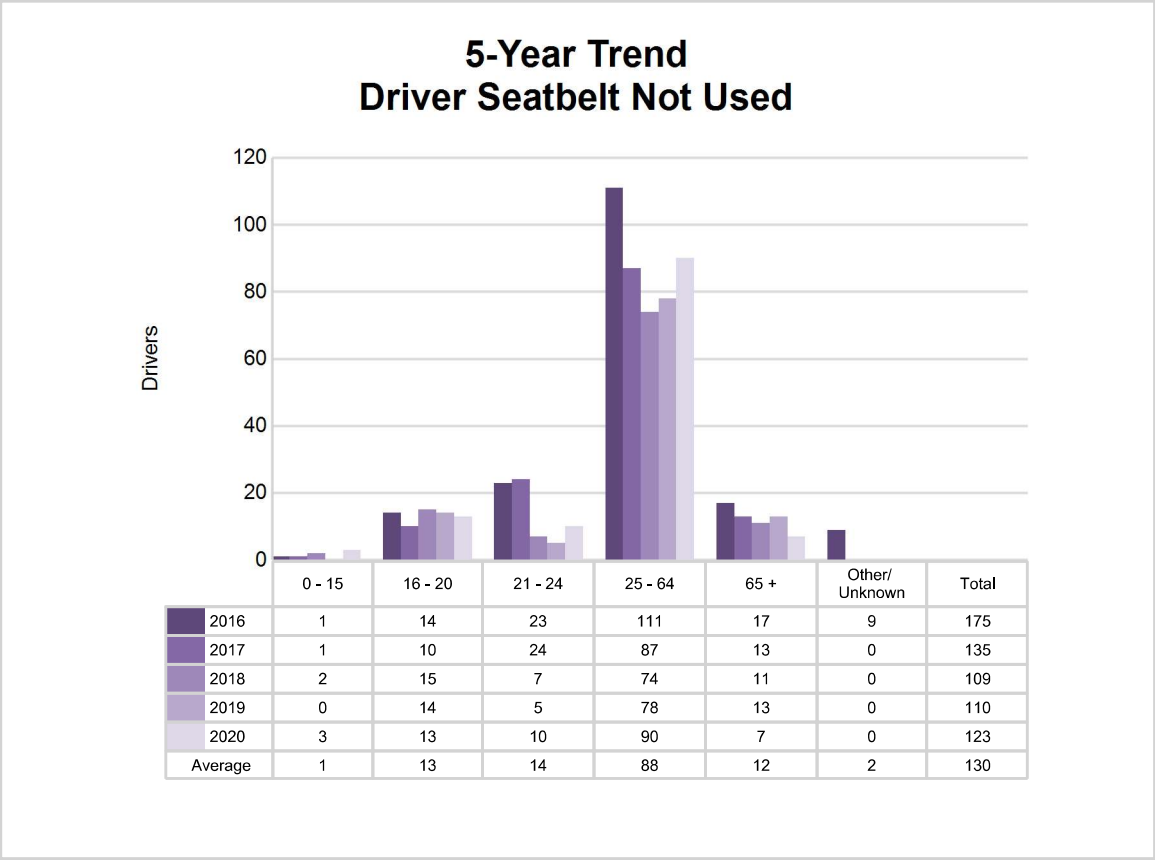
## 5-Year Trend - Restraint Use Among Drivers Coded Drinking

Restraint Use	2016			2017			2018			2019			2020		
	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	3	0	1	3	0	3	0	0	0	0	0	0	1	0	0
Shoulder belt only used	0	0	0	2	0	2	0	0	0	2	0	1	3	0	0
Lap belt only used	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0
Both lap & shoulder belts used	194	0	56	226	5	71	219	0	59	225	3	60	187	1	43
No belts used	20	0	13	36	6	26	16	2	12	19	1	14	31	6	18
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	2	0	0	0	0	0
Restraint use unknown	31	0	9	44	1	13	52	0	11	58	2	14	75	2	24
Helmet worn	3	0	3	5	1	3	9	2	7	3	0	3	5	1	3
Helmet not worn	11	1	9	9	0	9	5	1	4	11	2	7	9	1	7
Helmet use unknown	1	0	1	1	0	1	0	0	0	2	0	1	1	1	0
Uncoded & errors	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>263</b>	<b>1</b>	<b>92</b>	<b>326</b>	<b>13</b>	<b>128</b>	<b>301</b>	<b>5</b>	<b>93</b>	<b>323</b>	<b>8</b>	<b>101</b>	<b>313</b>	<b>12</b>	<b>95</b>

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

Age Group	2016			2017			2018			2019			2020		
	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	1	0	0	1	0	0	2	0	0	0	0	0	3	0	1
16 - 20	14	0	7	10	1	7	15	1	9	14	0	8	13	1	5
21 - 24	23	1	8	24	2	17	7	0	4	5	0	5	10	0	6
25 - 64	111	3	24	87	3	36	74	6	36	78	4	35	90	7	37
65 +	17	2	5	13	1	7	11	0	3	13	1	5	7	1	2
Unknown	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	175	6	44	135	7	67	109	7	52	110	5	53	123	9	51

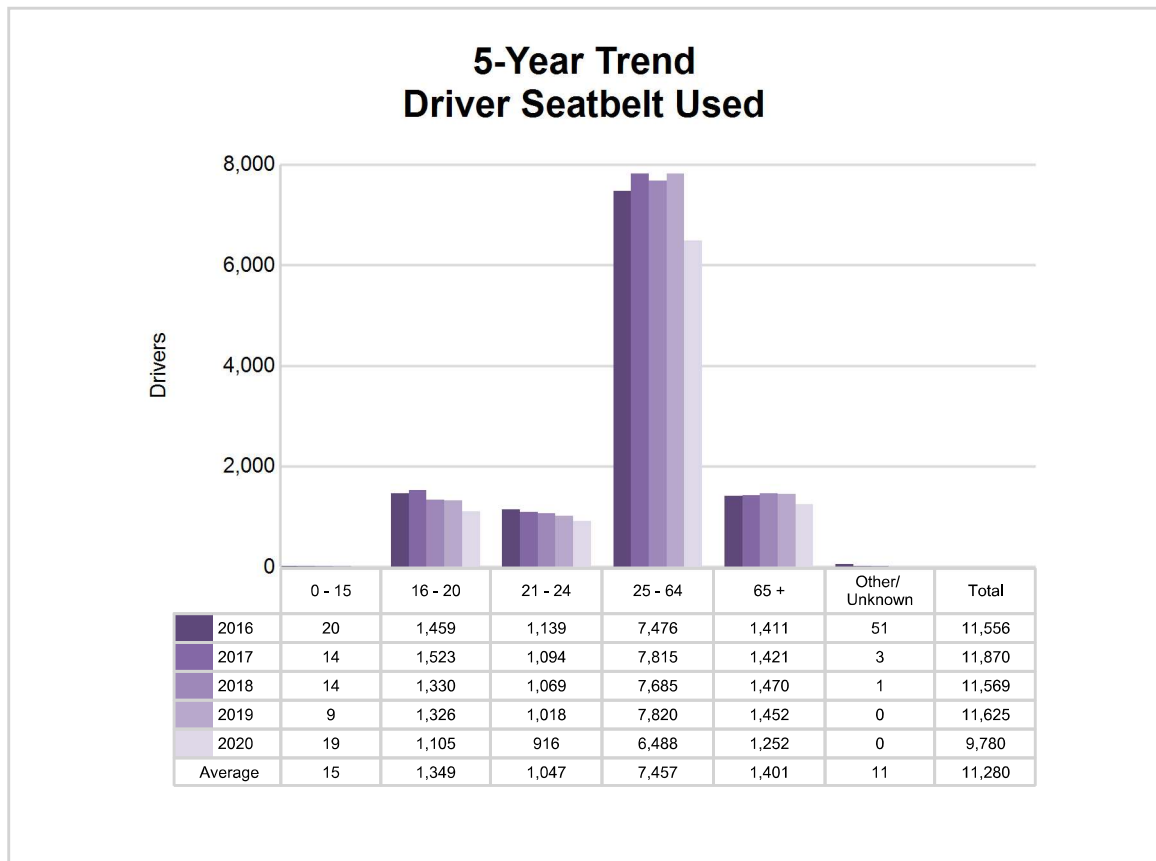
Note: Seatbelt Not Used includes no belts available or no belts used.



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

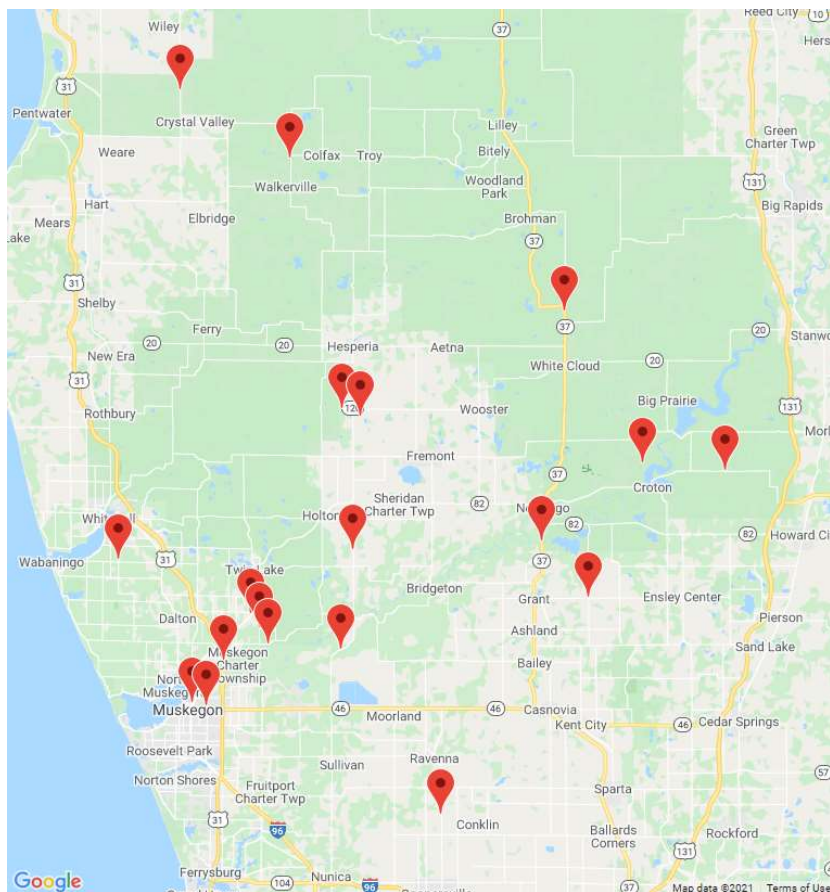
Age Group	2016			2017			2018			2019			2020		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
0 - 15	20	0	1	14	0	0	14	0	1	9	0	0	19	0	6
16 - 20	1,459	0	166	1,523	2	173	1,330	0	148	1,326	3	138	1,105	1	126
21 - 24	1,139	1	140	1,094	0	95	1,069	1	115	1,018	0	94	916	0	91
25 - 64	7,476	4	671	7,815	9	739	7,685	3	768	7,820	9	644	6,488	4	564
65 +	1,411	4	143	1,421	6	148	1,470	2	153	1,452	6	159	1,252	4	148
Unknown	51	0	1	3	0	0	1	0	0	0	0	0	0	0	0
<b>Total</b>	<b>11,556</b>	<b>9</b>	<b>1,122</b>	<b>11,870</b>	<b>17</b>	<b>1,155</b>	<b>11,569</b>	<b>6</b>	<b>1,185</b>	<b>11,625</b>	<b>18</b>	<b>1,035</b>	<b>9,780</b>	<b>9</b>	<b>935</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 - Drivers in Crashes by Hazardous Action

Hazardous Action	2016		2017		2018		2019		2020	
	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes
None	7,521	31	7,432	28	7,569	23	7,679	28	6,833	35
Speed too fast	1,448	4	1,457	13	1,374	7	1,503	8	1,142	10
Speed too slow	6	0	5	0	5	0	6	1	3	0
Failed to yield	1,183	7	1,186	8	1,273	6	1,175	10	969	2
Disregard traffic control	256	6	226	2	297	2	288	2	277	5
Drove wrong way	6	0	5	0	9	0	6	0	9	0
Drove left of center	64	1	96	5	90	2	81	2	63	2
Improper passing	76	0	74	0	74	0	57	0	89	1
Improper lane use	220	2	228	0	234	0	242	0	232	0
Improper turn	98	1	74	0	95	0	135	0	86	2
Improper/no signal	17	0	16	0	19	0	11	0	18	0
Improper backing	233	0	215	0	191	0	187	0	146	0
Unable to stop in assured clear distance	1,076	0	1,179	1	985	0	1,006	4	762	3
Other	308	1	325	1	305	2	328	6	258	1
Unknown	283	1	334	3	329	5	342	8	286	4
Reckless driving	54	1	68	1	59	3	42	2	73	6
Careless/negligent driving	242	1	327	1	326	3	248	2	234	3
Uncoded & errors	27	0	239	0	15	0	16	0	0	0
<b>Total</b>	<b>13,118</b>	<b>56</b>	<b>13,486</b>	<b>63</b>	<b>13,249</b>	<b>53</b>	<b>13,352</b>	<b>73</b>	<b>11,480</b>	<b>74</b>



The picture above represents all 2020 alcohol-involved fatal crashes in TSN Lakeshore.

In 2020, there were 316 alcohol-involved crashes in TSN Lakeshore:

- 19 K - Fatal Crashes
- 33 A - Suspected Serious Injury Crashes
- 51 B - Suspected Minor Injury Crashes
- 34 C - Possible Injury Crashes
- 179 O - Property Damage Only/No Injury Crashes

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