



2021

**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

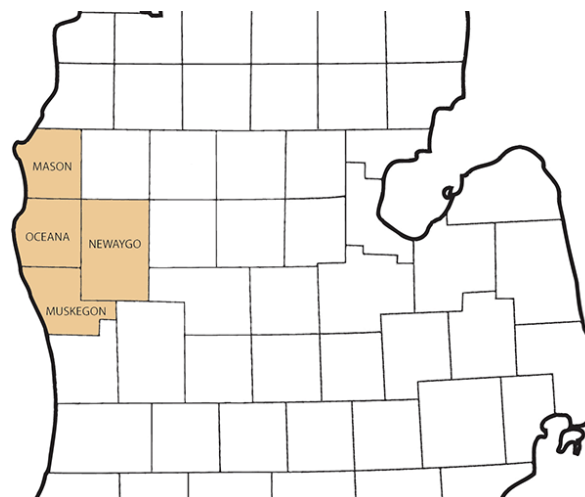
Property Damage Only (PDO)



## Traffic Safety Network Lakeshore

### 2021 Traffic Crash Data & 2017-2021 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.

## 2021 - Crashes and Injury by Month

Month	Crashes				People	
	Total	Fatal	Injury	Property Damage Only (PDO)	Fatalities	Injuries
January	643	0	110	533	0	147
February	697	1	81	615	1	111
March	508	2	74	432	3	107
April	509	1	90	418	2	118
May	590	5	95	490	6	126
June	721	1	145	575	1	201
July	670	6	130	534	6	187
August	638	6	128	504	7	174
September	708	1	113	594	1	146
October	865	1	114	750	1	155
November	962	3	99	860	3	129
December	772	2	105	665	2	142
<b>Total</b>	<b>8,283</b>	<b>29</b>	<b>1,284</b>	<b>6,970</b>	<b>33</b>	<b>1,743</b>

## 2021 - Driver Statistics

Age Group	TSN Lakeshore			Driver Rates	
	2019 Population*	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	55,238	1,369	43	7.8	314.1
16 - 20	16,137	12,417	1,411	874.4	1,136.3
21 - 24	12,724	11,542	999	785.1	865.5
25 - 64	141,094	128,687	7,428	526.5	577.2
65 +	52,964	53,368	1,486	280.6	278.4
Unknown	0	0	945	--	--
<b>Total</b>	<b>278,157</b>	<b>207,383</b>	<b>12,312</b>	<b>442.6</b>	<b>593.7</b>

\*2021 Population of Michigan Counties (by single-year of age) not yet available from U.S. Census Bureau.

## 2021 - 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	9,645	78.3	27	55.1	1,615	8,003
Motor Home	74	0.6	0	0.0	14	60
Pickup Truck	1,779	14.4	11	22.4	282	1,486
Small Truck Under 10,000 lbs. GVWR	92	0.7	0	0.0	15	77
Motorcycle	147	1.2	8	16.3	106	33
Moped/Goped	26	0.2	0	0.0	20	6
Go-Cart/Golf Cart	0	0.0	0	0.0	0	0
Snowmobile	1	0.0	0	0.0	1	0
Off-Road Vehicle (ORV)/All-Terrain Vehicle (ATV)	18	0.1	0	0.0	15	3
Other (non-registered farm equipment, construction equipment, snow plows, etc.)	89	0.7	1	2.0	21	67
Truck/Bus (over 10,000 lbs. GVWR/8+ occupants/hazmat placard)	251	2.0	2	4.1	31	218
Uncoded & Errors	190	1.5	0	0.0	13	177
<b>Total</b>	<b>12,312</b>	<b>100.0</b>	<b>49</b>	<b>100.0</b>	<b>2,133</b>	<b>10,130</b>

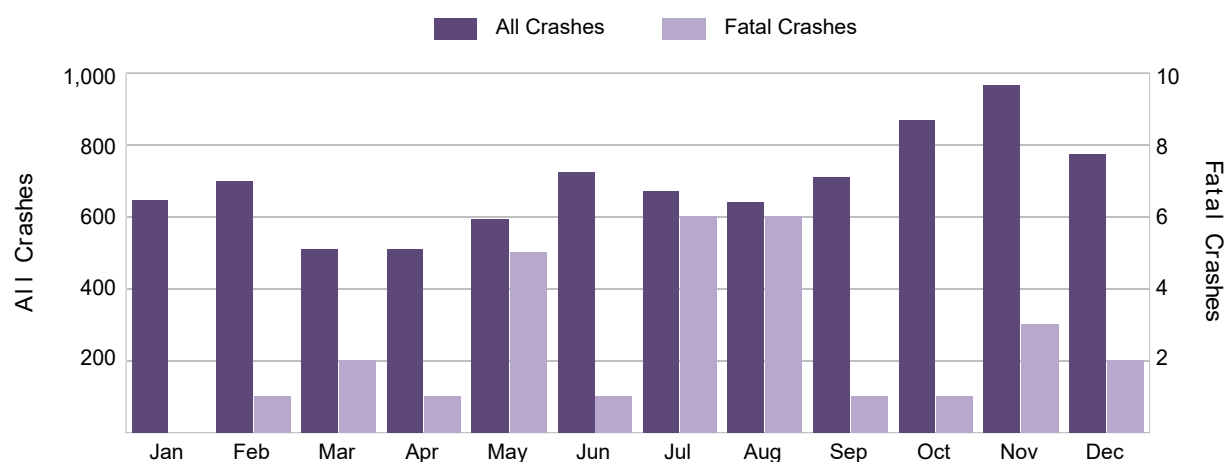
## 5-Year Trend - Crashes by Month

Month	2017		2018		2019		2020		2021	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
January	881	1	866	1	941	4	773	1	643	0
February	539	4	686	2	680	2	697	3	697	1
March	586	1	662	1	696	3	397	2	508	2
April	508	1	675	2	582	2	279	1	509	1
May	656	1	642	1	597	7	489	2	590	5
June	747	2	772	3	702	4	724	3	721	1
July	687	4	719	5	658	5	687	9	670	6
August	667	5	637	6	655	7	629	7	638	6
September	703	4	630	4	649	5	696	8	708	1
October	907	5	868	2	942	5	898	3	865	1
November	911	5	994	2	1,056	3	881	4	962	3
December	1,235	5	756	4	870	1	741	2	772	2
<b>Total</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>	<b>8,283</b>	<b>29</b>

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

Day	2017		2018		2019		2020		2021	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Monday	1,255	3	1,245	5	1,278	7	1,061	7	1,183	7
Tuesday	1,276	1	1,426	3	1,349	4	1,080	7	1,193	3
Wednesday	1,271	3	1,410	3	1,447	3	1,170	7	1,160	2
Thursday	1,424	10	1,275	1	1,346	6	1,216	4	1,207	3
Friday	1,474	8	1,356	3	1,407	9	1,256	3	1,356	4
Saturday	1,232	6	1,246	7	1,143	10	1,157	8	1,117	4
Sunday	1,095	7	949	11	1,058	9	951	9	1,067	6
<b>Total</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>	<b>8,283</b>	<b>29</b>

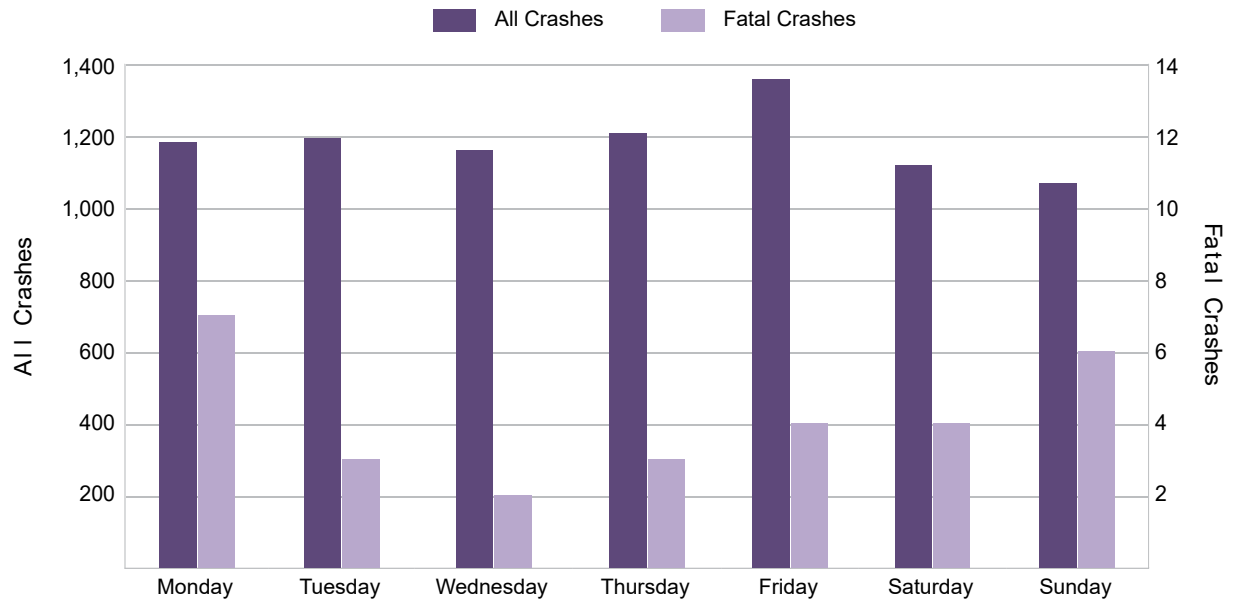
## 2021 Crashes by Month



## 2021 - Crashes by Day of Week

Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Fatal	% of Fatal	A	B	C	Number
Monday	1,183	14.3	7	24.1	23	62	99	992
Tuesday	1,193	14.4	3	10.3	20	52	91	1,027
Wednesday	1,160	14.0	2	6.9	26	61	93	978
Thursday	1,207	14.6	3	10.3	33	66	86	1,019
Friday	1,356	16.4	4	13.8	21	83	112	1,136
Saturday	1,117	13.5	4	13.8	26	75	94	918
Sunday	1,067	12.9	6	20.7	25	67	69	900
<b>Total</b>	<b>8,283</b>	<b>100.0</b>	<b>29</b>	<b>100.0</b>	<b>174</b>	<b>466</b>	<b>644</b>	<b>6,970</b>

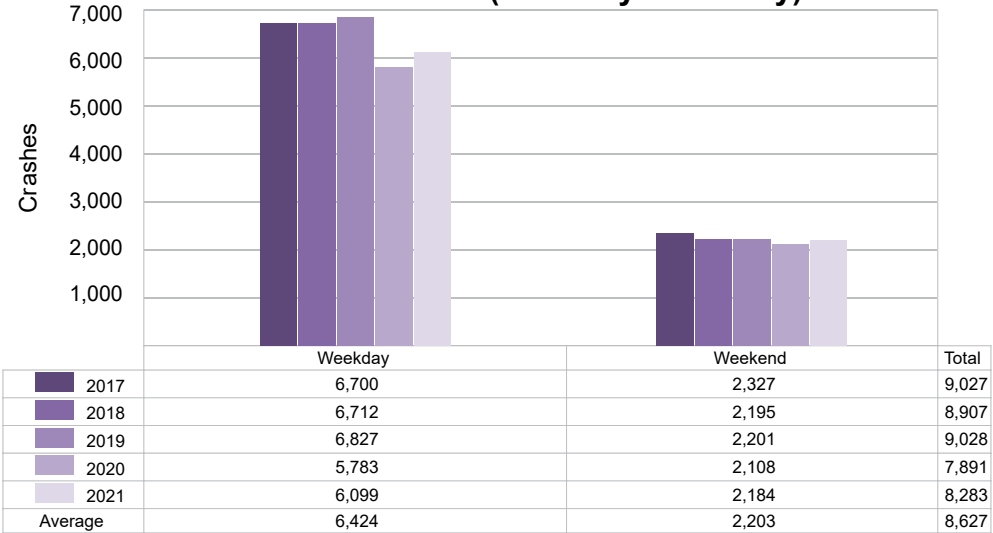
## 2021 Day of Week and Severity



5-Year Trend - Crashes by Weekday and Weekend

Portion of Week	2017		2018		2019		2020		2021	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Weekday	6,700	25	6,712	15	6,827	29	5,783	28	6,099	19
Weekend	2,327	13	2,195	18	2,201	19	2,108	17	2,184	10
Total	9,027	38	8,907	33	9,028	48	7,891	45	8,283	29

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

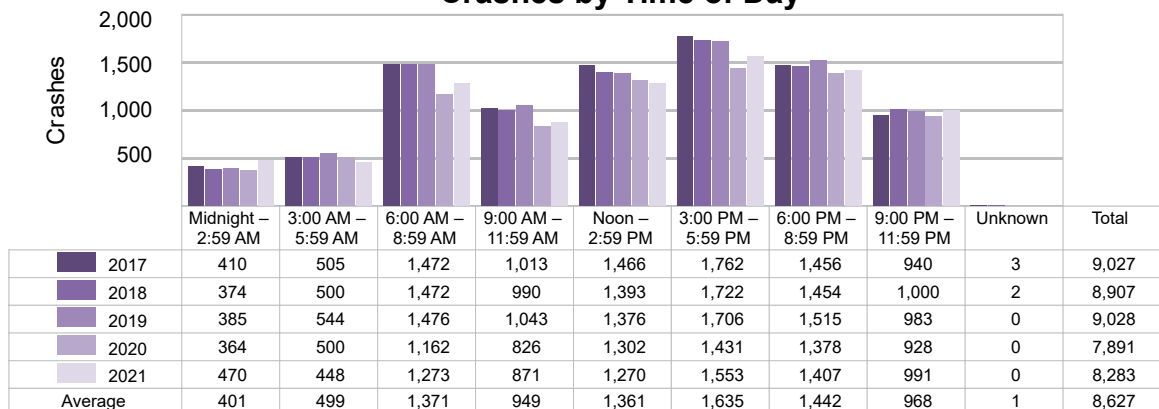


## 5-Year Trend - Crashes by Time of Day

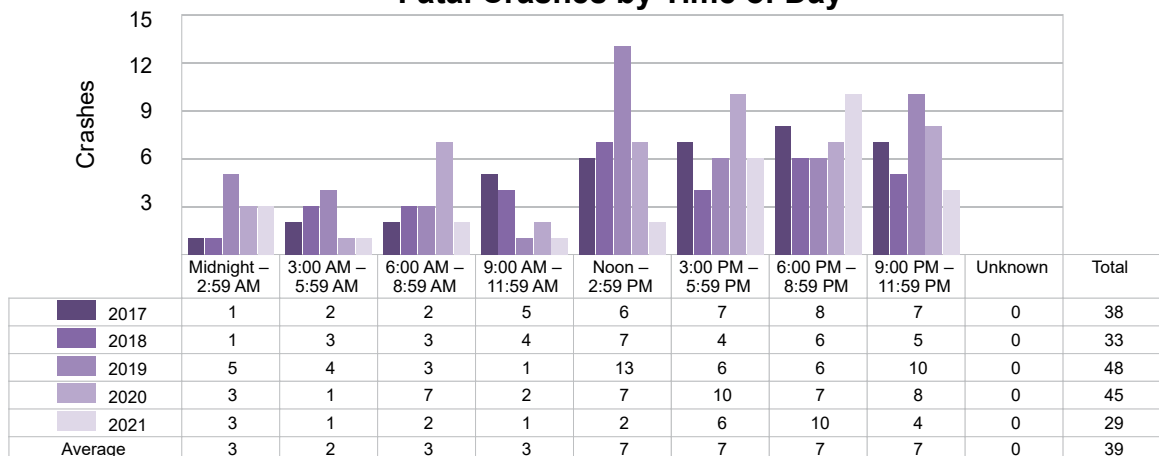
Time of Day	2017		2018		2019		2020		2021	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight – 2:59 AM	410	1	374	1	385	5	364	3	470	3
3:00 AM – 5:59 AM	505	2	500	3	544	4	500	1	448	1
6:00 AM – 8:59 AM	1,472	2	1,472	3	1,476	3	1,162	7	1,273	2
9:00 AM – 11:59 AM	1,013	5	990	4	1,043	1	826	2	871	1
Noon – 2:59 PM	1,466	6	1,393	7	1,376	13	1,302	7	1,270	2
3:00 PM – 5:59 PM	1,762 †	7	1,722 †	4	1,706 †	6	1,431 †	10	1,553 †	6
6:00 PM – 8:59 PM	1,456	8	1,454	6	1,515	6	1,378	7	1,407	10
9:00 PM – 11:59 PM	940	7	1,000	5	983	10	928	8	991	4
Unknown	3	0	2	0	0	0	0	0	0	0
<b>Total</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>	<b>8,283</b>	<b>29</b>

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

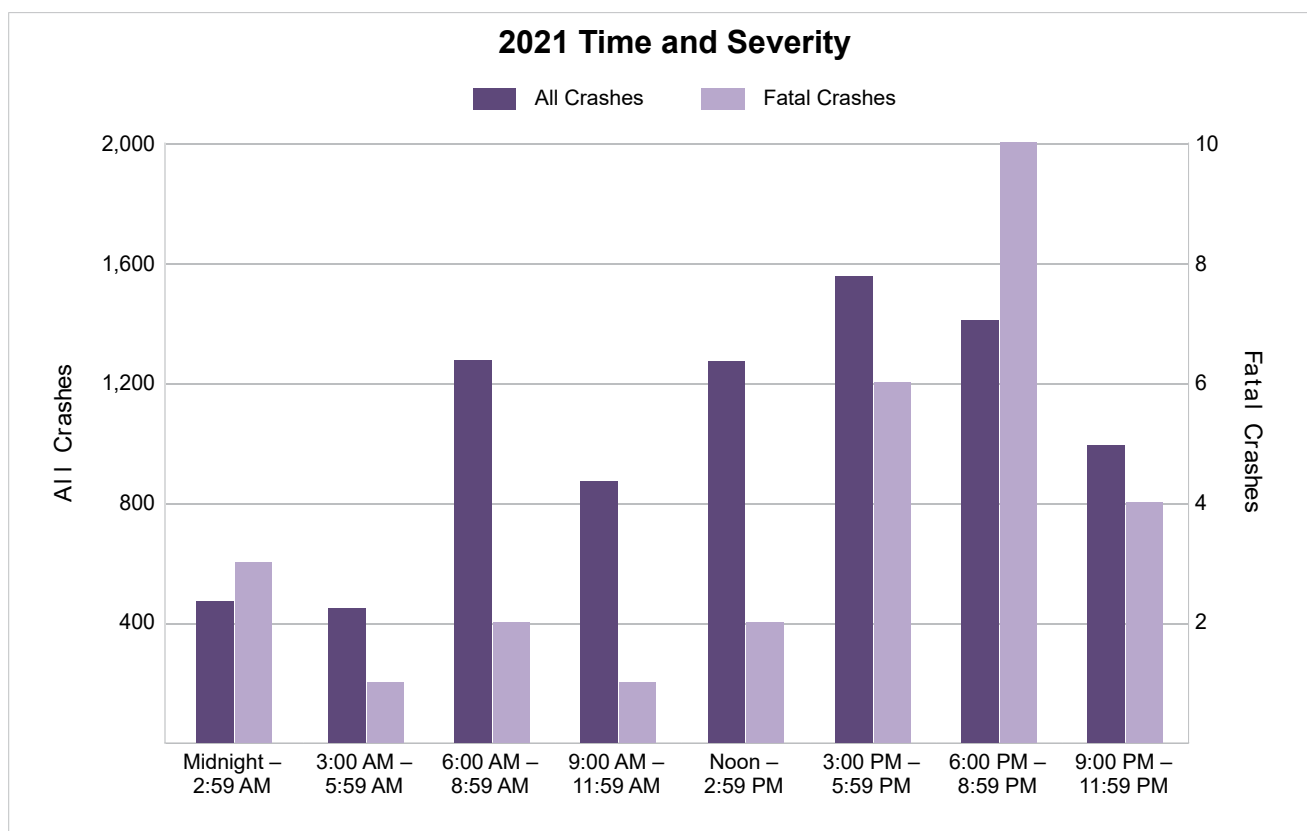


### 5-Year Trend Fatal Crashes by Time of Day



## 2021 - 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	470	5.7	3	10.3	10	31	31	395
3:00 AM – 5:59 AM	448	5.4	1	3.4	9	19	25	394
6:00 AM – 8:59 AM	1,273	15.4	2	6.9	14	45	69	1,143
9:00 AM – 11:59 AM	871	10.5	1	3.4	16	55	68	731
Noon – 2:59 PM	1,270	15.3	2	6.9	34	94	125	1,015
3:00 PM – 5:59 PM	1,553	18.7	6	20.7	38	105	154	1,250
6:00 PM – 8:59 PM	1,407	17.0	10	34.5	25	70	101	1,201
9:00 PM – 11:59 PM	991	12.0	4	13.8	28	47	71	841
Unknown	0	0.0	0	0.0	0	0	0	0
<b>Total</b>	<b>8,283</b>	<b>100.0</b>	<b>29</b>	<b>100.0</b>	<b>174</b>	<b>466</b>	<b>644</b>	<b>6,970</b>

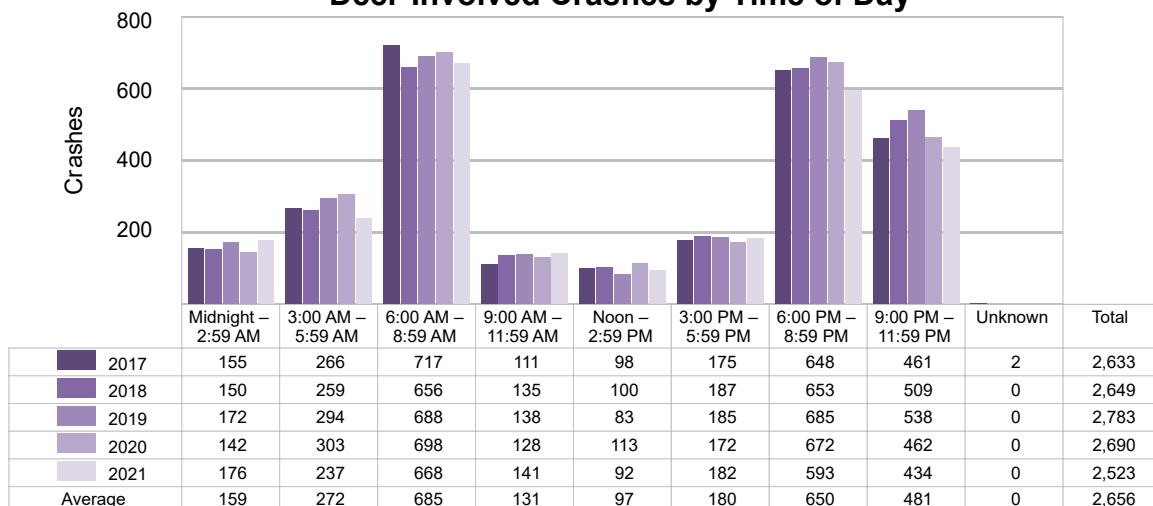


## 5-Year Trend - Deer-Involved Crashes by Time of Day

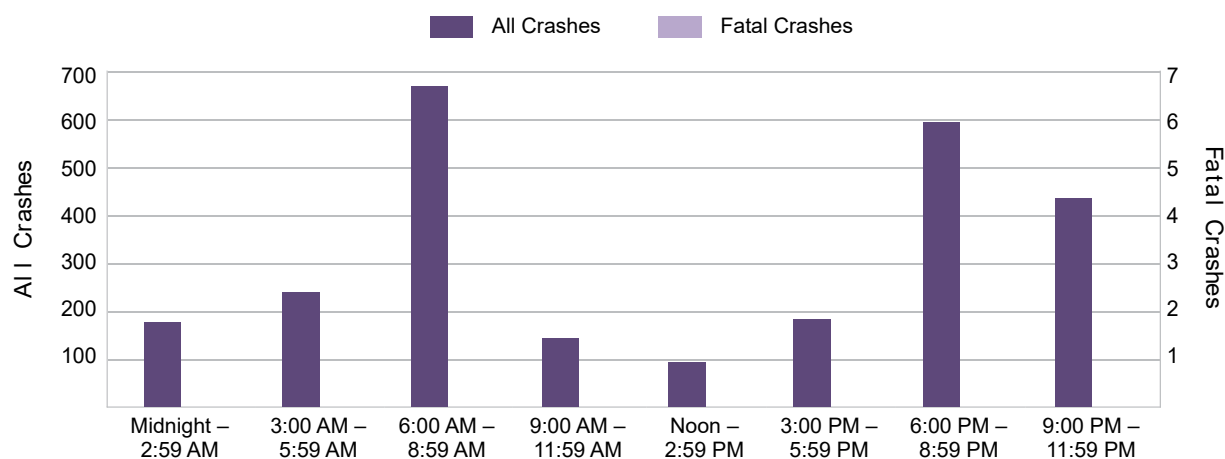
Time of Day	2017		2018		2019		2020		2021	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight – 2:59 AM	155	0	150	0	172	0	142	1	176	0
3:00 AM – 5:59 AM	266	0	259	1	294	0	303	0	237	0
6:00 AM – 8:59 AM	717 †	0	656 †	1	688 †	0	698 †	0	668 †	0
9:00 AM – 11:59 AM	111	0	135	0	138	0	128	0	141	0
Noon – 2:59 PM	98	0	100	0	83	0	113	0	92	0
3:00 PM – 5:59 PM	175	0	187	0	185	1	172	0	182	0
6:00 PM – 8:59 PM	648	1	653	0	685	0	672	0	593	0
9:00 PM – 11:59 PM	461	0	509	0	538	0	462	0	434	0
Unknown	2	0	0	0	0	0	0	0	0	0
<b>Total</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>	<b>2,523</b>	<b>0</b>

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



### 2021 Time and Severity of Deer-Involved Crashes



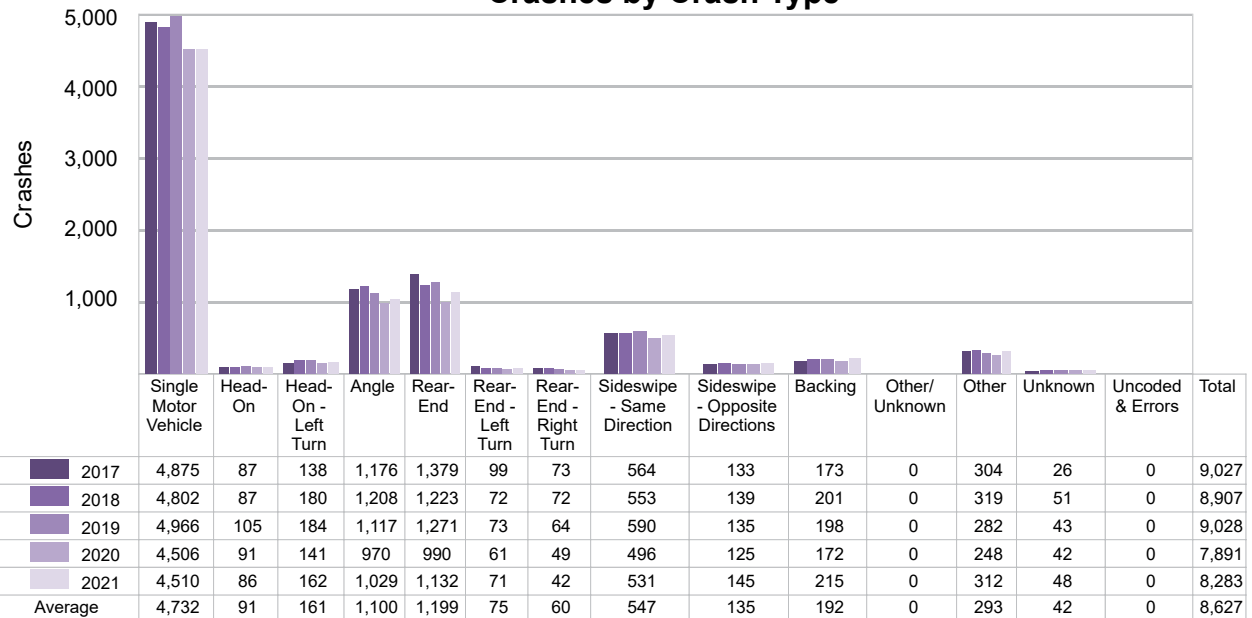
There were no fatal deer-involved crashes in TSN Lakeshore in 2021.



## 5-Year Trend - Crashes by Crash Type

Crash Type	2017		2018		2019		2020		2021	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Single Motor Vehicle	4,875	20	4,802	16	4,966	27	4,506	23	4,510	12
Head-On	87	4	87	4	105	4	91	3	86	3
Head-On - Left Turn	138	0	180	3	184	2	141	6	162	1
Angle	1,176	9	1,208	5	1,117	8	970	7	1,029	9
Rear-End	1,379	2	1,223	4	1,271	5	990	4	1,132	0
Rear-End - Left Turn	99	0	72	0	73	0	61	0	71	1
Rear-End - Right Turn	73	0	72	0	64	0	49	0	42	0
Sideswipe - Same Direction	564	0	553	0	590	0	496	0	531	2
Sideswipe - Opposite Directions	133	1	139	0	135	0	125	2	145	1
Backing	173	0	201	0	198	0	172	0	215	0
Other/Unknown	0	0	0	0	0	0	0	0	0	0
Other	304	2	319	1	282	2	248	0	312	0
Unknown	26	0	51	0	43	0	42	0	48	0
Uncoded & Errors	0	0	0	0	0	0	0	0	0	0
<b>Total</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>	<b>8,283</b>	<b>29</b>

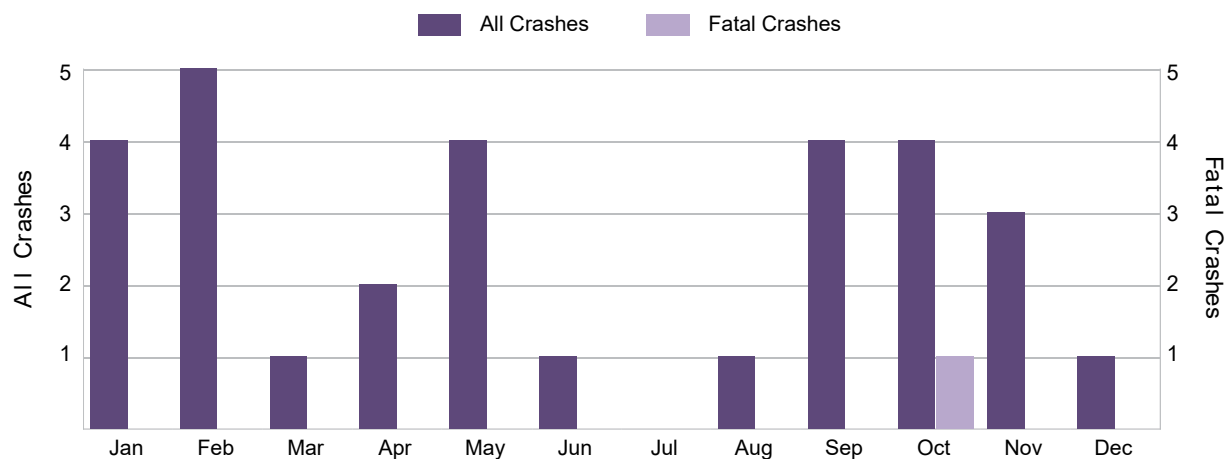
## 5-Year Trend Crashes by Crash Type



## 5-Year Trend - Pedestrian-Involved Crashes by Month

Month	2017		2018		2019		2020		2021	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
January	3	0	2	0	3	0	3	0	4	0
February	2	0	0	0	3	0	0	0	5	0
March	0	0	4	0	0	0	2	0	1	0
April	1	1	1	0	0	0	0	0	2	0
May	0	0	1	0	4	1	0	0	4	0
June	4	0	5	0	8	2	2	0	1	0
July	3	0	4	0	3	0	4	0	0	0
August	2	0	3	1	3	2	7	1	1	0
September	9	0	1	0	2	0	4	1	4	0
October	1	0	6	0	1	0	1	0	4	1
November	2	0	6	1	5	1	3	0	3	0
December	2	2	4	0	5	0	2	1	1	0
<b>Total</b>	<b>29</b>	<b>3</b>	<b>37</b>	<b>2</b>	<b>37</b>	<b>6</b>	<b>28</b>	<b>3</b>	<b>30</b>	<b>1</b>

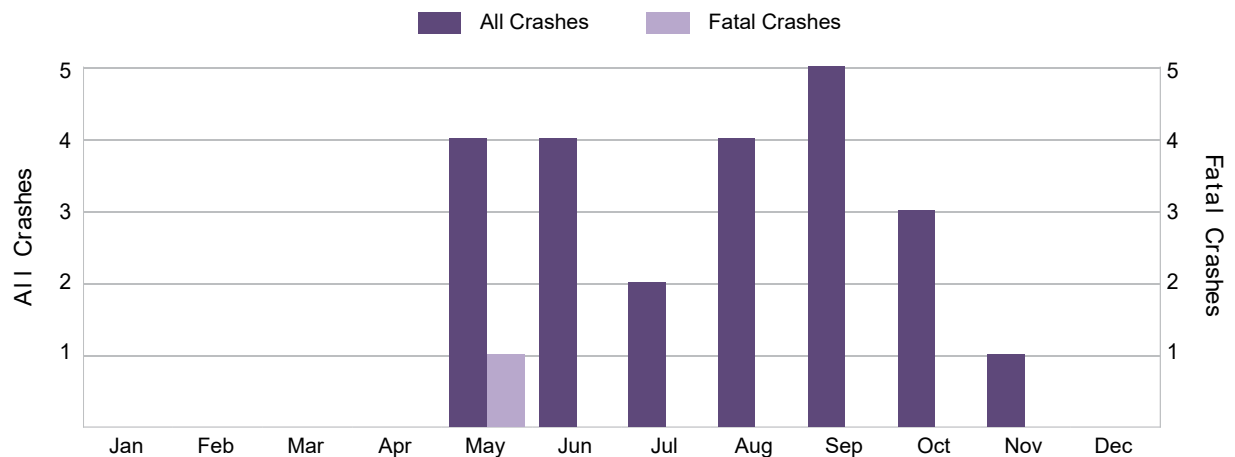
## 2021 Pedestrian-Involved Crashes by Month



## 5-Year Trend - Bicyclist-Involved Crashes by Month

Month	2017		2018		2019		2020		2021	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
January	1	0	0	0	2	0	0	0	0	0
February	2	0	0	0	0	0	1	0	0	0
March	2	0	0	0	0	0	0	0	0	0
April	0	0	3	0	0	0	4	0	0	0
May	6	0	3	0	6	1	1	0	4	1
June	7	0	10	1	3	0	5	1	4	0
July	5	0	8	0	6	0	3	0	2	0
August	7	1	4	0	4	2	4	0	4	0
September	5	0	4	0	4	0	3	0	5	0
October	4	0	0	0	1	0	4	1	3	0
November	1	0	1	0	0	0	1	0	1	0
December	2	0	1	0	1	0	1	1	0	0
<b>Total</b>	<b>42</b>	<b>1</b>	<b>34</b>	<b>1</b>	<b>27</b>	<b>3</b>	<b>27</b>	<b>3</b>	<b>23</b>	<b>1</b>

## 2021 Bicyclist-Involved Crashes by Month



## 2021 - Reported Motor Vehicle Crashes by County

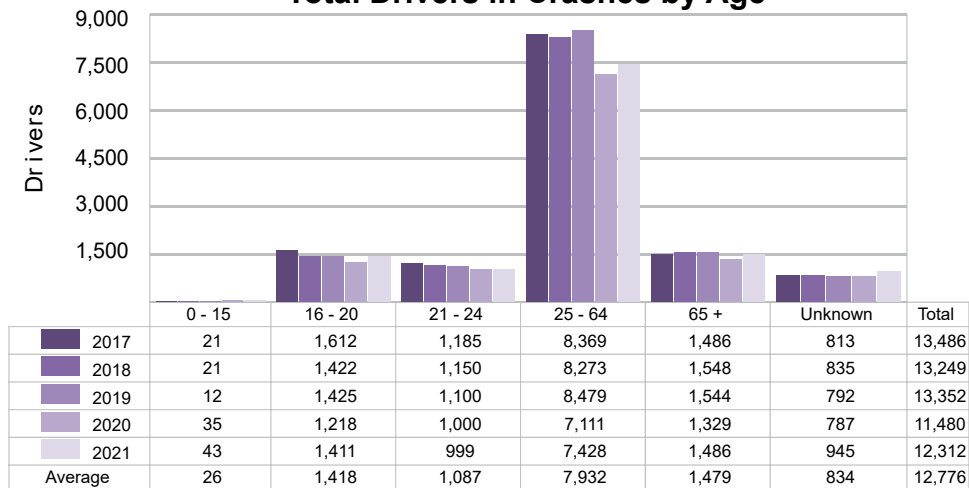
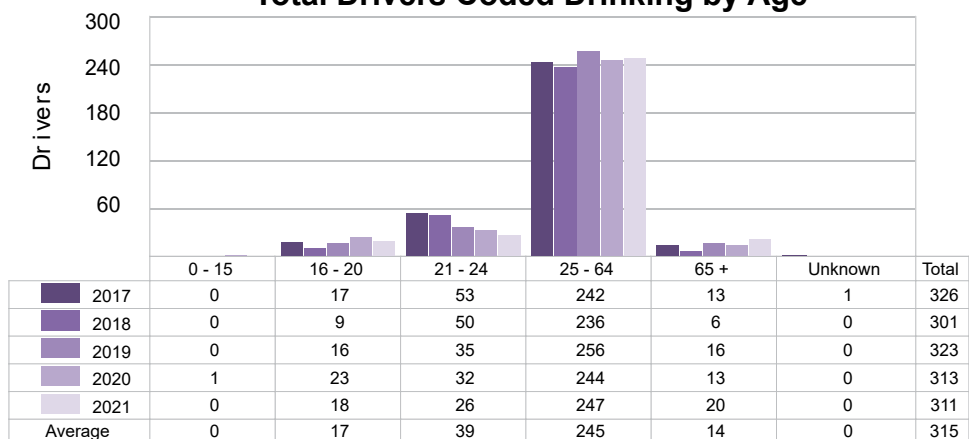
County	Crashes												
	Total	Fatal	Injury	Property Damage	Inter-State	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Pedestrian-Involved	Bicyclist-Involved
Mason	1,193	4	110	1,079	0	470	21	702	31	18	646	4	2
Muskegon	4,673	17	840	3,816	87	794	589	3,189	172	71	663	23	18
Newaygo	1,460	6	223	1,231	0	0	528	930	68	22	661	2	1
Oceana	957	2	111	844	0	226	102	627	43	11	553	1	2
<b>Total</b>	<b>8,283</b>	<b>29</b>	<b>1,284</b>	<b>6,970</b>	<b>87</b>	<b>1,490</b>	<b>1,240</b>	<b>5,448</b>	<b>314</b>	<b>122</b>	<b>2,523</b>	<b>30</b>	<b>23</b>

## 2021 - People in Reported Motor Vehicle Crashes by County

County	People					
	Fatalities	Suspected Serious Injuries	Suspected Minor Injuries	Possible Injuries	No Injuries	Uncoded & Errors
Mason	6	54	78	128	1,531	47
Muskegon	19	176	694	1,117	7,425	529
Newaygo	6	94	238	150	1,905	37
Oceana	2	49	98	104	1,175	23
<b>Total</b>	<b>33</b>	<b>373</b>	<b>1,108</b>	<b>1,499</b>	<b>12,036</b>	<b>636</b>

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

Driver Age	2017		2018		2019		2020		2021	
	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	21	0	21	0	12	0	35	1	43	0
16 - 20	1,612	17	1,422	9	1,425	16	1,218	23	1,411	18
21 - 24	1,185	53	1,150	50	1,100	35	1,000	32	999	26
25 - 64	8,369	242	8,273	236	8,479	256	7,111	244	7,428	247
65 +	1,486	13	1,548	6	1,544	16	1,329	13	1,486	20
Unknown	813	1	835	0	792	0	787	0	945	0
<b>Total</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>	<b>12,312</b>	<b>311</b>

5-Year Trend  
Total Drivers in Crashes by Age

5-Year Trend  
Total Drivers Coded Drinking by Age


**2021 - 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	27	28	16	18	0	5	7	0	6
21 - 24	34	36	24	26	0	0	4	7	15
25 - 64	295	257	201	247	0	14	52	53	128
65 +	32	28	18	20	0	5	9	4	2
Unknown	33	0	0	0	0	0	0	0	0
<b>Total</b>	<b>421</b>	<b>349</b>	<b>259</b>	<b>311</b>	<b>0</b>	<b>24</b>	<b>72</b>	<b>64</b>	<b>151</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).

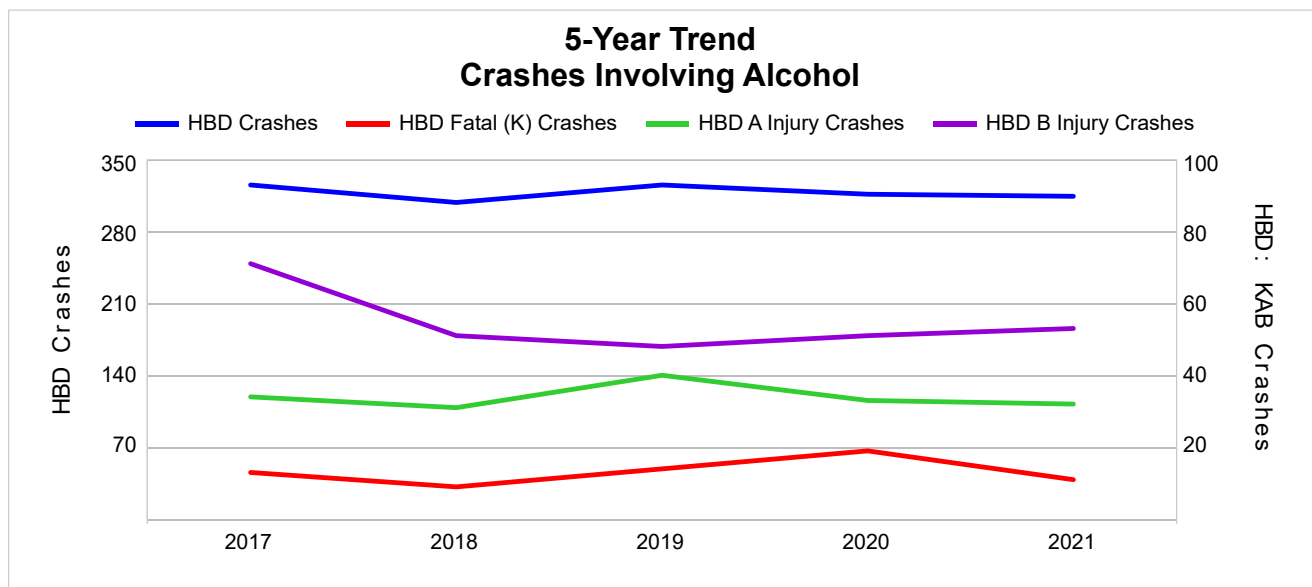
A driver may be coded by the officer as drinking even though no test is administered.

**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
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
2021	8,283	314	3.8	29 *	11	37.9	174	32	18.4	466 *	53	11.4

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.



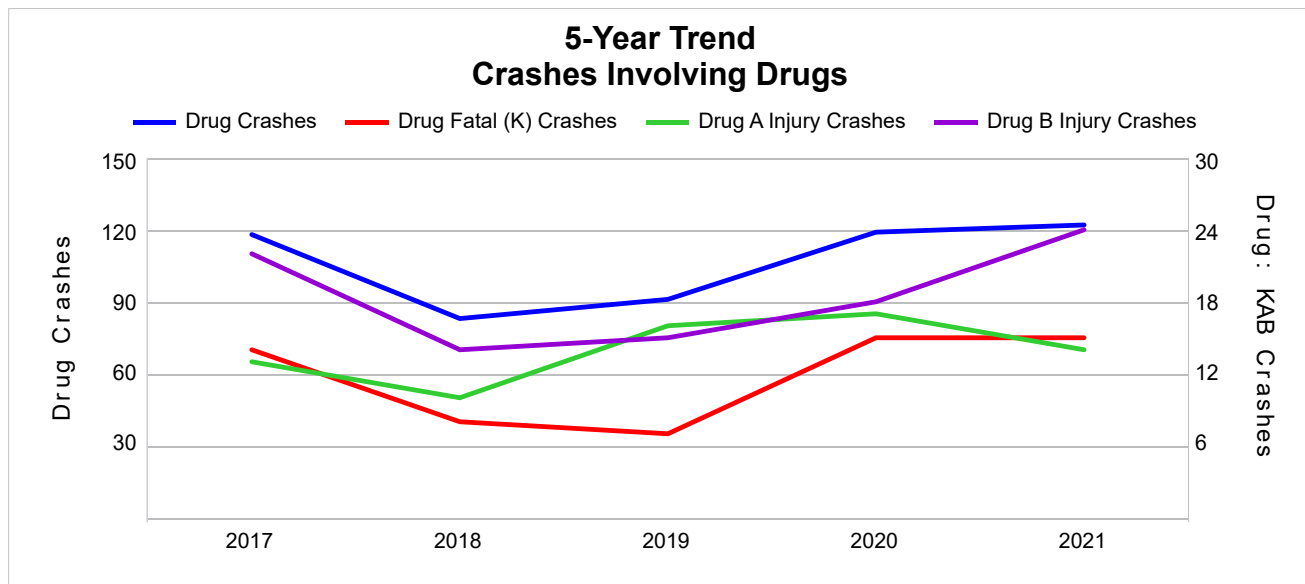
Note: Had-Been-Drinking (HBD)

## 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
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
2021	8,283	122 **	1.5	29 *	15	51.7 **	174	14	8.0	466 *	24 **	5.2 **

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

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

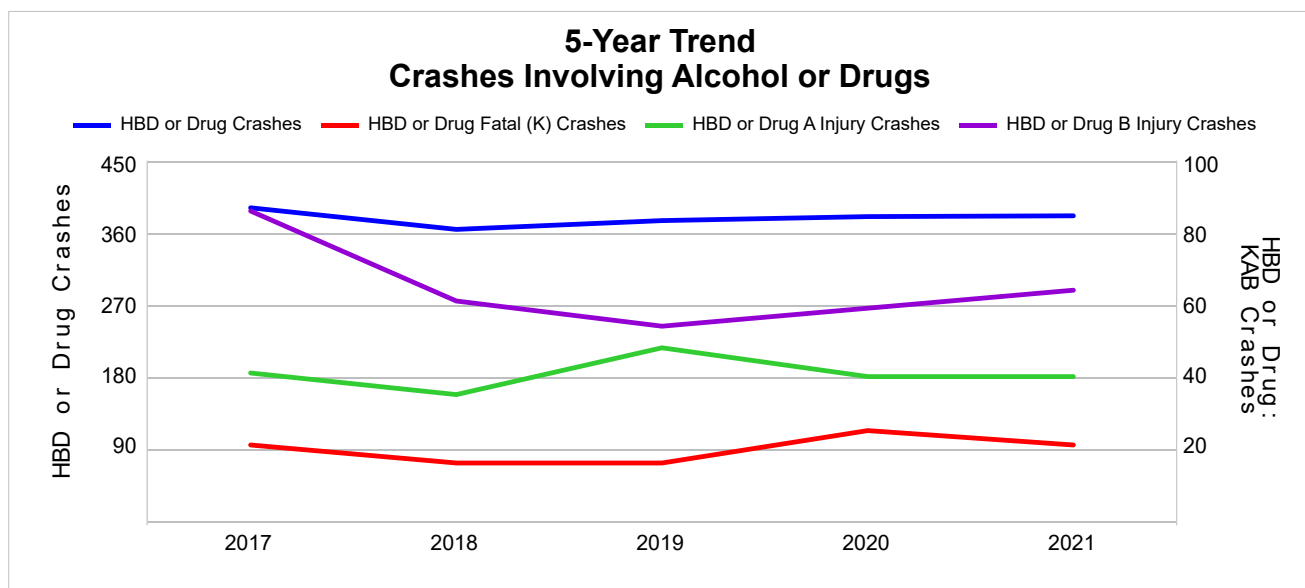


## 5-Year Trend - Crashes Involving Alcohol or Drugs

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
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
2021	8,283	381	4.6	29 *	21	72.4 **	174	40	23.0	466 *	64	13.7

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.



Note: Had-Been-Drinking (HBD)



2021 - 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	10,019	8,691	86.7	16	10	62.5	121	86	71.1	447	379	84.8	731	666	91.1	8,300	7,550	91.0
Motor Home	77	62	80.5	0	0	0.0	0	0	0.0	6	3	50.0	3	3	100.0	65	56	86.2
Pickup Truck	1,835	1,616	88.1	7	6	85.7	29	14	48.3	78	69	88.5	99	91	91.9	1,562	1,436	91.9
Small Truck Under 10,000 lbs. GVWR	94	79	84.0	0	0	0.0	1	1	100.0	1	1	100.0	7	6	85.7	80	71	88.8
Motorcycle	157	83	52.9	7	2	28.6	41	20	48.8	53	30	56.6	17	10	58.8	35	21	60.0
Moped/Goped	26	13	50.0	0	0	0.0	0	0	0.0	12	6	50.0	7	4	57.1	7	3	42.9
Go-Cart/Golf Cart	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Snowmobile	1	1	100.0	0	0	0.0	0	0	0.0	0	0	0.0	1	1	100.0	0	0	0.0
Off-Road Vehicle (ORV)/All-Terrain Vehicle (ATV)	21	6	28.6	0	0	0.0	7	2	28.6	5	0	0.0	4	1	25.0	5	3	60.0
Other (non-registered farm equipment, construction equipment, snow plows, etc.)	91	47	51.6	1	0	0.0	1	0	0.0	3	2	66.7	8	2	25.0	74	43	58.1
Truck/Bus (over 10,000 lbs. GVWR/ 8+ occupants/ hazmat placard)	254	229	90.2	0	0	0.0	2	1	50.0	3	3	100.0	6	2	33.3	239	223	93.3
Uncoded & Errors	190	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	38	0	0.0
Total	12,765	10,827	84.8	31	18	58.1	202	124	61.4	608	493	81.1	883	786	89.0	10,405	9,406	90.4

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.

2021 - 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	180	151	83.9	0	0	0.0	11	3	27.3	60	52	86.7	78	73	93.6	31	23	74.2
16 - 20	1,488	1,380	92.7	2	2	100.0	26	15	57.7	84	69	82.1	136	122	89.7	1,238	1,172	94.7
21 - 24	1,036	954	92.1	5	5	100.0	15	8	53.3	64	47	73.4	77	72	93.5	873	822	94.2
25 - 64	7,589	6,918	91.2	18	7	38.9	116	67	57.8	332	271	81.6	496	434	87.5	6,580	6,139	93.3
65 +	1,527	1,422	93.1	6	4	66.7	33	31	93.9	68	54	79.4	92	85	92.4	1,322	1,248	94.4
Unknown	945	2	0.2	0	0	0.0	1	0	0.0	0	0	0.0	4	0	0.0	361	2	0.6
Total	12,765	10,827	84.8	31	18	58.1	202	124	61.4	608	493	81.1	883	786	89.0	10,405	9,406	90.4

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	2017			2018			2019			2020			2021		
	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	27	0	9	27	0	7	33	0	8	32	0	3	37	1	5
Shoulder Belt Only Used	114	0	16	87	0	8	92	0	6	82	0	10	31	0	3
Lap Belt Only Used	26	0	4	20	0	5	15	0	3	13	0	1	11	0	0
Both Lap & Shoulder Belt Used	11,729	17	1,134	11,461	6	1,172	11,513	18	1,025	9,682	9	923	10,307	13	956
No Belts Used	108	7	58	82	7	45	77	5	45	91	9	48	108	5	51
Child Restraint Used - Forward Facing	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
Child Restraint Used - Rear Facing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Child Restraint Used - Booster Seat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Restraint Failure	1	0	1	1	0	0	5	0	1	3	0	1	4	0	0
Restraint Use Unknown	1,278	4	57	1,390	0	70	1,439	3	73	1,397	3	61	1,639	1	101
Helmet Worn	82	3	50	101	6	68	85	3	63	90	7	69	92	2	65
Helmet Not Worn	50	1	38	56	3	47	67	6	46	83	3	64	73	3	58
Helmet Use Unknown	5	0	4	8	0	5	10	0	7	7	1	5	9	2	5
Uncoded & Errors	66	0	0	16	0	0	16	0	0	0	0	0	1	0	0
<b>Total</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>	<b>12,312</b>	<b>27</b>	<b>1,244</b>

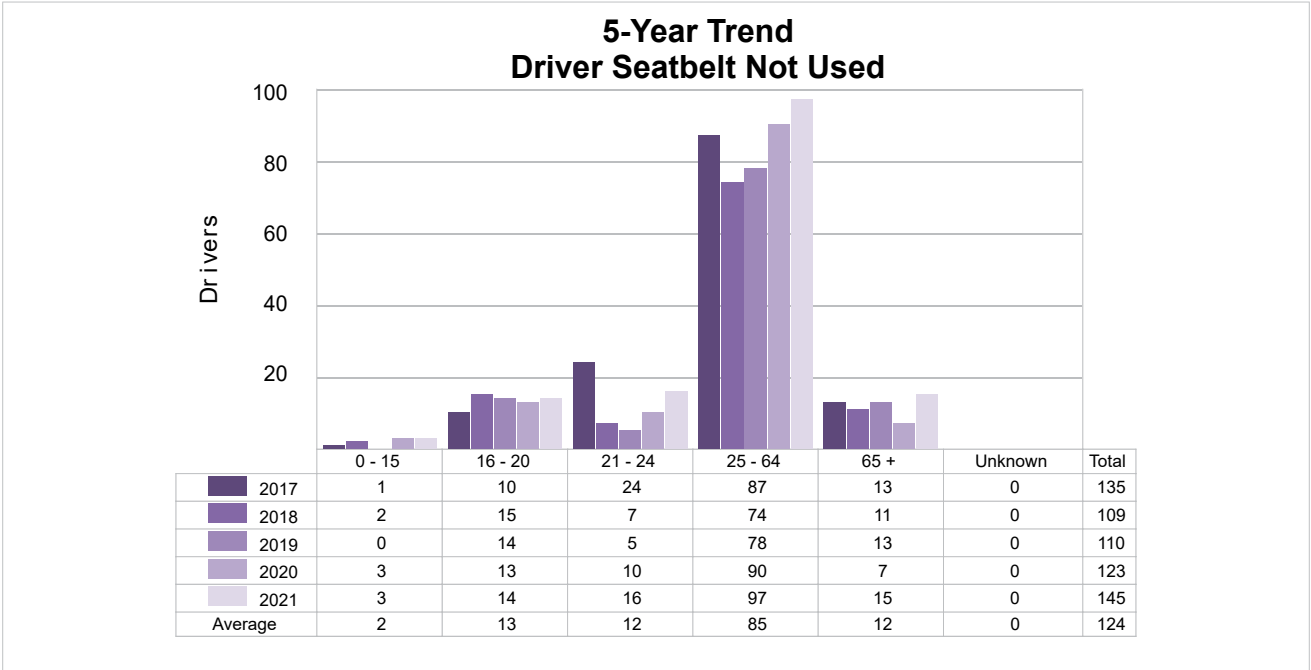
## 5-Year Trend - Restraint Use Among Drivers Coded Drinking

Restraint Use	2017			2018			2019			2020			2021		
	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	3	0	0	0	0	0	0	1	0	0	1	0	1
Shoulder Belt Only Used	2	0	2	0	0	0	2	0	1	3	0	0	2	0	1
Lap Belt Only Used	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0
Both Lap & Shoulder Belt Used	226	5	71	219	0	59	225	3	60	187	1	43	195	2	63
No Belts Used	36	6	26	16	2	12	19	1	14	31	6	18	31	4	15
Child Restraint Used - Forward Facing	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
Child Restraint Used - Rear Facing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Child Restraint Used - Booster Seat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Restraint Failure	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0
Restraint Use Unknown	44	1	13	52	0	11	58	2	14	75	2	24	67	0	27
Helmet Worn	5	1	3	9	2	7	3	0	3	5	1	3	5	1	3
Helmet Not Worn	9	0	9	5	1	4	11	2	7	9	1	7	8	1	7
Helmet Use Unknown	1	0	1	0	0	0	2	0	1	1	1	0	1	0	0
Uncoded & Errors	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</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>	<b>311</b>	<b>8</b>	<b>117</b>

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

Age Group	2017			2018			2019			2020			2021		
	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	2	0	0	0	0	0	3	0	1	3	0	1
16 - 20	10	1	7	15	1	9	14	0	8	13	1	5	14	0	8
21 - 24	24	2	17	7	0	4	5	0	5	10	0	6	16	0	7
25 - 64	87	3	36	74	6	36	78	4	35	90	7	37	97	5	35
65 +	13	1	7	11	0	3	13	1	5	7	1	2	15	1	5
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	135	7	67	109	7	52	110	5	53	123	9	51	145	6	56

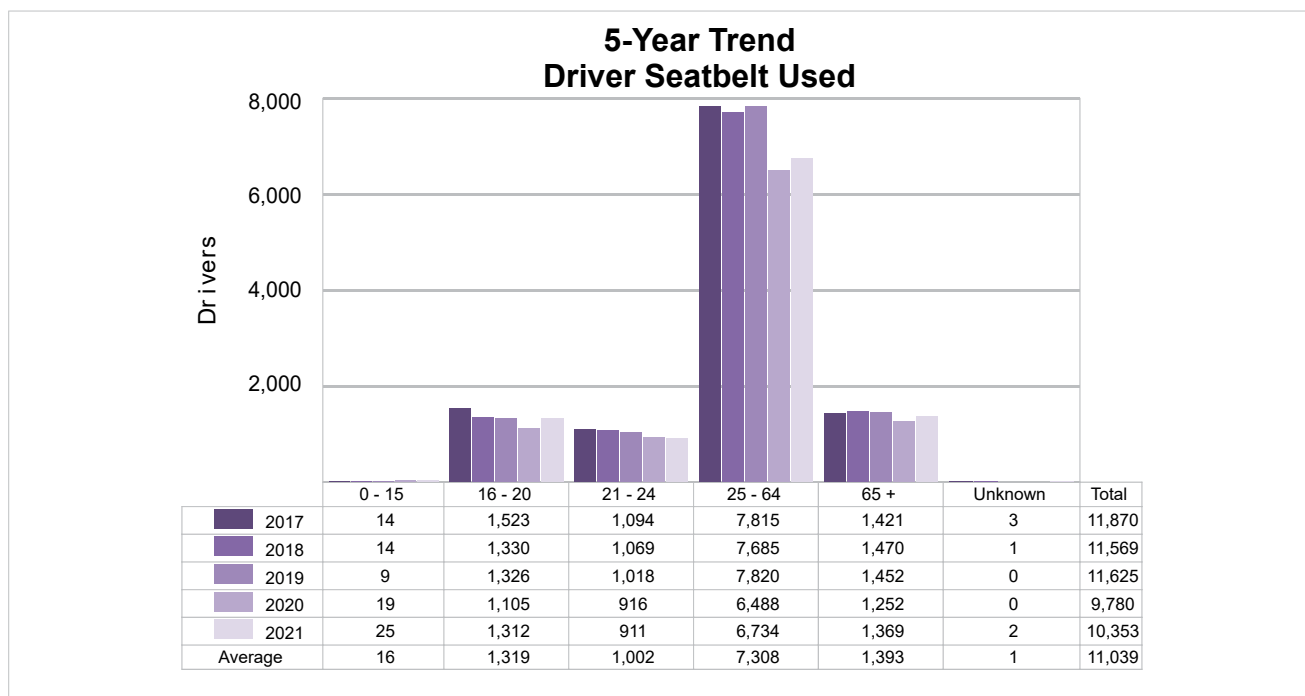
Note: Seatbelt Not Used includes no belts available or no belts used.



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

Age Group	2017			2018			2019			2020			2021		
	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	14	0	0	14	0	1	9	0	0	19	0	6	25	0	3
16 - 20	1,523	2	173	1,330	0	148	1,326	3	138	1,105	1	126	1,312	2	139
21 - 24	1,094	0	95	1,069	1	115	1,018	0	94	916	0	91	911	2	90
25 - 64	7,815	9	739	7,685	3	768	7,820	9	644	6,488	4	564	6,734	6	606
65 +	1,421	6	148	1,470	2	153	1,452	6	159	1,252	4	148	1,369	3	121
Unknown	3	0	0	1	0	0	0	0	0	0	0	0	2	0	0
<b>Total</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>	<b>10,353</b>	<b>13</b>	<b>959</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	2017		2018		2019		2020		2021	
	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	7,432	28	7,569	23	7,679	28	6,833	35	7,179	19
Speed Too Fast	1,457	13	1,374	7	1,503	8	1,142	10	1,267	4
Speed Too Slow	5	0	5	0	6	1	3	0	4	0
Failed to Yield	1,186	8	1,273	6	1,175	10	969	2	1,100	4
Disregard Traffic Control	226	2	297	2	288	2	277	5	251	3
Drove Wrong Way	5	0	9	0	6	0	9	0	9	0
Drove Left of Center	96	5	90	2	81	2	63	2	94	0
Improper Passing	74	0	74	0	57	0	89	1	80	2
Improper Lane Use	228	0	234	0	242	0	232	0	238	2
Improper Turn	74	0	95	0	135	0	86	2	95	1
Improper/No Signal	16	0	19	0	11	0	18	0	10	0
Improper Backing	215	0	191	0	187	0	146	0	168	0
Unable to Stop in Assured Clear Distance	1,179	1	985	0	1,006	4	762	3	850	2
Other	325	1	305	2	328	6	258	1	289	1
Unknown	334	3	329	5	342	8	286	4	415	3
Reckless Driving	68	1	59	3	42	2	73	6	57	6
Careless/Negligent Driving	327	1	326	3	248	2	234	3	206	2
Uncoded & Errors	239	0	15	0	16	0	0	0	0	0
<b>Total</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>	<b>12,312</b>	<b>49</b>

### Office of Highway Safety Planning

---

Physical Address:  
7150 Harris Drive  
Dimondale, Michigan 48821

Mailing Address:  
P.O. Box 30634  
Lansing, Michigan 48909

Find us on the web:  
[MichiganTrafficCrashFacts.org](http://MichiganTrafficCrashFacts.org)  
[mtcf-info@umich.edu](mailto:mtcf-info@umich.edu)

