



2016

**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

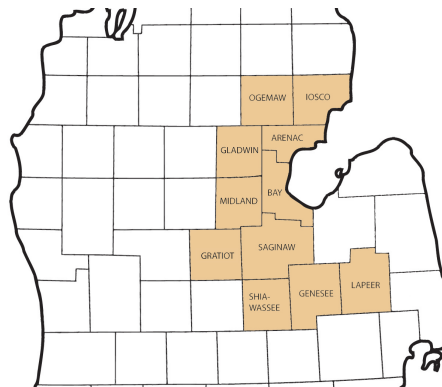
Property Damage Only (PDO)



## Traffic Safety Network Saginaw Valley

### 2016 Traffic Crash Data & 2012-2016 5-Year Trends

Traffic Safety NetworkSaginaw Valley is comprised of Arenac, Bay, Genesee, Gladwin, Gratiot, Iosco, Lapeer, Midland, Ogemaw, Saginaw, and Shiawassee 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 Saginaw Valley Experience

In 2016:

There were 48,648 drivers involved in 30,965 motor vehicle crashes in Traffic Safety Network Saginaw Valley. Of those crashes, 105 were classified as fatal, resulting in 113 fatalities. An additional 8,271 persons were injured.

Traffic Safety Network Saginaw Valley experienced the highest number of motor vehicle crashes (3,277) in December, the highest number of fatal crashes (16) and the highest number of persons killed (18) in October.

Michigan driver statistics indicate 6.6 percent of licensed drivers in Traffic Safety Network Saginaw Valley were age 16-20, and 12.2 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	2,947	8	453	2,486	9	612
February	2,805	7	450	2,348	9	602
March	2,330	5	422	1,903	5	587
April	2,192	3	426	1,763	3	593
May	2,117	7	472	1,638	7	657
June	2,316	8	519	1,789	10	737
July	2,213	9	526	1,678	9	747
August	2,218	9	585	1,624	9	828
September	2,410	12	528	1,870	12	766
October	2,878	16	523	2,339	18	753
November	3,262	10	508	2,744	10	699
December	3,277	11	512	2,754	12	690
<b>Total</b>	<b>30,965</b>	<b>105</b>	<b>5,924</b>	<b>24,936</b>	<b>113</b>	<b>8,271</b>

## 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	97	0.5	19.5
16 - 20	672,666	471,135	5,955	88.5	126.4
21 - 24	570,792	470,489	4,639	81.3	98.6
25 - 64	5,149,843	4,748,323	29,295	56.9	61.7
65 +	1,611,755	1,437,067	5,589	34.7	38.9
Unknown	0	0	3,073	--	--
<b>Total</b>	<b>9,928,300</b>	<b>7,176,692</b>	<b>48,648</b>	<b>49.0</b>	<b>67.8</b>

## 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	37,666	77.4	97	62.2	8,017	29,552
Motor home	767	1.6	4	2.6	137	626
Pickup truck	7,627	15.7	24	15.4	1,514	6,089
Small truck under 10,000 lbs. GVWR	385	0.8	0	0.0	78	307
Motorcycle	399	0.8	15	9.6	312	72
Moped / goped	34	0.1	1	0.6	31	2
Go-cart / golf cart	5	0.0	0	0.0	3	2
Snowmobile	4	0.0	0	0.0	2	2
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	44	0.1	3	1.9	37	4
Other	222	0.5	2	1.3	38	182
Truck/bus over 10,000 lbs.	894	1.8	9	5.8	180	705
Unknown	601	1.2	1	0.6	57	543
<b>Total</b>	<b>48,648</b>	<b>100.0</b>	<b>156</b>	<b>100.0</b>	<b>10,406</b>	<b>38,086</b>

# Traffic Safety Network Saginaw Valley (continued)

## 5-Year Trend - Crashes by Month

Month	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
January	3,068	3	2,886	8	3,599	5	3,195	6	2,947	8
February	2,640	5	2,628	8	2,623	8	2,397	2	2,805	7
March	1,930	14	2,231	6	2,407	5	2,082	5	2,330	5
April	1,809	5	2,000	6	1,824	4	1,882	7	2,192	3
May	2,243	9	2,280	11	2,134	5	2,315	13	2,117	7
June	2,173	12	2,177	5	2,252	13	2,349	10	2,316	8
July	1,982	11	1,999	9	1,926	6	2,065	14	2,213	9
August	1,924	10	1,961	8	1,895	10	1,957	8	2,218	9
September	2,201	12	2,200	12	2,142	6	2,245	13	2,410	12
October	2,895	14	2,844	9	3,021	5	3,136	11	2,878	16
November	3,017	7	3,485	7	3,578	7	3,651	11	3,262	10
December	2,829	7	3,519	6	2,380	6	2,706	9	3,277	11
<b>Total</b>	<b>28,711</b>	<b>109</b>	<b>30,210</b>	<b>95</b>	<b>29,781</b>	<b>80</b>	<b>29,980</b>	<b>109</b>	<b>30,965</b>	<b>105</b>

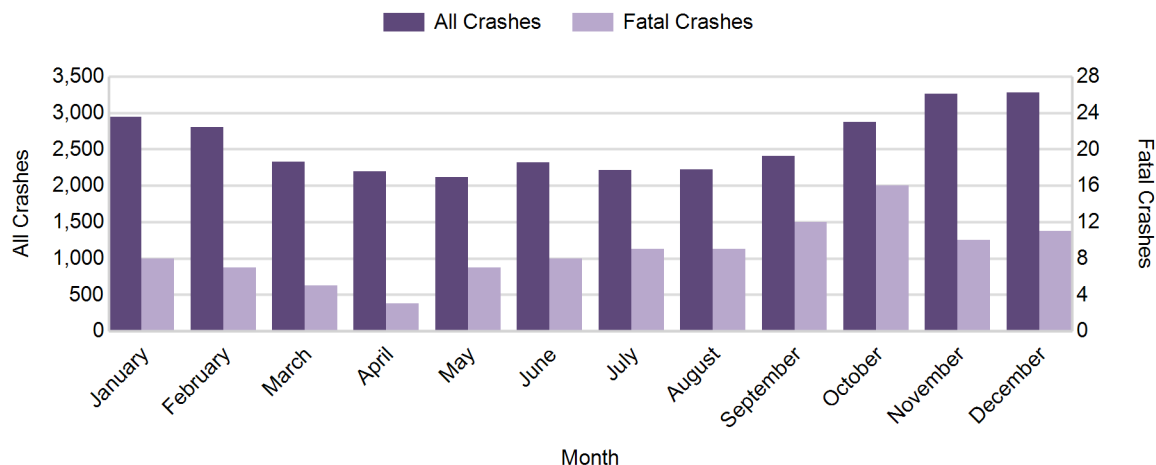
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

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

Day	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
Monday	3,922	11	4,451	13	4,042	7	4,303	15	4,396	14
Tuesday	4,003	13	4,472	9	4,404	10	4,525	17	4,689	11
Wednesday	3,944	8	4,436	10	4,740	10	4,522	11	4,946	14
Thursday	4,143	14	4,674	11	4,899	9	4,410	8	4,505	12
Friday	5,600 †	22	4,808 †	15	4,914 †	9	4,752 †	24	5,016 †	21
Saturday	3,748	22	4,000	24	3,589	19	4,172	22	3,916	18
Sunday	3,351	19	3,369	13	3,193	16	3,296	12	3,497	15
<b>Total</b>	<b>28,711</b>	<b>109</b>	<b>30,210</b>	<b>95</b>	<b>29,781</b>	<b>80</b>	<b>29,980</b>	<b>109</b>	<b>30,965</b>	<b>105</b>

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

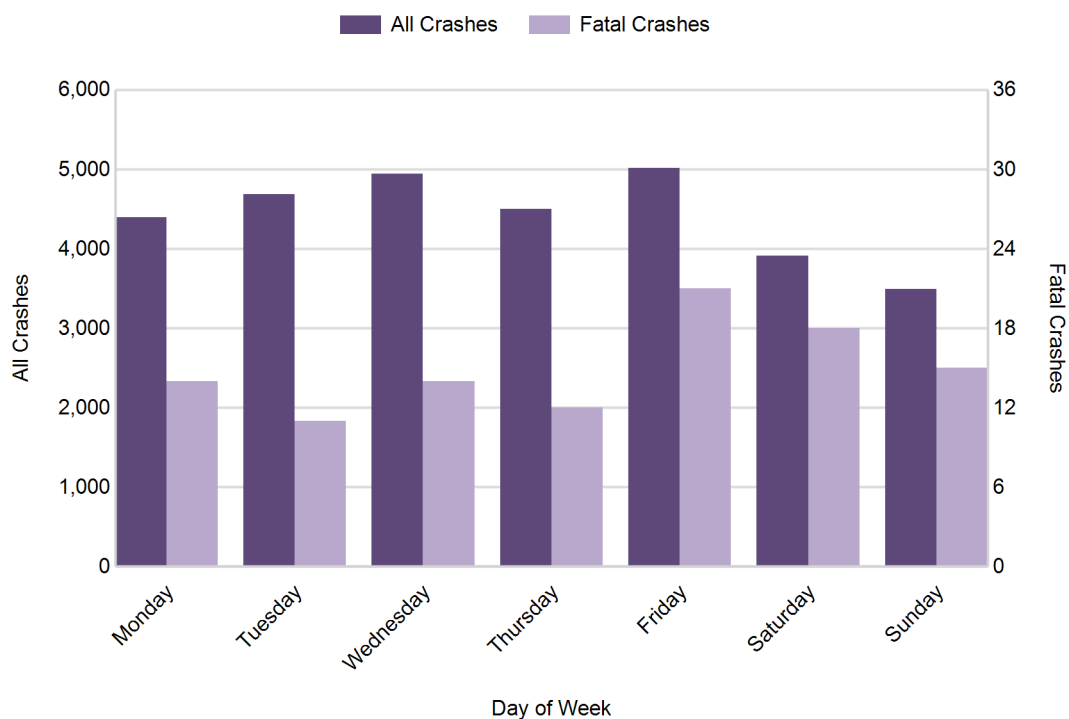
## 2016 Crashes by Month



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	4,396	14.2	14	13.3	81	205	556	3,540
Tuesday	4,689	15.1	11	10.5	65	218	562	3,833
Wednesday	4,946	16.0	14	13.3	70	213	648	4,001
Thursday	4,505	14.5	12	11.4	71	239	573	3,610
Friday	5,016	16.2	21	20.0	82	257	658	3,998
Saturday	3,916	12.6	18	17.1	78	220	483	3,117
Sunday	3,497	11.3	15	14.3	79	181	385	2,837
<b>Total</b>	<b>30,965</b>	<b>100.0</b>	<b>105</b>	<b>100.0</b>	<b>526</b>	<b>1,533</b>	<b>3,865</b>	<b>24,936</b>

2016 Day of Week and Severity

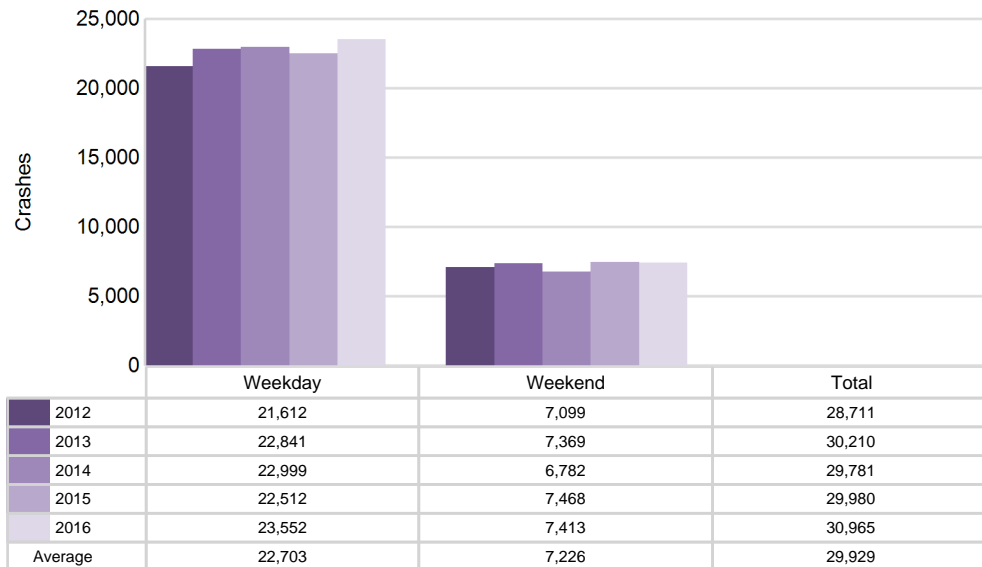


## Traffic Safety Network Saginaw Valley (continued)

### 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	21,612	68	22,841	58	22,999	45	22,512	75	23,552	72
Weekend	7,099	41	7,369	37	6,782	35	7,468	34	7,413	33
<b>Total</b>	<b>28,711</b>	<b>109</b>	<b>30,210</b>	<b>95</b>	<b>29,781</b>	<b>80</b>	<b>29,980</b>	<b>109</b>	<b>30,965</b>	<b>105</b>

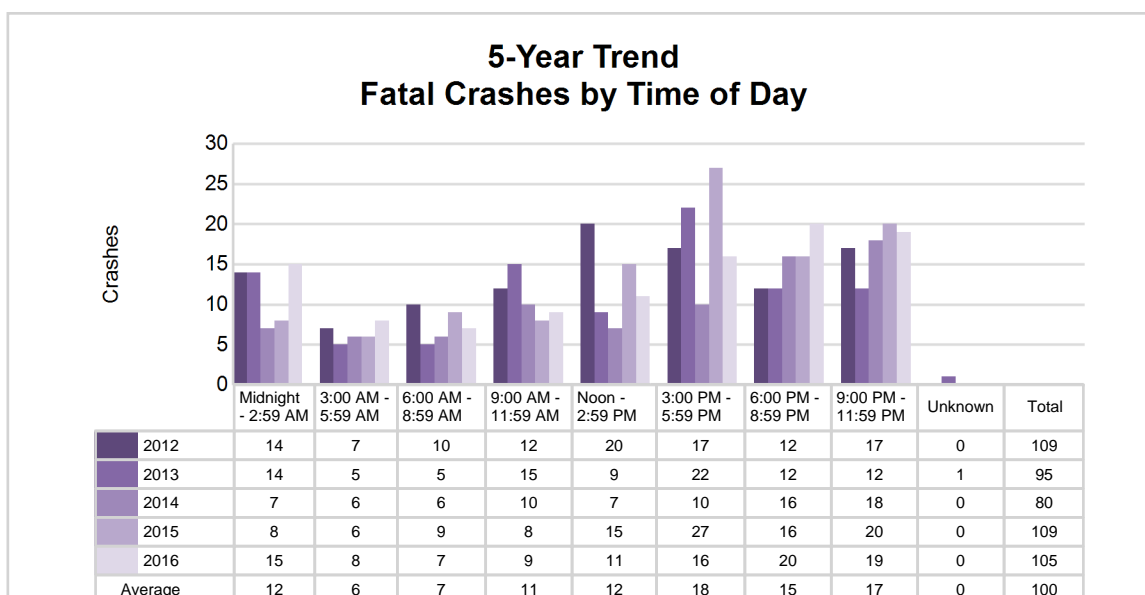
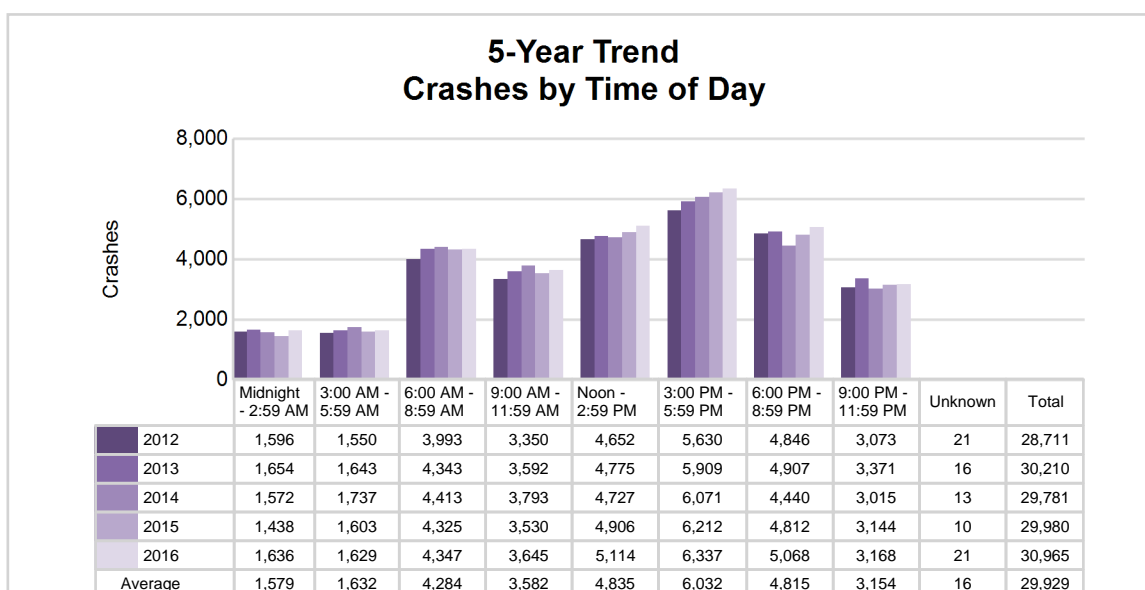
### 5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



## 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	1,596	14	1,654	14	1,572	7	1,438	8	1,636	15
3:00 AM - 5:59 AM	1,550	7	1,643	5	1,737	6	1,603	6	1,629	8
6:00 AM - 8:59 AM	3,993	10	4,343	5	4,413	6	4,325	9	4,347	7
9:00 AM - 11:59 AM	3,350	12	3,592	15	3,793	10	3,530	8	3,645	9
Noon - 2:59 PM	4,652	20	4,775	9	4,727	7	4,906	15	5,114	11
3:00 PM - 5:59 PM	5,630 †	17	5,909 †	22	6,071 †	10	6,212 †	27	6,337 †	16
6:00 PM - 8:59 PM	4,846	12	4,907	12	4,440	16	4,812	16	5,068	20
9:00 PM - 11:59 PM	3,073	17	3,371	12	3,015	18	3,144	20	3,168	19
Unknown	21	0	16	1	13	0	10	0	21	0
<b>Total</b>	<b>28,711</b>	<b>109</b>	<b>30,210</b>	<b>95</b>	<b>29,781</b>	<b>80</b>	<b>29,980</b>	<b>109</b>	<b>30,965</b>	<b>105</b>

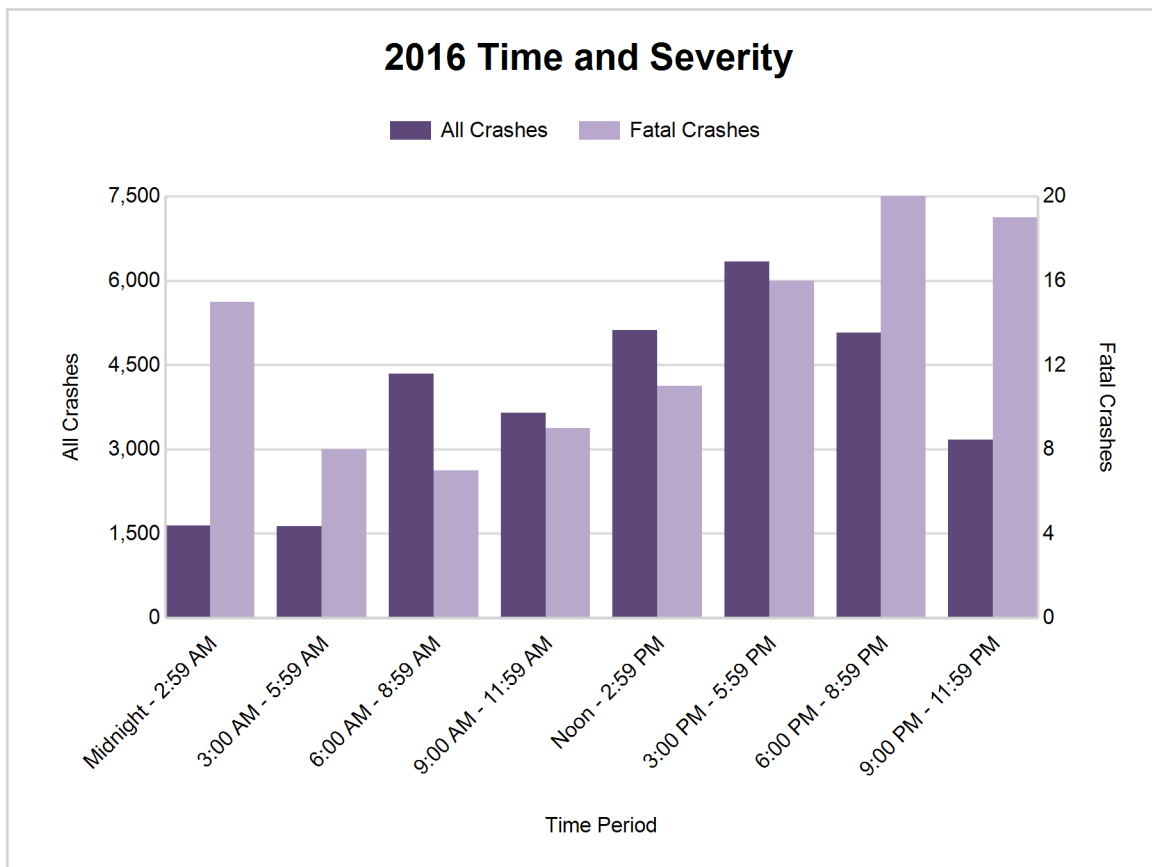
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same time period



# Traffic Safety Network Saginaw Valley (continued)

## 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	1,636	5.3	15	14.3	42	86	153	1,340
3:00 AM	- 5:59 AM	1,629	5.3	8	7.6	29	69	123	1,400
6:00 AM	- 8:59 AM	4,347	14.0	7	6.7	48	156	405	3,731
9:00 AM	- 11:59 AM	3,645	11.8	9	8.6	61	214	556	2,805
Noon	- 2:59 PM	5,114	16.5	11	10.5	97	266	815	3,925
3:00 PM	- 5:59 PM	6,337	20.5	16	15.2	112	340	978	4,891
6:00 PM	- 8:59 PM	5,068	16.4	20	19.0	82	226	547	4,193
9:00 PM	- 11:59 PM	3,168	10.2	19	18.1	54	173	288	2,634
Unknown		21	0.1	0	0.0	1	3	0	17
<b>Total</b>		<b>30,965</b>	<b>100.0</b>	<b>105</b>	<b>100.0</b>	<b>526</b>	<b>1,533</b>	<b>3,865</b>	<b>24,936</b>

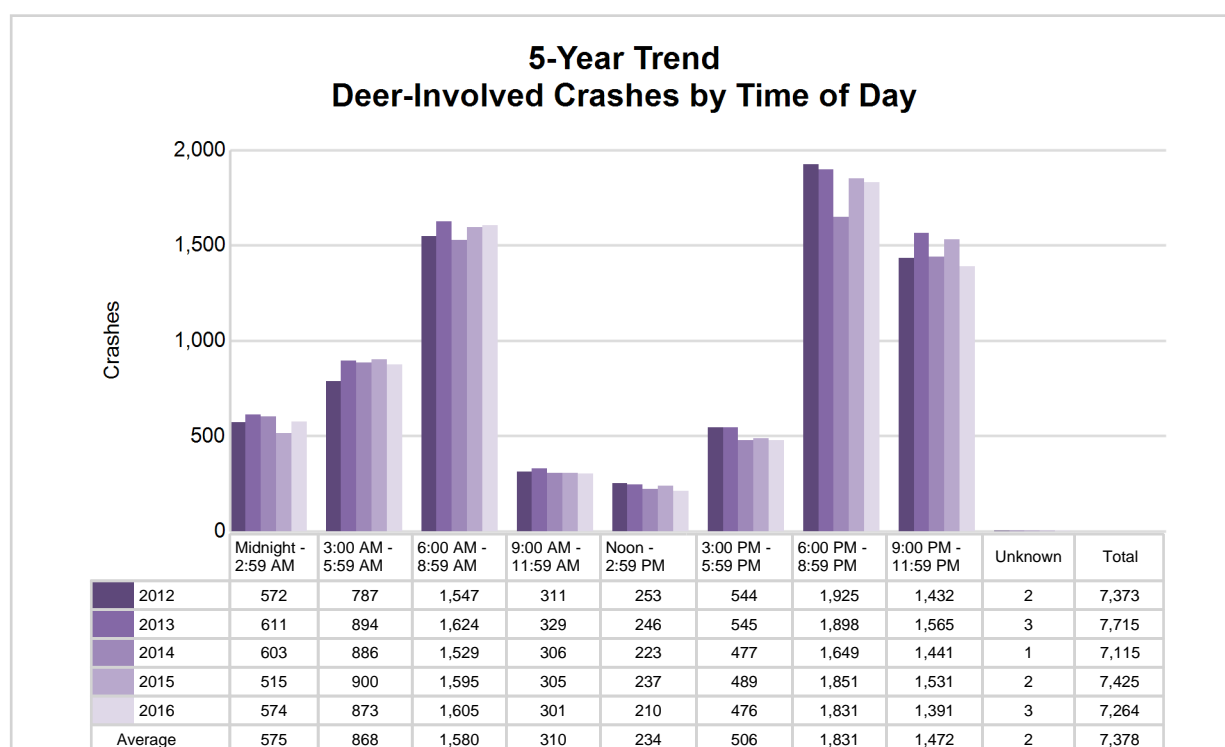




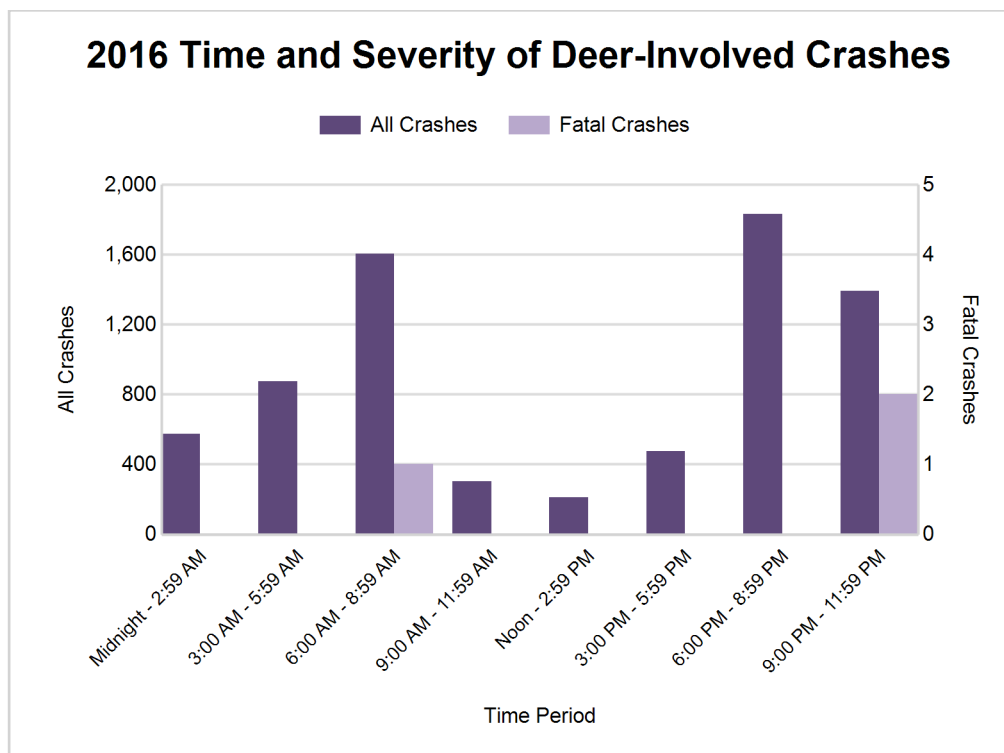
## 5-Year Trend - Deer-Involved Crashes by Time of Day

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	572	1	611	0	603	1	515	0	574	0
3:00 AM - 5:59 AM	787	0	894	0	886	0	900	0	873	0
6:00 AM - 8:59 AM	1,547	0	1,624	0	1,529	0	1,595	1	1,605	1
9:00 AM - 11:59 AM	311	0	329	0	306	0	305	0	301	0
Noon - 2:59 PM	253	0	246	0	223	0	237	0	210	0
3:00 PM - 5:59 PM	544	2	545	0	477	0	489	0	476	0
6:00 PM - 8:59 PM	1,925 †	0	1,898 †	0	1,649 †	0	1,851 †	0	1,831 †	0
9:00 PM - 11:59 PM	1,432	0	1,565	0	1,441	1	1,531	0	1,391	2
Unknown	2	0	3	0	1	0	2	0	3	0
<b>Total</b>	<b>7,373</b>	<b>3</b>	<b>7,715</b>	<b>0</b>	<b>7,115</b>	<b>2</b>	<b>7,425</b>	<b>1</b>	<b>7,264</b>	<b>3</b>

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



## Traffic Safety Network Saginaw Valley (continued)



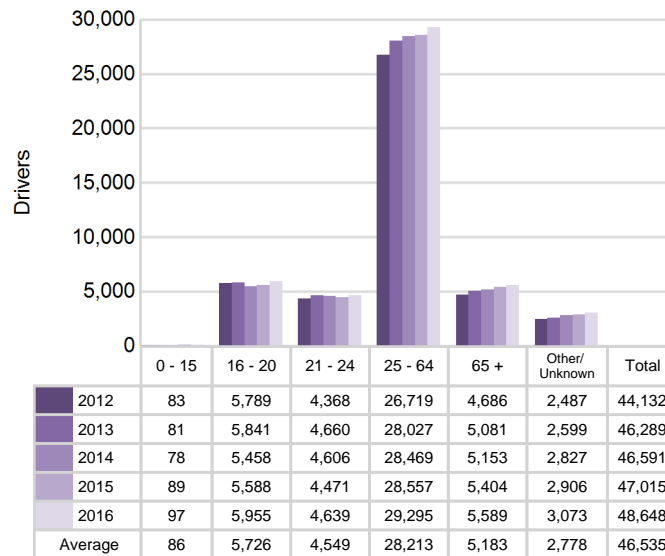
### 2016 - Reported Motor Vehicle Crashes by County

County	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Arenac	629	1	104	524	122	147	68	291	38	5	235	1	138
Bay	3,007	8	600	2,399	280	133	940	1,650	146	28	513	10	816
Genesee	10,521	49	2,424	8,048	1,805	382	1,480	6,808	304	112	1,000	50	3,361
Gladwin	455	2	135	318	0	0	174	277	37	5	74	2	196
Gratiot	1,688	2	203	1,483	0	408	306	974	38	19	917	2	290
Iosco	631	1	119	511	0	167	145	317	35	8	214	1	159
Lapeer	3,018	10	435	2,573	206	0	903	1,906	103	23	1,308	11	608
Midland	2,672	3	397	2,272	0	355	431	1,877	66	10	948	3	544
Ogemaw	788	4	122	662	138	0	253	390	22	10	401	5	178
Saginaw	5,729	12	1,090	4,627	667	0	1,974	3,086	196	50	901	14	1,570
Shiawassee	1,827	13	295	1,519	224	0	532	1,069	71	19	753	14	411
<b>Total</b>	<b>30,965</b>	<b>105</b>	<b>5,924</b>	<b>24,936</b>	<b>3,442</b>	<b>1,592</b>	<b>7,206</b>	<b>18,645</b>	<b>1,056</b>	<b>289</b>	<b>7,264</b>	<b>113</b>	<b>8,271</b>

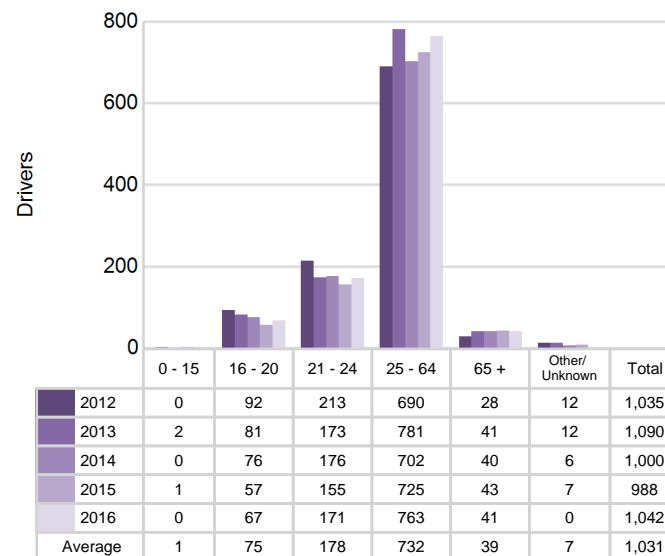
## 5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

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	83	0	81	2	78	0	89	1	97	0
16 - 20	5,789	92	5,841	81	5,458	76	5,588	57	5,955	67
21 - 24	4,368	213	4,660	173	4,606	176	4,471	155	4,639	171
25 - 64	26,719	690	28,027	781	28,469	702	28,557	725	29,295	763
65 +	4,686	28	5,081	41	5,153	40	5,404	43	5,589	41
Unknown	2,487	12	2,599	12	2,827	6	2,906	7	3,073	0
<b>Total</b>	<b>44,132</b>	<b>1,035</b>	<b>46,289</b>	<b>1,090</b>	<b>46,591</b>	<b>1,000</b>	<b>47,015</b>	<b>988</b>	<b>48,648</b>	<b>1,042</b>

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



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



# Traffic Safety Network Saginaw Valley (continued)

## 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	0	1	0	0	0	0	0	0	0
16 - 20	90	99	54	67	2	11	18	11	25
21 - 24	196	167	141	171	3	18	52	39	59
25 - 64	979	765	608	763	9	48	177	173	356
65 +	84	52	33	41	0	4	15	6	16
Unknown	65	2	0	0	0	0	0	0	0
<b>Total</b>	<b>1,414</b>	<b>1,086</b>	<b>836</b>	<b>1,042</b>	<b>14</b>	<b>81</b>	<b>262</b>	<b>229</b>	<b>456</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 2016, there were 1,414 drivers in alcohol-involved crashes; 1,042 (73.7%) of those drivers were coded as had-been-drinking by the officer on the crash form.

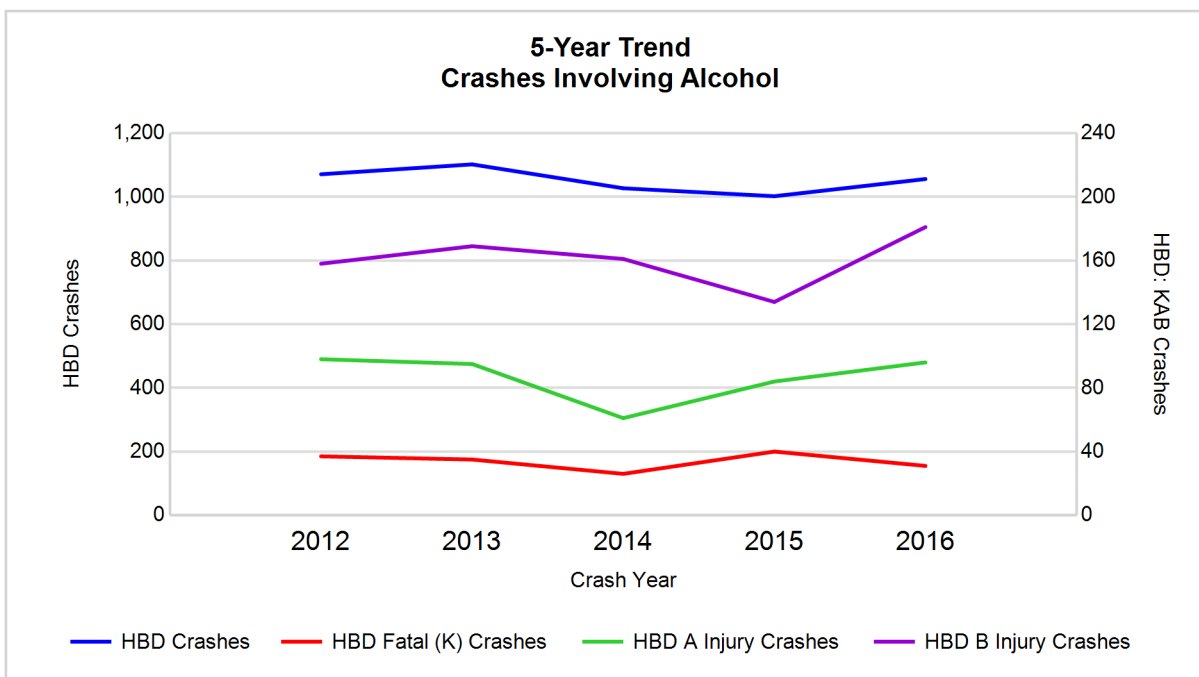
- 491 (47.1%) of the 1,042 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 229 (46.6%) of the 491 drivers had a BAC at or above 0.17 g/dL.
- 836 (80.2%) of the 1,042 drivers were coded as had-been-drinking and were tested for alcohol consumption.

## 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	28,711	1,071	3.7	109	37	33.9	467	98	21.0	1,283	158	12.3
2013	30,210	1,102	3.6	95	35	36.8	475	95	20.0	1,298	169	13.0
2014	29,781	1,027	3.4	80	26	32.5	381	61	16.0	1,185	161	13.6
2015	29,980	1,002	3.3	109	40	36.7	407	84	20.6	1,336	134	10.0
2016	30,965**	1,056	3.4	105	31	29.5*	526**	96	18.3	1,533**	181**	11.8

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



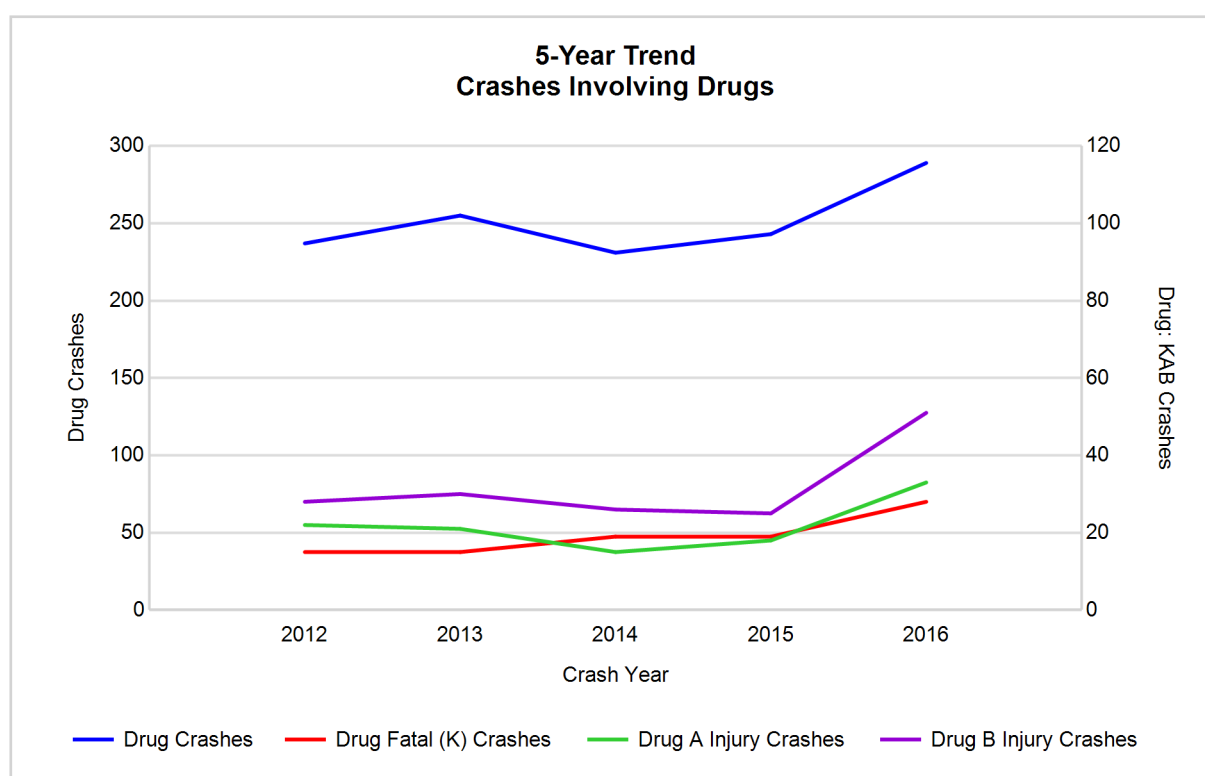
Note: Had-Been-Drinking (HBD)

## 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
2012	28,711	237	0.8	109	15	13.8	467	22	4.7	1,283	28	2.2
2013	30,210	255	0.8	95	15	15.8	475	21	4.4	1,298	30	2.3
2014	29,781	231	0.8	80	19	23.8	381	15	3.9	1,185	26	2.2
2015	29,980	243	0.8	109	19	17.4	407	18	4.4	1,336	25	1.9
2016	30,965**	289**	0.9**	105	28**	26.7**	526**	33**	6.3**	1,533**	51**	3.3**

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

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



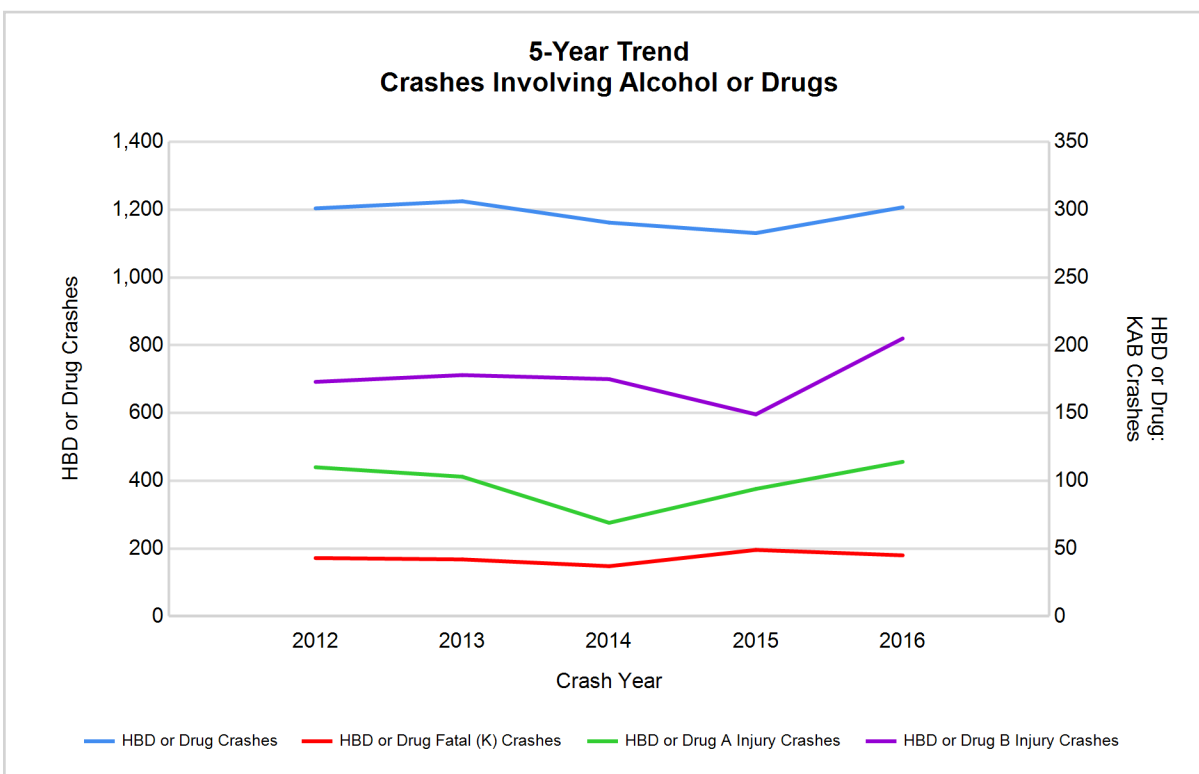
# Traffic Safety Network Saginaw Valley (continued)

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

Year	All Crashes	HBD or Drug Crashes	% HBD or Drug	Fatal Crashes	HBD or Drug Fatal Crashes	% HBD or Drug	A Injury Crashes	HBD or Drug A Injury Crashes	% HBD or Drug	B Injury Crashes	HBD or Drug B Injury Crashes	% HBD or Drug
2012	28,711	1,204	4.2	109	43	39.4	467	110	23.6	1,283	173	13.5
2013	30,210	1,225	4.1	95	42	44.2	475	103	21.7	1,298	178	13.7
2014	29,781	1,162	3.9	80	37	46.3	381	69	18.1	1,185	175	14.8
2015	29,980	1,131	3.8	109	49	45.0	407	94	23.1	1,336	149	11.2
2016	30,965**	1,207	3.9	105	45	42.9	526**	114**	21.7	1,533**	205**	13.4

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)

# Traffic Safety Network Saginaw Valley (continued)

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## 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	39,447	36,262	91.9	58	36	62.1	407	318	78.1	1,376	1,218	88.5	4,627	4,418	95.5	31,057	30,245	97.4
Motor home	798	719	90.1	2	1	50.0	7	7	100.0	21	16	76.2	72	70	97.2	646	625	96.7
Pickup truck	7,871	7,204	91.5	8	3	37.5	71	46	64.8	280	237	84.6	625	587	93.9	6,497	6,318	97.2
Small truck under 10,000 lbs. GVWR	393	364	92.6	0	0	0.0	0	0	0.0	9	9	100.0	33	32	97.0	327	323	98.8
Motorcycle	433	270	62.4	14	5	35.7	88	44	50.0	137	90	65.7	106	79	74.5	82	52	63.4
Moped / goped	34	8	23.5	1	0	0.0	7	1	14.3	16	4	25.0	8	3	37.5	2	0	0.0
Go-cart / golf cart	10	1	10.0	0	0	0.0	3	0	0.0	3	0	0.0	0	0	0.0	4	1	25.0
Snowmobile	6	6	100.0	0	0	0.0	1	1	100.0	0	0	0.0	3	3	100.0	2	2	100.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	59	15	25.4	3	1	33.3	17	5	29.4	19	5	26.3	11	2	18.2	8	2	25.0
Other	225	136	60.4	1	0	0.0	0	0	0.0	8	4	50.0	9	6	66.7	174	126	72.4
Truck/bus over 10,000 lbs.	918	834	90.8	0	0	0.0	3	1	33.3	10	9	90.0	52	32	61.5	828	791	95.5
Unknown	601	6	1.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	9	6	66.7
<b>Total</b>	<b>50,795</b>	<b>45,825</b>	<b>90.2</b>	<b>87</b>	<b>46</b>	<b>52.9</b>	<b>604</b>	<b>423</b>	<b>70.0</b>	<b>1,879</b>	<b>1,592</b>	<b>84.7</b>	<b>5,546</b>	<b>5,232</b>	<b>94.3</b>	<b>39,636</b>	<b>38,491</b>	<b>97.1</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.

## 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	620	533	86.0	6	3	50.0	34	22	64.7	114	91	79.8	387	349	90.2	76	67	88.2
16 - 20	6,272	6,018	96.0	5	2	40.0	68	48	70.6	302	248	82.1	712	664	93.3	5,177	5,052	97.6
21 - 24	4,806	4,585	95.4	7	4	57.1	58	39	67.2	235	196	83.4	472	437	92.6	4,023	3,908	97.1
25 - 64	30,180	28,964	96.0	56	27	48.2	364	246	67.6	965	813	84.2	3,255	3,082	94.7	25,469	24,780	97.3
65 +	5,839	5,698	97.6	13	10	76.9	79	68	86.1	261	243	93.1	717	698	97.4	4,749	4,671	98.4
Unknown	3,078	27	0.9	0	0	0.0	1	0	0.0	2	1	50.0	3	2	66.7	142	13	9.2
<b>Total</b>	<b>50,795</b>	<b>45,825</b>	<b>90.2</b>	<b>87</b>	<b>46</b>	<b>52.9</b>	<b>604</b>	<b>423</b>	<b>70.0</b>	<b>1,879</b>	<b>1,592</b>	<b>84.7</b>	<b>5,546</b>	<b>5,232</b>	<b>94.3</b>	<b>39,636</b>	<b>38,491</b>	<b>97.1</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.

# Traffic Safety Network Saginaw Valley (continued)

## 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	330	1	58	314	0	65	414	2	52	294	3	52	153	1	25
Shoulder belt only used	95	0	33	113	1	10	80	0	7	42	0	5	123	0	21
Lap belt only used	112	0	15	148	0	15	225	1	20	297	0	32	218	1	24
Both lap & shoulder belts used	39,415	42	4,538	41,550	21	4,563	41,450	25	4,331	41,834	27	4,617	43,336	30	5,155
No belts used	367	25	169	317	18	156	357	18	135	410	23	176	399	11	176
Child restraint used	1	0	0	2	0	0	0	0	0	1	0	0	10	0	0
Child restraint not used, unavailable or improper use	3	0	1	1	0	0	2	0	0	1	0	0	0	0	0
Restraint failure	13	0	1	10	0	4	20	0	5	23	0	1	20	0	2
Restraint use unknown	1,856	4	212	1,864	6	162	1,718	2	143	1,588	5	139	2,988	8	138
Helmet worn	300	6	213	262	9	177	231	3	164	234	6	165	276	6	212
Helmet not worn	136	6	111	138	8	108	137	6	103	150	13	107	174	11	126
Helmet use unknown	25	1	14	16	0	7	18	3	8	33	2	12	36	0	22
Uncoded & errors	1,479	0	13	1,554	0	7	1,939	0	3	2,108	0	4	915	0	0
<b>Total</b>	<b>44,132</b>	<b>85</b>	<b>5,378</b>	<b>46,289</b>	<b>63</b>	<b>5,274</b>	<b>46,591</b>	<b>60</b>	<b>4,971</b>	<b>47,015</b>	<b>79</b>	<b>5,310</b>	<b>48,648</b>	<b>68</b>	<b>5,901</b>

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

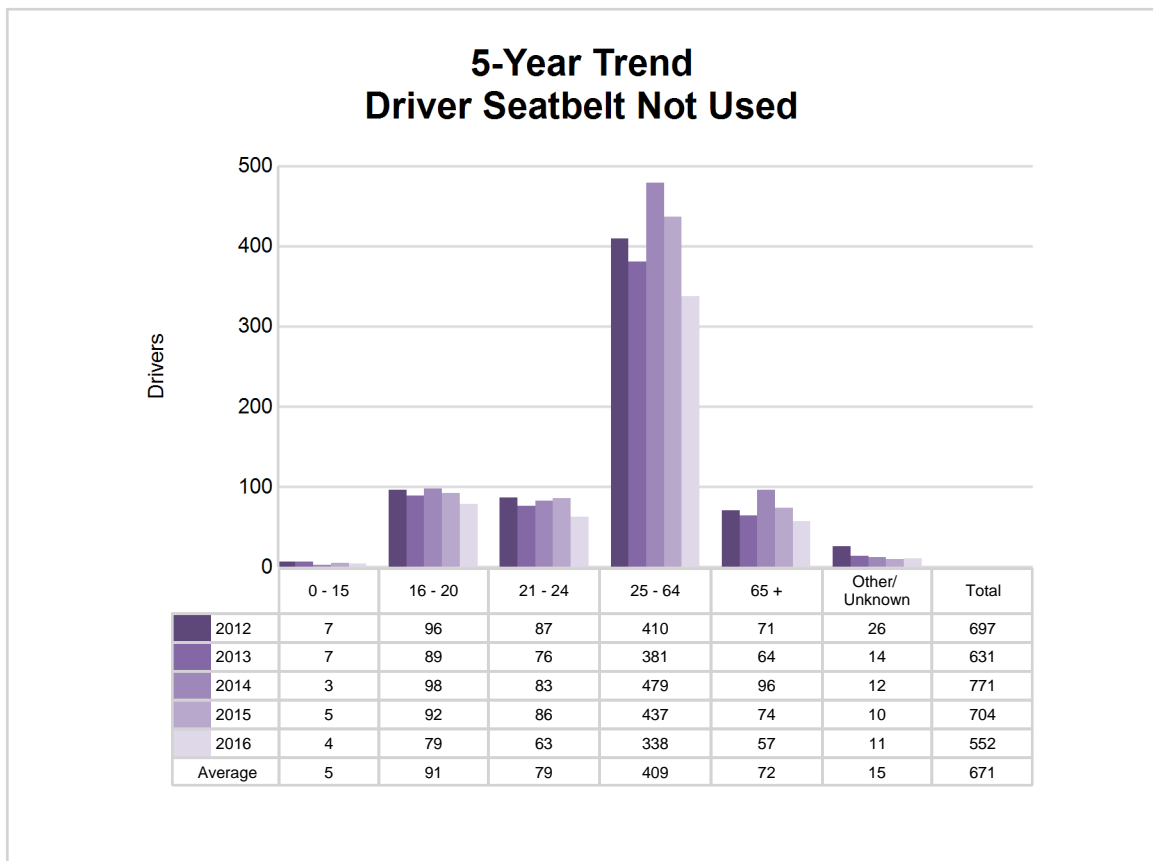
Restraint Use	2012			2013			2014			2015			2016		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	10	1	7	17	0	10	12	0	5	9	1	7	3	0	2
Shoulder belt only used	0	0	0	8	0	1	0	0	0	0	0	0	4	0	1
Lap belt only used	2	0	2	2	0	0	5	0	3	7	0	3	4	0	1
Both lap & shoulder belts used	727	8	202	775	1	219	705	3	184	712	6	178	768	4	236
No belts used	85	7	58	69	11	41	70	7	40	78	9	53	84	6	55
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	1	0	1	1	0	0	1	0	0
Restraint use unknown	159	2	54	165	2	43	174	1	51	134	3	38	137	4	34
Helmet worn	16	1	13	19	3	16	8	0	4	13	2	10	11	1	9
Helmet not worn	23	1	21	29	4	22	21	3	15	27	7	19	29	2	22
Helmet use unknown	5	0	5	2	0	2	1	0	1	3	0	3	1	0	1
Uncoded & errors	8	0	1	4	0	0	3	0	0	4	0	1	0	0	0
<b>Total</b>	<b>1,035</b>	<b>20</b>	<b>363</b>	<b>1,090</b>	<b>21</b>	<b>354</b>	<b>1,000</b>	<b>14</b>	<b>304</b>	<b>988</b>	<b>28</b>	<b>312</b>	<b>1,042</b>	<b>17</b>	<b>361</b>



## 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	7	0	3	7	0	2	3	1	1	5	1	4	4	0	1
16 - 20	96	3	37	89	1	37	98	3	26	92	3	30	79	1	34
21 - 24	87	4	35	76	1	28	83	1	25	86	2	34	63	1	28
25 - 64	410	13	134	381	13	133	479	10	116	437	15	138	338	8	117
65 +	71	6	16	64	3	19	96	5	19	74	5	19	57	2	21
Unknown	26	0	2	14	0	2	12	0	0	10	0	3	11	0	0
<b>Total</b>	<b>697</b>	<b>26</b>	<b>227</b>	<b>631</b>	<b>18</b>	<b>221</b>	<b>771</b>	<b>20</b>	<b>187</b>	<b>704</b>	<b>26</b>	<b>228</b>	<b>552</b>	<b>12</b>	<b>201</b>

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



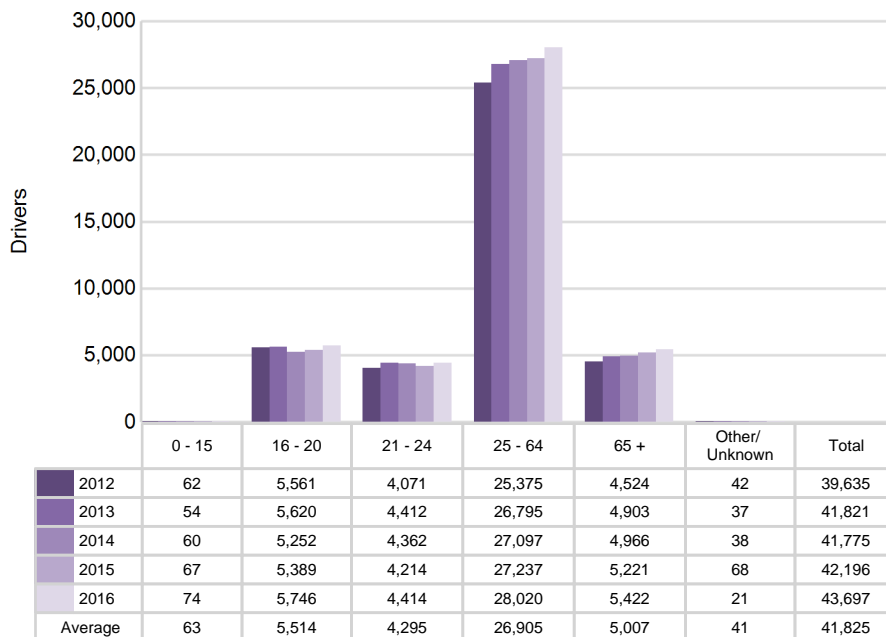
# Traffic Safety Network Saginaw Valley (continued)

## 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	62	0	11	54	0	8	60	0	7	67	0	7	74	0	6
16 - 20	5,561	4	643	5,620	0	647	5,252	1	564	5,389	2	634	5,746	2	694
21 - 24	4,071	5	482	4,412	1	502	4,362	2	481	4,214	0	482	4,414	3	512
25 - 64	25,375	20	2,879	26,795	13	2,855	27,097	15	2,725	27,237	17	2,872	28,020	21	3,243
65 +	4,524	13	571	4,903	8	578	4,966	8	586	5,221	8	659	5,422	5	747
Unknown	42	0	1	37	0	2	38	0	0	68	0	1	21	0	0
<b>Total</b>	<b>39,635</b>	<b>42</b>	<b>4,587</b>	<b>41,821</b>	<b>22</b>	<b>4,592</b>	<b>41,775</b>	<b>26</b>	<b>4,363</b>	<b>42,196</b>	<b>27</b>	<b>4,655</b>	<b>43,697</b>	<b>31</b>	<b>5,202</b>

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

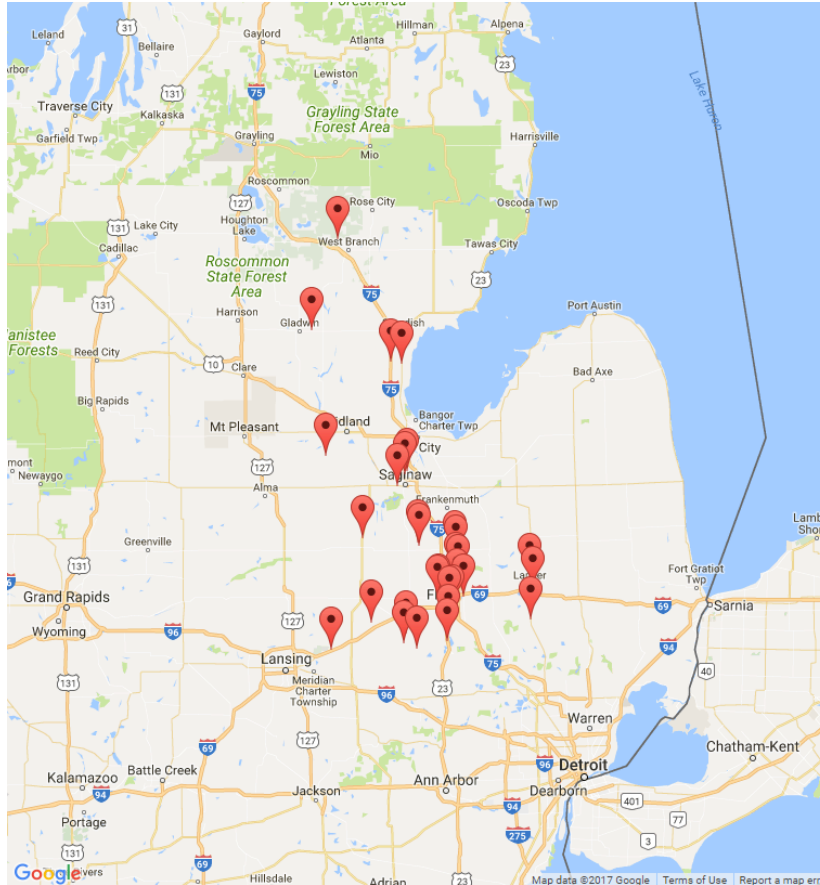
## 5-Year Trend Driver Seatbelt Used



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

Hazardous Action	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	23,588	68	24,713	51	24,949	58	25,571	71	25,909	66
Speed too fast	3,628	22	4,368	19	4,077	18	3,501	27	3,777	17
Speed too slow	47	0	46	0	51	0	53	1	44	0
Failed to yield	3,842	13	4,043	14	3,982	5	4,169	14	4,379	10
Disregard traffic control	1,256	12	1,191	5	1,174	6	1,287	8	1,219	5
Drove wrong way	37	0	27	1	46	2	47	1	43	3
Drove left of center	241	3	229	6	234	7	243	5	306	8
Improper passing	198	2	202	0	227	0	187	0	235	1
Improper lane use	671	2	726	1	747	0	795	0	827	2
Improper turn	441	1	454	0	447	1	552	0	512	1
Improper/no signal	74	0	84	0	98	0	73	0	59	0
Improper backing	745	0	732	0	778	0	786	0	802	1
Unable to stop in assured clear distance	4,841	4	4,856	5	5,210	5	5,251	6	5,475	2
Other	1,645	13	1,660	9	1,739	15	1,625	12	1,755	10
Unknown	1,135	17	1,122	15	989	11	971	14	1,443	16
Reckless driving	271	4	330	6	311	6	293	2	252	3
Careless/negligent driving	1,273	7	1,364	6	1,410	2	1,496	10	1,441	11
Uncoded & errors	199	0	142	1	122	0	115	0	170	0
<b>Total</b>	<b>44,132</b>	<b>168</b>	<b>46,289</b>	<b>139</b>	<b>46,591</b>	<b>136</b>	<b>47,015</b>	<b>171</b>	<b>48,648</b>	<b>156</b>

## Traffic Safety Network Saginaw Valley (continued)



The picture above represents all 2016 alcohol-involved fatal crashes in TSN Saginaw Valley.

In 2016, there were 1,056 alcohol-involved crashes in TSN Saginaw Valley:

- |     |  |
|-----|--|
| 31  | K - Fatal Crashes                          |
| 96  | A - Suspected Serious Injury Crashes       |
| 181 | B - Suspected Minor Injury Crashes         |
| 162 | C - Possible Injury Crashes                |
| 586 | O - Property Damage Only/No Injury Crashes |

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