



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

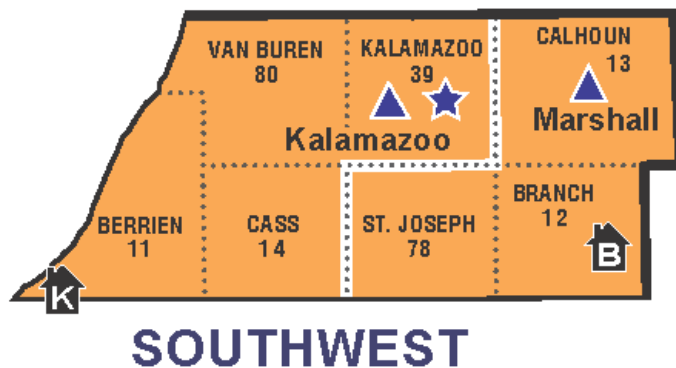
Property Damage Only (PDO)



## MDOT Region - Southwest

### 2018 Traffic Crash Data & 2014-2018 5-Year Trends

Beginning October 2015, MDOT Region - Southwest is comprised of Berrien, Branch, Calhoun, Cass, Kalamazoo, St. Joseph, and Van Buren 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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## MDOT Region - Southwest Experience

In 2018:

There were 38,097 drivers involved in 24,553 motor vehicle crashes in MDOT Region Southwest. Of those crashes, 98 were classified as fatal, resulting in 108 fatalities. An additional 5,428 persons were injured.

MDOT Region Southwest experienced the highest number of motor vehicle crashes (3,096) in November, the highest number of fatal crashes (13) and the highest number of persons killed (14) in March and July.

Michigan driver statistics indicate 6.3 percent of licensed drivers in MDOT Region Southwest were age 16-20, and 11.0 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	2,629	6	316	2,307	7	401
February	2,088	6	298	1,784	6	405
March	1,821	13	306	1,502	14	407
April	1,737	5	286	1,446	7	393
May	1,868	8	319	1,541	12	435
June	1,832	9	349	1,474	10	502
July	1,749	13	383	1,353	14	523
August	1,618	9	356	1,253	9	507
September	1,777	11	347	1,419	11	484
October	2,259	12	351	1,896	12	491
November	3,096	3	372	2,721	3	477
December	2,079	3	305	1,771	3	403
<b>Total</b>	<b>24,553</b>	<b>98</b>	<b>3,988</b>	<b>20,467</b>	<b>108</b>	<b>5,428</b>

## 2018 - Driver Statistics

Age Group	MDOT Region - Southwest			Driver Rates	
	2018 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	154,481	3,649	55	3.6	150.7
16 - 20	54,440	34,956	4,200	771.5	1,201.5
21 - 24	49,552	35,087	3,742	755.2	1,066.5
25 - 64	389,328	356,788	23,308	598.7	653.3
65 +	137,463	124,262	4,188	304.7	337.0
Unknown	0	0	2,604	-	-
<b>Total</b>	<b>785,264</b>	<b>554,742</b>	<b>38,097</b>	<b>485.1</b>	<b>686.8</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	30,343	79.6	101	67.3	5,334	24,908
Motor home	148	0.4	1	0.7	18	129
Pickup truck	4,531	11.9	27	18.0	776	3,728
Small truck under 10,000 lbs. GVWR	260	0.7	1	0.7	48	211
Motorcycle	251	0.7	13	8.7	189	49
Moped / goped	36	0.1	0	0.0	28	8
Go-cart / golf cart	3	0.0	0	0.0	1	2
Snowmobile	3	0.0	0	0.0	1	2
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	12	0.0	0	0.0	10	2
Other	145	0.4	0	0.0	16	129
Truck/bus over 10,000 lbs.	1,510	4.0	6	4.0	295	1,209
Unknown	855	2.2	1	0.7	85	769
<b>Total</b>	<b>38,097</b>	<b>100.0</b>	<b>150</b>	<b>100.0</b>	<b>6,801</b>	<b>31,146</b>

## MDOT Region - Southwest (continued)

### 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	3,729	0	2,892	11	2,636	7	2,321	7	2,629	6
February	2,447	3	2,649	5	2,441	9	1,566	3	2,088	6
March	1,900	8	1,623	3	1,765	5	1,741	9	1,821	13
April	1,317	10	1,423	7	1,594	17	1,466	7	1,737	5
May	1,546	9	1,775	8	1,791	6	1,845	10	1,868	8
June	1,580	5	1,821	14	1,815	11	1,888	10	1,832	9
July	1,640	7	1,862	12	1,769	6	1,780	11	1,749	13
August	1,483	6	1,607	9	1,721	8	1,705	12	1,618	9
September	1,621	6	1,654	12	1,827	9	1,768	10	1,777	11
October	2,281	5	2,286	10	2,215	11	2,432	4	2,259	12
November	3,193	5	2,685	5	2,529	11	2,437	8	3,096	3
December	1,665	3	2,383	6	2,907	12	3,396	12	2,079	3
<b>Total</b>	<b>24,402</b>	<b>67</b>	<b>24,660</b>	<b>102</b>	<b>25,010</b>	<b>112</b>	<b>24,345</b>	<b>103</b>	<b>24,553</b>	<b>98</b>

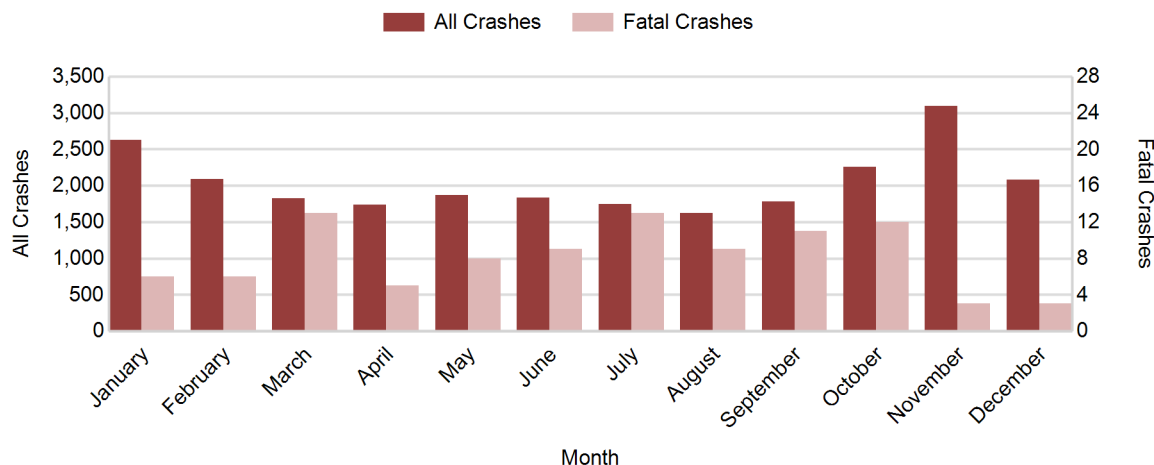
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

### 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	3,262	7	3,486	12	3,590	14	3,557	6	3,853	9
Tuesday	3,550	9	3,406	7	3,591	14	3,438	7	3,503	10
Wednesday	3,766	10	3,770	9	3,676	11	3,570	14	3,703	12
Thursday	4,251	11	3,594	15	3,868	16	3,655	19	3,587	15
Friday	4,012	7	4,069	17	4,140	19	4,004	22	4,237	17
Saturday	3,087	15	3,668	21	3,264	20	3,245	18	3,054	16
Sunday	2,474	8	2,667	21	2,881	18	2,876	17	2,616	19
<b>Total</b>	<b>24,402</b>	<b>67</b>	<b>24,660</b>	<b>102</b>	<b>25,010</b>	<b>112</b>	<b>24,345</b>	<b>103</b>	<b>24,553</b>	<b>98</b>

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

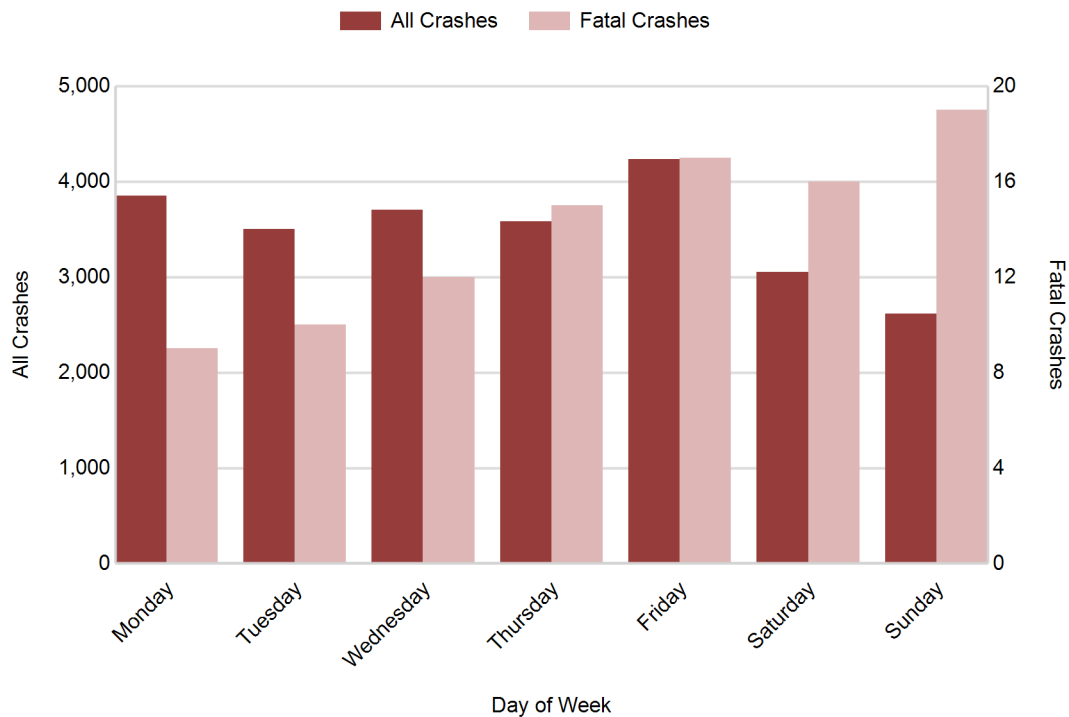
### 2018 Crashes by Month



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	3,853	15.7	9	9.2	69	159	374	3,242
Tuesday	3,503	14.3	10	10.2	63	176	357	2,897
Wednesday	3,703	15.1	12	12.2	60	167	341	3,123
Thursday	3,587	14.6	15	15.3	71	187	360	2,954
Friday	4,237	17.3	17	17.3	73	199	399	3,549
Saturday	3,054	12.4	16	16.3	60	167	273	2,538
Sunday	2,616	10.7	19	19.4	53	145	235	2,164
<b>Total</b>	<b>24,553</b>	<b>100.0</b>	<b>98</b>	<b>100.0</b>	<b>449</b>	<b>1,200</b>	<b>2,339</b>	<b>20,467</b>

2018 Day of Week and Severity

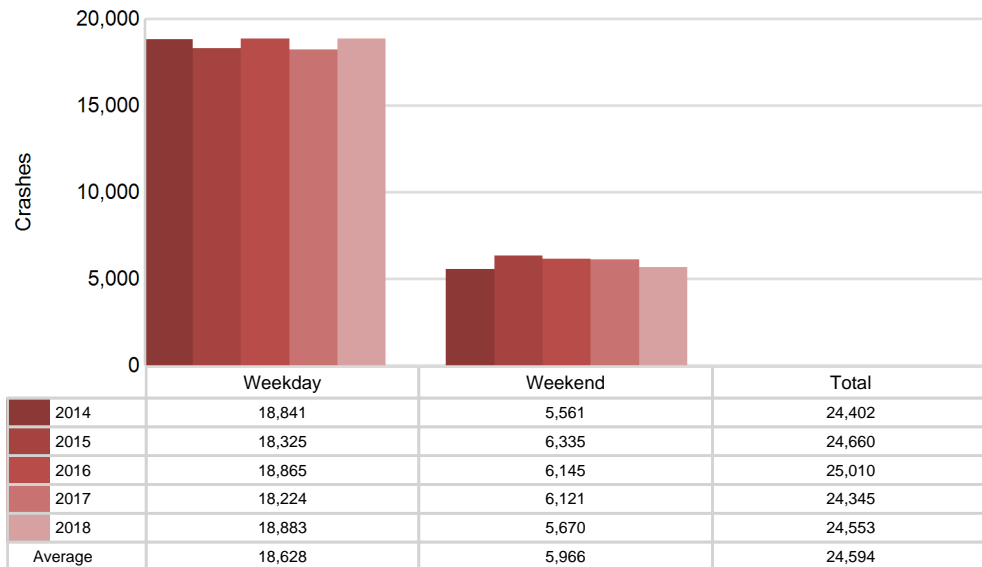


## MDOT Region - Southwest (continued)

### 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	18,841	44	18,325	60	18,865	74	18,224	68	18,883	63
Weekend	5,561	23	6,335	42	6,145	38	6,121	35	5,670	35
<b>Total</b>	<b>24,402</b>	<b>67</b>	<b>24,660</b>	<b>102</b>	<b>25,010</b>	<b>112</b>	<b>24,345</b>	<b>103</b>	<b>24,553</b>	<b>98</b>

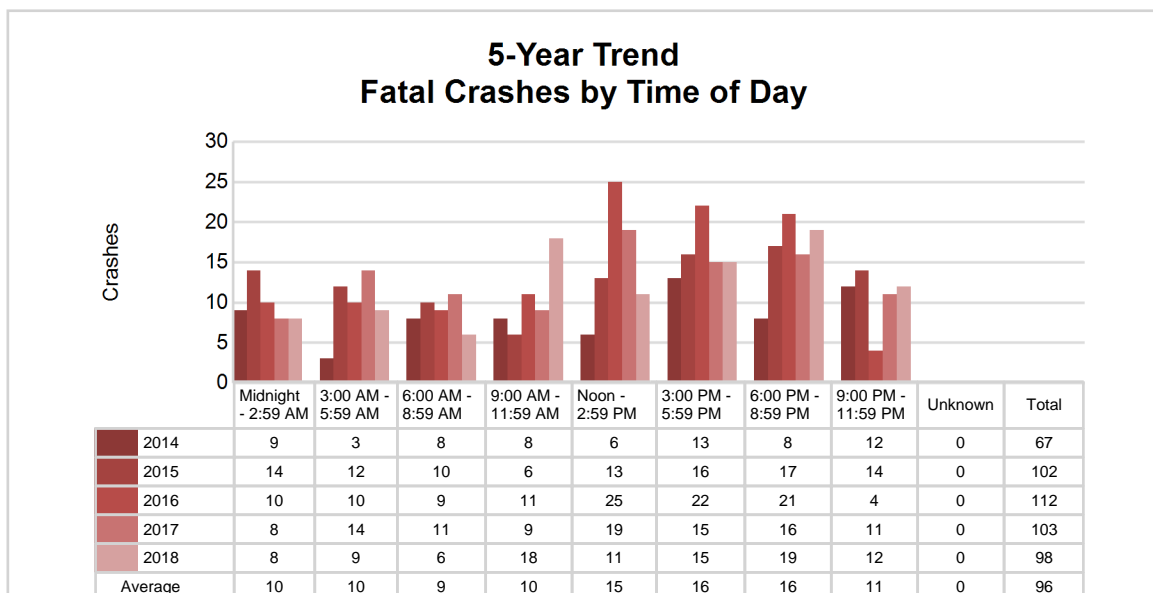
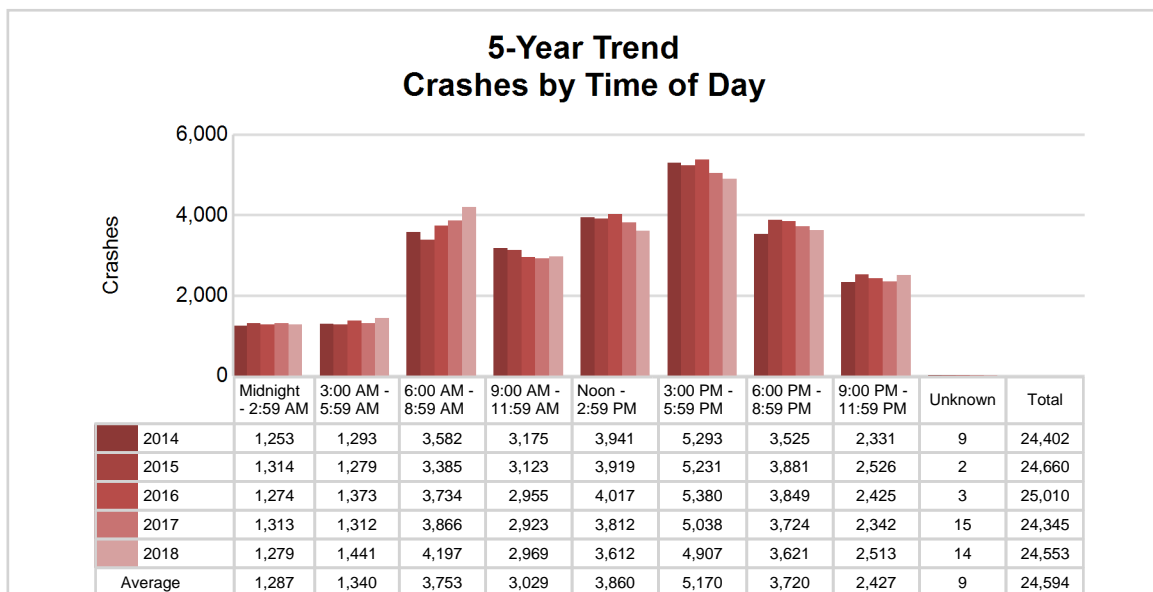
### 5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



## 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	1,253	9	1,314	14	1,274	10	1,313	8	1,279	8
3:00 AM - 5:59 AM	1,293	3	1,279	12	1,373	10	1,312	14	1,441	9
6:00 AM - 8:59 AM	3,582	8	3,385	10	3,734	9	3,866	11	4,197	6
9:00 AM - 11:59 AM	3,175	8	3,123	6	2,955	11	2,923	9	2,969	18
Noon - 2:59 PM	3,941	6	3,919	13	4,017	25	3,812	19	3,612	11
3:00 PM - 5:59 PM	5,293 †	13	5,231 †	16	5,380 †	22	5,038 †	15	4,907 †	15
6:00 PM - 8:59 PM	3,525	8	3,881	17	3,849	21	3,724	16	3,621	19
9:00 PM - 11:59 PM	2,331	12	2,526	14	2,425	4	2,342	11	2,513	12
Unknown	9	0	2	0	3	0	15	0	14	0
<b>Total</b>	<b>24,402</b>	<b>67</b>	<b>24,660</b>	<b>102</b>	<b>25,010</b>	<b>112</b>	<b>24,345</b>	<b>103</b>	<b>24,553</b>	<b>98</b>

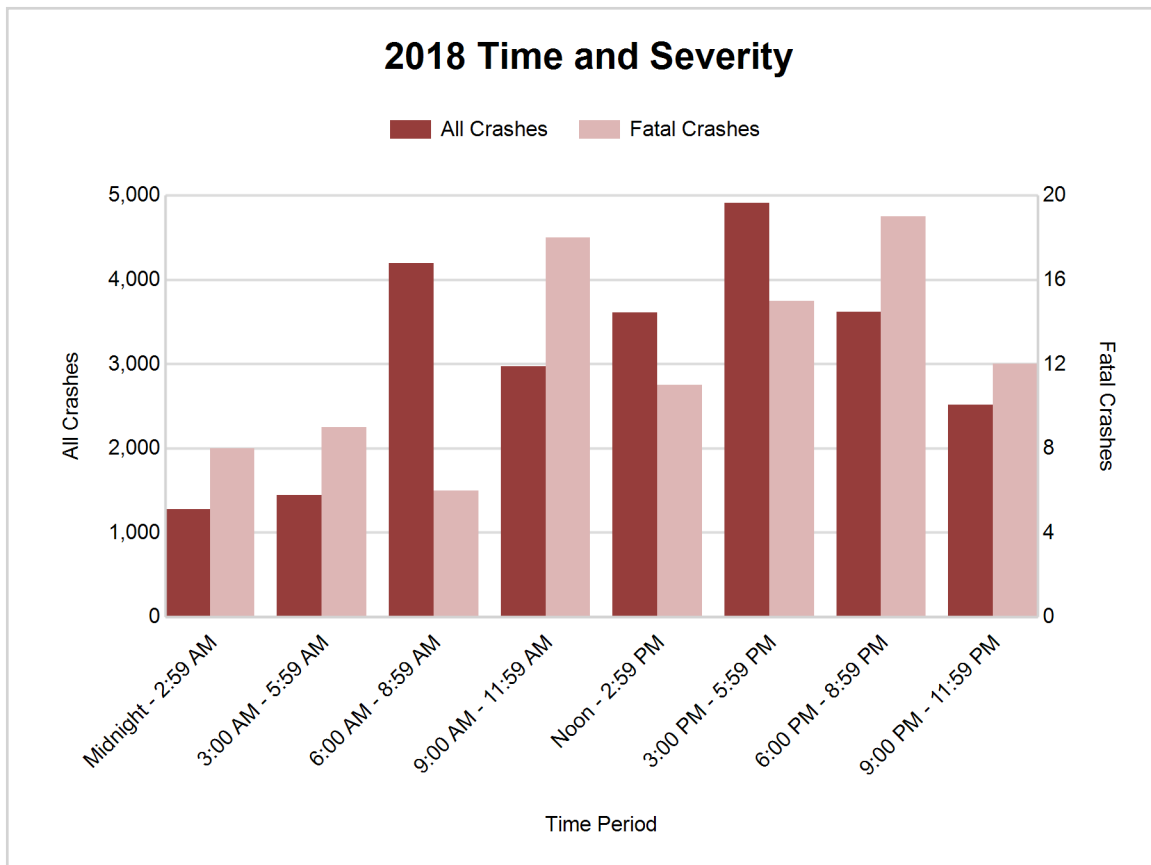
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same time period



## MDOT Region - Southwest (continued)

## 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	1,279	5.2	8	8.2	28	79	101	1,063
3:00 AM - 5:59 AM	1,441	5.9	9	9.2	24	53	87	1,268
6:00 AM - 8:59 AM	4,197	17.1	6	6.1	54	136	339	3,662
9:00 AM - 11:59 AM	2,969	12.1	18	18.4	56	149	315	2,431
Noon - 2:59 PM	3,612	14.7	11	11.2	62	226	421	2,892
3:00 PM - 5:59 PM	4,907	20.0	15	15.3	102	265	596	3,929
6:00 PM - 8:59 PM	3,621	14.7	19	19.4	64	185	293	3,060
9:00 PM - 11:59 PM	2,513	10.2	12	12.2	59	107	187	2,148
Unknown	14	0.1	0	0.0	0	0	0	14
<b>Total</b>	<b>24,553</b>	<b>100.0</b>	<b>98</b>	<b>100.0</b>	<b>449</b>	<b>1,200</b>	<b>2,339</b>	<b>20,467</b>

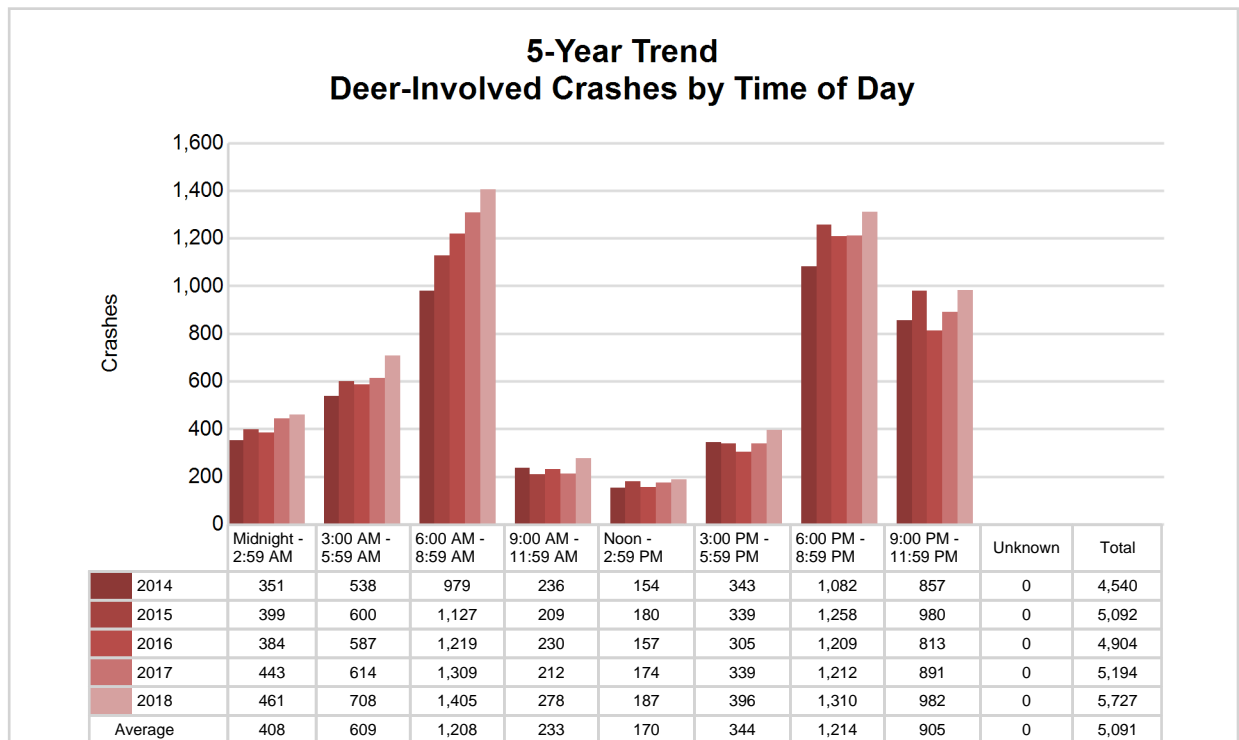




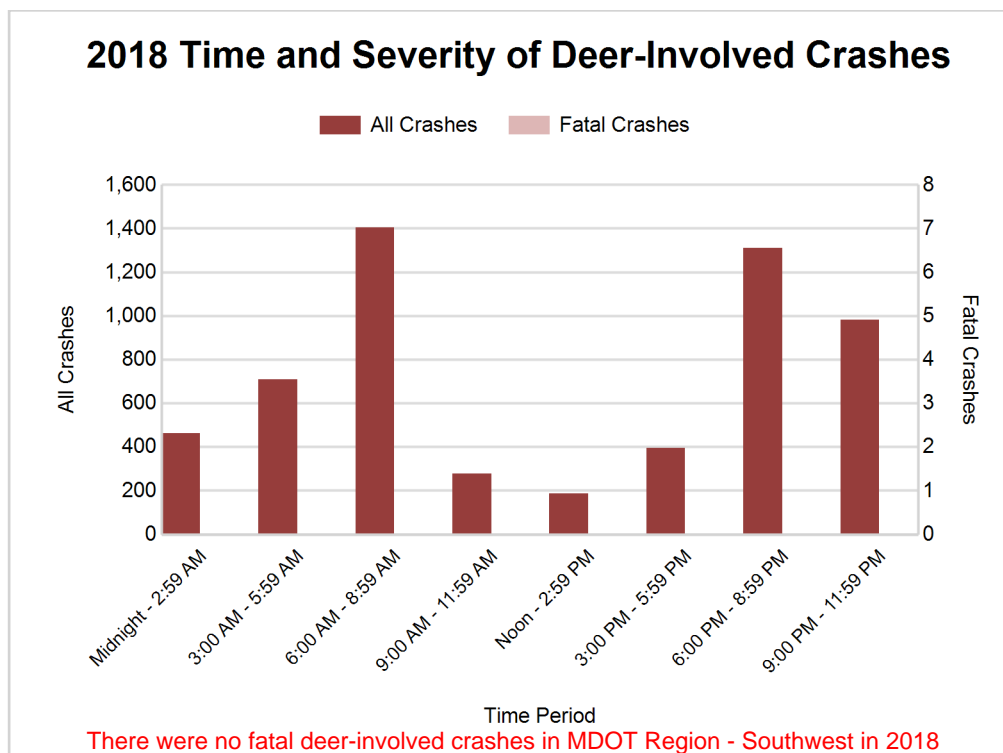
## 5-Year Trend - Deer-Involved Crashes by Time of Day

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	351	0	399	1	384	0	443	0	461	0
3:00 AM - 5:59 AM	538	0	600	0	587	0	614	0	708	0
6:00 AM - 8:59 AM	979	0	1,127	0	1,219	0	1,309	0	1,405	0
9:00 AM - 11:59 AM	236	0	209	0	230	0	212	0	278	0
Noon - 2:59 PM	154	0	180	0	157	0	174	0	187	0
3:00 PM - 5:59 PM	343	0	339	1	305	0	339	0	396	0
6:00 PM - 8:59 PM	1,082	0	1,258	0	1,209	0	1,212	1	1,310	0
9:00 PM - 11:59 PM	857	0	980	0	813	0	891	0	982	0
Unknown	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>4,540</b>	<b>0</b>	<b>5,092</b>	<b>2</b>	<b>4,904</b>	<b>0</b>	<b>5,194</b>	<b>1</b>	<b>5,727</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



## MDOT Region - Southwest (continued)



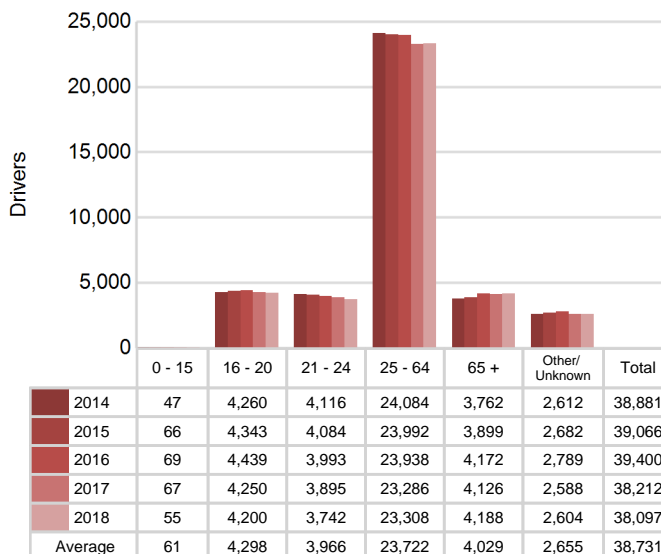
## 2018 - Reported Motor Vehicle Crashes by County

County	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Berrien	4,641	18	779	3,844	1,020	449	964	2,201	174	34	938	20	1,074
Branch	1,613	3	168	1,442	157	328	105	1,023	34	8	860	3	254
Calhoun	4,480	14	636	3,830	1,122	0	1,171	2,181	136	62	1,104	14	872
Cass	1,517	8	258	1,251	0	190	456	869	73	24	520	9	358
Kalamazoo	8,333	28	1,492	6,813	1,293	580	1,458	4,996	250	45	1,017	30	1,992
St. Joseph	1,758	17	291	1,450	0	403	423	926	69	28	574	20	394
Van Buren	2,211	10	364	1,837	545	0	491	1,172	93	25	714	12	484
<b>Total</b>	<b>24,553</b>	<b>98</b>	<b>3,988</b>	<b>20,467</b>	<b>4,137</b>	<b>1,950</b>	<b>5,068</b>	<b>13,368</b>	<b>829</b>	<b>226</b>	<b>5,727</b>	<b>108</b>	<b>5,428</b>

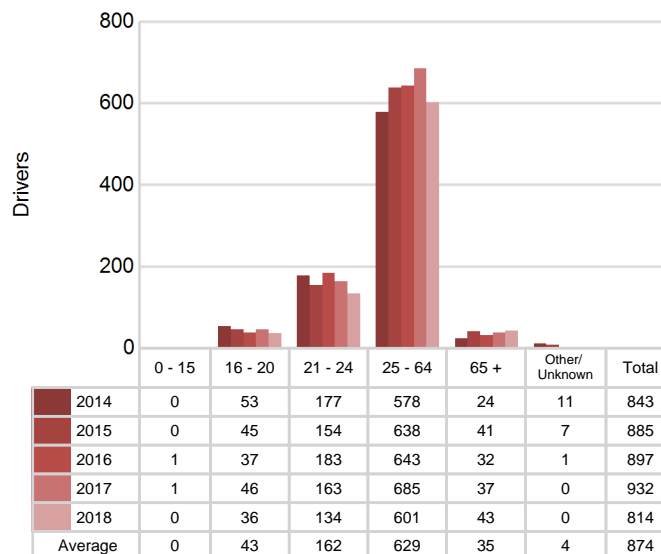
## 5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

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	47	0	66	0	69	1	67	1	55	0
16 - 20	4,260	53	4,343	45	4,439	37	4,250	46	4,200	36
21 - 24	4,116	177	4,084	154	3,993	183	3,895	163	3,742	134
25 - 64	24,084	578	23,992	638	23,938	643	23,286	685	23,308	601
65 +	3,762	24	3,899	41	4,172	32	4,126	37	4,188	43
Unknown	2,612	11	2,682	7	2,789	1	2,588	0	2,604	0
<b>Total</b>	<b>38,881</b>	<b>843</b>	<b>39,066</b>	<b>885</b>	<b>39,400</b>	<b>897</b>	<b>38,212</b>	<b>932</b>	<b>38,097</b>	<b>814</b>

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

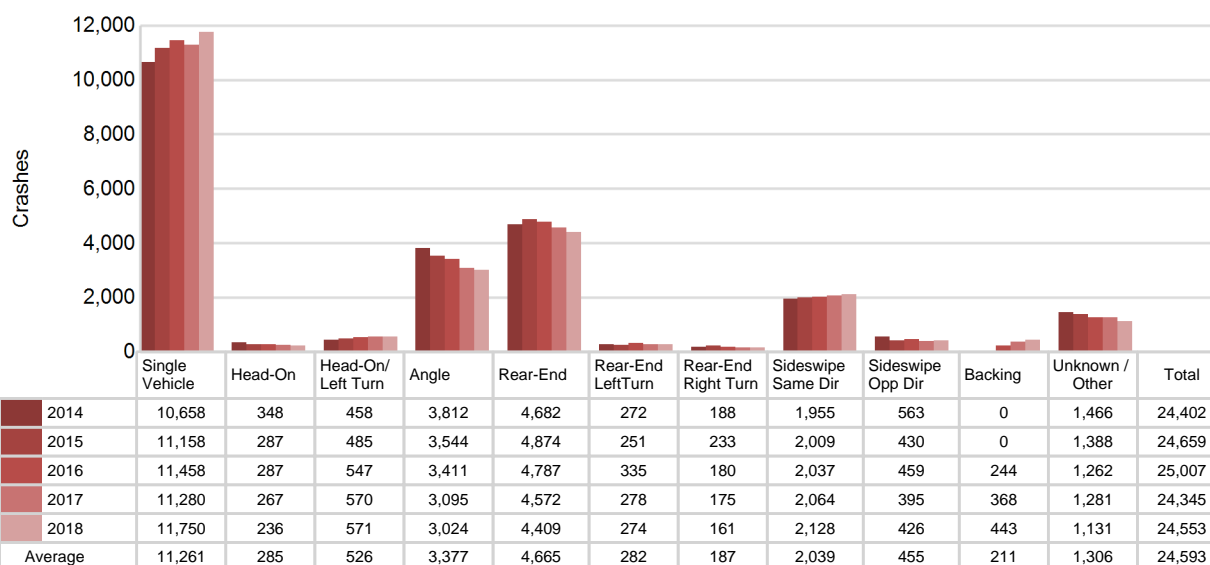


**5-Year Trend  
Total Drivers Coded Drinking by Age**



## 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	10,658	39	11,158	56	11,458	52	11,280	53	11,750	51
Head-on	348	7	287	12	287	18	267	10	236	8
Head-on / left turn	458	0	485	3	547	5	570	4	571	3
Angle	3,812	12	3,544	12	3,411	25	3,095	18	3,024	18
Rear-end	4,682	5	4,874	6	4,787	6	4,572	8	4,409	10
Rear-end left turn	272	0	251	0	335	2	278	1	274	1
Rear-end right turn	188	0	233	0	180	1	175	0	161	0
Sideswipe same direction	1,955	1	2,009	0	2,037	2	2,064	1	2,128	0
Sideswipe opposite direction	563	1	430	1	459	0	395	1	426	0
Backing	0	0	0	0	244	0	368	0	443	0
Other / Unknown	1,466	2	1,388	12	1,262	1	1,281	7	1,131	7
Uncoded and Errors	0	0	1	0	3	0	0	0	0	0
<b>Total</b>	<b>24,402</b>	<b>67</b>	<b>24,660</b>	<b>102</b>	<b>25,010</b>	<b>112</b>	<b>24,345</b>	<b>103</b>	<b>24,553</b>	<b>98</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	0	0	0	0	0	0	0	0
16 - 20	61	36	26	36	0	5	13	2	16
21 - 24	163	142	120	134	0	13	52	36	33
25 - 64	791	662	508	601	1	52	150	198	200
65 +	67	66	39	43	0	9	13	10	11
Unknown	62	0	0	0	0	0	0	0	0
<b>Total</b>	<b>1,144</b>	<b>906</b>	<b>693</b>	<b>814</b>	<b>1</b>	<b>79</b>	<b>228</b>	<b>246</b>	<b>260</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 1,144 drivers in alcohol-involved crashes; 814 (71.2%) of those drivers were coded as had-been-drinking by the officer on the crash form.

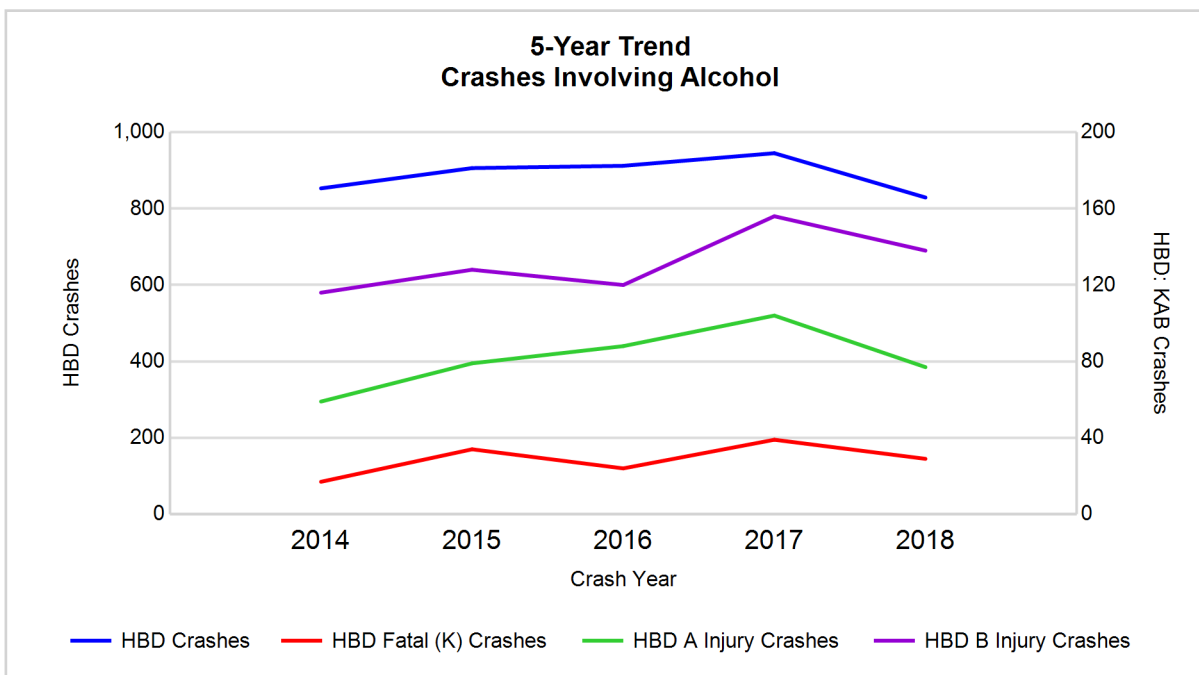
- 474 (58.2%) of the 814 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 246 (51.9%) of the 474 drivers had a BAC at or above 0.17 g/dL.
- 693 (85.1%) of the 814 drivers were coded as had-been-drinking and were tested for alcohol consumption.

## 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	24,402	853	3.5	67	17	25.4	365	59	16.2	1,055	116	11.0
2015	24,660	906	3.7	102	34	33.3	368	79	21.5	1,107	128	11.6
2016	25,010	912	3.6	112	24	21.4	422	88	20.9	1,232	120	9.7
2017	24,345	945	3.9	103	39	37.9	512	104	20.3	1,235	156	12.6
2018	24,553	829*	3.4*	98	29	29.6	449	77	17.1	1,200	138	11.5

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



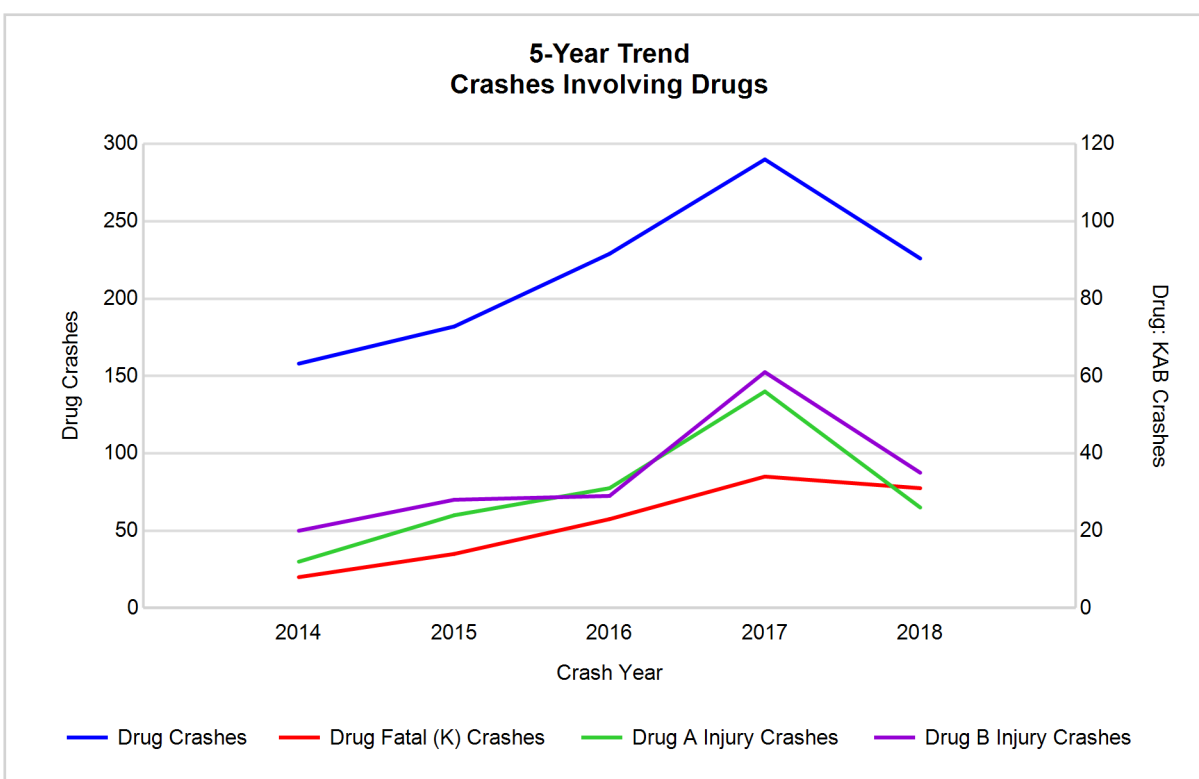
Note: Had-Been-Drinking (HBD)

## 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	24,402	158	0.6	67	8	11.9	365	12	3.3	1,055	20	1.9
2015	24,660	182	0.7	102	14	13.7	368	24	6.5	1,107	28	2.5
2016	25,010	229	0.9	112	23	20.5	422	31	7.3	1,232	29	2.4
2017	24,345	290	1.2	103	34	33.0	512	56	10.9	1,235	61	4.9
2018	24,553	226	0.9	98	31	31.6	449	26	5.8	1,200	35	2.9

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

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

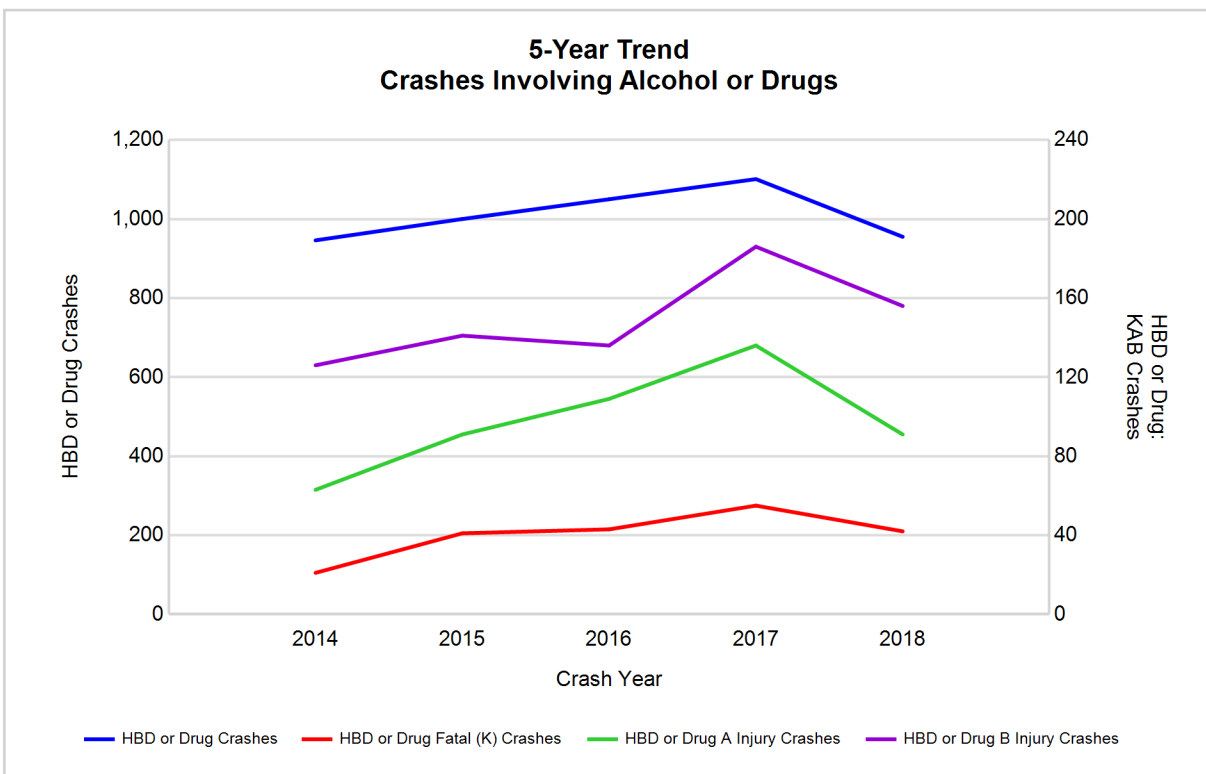


## 5-Year Trend - Crashes Involving Alcohol or Drugs

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	24,402	946	3.9	67	21	31.3	365	63	17.3	1,055	126	11.9
2015	24,660	1,000	4.1	102	41	40.2	368	91	24.7	1,107	141	12.7
2016	25,010	1,050	4.2	112	43	38.4	422	109	25.8	1,232	136	11.0
2017	24,345	1,101	4.5	103	55	53.4	512	136	26.6	1,235	186	15.1
2018	24,553	955	3.9	98	42	42.9	449	91	20.3	1,200	156	13.0

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)

## MDOT Region - Southwest (continued)

## 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	31,474	27,872	88.6	67	34	50.7	355	268	75.5	1,102	978	88.7	2,774	2,548	91.9	25,842	24,044	93.0
Motor home	158	138	87.3	1	1	100.0	1	1	100.0	8	6	75.0	9	9	100.0	131	121	92.4
Pickup truck	4,640	4,082	88.0	12	3	25.0	58	34	58.6	145	127	87.6	291	261	89.7	3,911	3,657	93.5
Small truck under 10,000 lbs. GVWR	270	234	86.7	0	0	0.0	2	1	50.0	12	11	91.7	24	21	87.5	219	201	91.8
Motorcycle	278	160	57.6	12	5	41.7	61	28	45.9	94	52	55.3	54	40	74.1	53	35	66.0
Moped / goped	38	8	21.1	0	0	0.0	6	1	16.7	14	2	14.3	10	2	20.0	6	3	50.0
Go-cart / golf cart	5	1	20.0	0	0	0.0	0	0	0.0	3	0	0.0	0	0	0.0	2	1	50.0
Snowmobile	3	3	100.0	0	0	0.0	0	0	0.0	0	0	0.0	1	1	100.0	2	2	100.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	14	1	7.1	0	0	0.0	5	0	0.0	2	1	50.0	4	0	0.0	3	0	0.0
Other	145	85	58.6	0	0	0.0	0	0	0.0	4	3	75.0	2	1	50.0	116	81	69.8
Truck/bus over 10,000 lbs.	1,579	1,379	87.3	0	0	0.0	6	5	83.3	61	28	45.9	83	47	56.6	1,383	1,299	93.9
Unknown	857	6	0.7	0	0	0.0	0	0	0.0	2	2	100.0	1	1	100.0	33	3	9.1
<b>Total</b>	<b>39,461</b>	<b>33,969</b>	<b>86.1</b>	<b>92</b>	<b>43</b>	<b>46.7</b>	<b>494</b>	<b>338</b>	<b>68.4</b>	<b>1,447</b>	<b>1,210</b>	<b>83.6</b>	<b>3,253</b>	<b>2,931</b>	<b>90.1</b>	<b>31,701</b>	<b>29,447</b>	<b>92.9</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	438	336	76.7	4	3	75.0	15	5	33.3	124	82	66.1	247	204	82.6	47	42	89.4
16 - 20	4,390	4,056	92.4	7	2	28.6	44	32	72.7	213	180	84.5	386	345	89.4	3,725	3,497	93.9
21 - 24	3,825	3,479	91.0	5	1	20.0	47	29	61.7	128	106	82.8	330	297	90.0	3,301	3,046	92.3
25 - 64	23,865	21,991	92.1	53	22	41.5	332	227	68.4	798	671	84.1	1,871	1,689	90.3	20,751	19,382	93.4
65 +	4,338	4,105	94.6	23	15	65.2	56	45	80.4	183	171	93.4	413	395	95.6	3,653	3,479	95.2
Unknown	2,605	2	0.1	0	0	0.0	0	0	0.0	1	0	0.0	6	1	16.7	224	1	0.4
<b>Total</b>	<b>39,461</b>	<b>33,969</b>	<b>86.1</b>	<b>92</b>	<b>43</b>	<b>46.7</b>	<b>494</b>	<b>338</b>	<b>68.4</b>	<b>1,447</b>	<b>1,210</b>	<b>83.6</b>	<b>3,253</b>	<b>2,931</b>	<b>90.1</b>	<b>31,701</b>	<b>29,447</b>	<b>92.9</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	173	0	19	187	1	18	118	0	17	64	2	9	68	1	10
Shoulder belt only used	212	0	8	117	0	8	198	1	28	227	1	37	204	0	21
Lap belt only used	128	0	19	168	1	20	127	0	20	99	1	12	99	0	13
Both lap & shoulder belts used	33,850	18	3,222	33,881	33	3,251	33,931	41	3,557	32,566	34	3,404	32,417	24	3,261
No belts used	291	13	96	269	16	92	254	16	90	251	16	99	217	17	105
Child restraint used	1	0	0	1	0	0	2	0	0	1	0	0	0	0	0
Child restraint not used, unavailable or improper use	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Restraint failure	10	0	0	7	0	1	8	0	0	19	0	4	6	0	0
Restraint use unknown	1,476	5	133	1,562	9	150	3,652	10	169	4,575	10	256	4,739	14	226
Helmet worn	206	4	134	207	8	152	181	7	125	197	6	136	155	5	110
Helmet not worn	119	4	93	144	10	99	168	4	116	136	6	103	126	6	101
Helmet use unknown	15	1	6	26	0	12	22	1	14	19	1	10	13	1	7
Uncoded & errors	2,399	0	4	2,497	0	6	739	0	2	58	0	1	53	0	0
<b>Total</b>	<b>38,881</b>	<b>45</b>	<b>3,734</b>	<b>39,066</b>	<b>78</b>	<b>3,809</b>	<b>39,400</b>	<b>80</b>	<b>4,138</b>	<b>38,212</b>	<b>77</b>	<b>4,071</b>	<b>38,097</b>	<b>68</b>	<b>3,854</b>

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

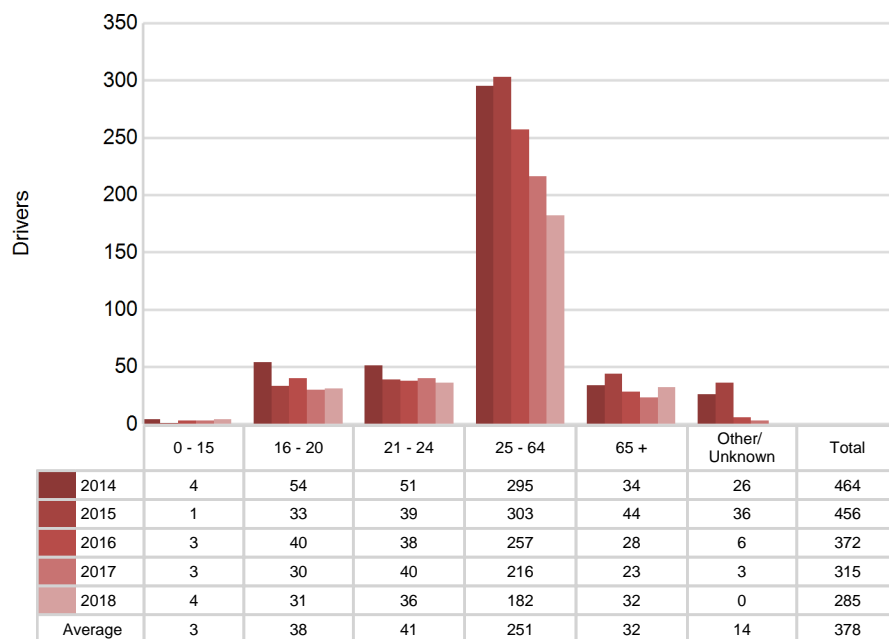
Restraint Use	2014			2015			2016			2017			2018		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	5	0	0	7	1	3	2	0	1	0	0	0	1	0	1
Shoulder belt only used	2	0	0	2	0	2	12	1	1	5	1	3	4	0	1
Lap belt only used	3	0	1	4	0	1	2	0	1	2	0	0	2	0	1
Both lap & shoulder belts used	615	3	150	618	8	165	658	5	205	625	10	194	557	4	174
No belts used	53	2	31	66	4	41	38	6	24	53	9	31	48	6	31
Child restraint used	0	0	0	0	0	0	0	0	0	1	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	131	2	31	151	1	44	153	2	33	203	3	71	177	3	64
Helmet worn	12	0	11	12	4	6	4	1	3	12	3	8	5	1	4
Helmet not worn	15	2	11	19	3	14	26	0	21	28	3	23	20	4	15
Helmet use unknown	0	0	0	1	0	1	1	0	1	3	1	2	0	0	0
Uncoded & errors	7	0	0	5	0	1	1	0	0	0	0	0	0	0	0
<b>Total</b>	<b>843</b>	<b>9</b>	<b>235</b>	<b>885</b>	<b>21</b>	<b>278</b>	<b>897</b>	<b>15</b>	<b>290</b>	<b>932</b>	<b>30</b>	<b>332</b>	<b>814</b>	<b>18</b>	<b>291</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	4	0	0	1	0	0	3	0	2	3	0	1	4	0	1
16 - 20	54	2	19	33	2	6	40	3	13	30	1	11	31	2	13
21 - 24	51	3	13	39	1	15	38	1	11	40	6	15	36	1	17
25 - 64	295	7	73	303	8	78	257	9	76	216	10	71	182	12	72
65 +	34	1	9	44	6	10	28	3	5	23	1	10	32	3	12
Unknown	26	0	1	36	0	1	6	0	0	3	0	0	0	0	0
<b>Total</b>	<b>464</b>	<b>13</b>	<b>115</b>	<b>456</b>	<b>17</b>	<b>110</b>	<b>372</b>	<b>16</b>	<b>107</b>	<b>315</b>	<b>18</b>	<b>108</b>	<b>285</b>	<b>18</b>	<b>115</b>

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

### 5-Year Trend Driver Seatbelt Not Used

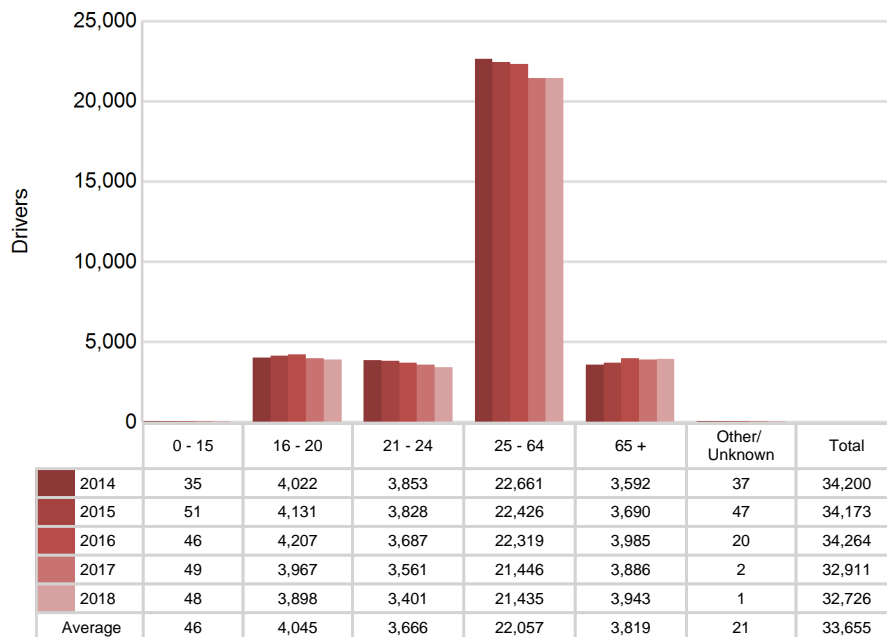


## 5-Year Trend - Seatbelt Used Among Drivers by Age

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	35	0	4	51	0	9	46	0	7	49	0	7	48	0	6
16 - 20	4,022	1	387	4,131	5	427	4,207	7	454	3,967	0	414	3,898	0	404
21 - 24	3,853	3	380	3,828	6	356	3,687	1	379	3,561	3	379	3,401	1	360
25 - 64	22,661	10	2,123	22,426	16	2,078	22,319	26	2,321	21,446	26	2,170	21,435	13	2,065
65 +	3,592	4	352	3,690	7	409	3,985	8	444	3,886	7	487	3,943	10	460
Unknown	37	0	3	47	0	1	20	0	0	2	0	0	1	0	0
<b>Total</b>	<b>34,200</b>	<b>18</b>	<b>3,249</b>	<b>34,173</b>	<b>34</b>	<b>3,280</b>	<b>34,264</b>	<b>42</b>	<b>3,605</b>	<b>32,911</b>	<b>36</b>	<b>3,457</b>	<b>32,726</b>	<b>24</b>	<b>3,295</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	20,780	36	21,253	96	20,696	78	20,093	72	20,355	56
Speed too fast	4,053	17	3,733	40	3,798	21	3,423	19	3,283	22
Speed too slow	37	0	40	1	32	0	39	1	37	1
Failed to yield	3,277	10	3,236	11	3,303	18	3,276	6	3,197	13
Disregard traffic control	743	3	799	2	795	10	710	10	732	8
Drove wrong way	29	0	39	0	24	1	25	1	26	0
Drove left of center	218	2	241	8	236	8	197	6	241	5
Improper passing	202	2	198	1	209	1	173	0	198	1
Improper lane use	729	1	695	1	747	0	801	1	769	1
Improper turn	385	1	395	0	411	0	409	2	413	0
Improper/no signal	62	0	60	0	46	0	28	0	28	0
Improper backing	640	0	589	0	626	0	506	1	535	0
Unable to stop in assured clear distance	4,301	4	4,402	14	4,439	7	4,247	4	4,120	6
Other	1,491	5	1,419	7	1,384	7	1,344	7	1,308	4
Unknown	701	11	698	10	1,214	14	1,518	15	1,618	14
Reckless driving	183	2	195	5	213	6	242	6	206	7
Careless/negligent driving	1,048	8	1,069	17	1,219	10	1,176	14	1,025	12
Uncoded & errors	2	0	5	1	8	0	5	0	6	0
<b>Total</b>	<b>38,881</b>	<b>102</b>	<b>39,066</b>	<b>214</b>	<b>39,400</b>	<b>181</b>	<b>38,212</b>	<b>165</b>	<b>38,097</b>	<b>150</b>



The picture above represents all 2018 alcohol-involved fatal crashes in MDOT Region - Southwest.

In 2018, there were 829 alcohol-involved crashes in MDOT Region - Southwest:

- 29 K - Fatal Crashes
- 77 A - Suspected Serious Injury Crashes
- 138 B - Suspected Minor Injury Crashes
- 143 C - Possible Injury Crashes
- 442 O - Property Damage Only/No Injury Crashes

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