



2017

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

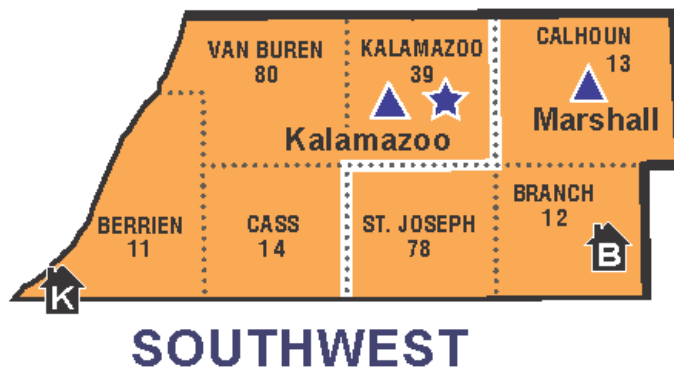
Property Damage Only (PDO)



MDOT Region - Southwest

2017 Traffic Crash Data & 2013-2017 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 2017:

There were 38,212 drivers involved in 24,345 motor vehicle crashes in MDOT Region Southwest. Of those crashes, 103 were classified as fatal, resulting in 121 fatalities. An additional 5,724 persons were injured.

MDOT Region Southwest experienced the highest number of motor vehicle crashes (3,396) in December, the highest number of fatal crashes (12) in August and December, and the highest number of persons killed (16) in September.

Michigan driver statistics indicate 6.3 percent of licensed drivers in MDOT Region Southwest were age 16-20, and 11.1 percent of drivers in crashes were also in that age group.

2017 - Crashes and Injuries by Month

Month	Crashes				Persons	
	Total	Fatal	Injury	Property Damage Only (PDO)	Fatalities	Injuries
January	2,321	7	311	2,003	8	396
February	1,566	3	273	1,290	4	361
March	1,741	9	309	1,423	13	434
April	1,466	7	301	1,158	9	412
May	1,845	10	347	1,488	11	494
June	1,888	10	393	1,485	11	553
July	1,780	11	367	1,402	11	504
August	1,705	12	378	1,315	12	526
September	1,768	10	368	1,390	16	519
October	2,432	4	370	2,058	4	507
November	2,437	8	322	2,107	9	427
December	3,396	12	447	2,937	13	591
Total	24,345	103	4,186	20,056	121	5,724

2017 - Driver Statistics

Age Group	MDOT Region - Southwest			Driver Rates	
	2017 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	154,839	3,577	67	4.3	187.3
16 - 20	54,588	35,196	4,250	778.6	1,207.5
21 - 24	49,916	35,641	3,895	780.3	1,092.8
25 - 64	389,516	359,294	23,286	597.8	648.1
65 +	133,604	120,895	4,126	308.8	341.3
Unknown	0	0	2,588	- -	- -
Total	782,463	554,603	38,212	488.4	689.0

2017 - 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	30,638	80.2	107	64.8	5,747	24,784
Motor home	161	0.4	1	0.6	28	132
Pickup truck	4,548	11.9	28	17.0	791	3,729
Small truck under 10,000 lbs. GVWR	287	0.8	0	0.0	49	238
Motorcycle	305	0.8	11	6.7	211	83
Moped / goped	51	0.1	0	0.0	42	9
Go-cart / golf cart	2	0.0	0	0.0	2	0
Snowmobile	3	0.0	0	0.0	2	1
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	7	0.0	2	1.2	3	2
Other	160	0.4	1	0.6	20	139
Truck/bus over 10,000 lbs.	1,250	3.3	14	8.5	256	980
Unknown	800	2.1	1	0.6	69	730
Total	38,212	100.0	165	100.0	7,220	30,827

MDOT Region - Southwest (continued)

5-Year Trend - Crashes by Month

Month	2013		2014		2015		2016		2017	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
January	2,555	7	3,729	0	2,892	11	2,636	7	2,321	7
February	2,363	7	2,447	3	2,649	5	2,441	9	1,566	3
March	1,679	7	1,900	8	1,623	3	1,765	5	1,741	9
April	1,394	6	1,317	10	1,423	7	1,594	17	1,466	7
May	1,717	6	1,546	9	1,775	8	1,791	6	1,845	10
June	1,651	10	1,580	5	1,821	14	1,815	11	1,888	10
July	1,651	9	1,640	7	1,862	12	1,769	6	1,780	11
August	1,577	9	1,483	6	1,607	9	1,721	8	1,705	12
September	1,637	15	1,621	6	1,654	12	1,827	9	1,768	10
October	2,184	12	2,281	5	2,286	10	2,215	11	2,432	4
November	2,770	16	3,193	5	2,685	5	2,529	11	2,437	8
December	2,794	10	1,665	3	2,383	6	2,907	12	3,396	12
Total	23,972	114	24,402	67	24,660	102	25,010	112	24,345	103

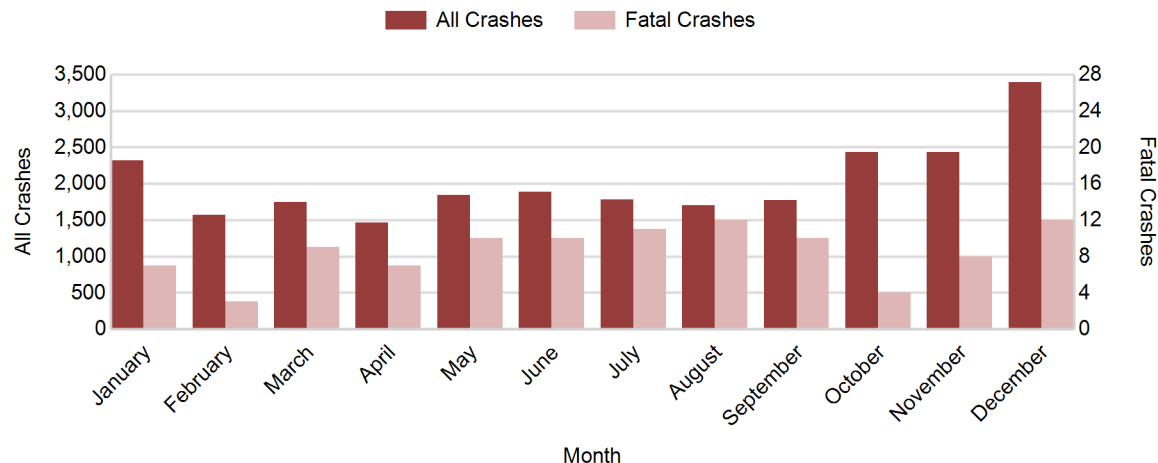
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

5-Year Trend - Crashes by Day of Week

Day	2013		2014		2015		2016		2017	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Monday	3,587	14	3,262	7	3,486	12	3,590	14	3,557	6
Tuesday	3,792	13	3,550	9	3,406	7	3,591	14	3,438	7
Wednesday	3,871	11	3,766	10	3,770	9	3,676	11	3,570	14
Thursday	3,504	19	4,251	11	3,594	15	3,868	16	3,655	19
Friday	3,619	23	4,012	7	4,069	17	4,140	19	4,004	22
Saturday	3,076	17	3,087	15	3,668	21	3,264	20	3,245	18
Sunday	2,523	17	2,474	8	2,667	21	2,881	18	2,876	17
Total	23,972	114	24,402	67	24,660	102	25,010	112	24,345	103

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

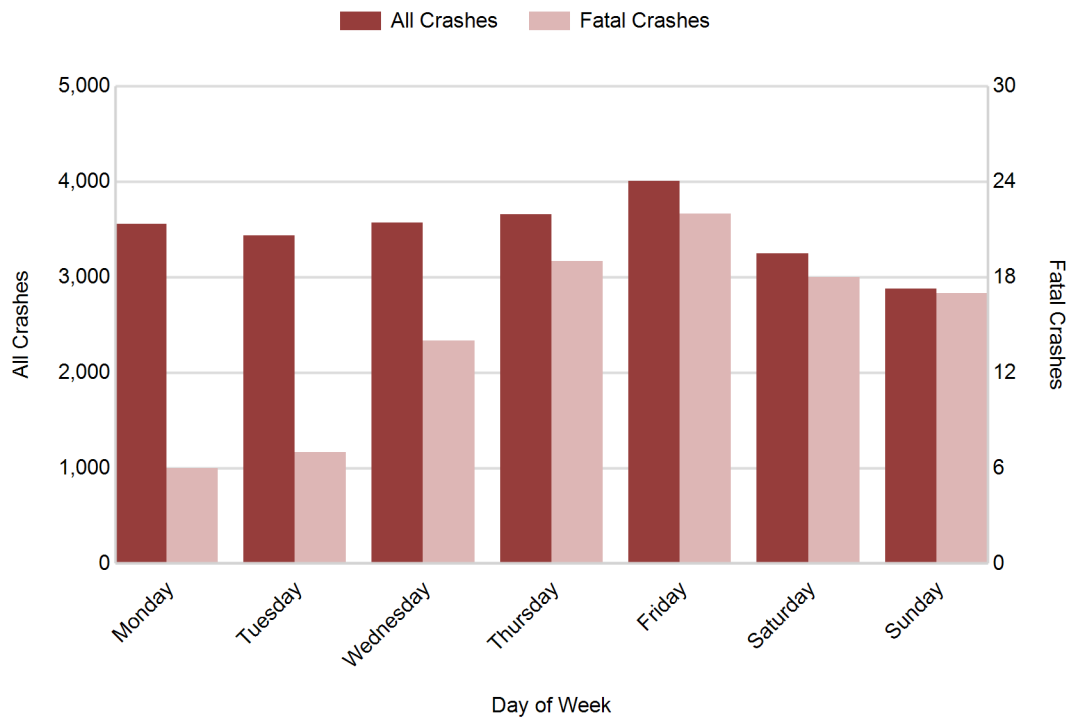
2017 Crashes by Month



2017 - 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	3,557	14.6	6	5.8	64	170	347	2,970
Tuesday	3,438	14.1	7	6.8	77	152	305	2,897
Wednesday	3,570	14.7	14	13.6	60	191	347	2,958
Thursday	3,655	15.0	19	18.4	74	175	395	2,992
Friday	4,004	16.4	22	21.4	84	197	432	3,269
Saturday	3,245	13.3	18	17.5	76	171	344	2,636
Sunday	2,876	11.8	17	16.5	77	179	269	2,334
Total	24,345	100.0	103	100.0	512	1,235	2,439	20,056

2017 Day of Week and Severity

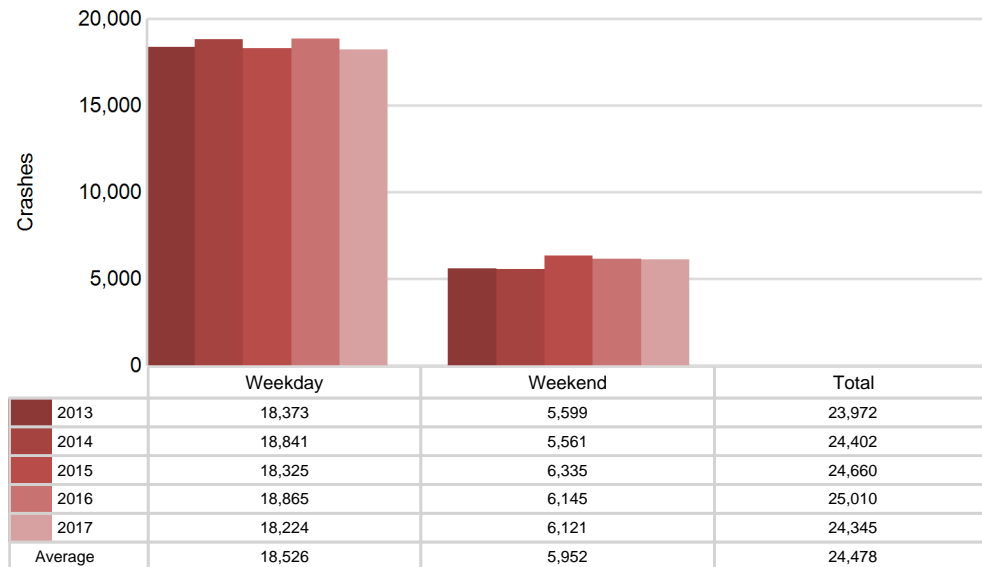


MDOT Region - Southwest (continued)

5-Year Trend - Crashes by Weekday and Weekend

Portion of Week	2013		2014		2015		2016		2017	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Weekday	18,373	80	18,841	44	18,325	60	18,865	74	18,224	68
Weekend	5,599	34	5,561	23	6,335	42	6,145	38	6,121	35
Total	23,972	114	24,402	67	24,660	102	25,010	112	24,345	103

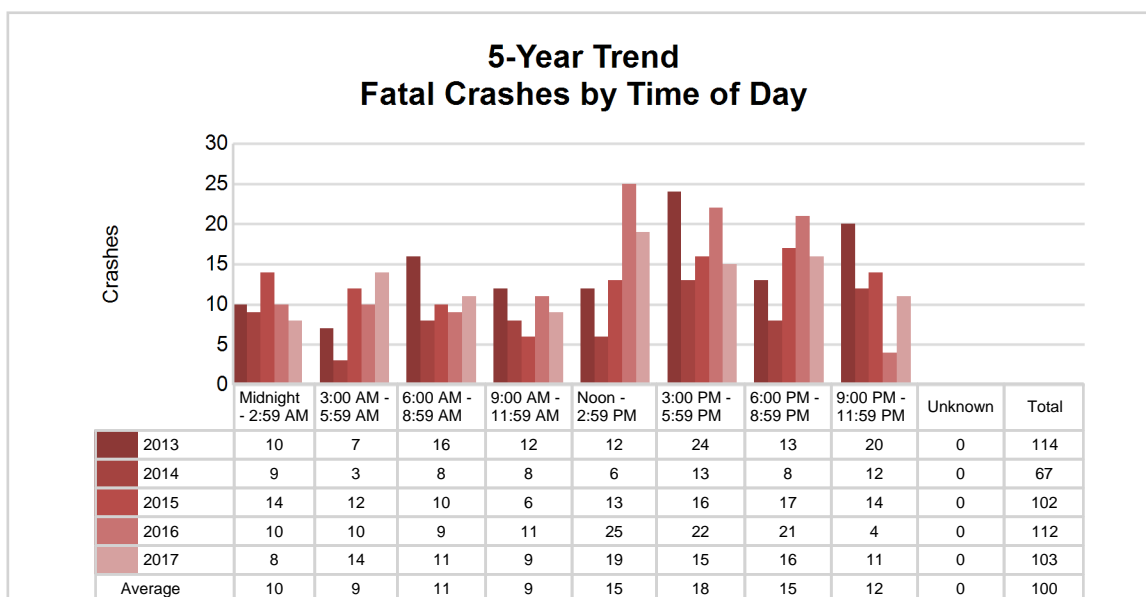
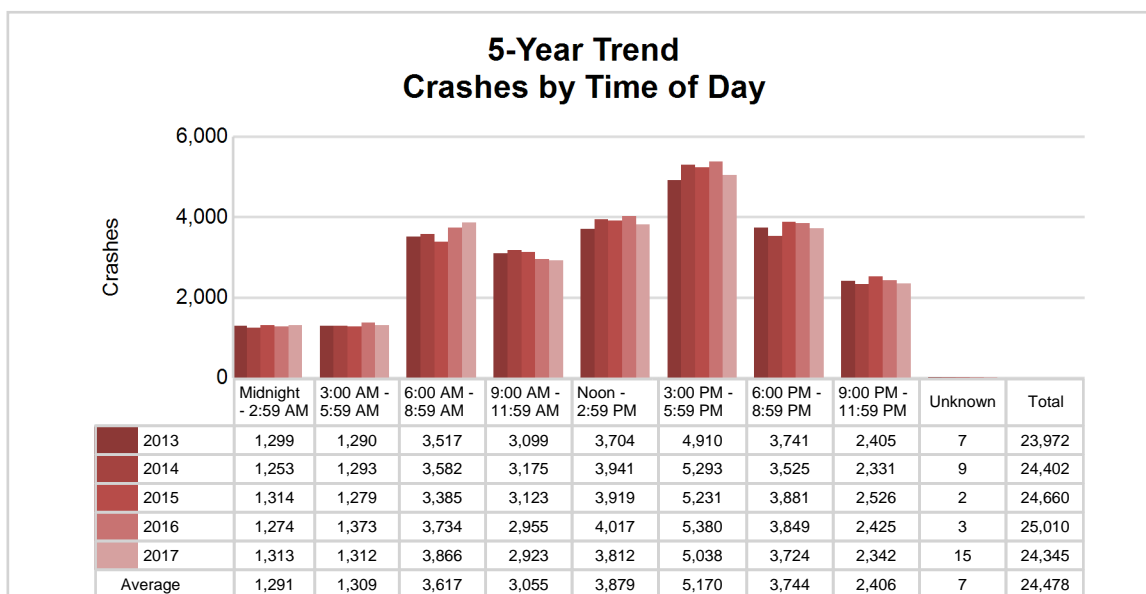
5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



5-Year Trend - Crashes by Time of Day

Time of Day	2013		2014		2015		2016		2017	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	1,299	10	1,253	9	1,314	14	1,274	10	1,313	8
3:00 AM - 5:59 AM	1,290	7	1,293	3	1,279	12	1,373	10	1,312	14
6:00 AM - 8:59 AM	3,517	16	3,582	8	3,385	10	3,734	9	3,866	11
9:00 AM - 11:59 AM	3,099	12	3,175	8	3,123	6	2,955	11	2,923	9
Noon - 2:59 PM	3,704	12	3,941	6	3,919	13	4,017	25	3,812	19
3:00 PM - 5:59 PM	4,910 †	24	5,293 †	13	5,231 †	16	5,380 †	22	5,038 †	15
6:00 PM - 8:59 PM	3,741	13	3,525	8	3,881	17	3,849	21	3,724	16
9:00 PM - 11:59 PM	2,405	20	2,331	12	2,526	14	2,425	4	2,342	11
Unknown	7	0	9	0	2	0	3	0	15	0
Total	23,972	114	24,402	67	24,660	102	25,010	112	24,345	103

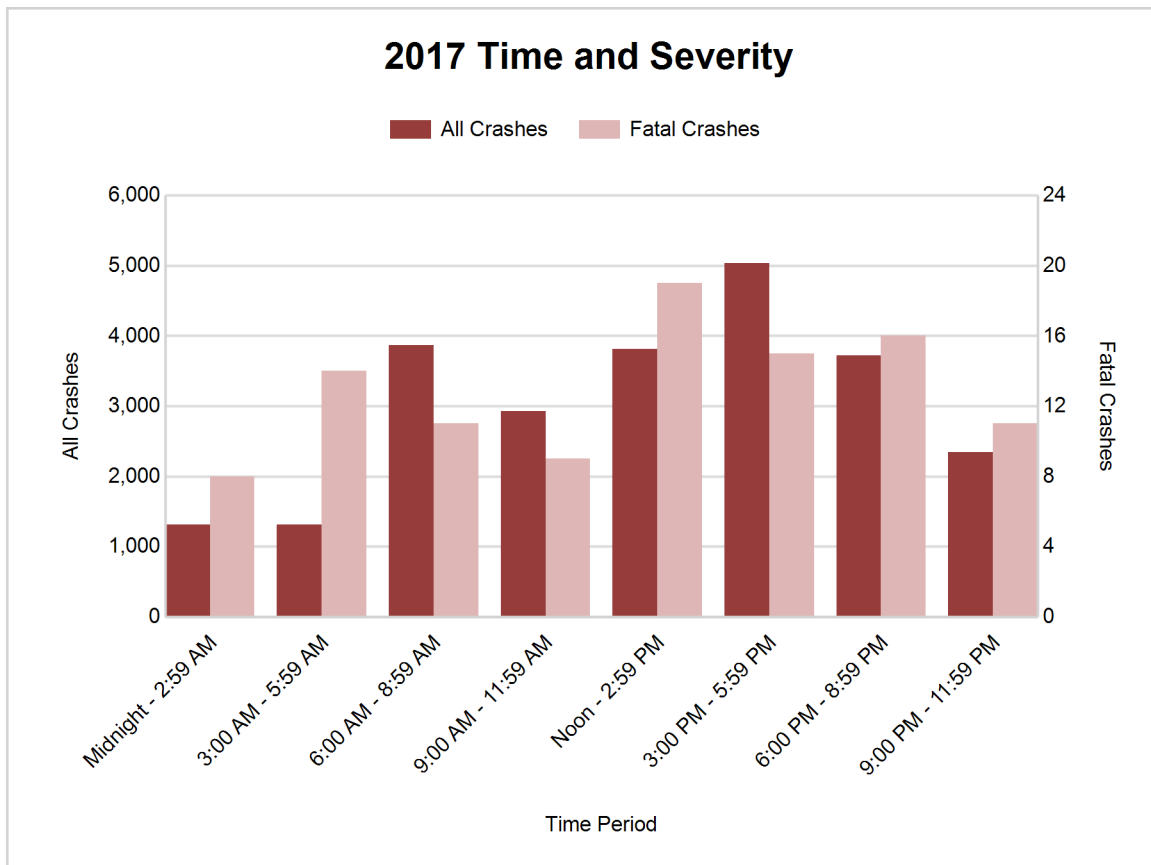
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same time period



MDOT Region - Southwest (continued)

2017 - Time and Severity

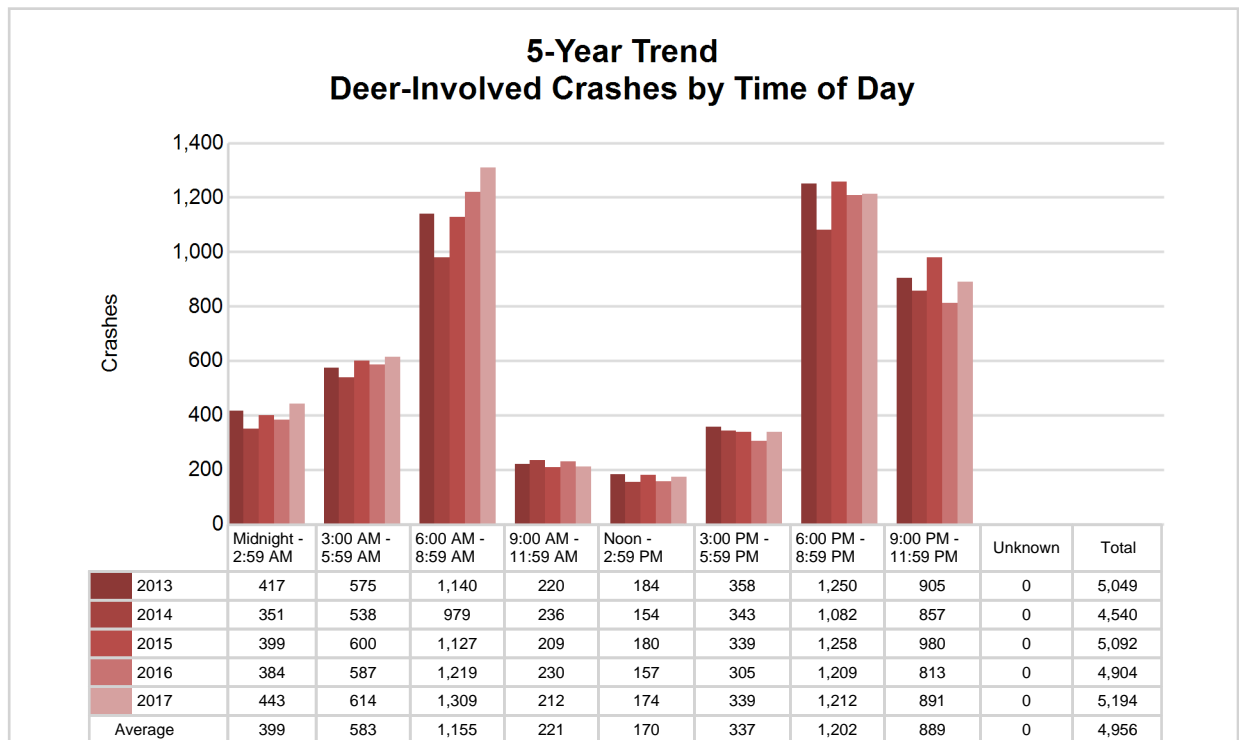
Time of Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Midnight - 2:59 AM	1,313	5.4	8	7.8	40	73	105	1,087
3:00 AM - 5:59 AM	1,312	5.4	14	13.6	28	63	89	1,118
6:00 AM - 8:59 AM	3,866	15.9	11	10.7	54	157	343	3,301
9:00 AM - 11:59 AM	2,923	12.0	9	8.7	51	161	326	2,376
Noon - 2:59 PM	3,812	15.7	19	18.4	85	197	485	3,026
3:00 PM - 5:59 PM	5,038	20.7	15	14.6	123	292	574	4,034
6:00 PM - 8:59 PM	3,724	15.3	16	15.5	72	176	327	3,133
9:00 PM - 11:59 PM	2,342	9.6	11	10.7	59	115	189	1,968
Unknown	15	0.1	0	0.0	0	1	1	13
Total	24,345	100.0	103	100.0	512	1,235	2,439	20,056



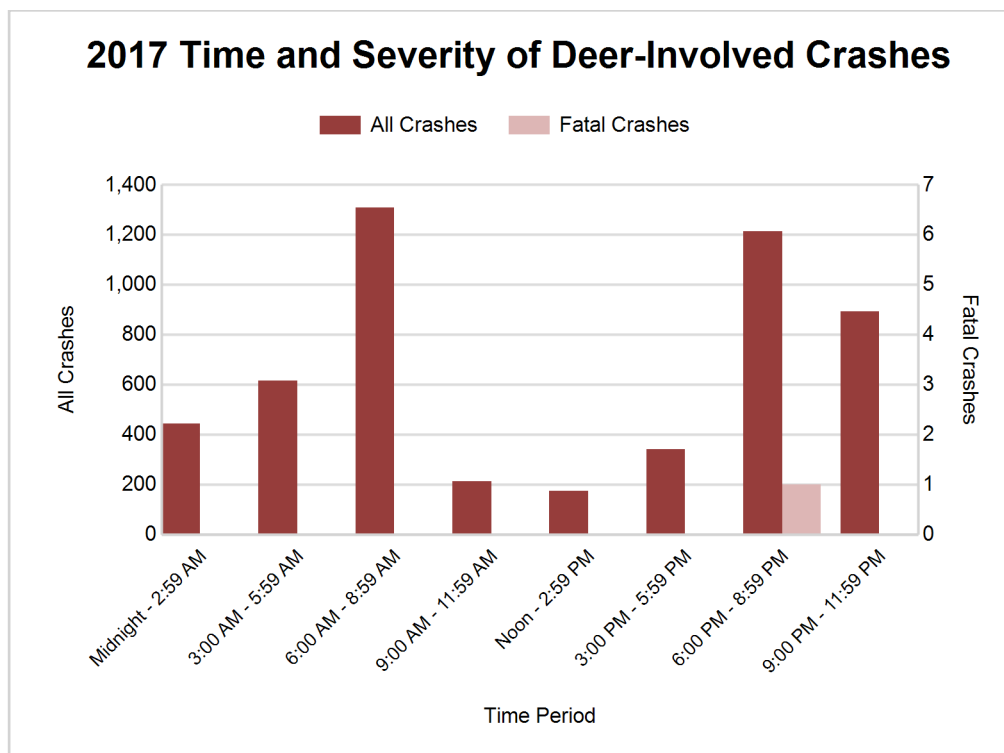
5-Year Trend - Deer-Involved Crashes by Time of Day

Time of Day	2013		2014		2015		2016		2017	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	417	0	351	0	399	1	384	0	443	0
3:00 AM - 5:59 AM	575	1	538	0	600	0	587	0	614	0
6:00 AM - 8:59 AM	1,140	0	979	0	1,127	0	1,219	0	1,309	0
9:00 AM - 11:59 AM	220	0	236	0	209	0	230	0	212	0
Noon - 2:59 PM	184	0	154	0	180	0	157	0	174	0
3:00 PM - 5:59 PM	358	0	343	0	339	1	305	0	339	0
6:00 PM - 8:59 PM	1,250	1	1,082	0	1,258	0	1,209	0	1,212	1
9:00 PM - 11:59 PM	905	0	857	0	980	0	813	0	891	0
Unknown	0	0	0	0	0	0	0	0	0	0
Total	5,049	2	4,540	0	5,092	2	4,904	0	5,194	1

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)



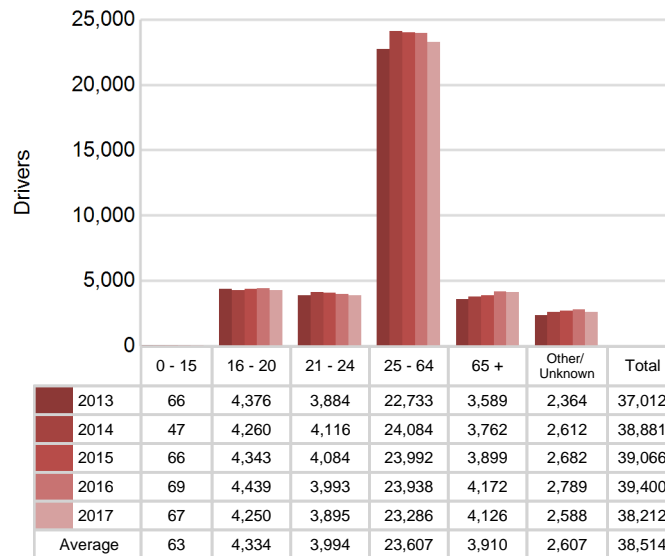
2017 - Reported Motor Vehicle Crashes by County

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	4,585	18	831	3,736	1,034	427	938	2,175	172	45	847	20	1,157
Branch	1,563	2	184	1,377	165	368	80	949	48	15	758	2	262
Calhoun	4,192	16	622	3,554	1,053	0	1,083	2,052	144	56	1,017	19	834
Cass	1,431	13	267	1,151	0	170	439	817	77	22	459	15	352
Kalamazoo	8,521	28	1,543	6,950	1,419	595	1,569	4,919	312	75	972	37	2,084
St. Joseph	1,651	10	320	1,321	0	369	435	843	80	32	479	11	440
Van Buren	2,402	16	419	1,967	669	0	509	1,219	112	45	662	17	595
Total	24,345	103	4,186	20,056	4,340	1,929	5,053	12,974	945	290	5,194	121	5,724

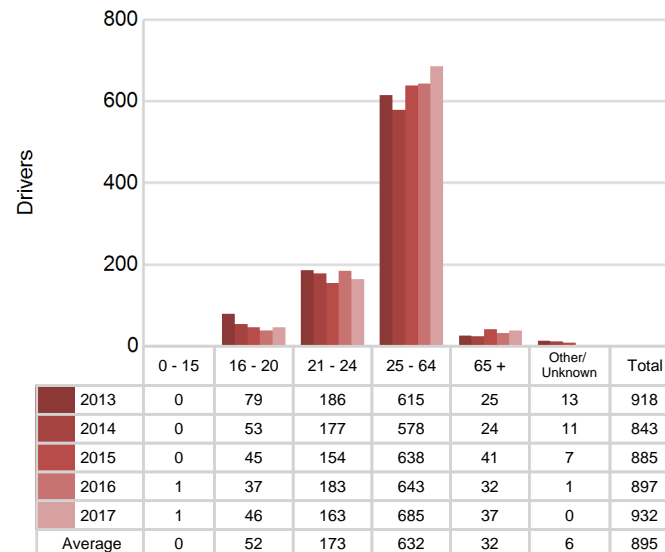
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

Driver Age	2013		2014		2015		2016		2017	
	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	66	0	47	0	66	0	69	1	67	1
16 - 20	4,376	79	4,260	53	4,343	45	4,439	37	4,250	46
21 - 24	3,884	186	4,116	177	4,084	154	3,993	183	3,895	163
25 - 64	22,733	615	24,084	578	23,992	638	23,938	643	23,286	685
65 +	3,589	25	3,762	24	3,899	41	4,172	32	4,126	37
Unknown	2,364	13	2,612	11	2,682	7	2,789	1	2,588	0
Total	37,012	918	38,881	843	39,066	885	39,400	897	38,212	932

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



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



MDOT Region - Southwest (continued)

2017 - 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	2	1	1	0	1	0	0	0
16 - 20	78	68	38	46	2	8	16	9	11
21 - 24	189	173	145	163	1	22	46	44	50
25 - 64	919	700	573	685	6	63	145	217	254
65 +	64	57	32	37	3	7	7	10	10
Unknown	58	1	0	0	0	0	0	0	0
Total	1,310	1,001	789	932	12	101	214	280	325

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 2017, there were 1,310 drivers in alcohol-involved crashes; 932 (71.1%) of those drivers were coded as had-been-drinking by the officer on the crash form.

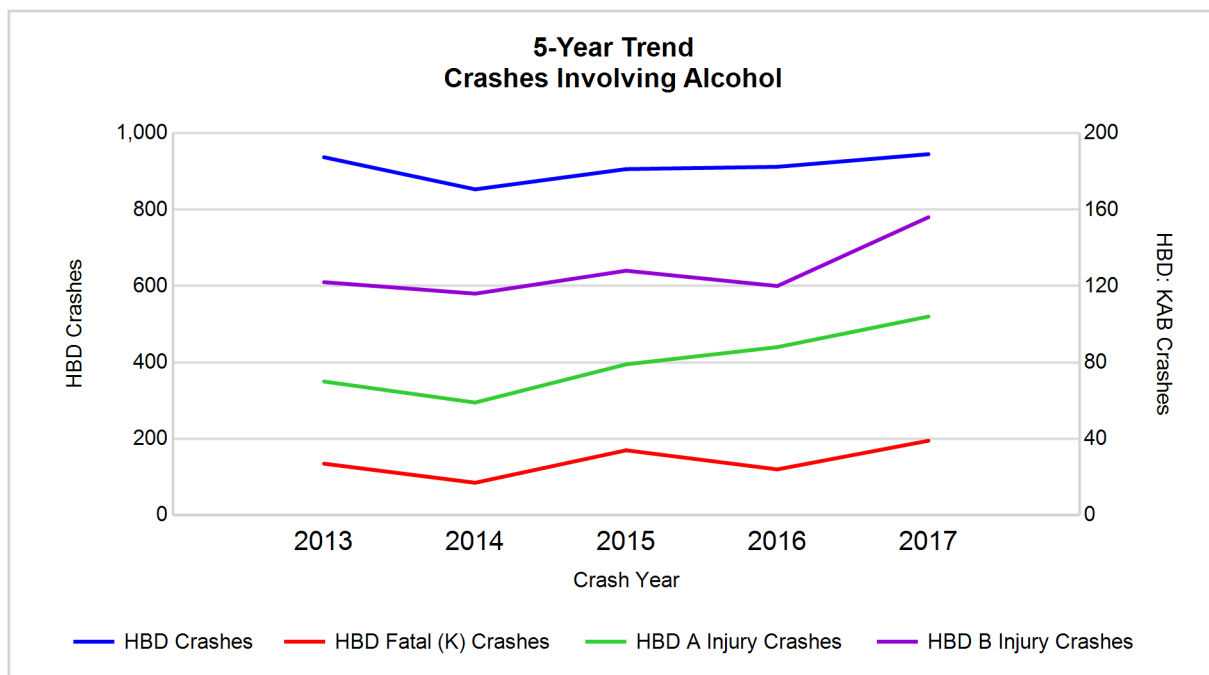
- 494 (53.0%) of the 932 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 280 (56.7%) of the 494 drivers had a BAC at or above 0.17 g/dL.
- 789 (84.7%) of the 932 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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
2013	23,972	937	3.9	114	27	23.7	370	70	18.9	1,006	122	12.1
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**

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



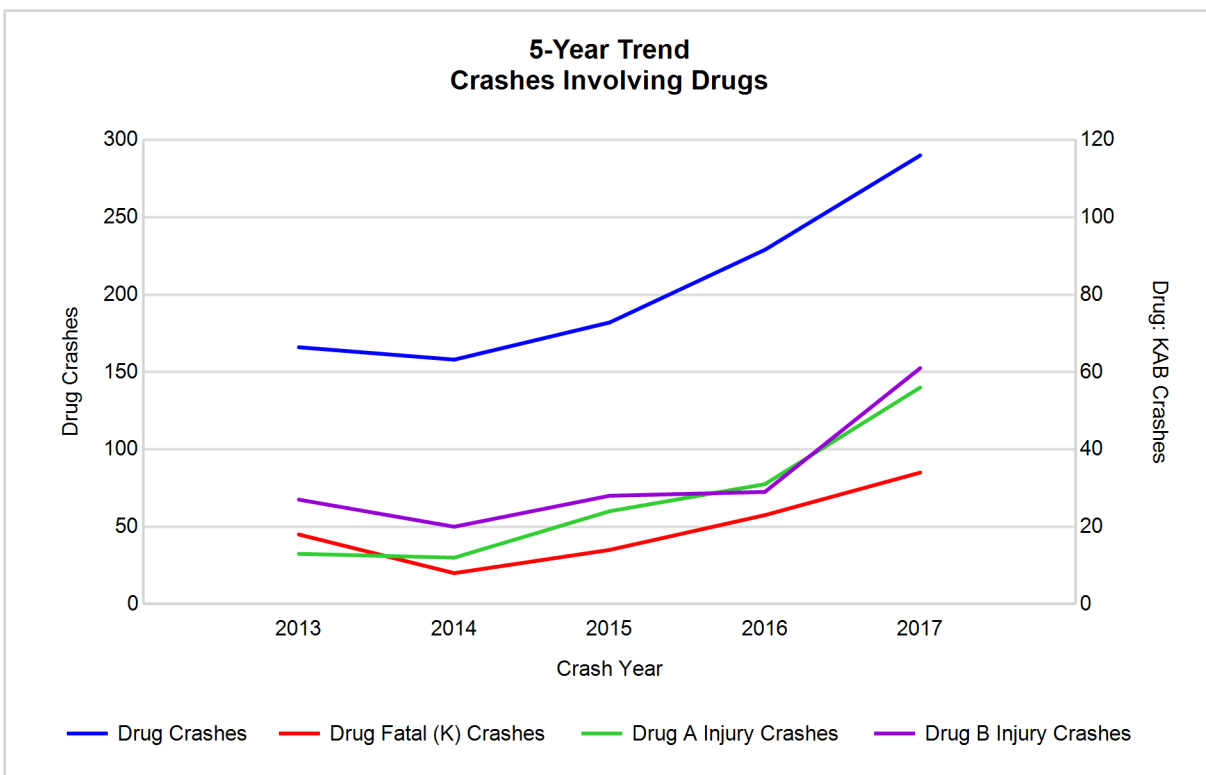
Note: Had-Been-Drinking (HBD)

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
2013	23,972	166	0.7	114	18	15.8	370	13	3.5	1,006	27	2.7
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**

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

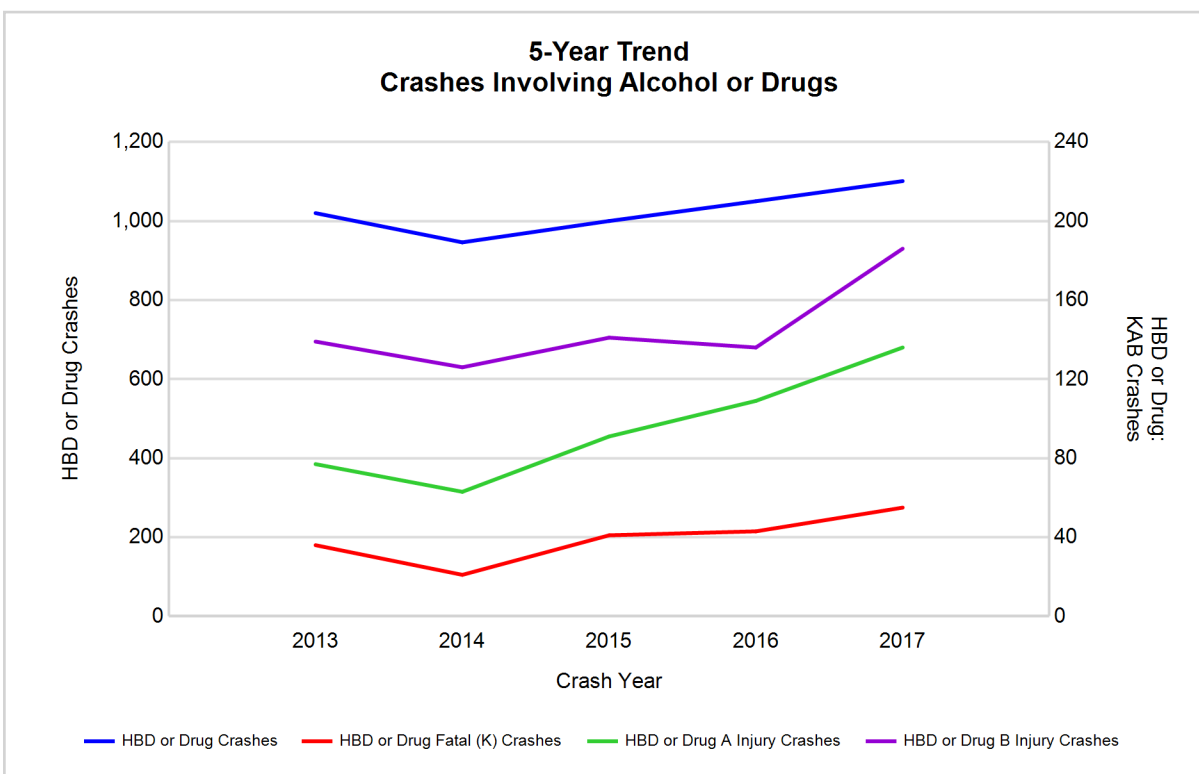


5-Year Trend - Crashes Involving Alcohol or Drugs

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
2013	23,972	1,020	4.3	114	36	31.6	370	77	20.8	1,006	139	13.8
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**

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)

2017 - 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	31,880	28,213	88.5	74	38	51.4	442	328	74.2	1,142	1,023	89.6	2,951	2,708	91.8	25,813	24,115	93.4
Motor home	177	153	86.4	1	0	0.0	8	3	37.5	16	14	87.5	12	11	91.7	135	125	92.6
Pickup truck	4,684	4,217	90.0	14	7	50.0	40	25	62.5	170	142	83.5	297	276	92.9	3,966	3,767	95.0
Small truck under 10,000 lbs. GVWR	293	253	86.3	0	0	0.0	4	3	75.0	11	10	90.9	19	17	89.5	239	223	93.3
Motorcycle	324	190	58.6	13	7	53.8	65	36	55.4	93	49	52.7	65	46	70.8	81	52	64.2
Moped / goped	52	15	28.8	0	0	0.0	9	4	44.4	21	7	33.3	12	2	16.7	8	2	25.0
Go-cart / golf cart	4	0	0.0	0	0	0.0	1	0	0.0	1	0	0.0	2	0	0.0	0	0	0.0
Snowmobile	3	2	66.7	0	0	0.0	1	1	100.0	0	0	0.0	0	0	0.0	1	1	100.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	8	2	25.0	2	0	0.0	3	1	33.3	1	0	0.0	0	0	0.0	2	1	50.0
Other	163	104	63.8	1	0	0.0	4	2	50.0	3	0	0.0	2	1	50.0	139	101	72.7
Truck/bus over 10,000 lbs.	1,272	1,161	91.3	1	1	100.0	4	4	100.0	24	19	79.2	67	53	79.1	1,139	1,084	95.2
Unknown	800	2	0.3	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	16	2	12.5
Total	39,660	34,312	86.5	106	53	50.0	581	407	70.1	1,482	1,264	85.3	3,427	3,114	90.9	31,539	29,473	93.4

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.

2017 - 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	449	376	83.7	6	0	0.0	30	25	83.3	88	73	83.0	273	236	86.4	52	42	80.8
16 - 20	4,489	4,166	92.8	6	1	16.7	87	60	69.0	214	182	85.0	404	367	90.8	3,764	3,555	94.4
21 - 24	3,996	3,648	91.3	10	3	30.0	54	35	64.8	162	130	80.2	339	295	87.0	3,422	3,185	93.1
25 - 64	23,878	22,088	92.5	69	38	55.1	351	241	68.7	846	712	84.2	1,975	1,806	91.4	20,573	19,291	93.8
65 +	4,260	4,032	94.6	15	11	73.3	59	46	78.0	172	167	97.1	435	410	94.3	3,569	3,398	95.2
Unknown	2,588	2	0.1	0	0	0.0	0	0	0.0	0	0	0.0	1	0	0.0	159	2	1.3
Total	39,660	34,312	86.5	106	53	50.0	581	407	70.1	1,482	1,264	85.3	3,427	3,114	90.9	31,539	29,473	93.4

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	2013			2014			2015			2016			2017		
	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	194	2	26	173	0	19	187	1	18	118	0	17	64	2	9
Shoulder belt only used	89	0	11	212	0	8	117	0	8	198	1	28	227	1	37
Lap belt only used	130	1	11	128	0	19	168	1	20	127	0	20	99	1	12
Both lap & shoulder belts used	32,380	43	3,155	33,850	18	3,222	33,881	33	3,251	33,931	41	3,557	32,566	34	3,404
No belts used	293	20	97	291	13	96	269	16	92	254	16	90	251	16	99
Child restraint used	0	0	0	1	0	0	1	0	0	2	0	0	1	0	0
Child restraint not used, unavailable or improper use	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Restraint failure	6	0	0	10	0	0	7	0	1	8	0	0	19	0	4
Restraint use unknown	1,374	11	159	1,476	5	133	1,562	9	150	3,652	10	169	4,575	10	256
Helmet worn	241	6	174	206	4	134	207	8	152	181	7	125	197	6	136
Helmet not worn	122	5	96	119	4	93	144	10	99	168	4	116	136	6	103
Helmet use unknown	23	1	12	15	1	6	26	0	12	22	1	14	19	1	10
Uncoded & errors	2,158	0	2	2,399	0	4	2,497	0	6	739	0	2	58	0	1
Total	37,012	89	3,743	38,881	45	3,734	39,066	78	3,809	39,400	80	4,138	38,212	77	4,071

5-Year Trend - Restraint Use Among Drivers Coded Drinking

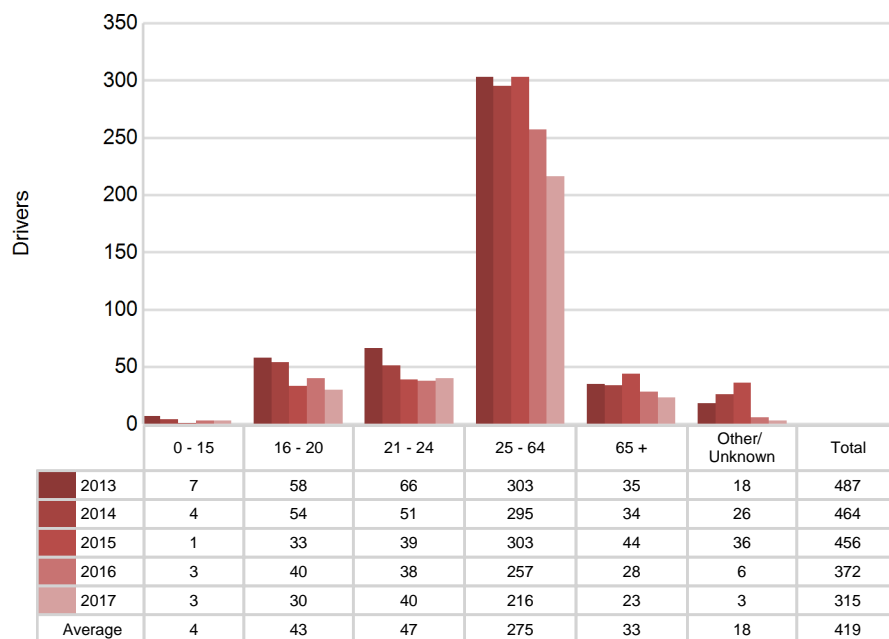
Restraint Use	2013			2014			2015			2016			2017		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	7	0	5	5	0	0	7	1	3	2	0	1	0	0	0
Shoulder belt only used	5	0	1	2	0	0	2	0	2	12	1	1	5	1	3
Lap belt only used	2	0	1	3	0	1	4	0	1	2	0	1	2	0	0
Both lap & shoulder belts used	632	5	168	615	3	150	618	8	165	658	5	205	625	10	194
No belts used	62	11	34	53	2	31	66	4	41	38	6	24	53	9	31
Child restraint used	0	0	0	0	0	0	0	0	0	0	0	0	1	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	176	3	48	131	2	31	151	1	44	153	2	33	203	3	71
Helmet worn	12	0	9	12	0	11	12	4	6	4	1	3	12	3	8
Helmet not worn	14	1	11	15	2	11	19	3	14	26	0	21	28	3	23
Helmet use unknown	1	0	1	0	0	0	1	0	1	1	0	1	3	1	2
Uncoded & errors	7	0	0	7	0	0	5	0	1	1	0	0	0	0	0
Total	918	20	278	843	9	235	885	21	278	897	15	290	932	30	332

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

Age Group	2013			2014			2015			2016			2017		
	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	1	4	0	0	1	0	0	3	0	2	3	0	1
16 - 20	58	1	18	54	2	19	33	2	6	40	3	13	30	1	11
21 - 24	66	2	27	51	3	13	39	1	15	38	1	11	40	6	15
25 - 64	303	15	71	295	7	73	303	8	78	257	9	76	216	10	71
65 +	35	4	6	34	1	9	44	6	10	28	3	5	23	1	10
Unknown	18	0	0	26	0	1	36	0	1	6	0	0	3	0	0
Total	487	22	123	464	13	115	456	17	110	372	16	107	315	18	108

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

5-Year Trend Driver Seatbelt Not Used

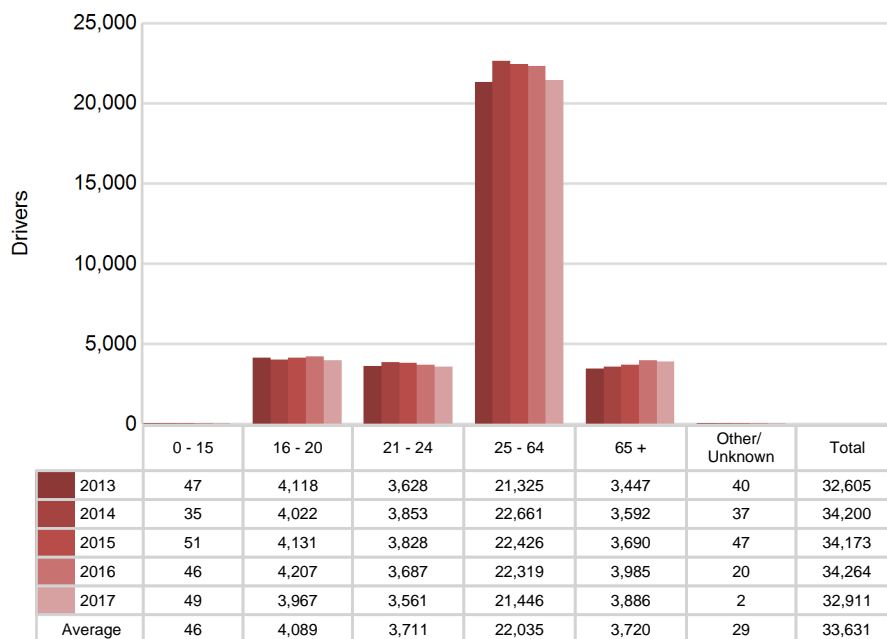


5-Year Trend - Seatbelt Used Among Drivers by Age

Age Group	2013			2014			2015			2016			2017		
	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	47	0	4	35	0	4	51	0	9	46	0	7	49	0	7
16 - 20	4,118	5	419	4,022	1	387	4,131	5	427	4,207	7	454	3,967	0	414
21 - 24	3,628	3	348	3,853	3	380	3,828	6	356	3,687	1	379	3,561	3	379
25 - 64	21,325	14	1,981	22,661	10	2,123	22,426	16	2,078	22,319	26	2,321	21,446	26	2,170
65 +	3,447	22	423	3,592	4	352	3,690	7	409	3,985	8	444	3,886	7	487
Unknown	40	0	2	37	0	3	47	0	1	20	0	0	2	0	0
Total	32,605	44	3,177	34,200	18	3,249	34,173	34	3,280	34,264	42	3,605	32,911	36	3,457

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	2013		2014		2015		2016		2017	
	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	19,792	71	20,780	36	21,253	96	20,696	78	20,093	72
Speed too fast	4,084	26	4,053	17	3,733	40	3,798	21	3,423	19
Speed too slow	45	0	37	0	40	1	32	0	39	1
Failed to yield	2,856	12	3,277	10	3,236	11	3,303	18	3,276	6
Disregard traffic control	753	6	743	3	799	2	795	10	710	10
Drove wrong way	26	0	29	0	39	0	24	1	25	1
Drove left of center	198	14	218	2	241	8	236	8	197	6
Improper passing	207	0	202	2	198	1	209	1	173	0
Improper lane use	594	0	729	1	695	1	747	0	801	1
Improper turn	373	0	385	1	395	0	411	0	409	2
Improper/no signal	82	1	62	0	60	0	46	0	28	0
Improper backing	579	0	640	0	589	0	626	0	506	1
Unable to stop in assured clear distance	4,150	4	4,301	4	4,402	14	4,439	7	4,247	4
Other	1,386	7	1,491	5	1,419	7	1,384	7	1,344	7
Unknown	673	14	701	11	698	10	1,214	14	1,518	15
Reckless driving	201	5	183	2	195	5	213	6	242	6
Careless/negligent driving	1,008	9	1,048	8	1,069	17	1,219	10	1,176	14
Uncoded & errors	5	0	2	0	5	1	8	0	5	0
Total	37,012	169	38,881	102	39,066	214	39,400	181	38,212	165

MDOT Region - Southwest (continued)



The picture above represents all 2017 alcohol-involved fatal crashes in MDOT Region - Southwest.

In 2017, there were 945 alcohol-involved crashes in MDOT Region - Southwest:

39 K - Fatal Crashes

104 A - Suspected Serious Injury Crashes

156 B - Suspected Minor Injury Crashes

143 C - Possible Injury Crashes

503 O - Property Damage Only/No Injury Crashes

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