



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

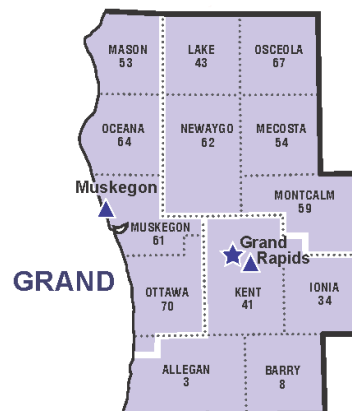
Property Damage Only (PDO)



MDOT Region - Grand

2017 Traffic Crash Data & 2013-2017 5-Year Trends

Beginning October 2015, MDOT Region - Grand is comprised of Allegan, Barry, Ionia, Kent, Lake, Mason, Mecosta, Montcalm, Muskegon, Newaygo, Oceana, Osceola, and Ottawa 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.

This page left intentionally blank

MDOT Region - Grand Experience

In 2017:

There were 85,821 drivers involved in 52,478 motor vehicle crashes in MDOT Region Grand. Of those crashes, 181 were classified as fatal, resulting in 194 fatalities. An additional 11,812 persons were injured.

MDOT Region Grand experienced the highest number of motor vehicle crashes (7,033) in December, the highest number of fatal crashes (20) and the highest number of persons killed (22) in November.

Michigan driver statistics indicate 6.9 percent of licensed drivers in MDOT Region Grand were age 16-20, and 12.1 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	4,878	10	692	4,176	11	901
February	3,367	12	542	2,813	13	744
March	3,815	17	619	3,179	18	845
April	3,309	12	612	2,685	12	888
May	3,980	13	752	3,215	15	1,040
June	4,181	17	791	3,373	18	1,087
July	3,797	14	771	3,012	15	1,018
August	3,702	18	714	2,970	18	1,014
September	3,980	19	802	3,159	19	1,103
October	5,338	18	833	4,487	21	1,134
November	5,098	20	609	4,469	22	849
December	7,033	11	913	6,109	12	1,189
Total	52,478	181	8,650	43,647	194	11,812

2017 - Driver Statistics

Age Group	MDOT Region - Grand			Driver Rates	
	2017 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	332,610	9,015	150	4.5	166.4
16 - 20	111,985	79,325	10,381	927.0	1,308.7
21 - 24	90,720	76,156	8,850	975.5	1,162.1
25 - 64	817,766	755,804	51,854	634.1	686.1
65 +	242,884	221,150	7,791	320.8	352.3
Unknown	0	0	6,795	- -	- -
Total	1,595,965	1,141,450	85,821	537.7	751.9

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	70,081	81.7	200	67.6	12,699	57,182
Motor home	301	0.4	2	0.7	55	244
Pickup truck	9,826	11.4	37	12.5	1,693	8,096
Small truck under 10,000 lbs. GVWR	605	0.7	1	0.3	95	509
Motorcycle	536	0.6	29	9.8	379	128
Moped / goped	91	0.1	1	0.3	80	10
Go-cart / golf cart	3	0.0	0	0.0	1	2
Snowmobile	12	0.0	0	0.0	4	8
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	41	0.0	2	0.7	25	14
Other	361	0.4	0	0.0	45	316
Truck/bus over 10,000 lbs.	2,072	2.4	23	7.8	363	1,686
Unknown	1,892	2.2	1	0.3	114	1,777
Total	85,821	100.0	296	100.0	15,553	69,972

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	4,943	12	6,470	3	5,166	12	5,084	7	4,878	10
February	5,026	3	5,161	12	4,633	9	3,962	10	3,367	12
March	3,318	6	3,756	11	3,213	9	3,669	6	3,815	17
April	2,863	4	2,558	11	2,760	7	3,418	16	3,309	12
May	3,398	17	3,280	15	3,556	16	3,965	10	3,980	13
June	3,230	12	3,377	12	3,671	11	3,931	15	4,181	17
July	3,261	17	3,137	22	3,580	10	3,611	15	3,797	14
August	3,113	19	3,250	16	3,251	25	3,898	12	3,702	18
September	3,350	9	3,345	14	3,526	10	4,045	19	3,980	19
October	4,363	24	4,479	11	4,805	11	4,849	15	5,338	18
November	5,421	10	6,470	7	4,981	14	5,249	16	5,098	20
December	5,259	7	3,750	8	4,177	15	6,242	11	7,033	11
Total	47,545	140	49,033	142	47,319	149	51,923	152	52,478	181

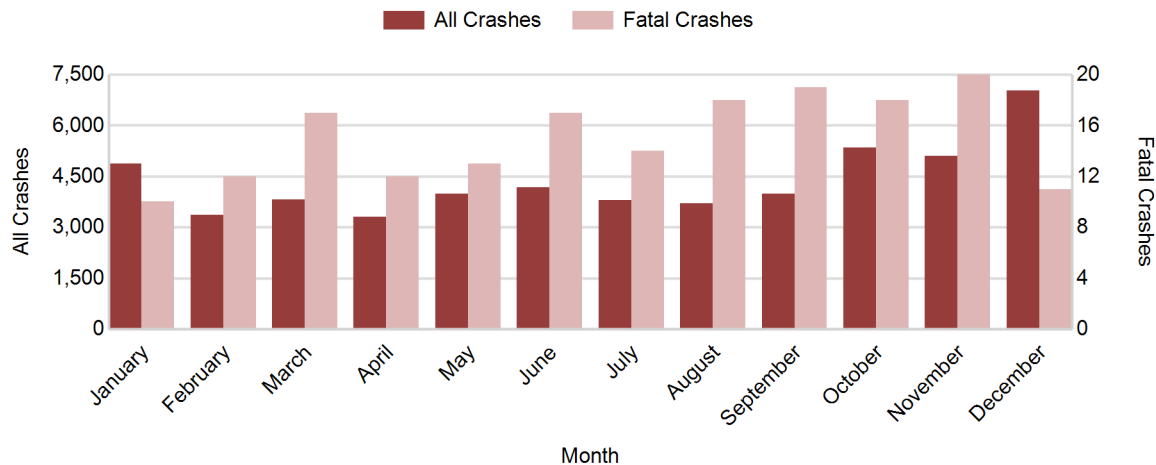
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

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	7,079	19	6,961	15	6,873	17	7,336	24	7,502	15
Tuesday	7,529	21	7,365	12	7,033	17	7,775	22	7,691	23
Wednesday	6,974	19	7,797	25	7,311	23	7,937	20	7,901	32
Thursday	7,469	21	7,901	19	7,215	19	8,122	19	8,192	32
Friday	7,559 †	21	8,208 †	19	7,694 †	19	8,813 †	25	8,904 †	25
Saturday	6,196	20	5,961	29	6,415	25	6,681	23	6,974	27
Sunday	4,739	19	4,840	23	4,778	29	5,259	19	5,314	27
Total	47,545	140	49,033	142	47,319	149	51,923	152	52,478	181

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

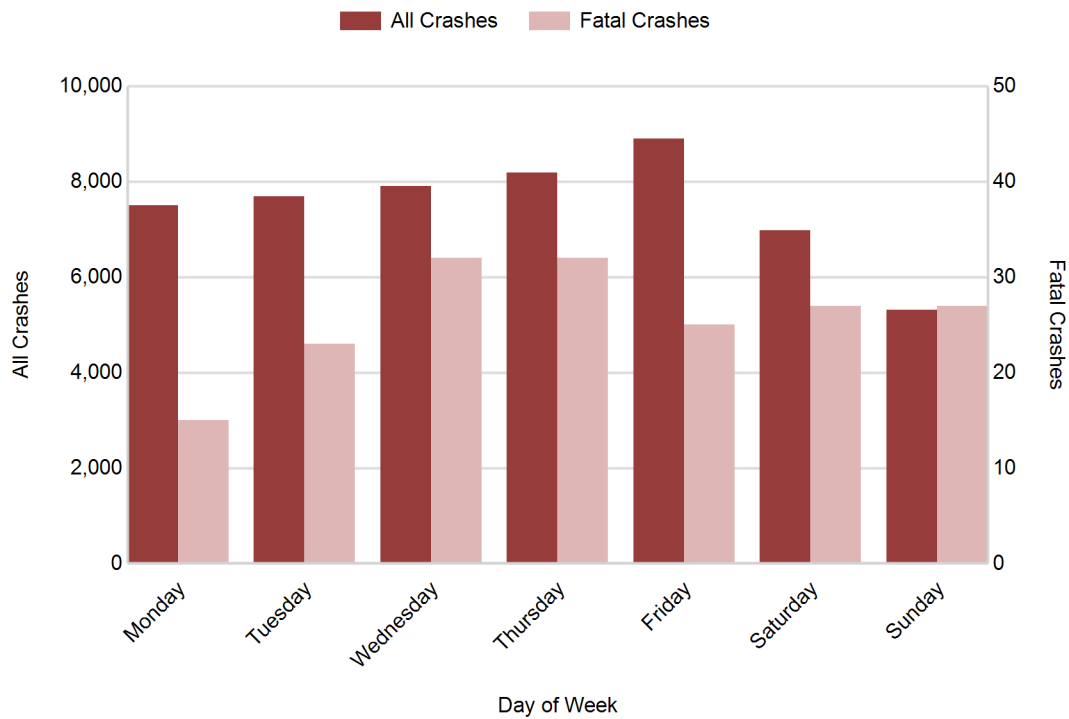
2017 Crashes by Month



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	7,502	14.3	15	8.3	102	339	793	6,253
Tuesday	7,691	14.7	23	12.7	122	343	804	6,399
Wednesday	7,901	15.1	32	17.7	125	311	740	6,693
Thursday	8,192	15.6	32	17.7	130	364	827	6,839
Friday	8,904	17.0	25	13.8	155	437	916	7,371
Saturday	6,974	13.3	27	14.9	179	371	663	5,734
Sunday	5,314	10.1	27	14.9	149	300	480	4,358
Total	52,478	100.0	181	100.0	962	2,465	5,223	43,647

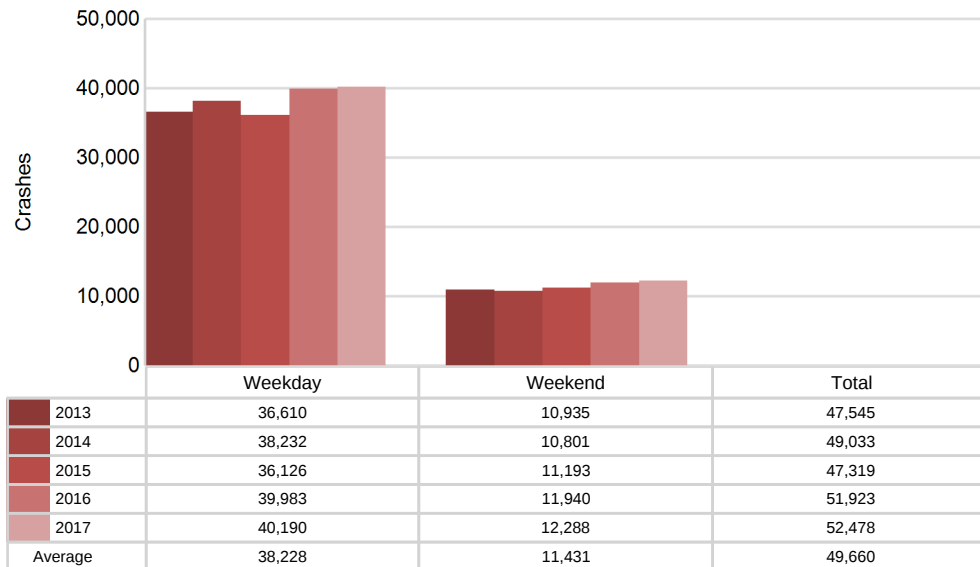
2017 Day of Week and Severity



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	36,610	101	38,232	90	36,126	95	39,983	110	40,190	127
Weekend	10,935	39	10,801	52	11,193	54	11,940	42	12,288	54
Total	47,545	140	49,033	142	47,319	149	51,923	152	52,478	181

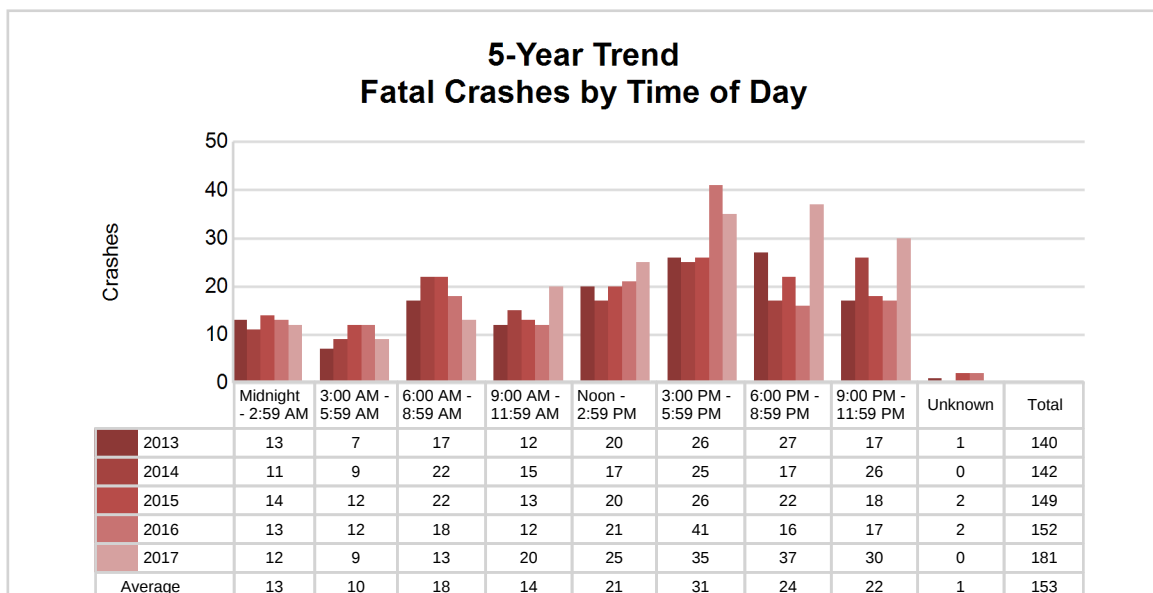
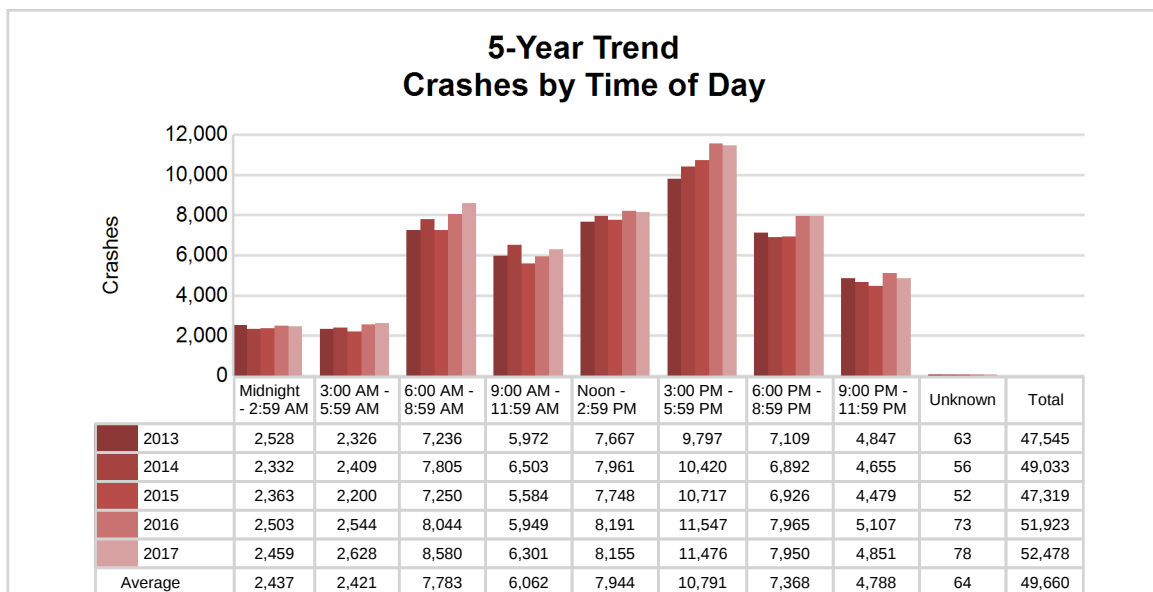
5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



5-Year Trend - Crashes by Time of Day

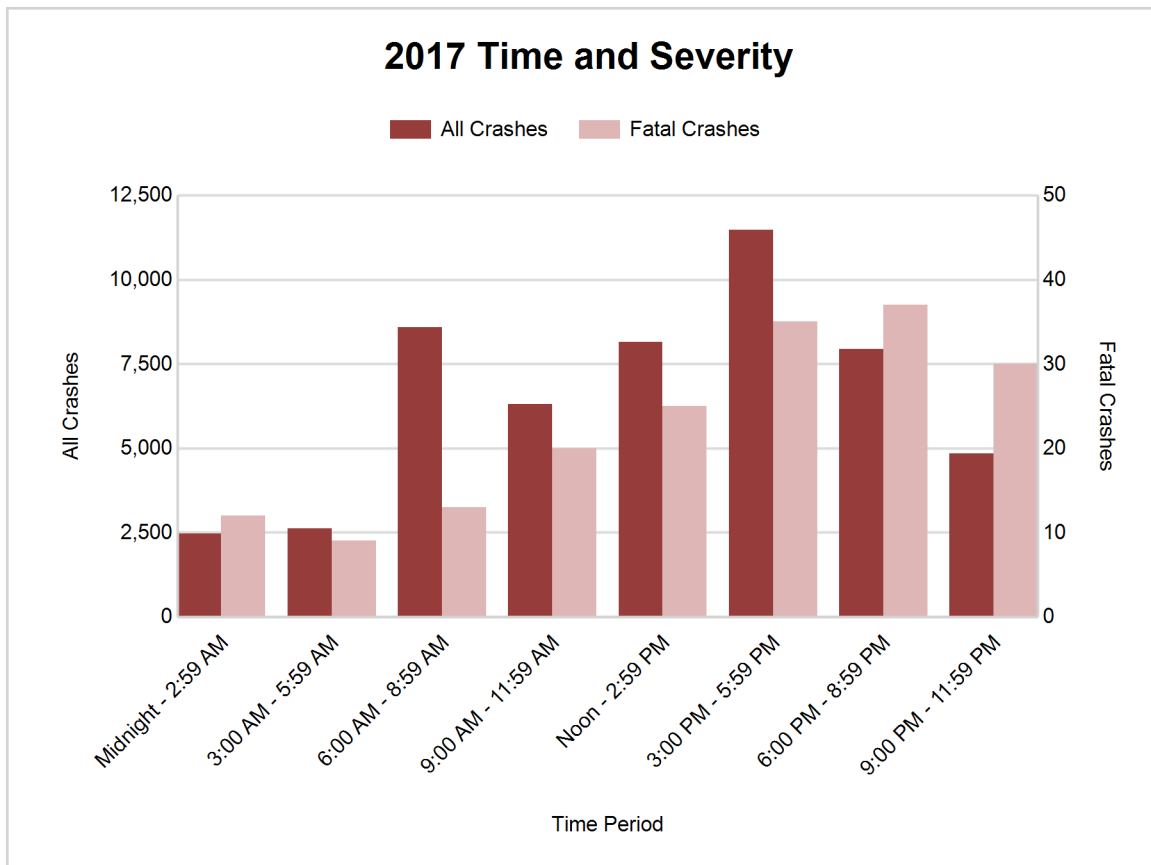
Time of Day	2013		2014		2015		2016		2017	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	2,528	13	2,332	11	2,363	14	2,503	13	2,459	12
3:00 AM - 5:59 AM	2,326	7	2,409	9	2,200	12	2,544	12	2,628	9
6:00 AM - 8:59 AM	7,236	17	7,805	22	7,250	22	8,044	18	8,580	13
9:00 AM - 11:59 AM	5,972	12	6,503	15	5,584	13	5,949	12	6,301	20
Noon - 2:59 PM	7,667	20	7,961	17	7,748	20	8,191	21	8,155	25
3:00 PM - 5:59 PM	9,797 †	26	10,420 †	25	10,717 †	26	11,547 †	41	11,476 †	35
6:00 PM - 8:59 PM	7,109	27	6,892	17	6,926	22	7,965	16	7,950	37
9:00 PM - 11:59 PM	4,847	17	4,655	26	4,479	18	5,107	17	4,851	30
Unknown	63	1	56	0	52	2	73	2	78	0
Total	47,545	140	49,033	142	47,319	149	51,923	152	52,478	181

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



2017 - Time and Severity

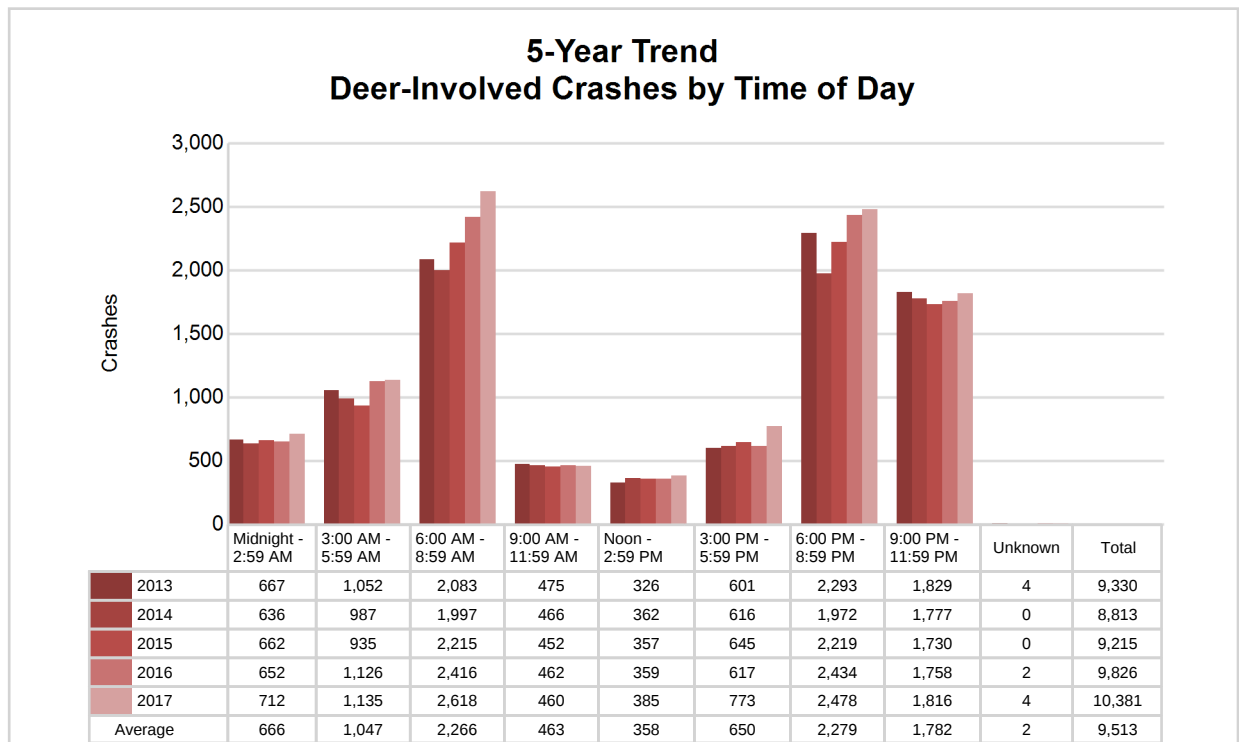
Time of Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Midnight - 2:59 AM	2,459	4.7	12	6.6	71	136	194	2,046
3:00 AM - 5:59 AM	2,628	5.0	9	5.0	51	99	154	2,315
6:00 AM - 8:59 AM	8,580	16.3	13	7.2	102	288	696	7,481
9:00 AM - 11:59 AM	6,301	12.0	20	11.0	119	291	680	5,191
Noon - 2:59 PM	8,155	15.5	25	13.8	133	456	1,000	6,541
3:00 PM - 5:59 PM	11,476	21.9	35	19.3	235	572	1,407	9,227
6:00 PM - 8:59 PM	7,950	15.1	37	20.4	145	360	689	6,719
9:00 PM - 11:59 PM	4,851	9.2	30	16.6	106	261	403	4,051
Unknown	78	0.1	0	0.0	0	2	0	76
Total	52,478	100.0	181	100.0	962	2,465	5,223	43,647

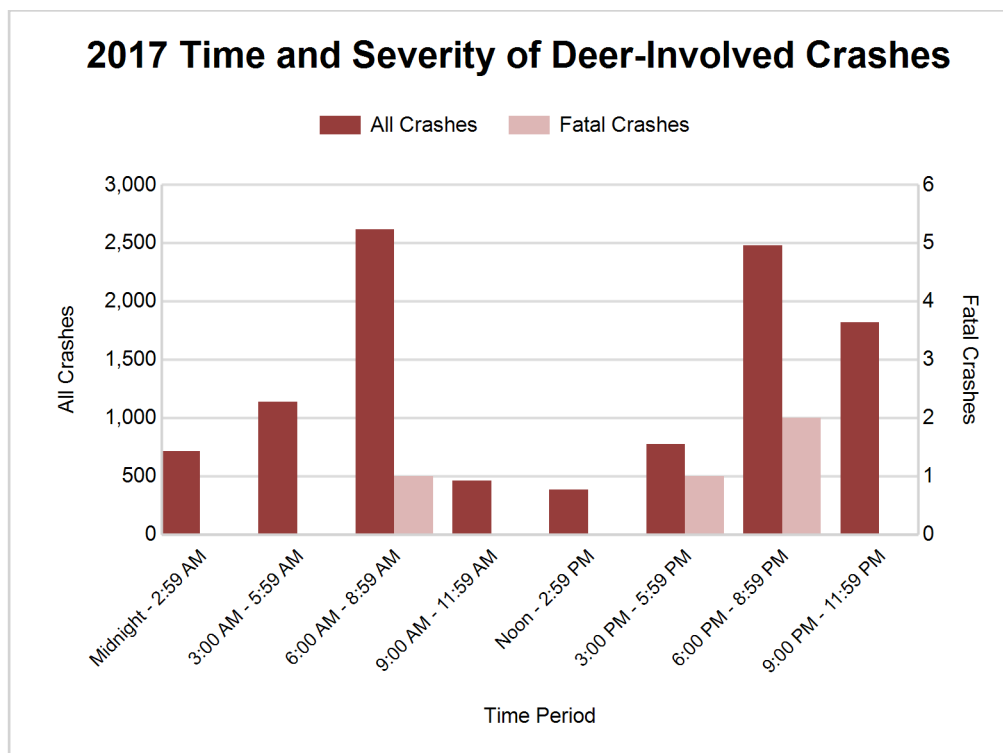


5-Year Trend - Deer-Involved Crashes by Time of Day

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	667	1	636	0	662	1	652	0	712	0
3:00 AM - 5:59 AM	1,052	0	987	0	935	0	1,126	0	1,135	0
6:00 AM - 8:59 AM	2,083	1	1,997	0	2,215	1	2,416	0	2,618	1
9:00 AM - 11:59 AM	475	0	466	0	452	0	462	0	460	0
Noon - 2:59 PM	326	0	362	0	357	0	359	1	385	0
3:00 PM - 5:59 PM	601	0	616	1	645	0	617	1	773	1
6:00 PM - 8:59 PM	2,293	2	1,972	0	2,219	0	2,434	0	2,478	2
9:00 PM - 11:59 PM	1,829	0	1,777	1	1,730	1	1,758	0	1,816	0
Unknown	4	0	0	0	0	0	2	0	4	0
Total	9,330	4	8,813	2	9,215	3	9,826	2	10,381	4

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





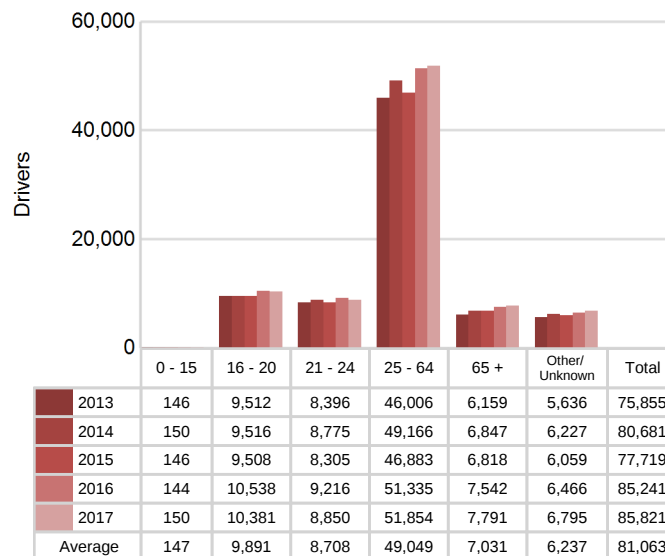
2017 - Reported Motor Vehicle Crashes by County

County	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Allegan	3,687	13	599	3,075	269	535	732	2,147	190	49	1,044	13	834
Barry	1,444	10	187	1,247	0	0	626	816	60	13	568	11	274
Ionia	1,749	10	292	1,447	401	0	522	823	76	14	471	10	392
Kent	22,712	65	4,092	18,555	2,911	2,375	4,680	12,719	885	173	1,572	69	5,442
Lake	477	1	68	408	0	97	83	292	22	0	276	1	84
Mason	1,434	8	152	1,274	0	569	38	825	42	26	741	9	204
Mecosta	1,942	4	182	1,756	0	286	712	944	61	9	902	4	246
Montcalm	2,222	19	340	1,863	0	142	792	1,286	80	24	1,075	23	495
Muskegon	5,012	16	880	4,116	95	1,060	637	3,213	163	56	636	17	1,273
Newaygo	1,523	12	229	1,282	0	0	491	1,030	71	18	716	12	323
Oceana	1,058	2	145	911	0	256	110	691	49	18	540	2	190
Osceola	1,166	4	117	1,045	0	383	161	621	37	8	718	6	164
Ottawa	8,052	17	1,367	6,668	972	961	773	5,342	304	59	1,122	17	1,891
Total	52,478	181	8,650	43,647	4,648	6,664	10,357	30,749	2,040	467	10,381	194	11,812

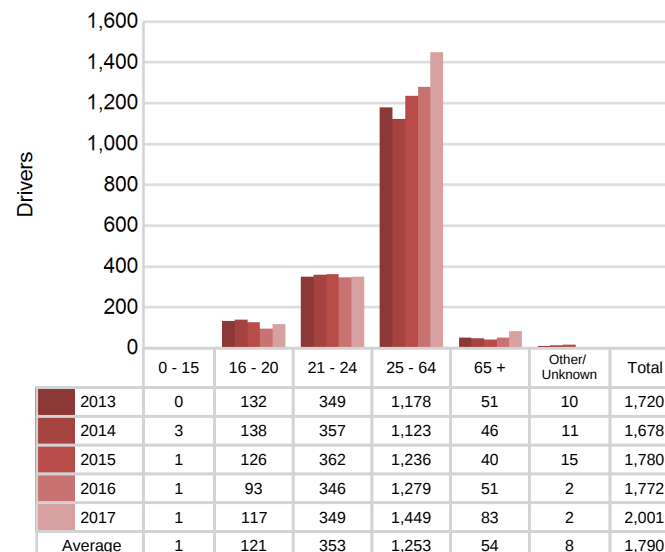
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

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	146	0	150	3	146	1	144	1	150	1
16 - 20	9,512	132	9,516	138	9,508	126	10,538	93	10,381	117
21 - 24	8,396	349	8,775	357	8,305	362	9,216	346	8,850	349
25 - 64	46,006	1,178	49,166	1,123	46,883	1,236	51,335	1,279	51,854	1,449
65 +	6,159	51	6,847	46	6,818	40	7,542	51	7,791	83
Unknown	5,636	10	6,227	11	6,059	15	6,466	2	6,795	2
Total	75,855	1,720	80,681	1,678	77,719	1,780	85,241	1,772	85,821	2,001

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



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



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	1	1	1	0	1	0	0	0
16 - 20	207	184	101	117	4	21	34	15	43
21 - 24	439	339	293	349	5	37	111	72	124
25 - 64	1,951	1,464	1,157	1,449	14	143	353	373	566
65 +	134	118	72	83	1	8	23	22	29
Unknown	230	0	0	2	0	0	0	0	2
Total	2,963	2,106	1,624	2,001	24	210	521	482	764

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 2,963 drivers in alcohol-involved crashes; 2,001 (67.5%) of those drivers were coded as had-been-drinking by the officer on the crash form.

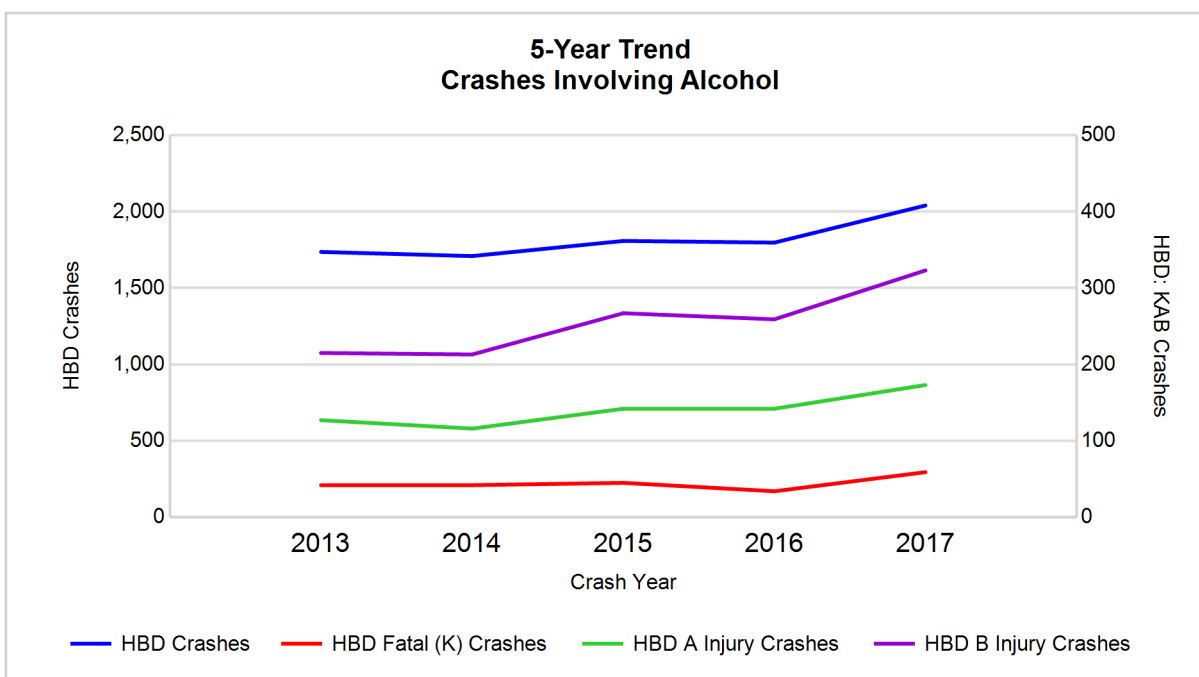
- 1,003 (50.1%) of the 2,001 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 482 (48.1%) of the 1,003 drivers had a BAC at or above 0.17 g/dL.
- 1,624 (81.2%) of the 2,001 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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	47,545	1,736	3.7	140	42	30.0	717	127	17.7	2,061	215	10.4
2014	49,033	1,709	3.5	142	42	29.6	733	116	15.8	2,051	213	10.4
2015	47,319	1,808	3.8	149	45	30.2	731	142	19.4	2,005	267	13.3
2016	51,923	1,797	3.5	152	34	22.4	941	142	15.1	2,480	259	10.4
2017	52,478**	2,040**	3.9**	181**	59**	32.6**	962**	173**	18.0	2,465	323**	13.1

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



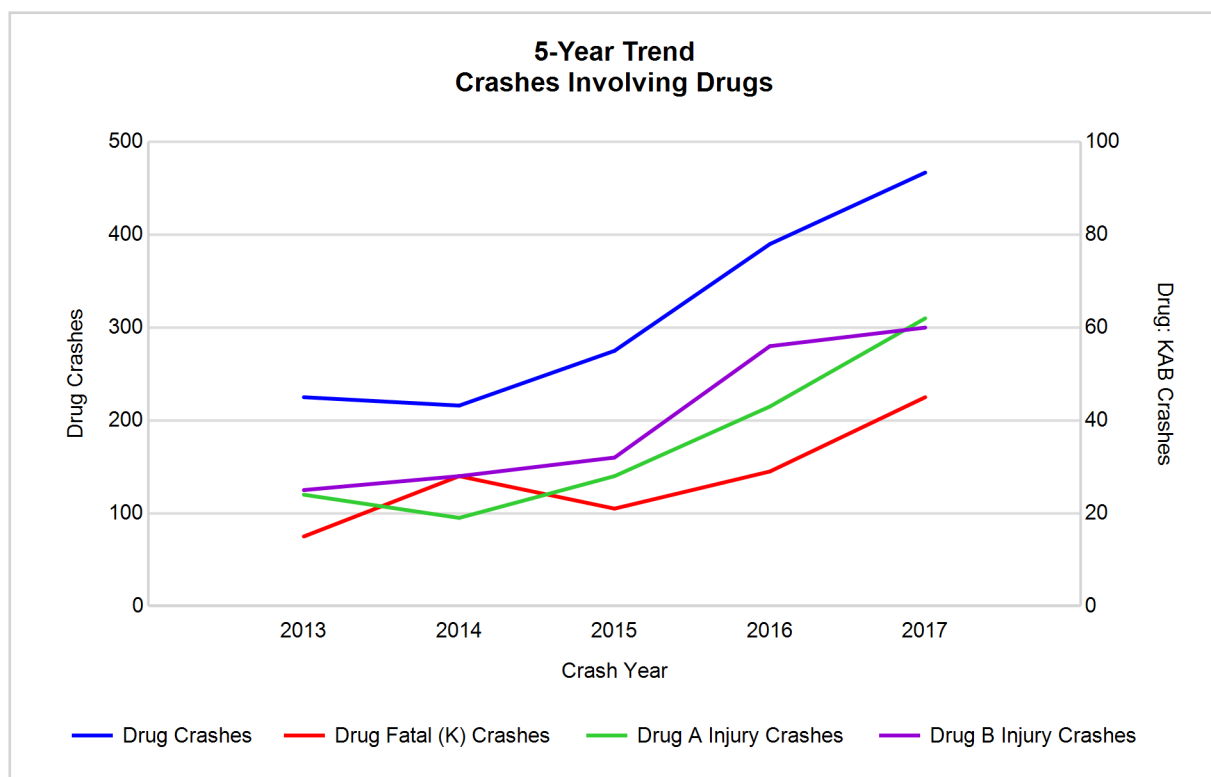
Note: Had-Been-Drinking (HBD)

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	47,545	225	0.5	140	15	10.7	717	24	3.3	2,061	25	1.2
2014	49,033	216	0.4	142	28	19.7	733	19	2.6	2,051	28	1.4
2015	47,319	275	0.6	149	21	14.1	731	28	3.8	2,005	32	1.6
2016	51,923	390	0.8	152	29	19.1	941	43	4.6	2,480	56	2.3
2017	52,478**	467**	0.9**	181**	45**	24.9**	962**	62**	6.4**	2,465	60**	2.4**

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

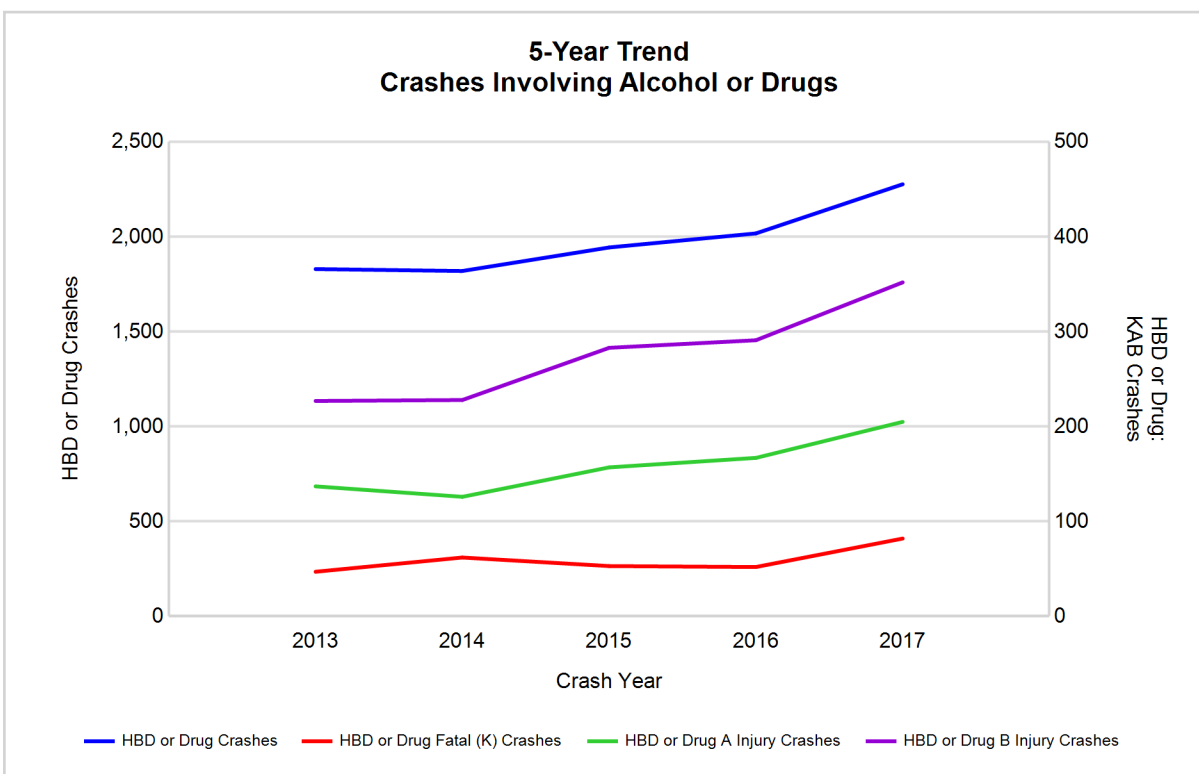


5-Year Trend - Crashes Involving Alcohol or Drugs

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	47,545	1,830	3.8	140	47	33.6	717	137	19.1	2,061	227	11.0
2014	49,033	1,820	3.7	142	62	43.7	733	126	17.2	2,051	228	11.1
2015	47,319	1,944	4.1	149	53	35.6	731	157	21.5	2,005	283	14.1
2016	51,923	2,018	3.9	152	52	34.2	941	167	17.7	2,480	291	11.7
2017	52,478**	2,277**	4.3**	181**	82**	45.3**	962**	205**	21.3	2,465	352**	14.3**

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



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	72,545	65,328	90.1	107	65	60.7	764	636	83.2	2,309	2,115	91.6	6,291	6,030	95.9	58,772	56,459	96.1
Motor home	318	284	89.3	2	0	0.0	3	2	66.7	16	13	81.3	25	22	88.0	263	247	93.9
Pickup truck	10,084	9,193	91.2	15	6	40.0	108	71	65.7	348	311	89.4	614	584	95.1	8,489	8,214	96.8
Small truck under 10,000 lbs. GVWR	620	544	87.7	0	0	0.0	3	3	100.0	31	26	83.9	31	28	90.3	513	487	94.9
Motorcycle	587	372	63.4	30	18	60.0	141	73	51.8	168	116	69.0	97	70	72.2	139	95	68.3
Moped / goped	92	33	35.9	1	0	0.0	16	2	12.5	37	13	35.1	28	12	42.9	9	6	66.7
Go-cart / golf cart	3	2	66.7	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	2	2	100.0
Snowmobile	12	9	75.0	0	0	0.0	3	3	100.0	0	0	0.0	1	1	100.0	8	5	62.5
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	51	21	41.2	2	0	0.0	13	4	30.8	8	2	25.0	8	5	62.5	20	10	50.0
Other	364	222	61.0	0	0	0.0	3	2	66.7	3	0	0.0	16	6	37.5	285	214	75.1
Truck/bus over 10,000 lbs.	2,153	1,946	90.4	4	2	50.0	15	6	40.0	26	18	69.2	115	57	49.6	1,931	1,863	96.5
Unknown	1,897	64	3.4	0	0	0.0	1	1	100.0	2	2	100.0	7	6	85.7	77	54	70.1
Total	88,726	78,018	87.9	161	91	56.5	1,070	803	75.0	2,948	2,616	88.7	7,233	6,821	94.3	70,508	67,656	96.0

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	905	810	89.5	2	0	0.0	41	37	90.2	205	182	88.8	533	485	91.0	123	106	86.2
16 - 20	10,830	10,388	95.9	14	9	64.3	126	88	69.8	487	436	89.5	998	939	94.1	9,189	8,912	97.0
21 - 24	9,110	8,602	94.4	17	7	41.2	99	70	70.7	323	279	86.4	708	645	91.1	7,936	7,597	95.7
25 - 64	52,994	50,368	95.0	93	46	49.5	665	487	73.2	1,597	1,400	87.7	4,243	4,027	94.9	46,214	44,387	96.0
65 +	8,088	7,844	97.0	35	29	82.9	138	121	87.7	336	319	94.9	746	725	97.2	6,813	6,648	97.6
Unknown	6,799	6	0.1	0	0	0.0	1	0	0.0	0	0	0.0	5	0	0.0	233	6	2.6
Total	88,726	78,018	87.9	161	91	56.5	1,070	803	75.0	2,948	2,616	88.7	7,233	6,821	94.3	70,508	67,656	96.0

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	430	0	51	375	3	48	354	1	35	224	4	20	132	0	20
Shoulder belt only used	80	0	10	124	0	13	263	0	25	432	0	36	370	0	54
Lap belt only used	337	0	29	554	0	60	500	3	38	422	0	47	276	0	37
Both lap & shoulder belts used	66,268	45	6,471	69,822	47	6,618	67,462	44	6,454	74,167	46	7,568	74,411	67	7,357
No belts used	524	14	177	611	29	185	620	25	171	600	22	214	503	26	188
Child restraint used	2	0	0	5	0	1	0	0	0	7	0	1	4	0	0
Child restraint not used, unavailable or improper use	1	0	1	7	0	1	2	0	0	1	0	0	0	0	0
Restraint failure	24	0	3	64	0	9	54	1	5	53	1	8	39	0	8
Restraint use unknown	2,410	5	179	2,754	6	184	2,284	5	159	6,386	12	243	9,269	13	254
Helmet worn	500	12	362	490	10	353	461	8	323	447	7	341	395	16	269
Helmet not worn	240	18	167	220	11	168	223	11	160	277	14	209	221	14	167
Helmet use unknown	34	1	14	54	2	25	34	1	20	42	1	23	34	0	17
Uncoded & errors	5,005	0	11	5,601	0	6	5,462	0	10	2,183	0	2	167	0	0
Total	75,855	95	7,475	80,681	108	7,671	77,719	99	7,400	85,241	107	8,712	85,821	136	8,371

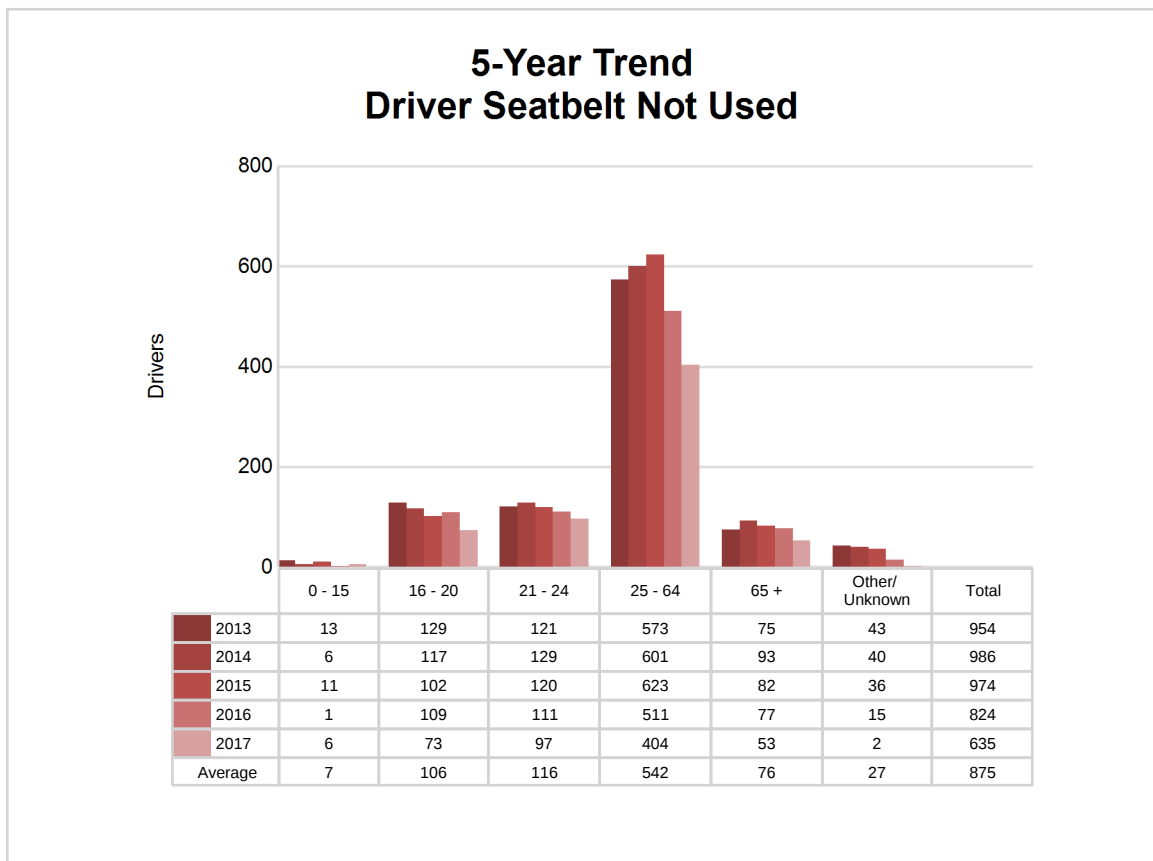
5-Year Trend - Restraint Use Among Drivers Coded Drinking

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	10	0	2	19	0	6	10	1	1	8	1	2	10	0	7
Shoulder belt only used	4	0	3	3	0	0	11	0	1	12	0	0	9	0	7
Lap belt only used	6	0	1	11	0	3	14	2	1	9	0	3	5	0	0
Both lap & shoulder belts used	1,274	11	316	1,216	6	276	1,322	4	346	1,267	2	315	1,447	12	385
No belts used	84	4	52	93	9	55	105	9	56	104	8	64	104	16	62
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	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0
Restraint failure	4	0	1	7	0	1	8	0	0	5	1	2	1	0	0
Restraint use unknown	272	2	65	253	2	58	242	2	61	290	3	78	359	4	77
Helmet worn	19	1	16	17	2	13	18	2	14	22	0	19	19	3	13
Helmet not worn	40	9	27	39	4	31	34	5	26	53	8	42	45	5	37
Helmet use unknown	1	0	1	10	2	6	5	1	3	2	0	2	2	0	2
Uncoded & errors	5	0	0	8	0	1	11	0	0	0	0	0	0	0	0
Total	1,720	27	485	1,678	25	450	1,780	26	509	1,772	23	527	2,001	40	590

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	13	0	3	6	0	0	11	0	4	1	0	0	6	0	2
16 - 20	129	2	35	117	4	36	102	1	24	109	5	33	73	3	31
21 - 24	121	0	37	129	3	34	120	2	28	111	3	31	97	5	37
25 - 64	573	8	135	601	19	138	623	19	132	511	10	144	404	16	123
65 +	75	4	17	93	6	25	82	4	17	77	8	26	53	2	15
Unknown	43	0	1	40	0	0	36	0	1	15	0	0	2	0	0
Total	954	14	228	986	32	233	974	26	206	824	26	234	635	26	208

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

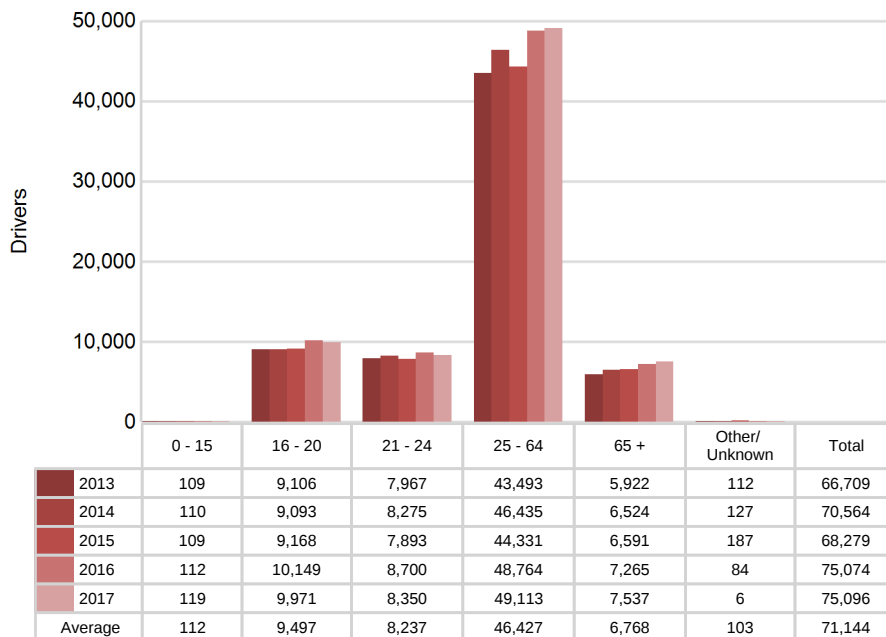


5-Year Trend - Seatbelt Used Among Drivers by Age

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	109	0	16	110	0	6	109	0	13	112	0	13	119	0	15
16 - 20	9,106	6	940	9,093	4	875	9,168	8	941	10,149	4	1,080	9,971	9	1,054
21 - 24	7,967	5	775	8,275	6	769	7,893	7	711	8,700	6	934	8,350	4	761
25 - 64	43,493	17	4,125	46,435	17	4,283	44,331	22	4,173	48,764	27	4,814	49,113	32	4,754
65 +	5,922	17	657	6,524	20	765	6,591	11	684	7,265	10	817	7,537	22	872
Unknown	112	0	0	127	0	2	187	0	0	84	0	1	6	0	0
Total	66,709	45	6,513	70,564	47	6,700	68,279	48	6,522	75,074	47	7,659	75,096	67	7,456

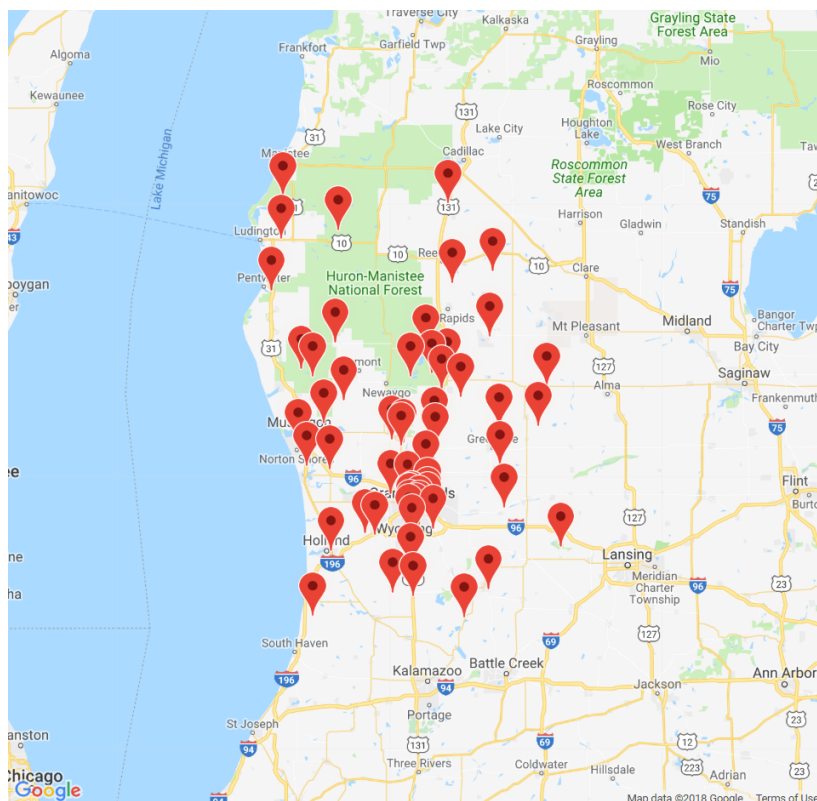
Note: Seatbelt Used includes shoulder belt only used, lap belt only used, both lap and shoulder belts used, and restraint failure.

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	39,593	120	42,382	113	41,671	103	45,095	120	45,184	138
Speed too fast	8,159	23	7,927	20	5,771	26	6,943	24	6,711	30
Speed too slow	87	0	114	0	110	1	95	0	55	2
Failed to yield	6,164	20	7,175	20	6,869	17	7,526	22	7,360	24
Disregard traffic control	1,518	17	1,593	10	1,691	11	1,746	26	1,643	18
Drove wrong way	55	1	65	6	69	0	62	0	54	3
Drove left of center	391	8	412	18	372	12	391	5	392	12
Improper passing	338	2	454	0	388	5	454	2	477	1
Improper lane use	1,207	0	1,320	3	1,527	1	1,756	5	1,823	3
Improper turn	620	0	737	1	706	0	745	1	758	1
Improper/no signal	174	0	183	1	177	1	109	0	86	0
Improper backing	1,228	0	1,312	0	1,270	0	1,348	0	1,238	0
Unable to stop in assured clear distance	9,260	7	9,733	3	9,807	5	10,971	4	11,080	15
Other	2,858	12	2,952	16	2,677	9	2,791	12	2,844	8
Unknown	1,980	17	2,031	16	2,152	23	2,729	16	3,363	16
Reckless driving	307	4	362	5	403	2	403	11	420	12
Careless/negligent driving	1,690	14	1,770	7	2,006	13	1,990	4	2,048	12
Uncoded & errors	226	1	159	0	53	0	87	0	285	1
Total	75,855	246	80,681	239	77,719	229	85,241	252	85,821	296



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

In 2017, there were 2,040 alcohol-involved crashes in MDOT Region - Grand:

59	K - Fatal Crashes
173	A - Suspected Serious Injury Crashes
323	B - Suspected Minor Injury Crashes
271	C - Possible Injury Crashes
1,214	O - Property Damage Only/No Injury Crashes

Office of Highway Safety Planning

Physical Address:
7150 Harris Drive
Dimondale, Michigan 48821

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

Phone: (517) 284-3112
Fax: (517) 284-3151

Find us on the web:
MichiganTrafficCrashFacts.org

