



Office of Highway Safety Planning

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

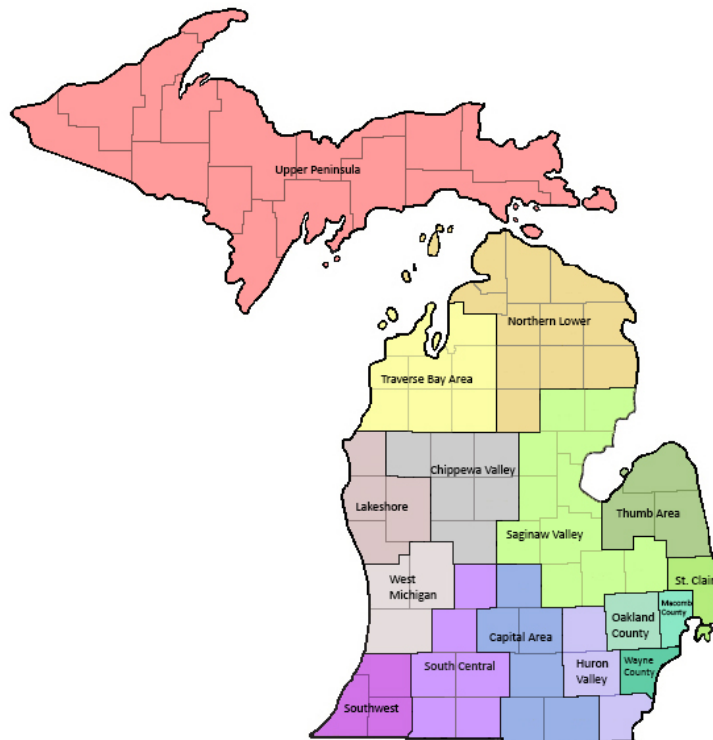
C = Possible Injury

O = No Injury

Property Damage Only (PDO)



Michigan Statewide TSN Summary



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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Statewide Experience

In 2016:

There were 538,412 drivers involved in 312,172 motor vehicle crashes in Michigan. Of those crashes, 980 were classified as fatal, resulting in 1,064 fatalities. An additional 79,724 persons were injured.

Michigan experienced the highest number of motor vehicle crashes (33,563) in December, the highest number of fatal crashes (111) and the highest number of persons killed (115) in September.

Michigan driver statistics indicate 6.6 percent of licensed drivers were age 16-20, and 11.1 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	28,178	58	4,340	23,780	65	5,815
February	25,927	65	4,319	21,543	74	5,760
March	23,484	41	4,145	19,298	46	5,756
April	22,049	85	4,216	17,748	91	5,863
May	23,807	69	4,982	18,756	73	6,897
June	24,408	96	5,129	19,183	111	7,150
July	23,168	88	5,266	17,814	93	7,362
August	23,561	97	5,301	18,163	106	7,344
September	25,148	111	5,353	19,684	115	7,447
October	28,449	99	5,163	23,187	107	7,133
November	30,430	93	4,732	25,605	99	6,451
December	33,563	78	5,018	28,467	84	6,746
Total	312,172	980	57,964	253,228	1,064	79,724

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	837	4.4	168.5
16 - 20	672,666	471,135	59,865	890.0	1,270.7
21 - 24	570,792	470,489	53,159	931.3	1,129.9
25 - 64	5,149,843	4,748,323	324,048	629.2	682.4
65 +	1,611,755	1,437,067	52,362	324.9	364.4
Unknown	0	0	48,141	- -	- -
Total	9,928,300	7,176,692	538,412	542.3	750.2

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	435,105	80.8	1,022	65.1	87,503	346,580
Motor home	9,030	1.7	18	1.1	1,835	7,177
Pickup truck	59,527	11.1	199	12.7	10,736	48,592
Small truck under 10,000 lbs. GVWR	4,821	0.9	10	0.6	833	3,978
Motorcycle	3,384	0.6	146	9.3	2,460	778
Moped / goped	406	0.1	11	0.7	329	66
Go-cart / golf cart	47	0.0	0	0.0	23	24
Snowmobile	106	0.0	9	0.6	61	36
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	304	0.1	14	0.9	245	45
Other	2,522	0.5	13	0.8	430	2,079
Truck/bus over 10,000 lbs.	12,479	2.3	116	7.4	2,194	10,169
Unknown	10,681	2.0	12	0.8	1,011	9,658
Total	538,412	100.0	1,570	100.0	107,660	429,182

Michigan Statewide (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	27,951	52	27,420	66	38,199	39	31,396	61	28,178	58
February	22,753	63	25,779	50	27,420	59	27,083	37	25,927	65
March	19,212	77	20,714	53	24,216	45	21,063	47	23,484	41
April	17,856	57	19,245	47	17,894	67	18,930	55	22,049	85
May	21,691	71	22,206	73	21,278	71	22,747	73	23,807	69
June	21,847	92	21,745	72	22,054	88	23,533	94	24,408	96
July	20,335	92	20,875	99	19,891	90	22,461	111	23,168	88
August	19,869	83	20,353	94	20,424	78	21,271	107	23,561	97
September	20,724	78	21,850	98	22,016	81	23,227	77	25,148	111
October	27,207	79	27,165	85	27,821	67	28,193	79	28,449	99
November	26,571	63	30,460	88	34,134	59	31,088	81	30,430	93
December	27,875	63	31,249	56	23,352	62	26,031	71	33,563	78
Total	273,891	870	289,061	881	298,699	806	297,023	893	312,172	980

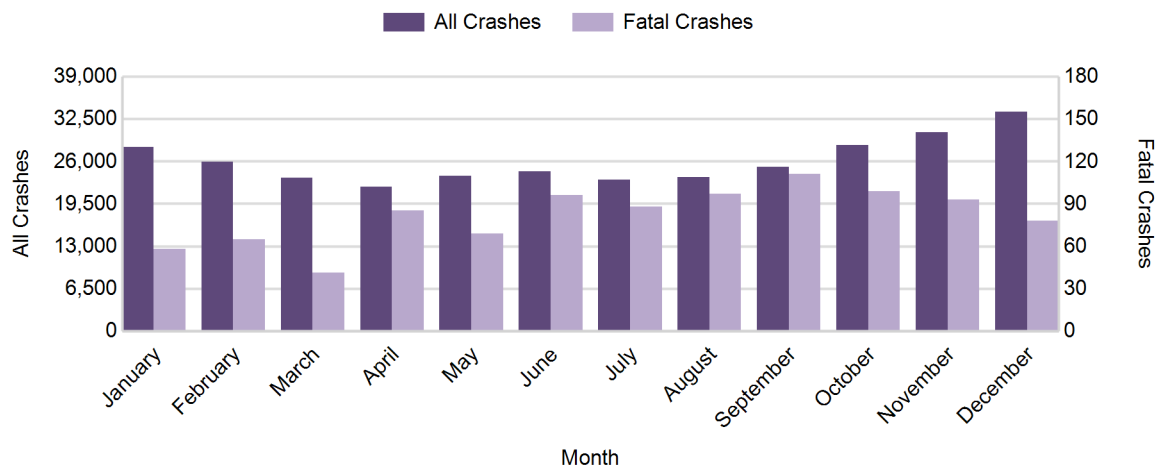
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

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	39,104	111	42,567	111	41,813	101	43,061	104	44,099	125
Tuesday	38,886	113	43,699	102	45,135	101	44,588	104	46,988	122
Wednesday	39,616	90	43,870	113	48,131	96	46,205	129	49,018	123
Thursday	40,914	96	44,778	115	48,198	105	44,601	113	49,116	135
Friday	49,394 †	154	46,473 †	147	49,347 †	111	48,160 †	149	51,930 †	155
Saturday	36,414	152	38,234	166	36,385	162	39,739	159	38,945	174
Sunday	29,563	154	29,440	127	29,690	130	30,669	135	32,076	146
Total	273,891	870	289,061	881	298,699	806	297,023	893	312,172	980

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

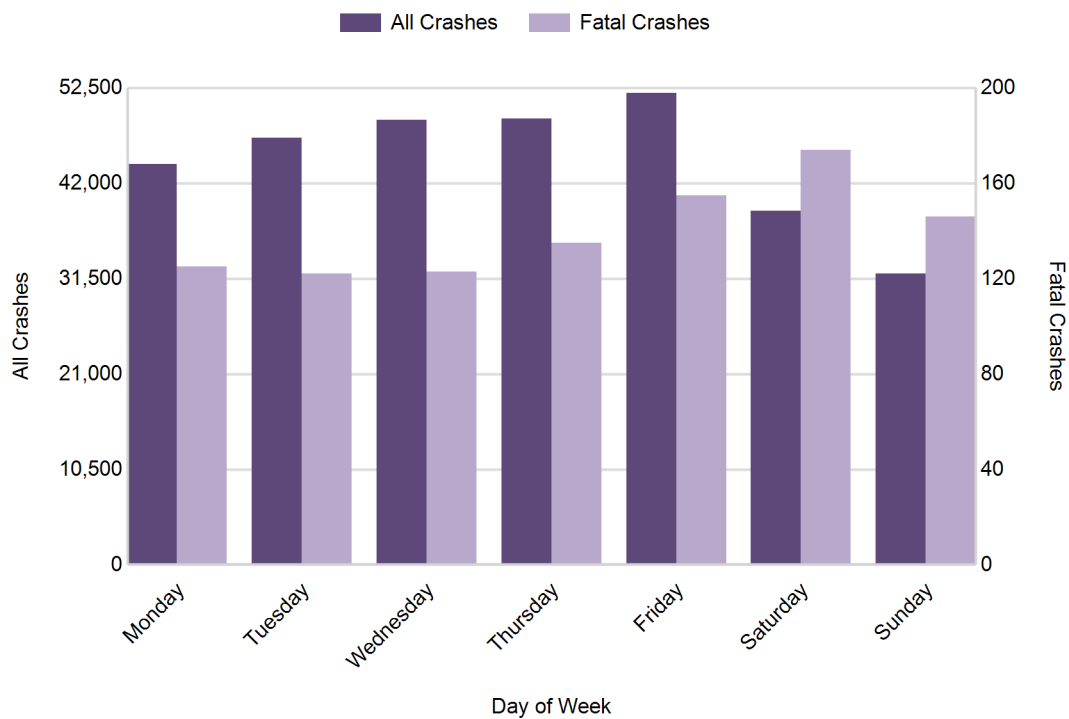
2016 Crashes by Month



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	44,099	14.1	125	12.8	608	2,109	5,374	35,883
Tuesday	46,988	15.1	122	12.4	635	2,190	5,571	38,470
Wednesday	49,018	15.7	123	12.6	592	2,237	6,112	39,954
Thursday	49,116	15.7	135	13.8	590	2,268	6,012	40,111
Friday	51,930	16.6	155	15.8	719	2,576	6,264	42,216
Saturday	38,945	12.5	174	17.8	769	2,249	4,790	30,963
Sunday	32,076	10.3	146	14.9	652	1,932	3,715	25,631
Total	312,172	100.0	980	100.0	4,565	15,561	37,838	253,228

2016 Day of Week and Severity

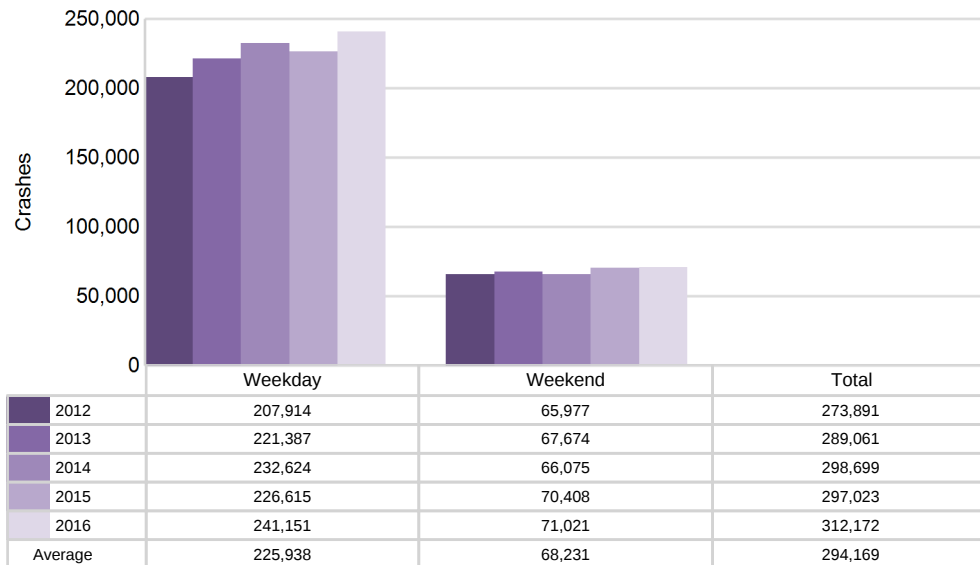


Michigan Statewide (continued)

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	207,914	564	221,387	588	232,624	514	226,615	599	241,151	660
Weekend	65,977	306	67,674	293	66,075	292	70,408	294	71,021	320
Total	273,891	870	289,061	881	298,699	806	297,023	893	312,172	980

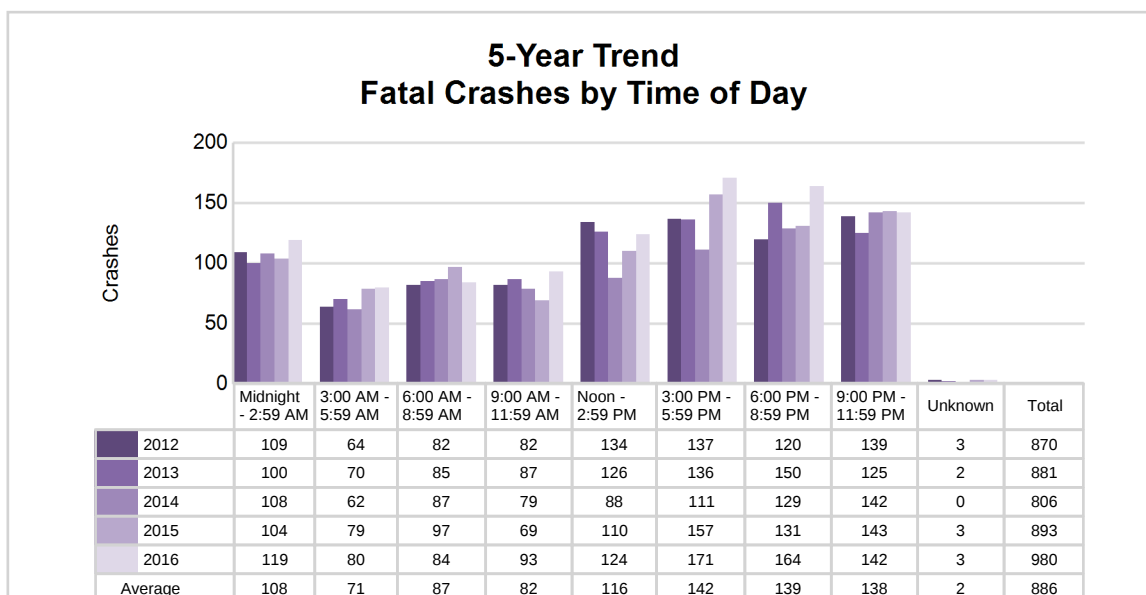
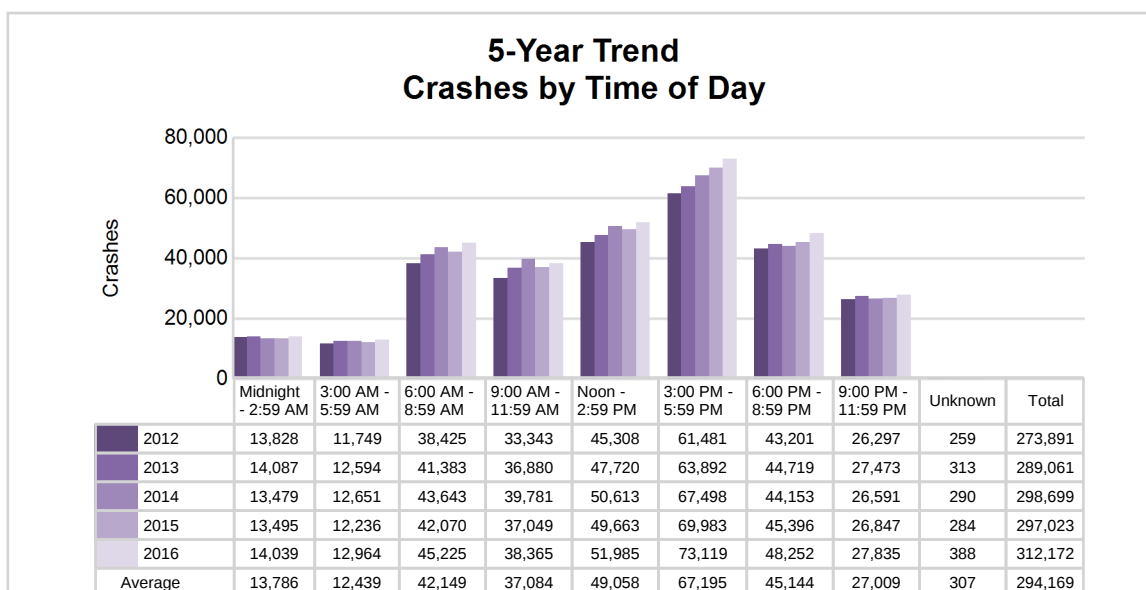
5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



5-Year Trend - Crashes by Time of Day

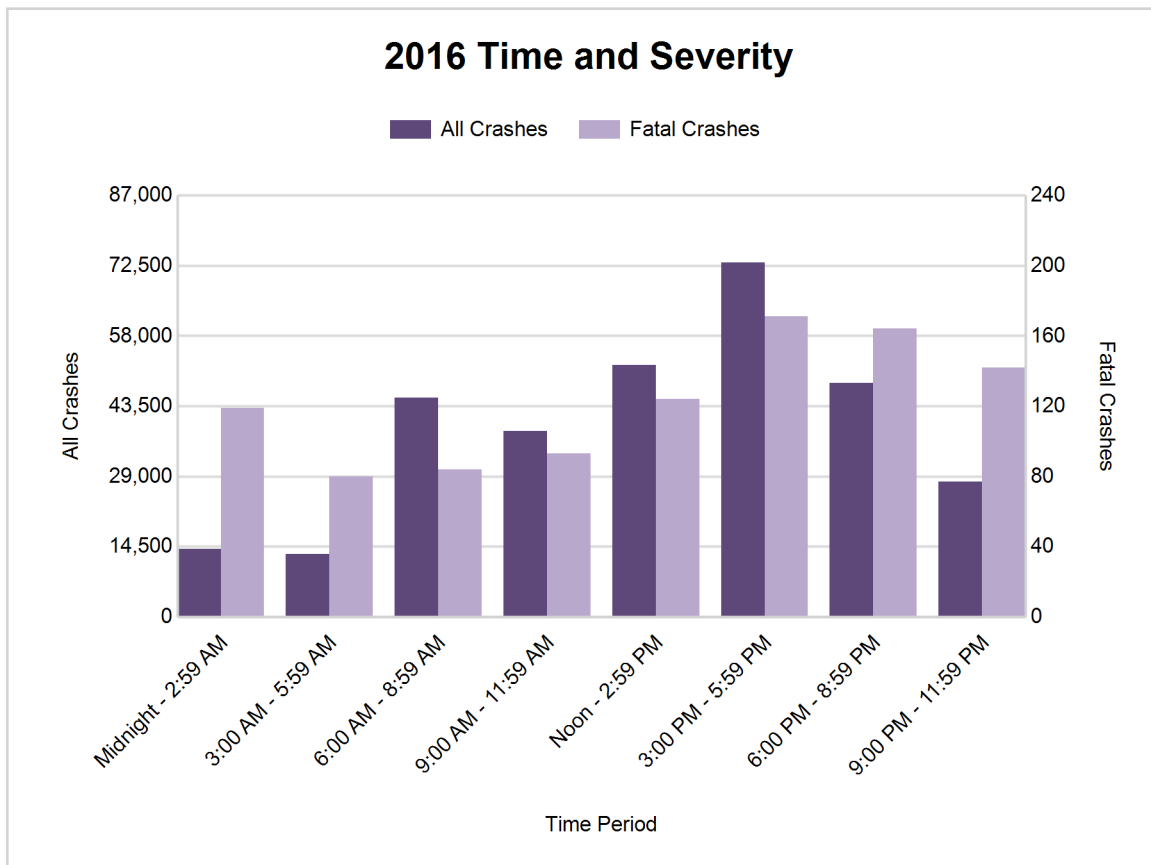
Time of Day	2012		2013		2014		2015		2016	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	13,828	109	14,087	100	13,479	108	13,495	104	14,039	119
3:00 AM - 5:59 AM	11,749	64	12,594	70	12,651	62	12,236	79	12,964	80
6:00 AM - 8:59 AM	38,425	82	41,383	85	43,643	87	42,070	97	45,225	84
9:00 AM - 11:59 AM	33,343	82	36,880	87	39,781	79	37,049	69	38,365	93
Noon - 2:59 PM	45,308	134	47,720	126	50,613	88	49,663	110	51,985	124
3:00 PM - 5:59 PM	61,481 †	137	63,892 †	136	67,498 †	111	69,983 †	157	73,119 †	171
6:00 PM - 8:59 PM	43,201	120	44,719	150	44,153	129	45,396	131	48,252	164
9:00 PM - 11:59 PM	26,297	139	27,473	125	26,591	142	26,847	143	27,835	142
Unknown	259	3	313	2	290	0	284	3	388	3
Total	273,891	870	289,061	881	298,699	806	297,023	893	312,172	980

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



2016 - Time and Severity

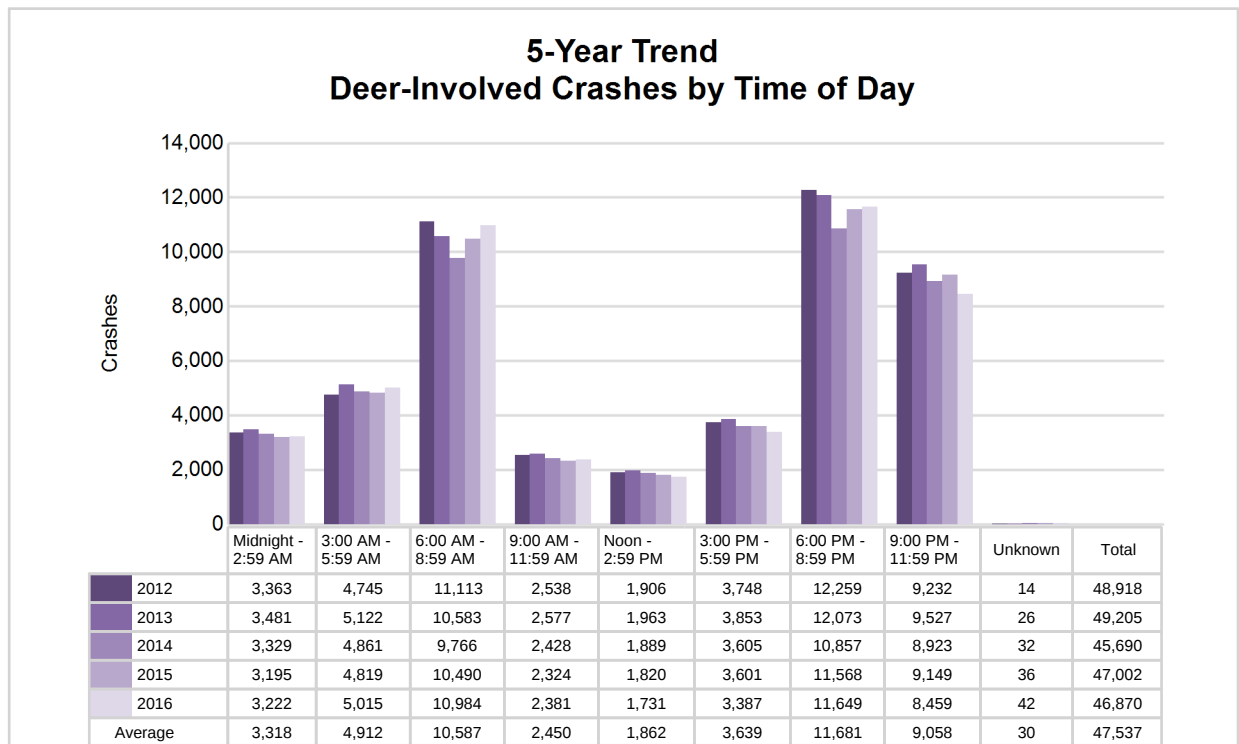
Time of Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Midnight - 2:59 AM	14,039	4.5	119	12.1	362	972	1,514	11,072
3:00 AM - 5:59 AM	12,964	4.2	80	8.2	209	658	1,123	10,894
6:00 AM - 8:59 AM	45,225	14.5	84	8.6	451	1,780	4,779	38,131
9:00 AM - 11:59 AM	38,365	12.3	93	9.5	496	1,907	4,921	30,948
Noon - 2:59 PM	51,985	16.7	124	12.7	794	2,699	7,311	41,057
3:00 PM - 5:59 PM	73,119	23.4	171	17.4	982	3,724	9,933	58,309
6:00 PM - 8:59 PM	48,252	15.5	164	16.7	725	2,327	5,322	39,714
9:00 PM - 11:59 PM	27,835	8.9	142	14.5	542	1,479	2,906	22,766
Unknown	388	0.1	3	0.3	4	15	29	337
Total	312,172	100.0	980	100.0	4,565	15,561	37,838	253,228

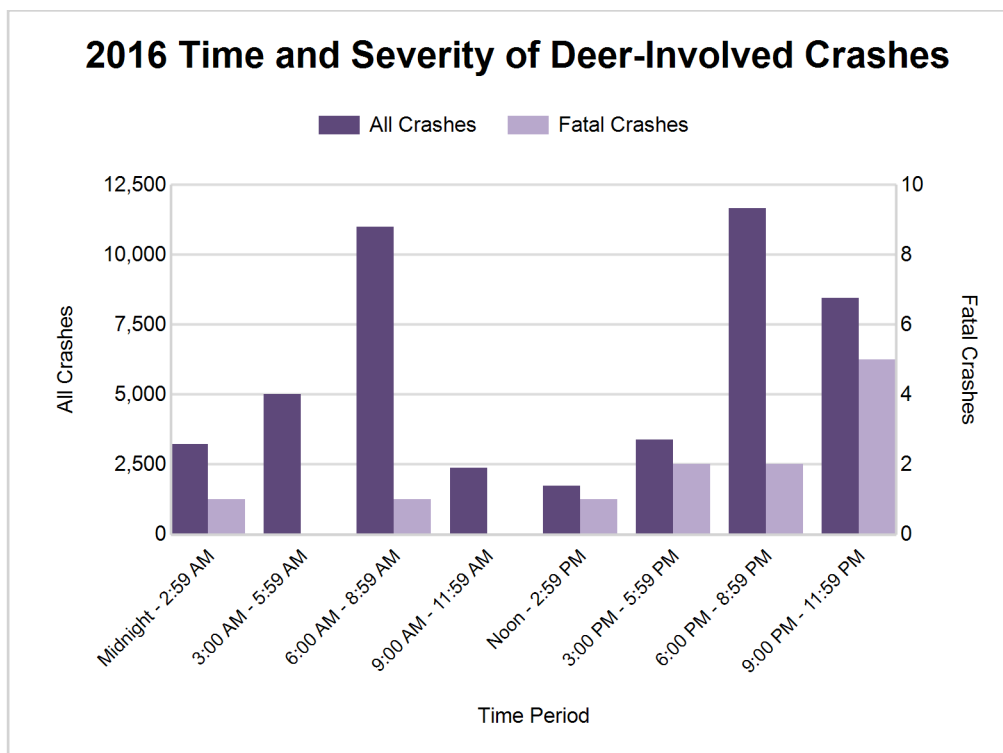


5-Year Trend - Deer-Involved Crashes by Time of Day

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	3,363	1	3,481	1	3,329	1	3,195	3	3,222	1
3:00 AM - 5:59 AM	4,745	0	5,122	1	4,861	0	4,819	1	5,015	0
6:00 AM - 8:59 AM	11,113	0	10,583	1	9,766	0	10,490	2	10,984	1
9:00 AM - 11:59 AM	2,538	1	2,577	0	2,428	0	2,324	0	2,381	0
Noon - 2:59 PM	1,906	1	1,963	0	1,889	1	1,820	0	1,731	1
3:00 PM - 5:59 PM	3,748	2	3,853	1	3,605	1	3,601	1	3,387	2
6:00 PM - 8:59 PM	12,259 †	1	12,073 †	5	10,857 †	1	11,568 †	2	11,649 †	2
9:00 PM - 11:59 PM	9,232	2	9,527	3	8,923	2	9,149	1	8,459	5
Unknown	14	0	26	0	32	0	36	0	42	0
Total	48,918	8	49,205	12	45,690	6	47,002	10	46,870	12

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



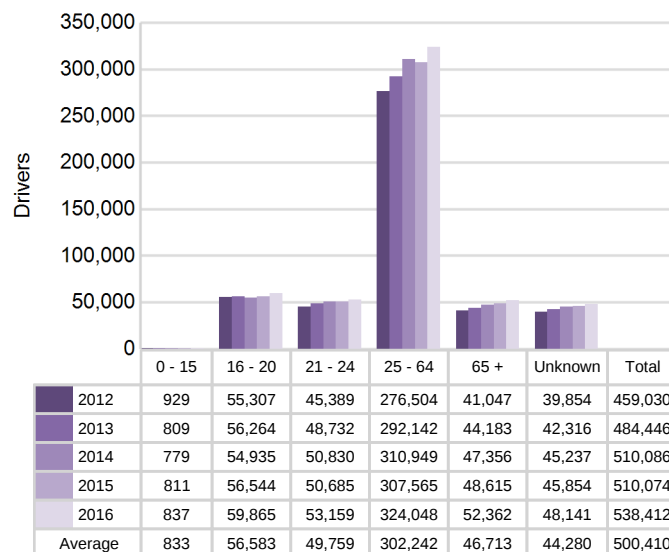

2016 - Reported Motor Vehicle Crashes by TSN

TSN	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
TSN 1 - Capital Area	24,783	82	4,197	20,504	3,888	1,870	5,333	13,666	756	212	5,646	88	5,730
TSN 2 - Chippewa Valley	9,654	22	1,279	8,353	0	1,954	2,252	5,429	271	66	4,326	27	1,736
TSN 3 - Huron Valley	20,389	59	3,562	16,768	3,363	3,358	2,059	11,574	714	203	1,934	65	4,767
TSN 4 - Lakeshore	8,758	34	1,408	7,316	70	1,888	1,236	5,543	269	65	2,474	37	1,957
TSN 5 - Macomb County	25,411	60	5,409	19,942	2,668	0	6,858	15,870	733	272	585	63	7,404
TSN 6 - Northern Lower	8,252	29	1,132	7,091	700	1,317	1,961	4,245	252	49	3,609	31	1,499
TSN 7 - Oakland County	42,660	78	8,218	34,364	7,276	2,370	7,254	25,699	1,088	292	1,847	80	11,170
TSN 8 - Saginaw Valley	30,965	105	5,924	24,936	3,442	1,592	7,206	18,645	1,056	289	7,264	113	8,271
TSN 9 - South Central	19,832	86	3,243	16,503	3,002	1,309	4,380	11,114	683	180	4,160	92	4,433
TSN 10 - Southwest	8,404	37	1,539	6,828	1,629	570	1,810	4,379	350	88	1,825	44	2,205
TSN 11 - St. Clair	3,886	20	811	3,055	811	0	700	2,369	166	53	749	22	1,137
TSN 12 - Thumb Area	4,806	16	571	4,219	0	0	1,991	2,796	126	35	2,860	19	790
TSN 13 - Traverse Bay Area	8,660	45	1,253	7,362	0	2,067	1,800	4,766	356	86	2,767	51	1,736
TSN 14 - Upper Peninsula	8,264	29	1,163	7,072	297	2,393	1,911	3,589	319	96	2,969	32	1,541
TSN 15 - Wayne County	53,164	183	11,903	41,078	8,794	3,426	9,522	31,418	1,388	425	372	200	16,692
TSN 16 - West Michigan	34,284	95	6,352	27,837	3,722	3,761	6,046	20,725	1,242	256	3,483	100	8,656
Total	312,172	980	57,964	253,228	39,662	27,875	62,319	181,827	9,769	2,667	46,870	1,064	79,724

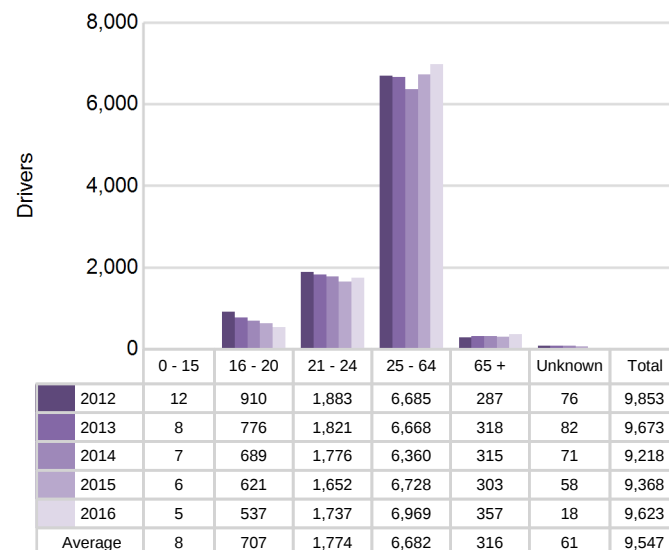
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

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	929	12	809	8	779	7	811	6	837	5
16 - 20	55,307	910	56,264	776	54,935	689	56,544	621	59,865	537
21 - 24	45,389	1,883	48,732	1,821	50,830	1,776	50,685	1,652	53,159	1,737
25 - 64	276,504	6,685	292,142	6,668	310,949	6,360	307,565	6,728	324,048	6,969
65 +	41,047	287	44,183	318	47,356	315	48,615	303	52,362	357
Unknown	39,854	76	42,316	82	45,237	71	45,854	58	48,141	18
Total	459,030	9,853	484,446	9,673	510,086	9,218	510,074	9,368	538,412	9,623

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



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



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	13	10	5	5	0	1	1	2	1
16 - 20	886	810	451	537	16	80	160	92	189
21 - 24	2,149	1,782	1,463	1,737	34	172	520	430	581
25 - 64	9,657	7,433	5,741	6,969	121	512	1,644	2,002	2,690
65 +	704	527	311	357	6	55	117	70	109
Unknown	1,199	33	2	18	0	0	1	1	16
Total	14,608	10,595	7,973	9,623	177	820	2,443	2,597	3,586

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 14,608 drivers in alcohol-involved crashes; 9,623 (65.9%) of those drivers were coded as had-been-drinking by the officer on the crash form.

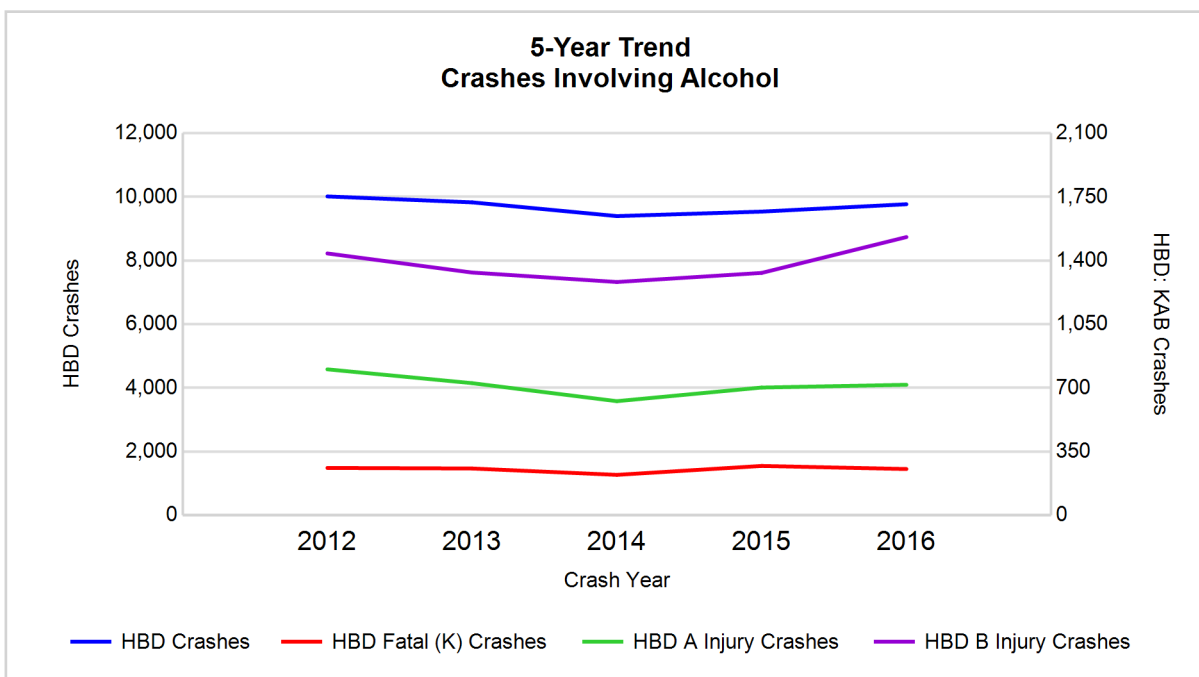
- 5,040 (52.4%) of the 9,623 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 2,597 (51.5%) of the 5,040 drivers had a BAC at or above 0.17 g/dL.
- 7,973 (82.9%) of the 9,623 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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	273,891	10,014	3.7	870	260	29.9	4,540	802	17.7	13,199	1,439	10.9
2013	289,061	9,828	3.4	881	257	29.2	4,311	726	16.8	13,163	1,334	10.1
2014	298,699	9,396	3.1	806	222	27.5	4,045	627	15.5	12,910	1,282	9.9
2015	297,023	9,537	3.2	893	271	30.3	3,939	702	17.8	13,332	1,332	10.0
2016	312,172**	9,769	3.1	980**	254	25.9*	4,565**	717	15.7	15,561**	1,529**	9.8*

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



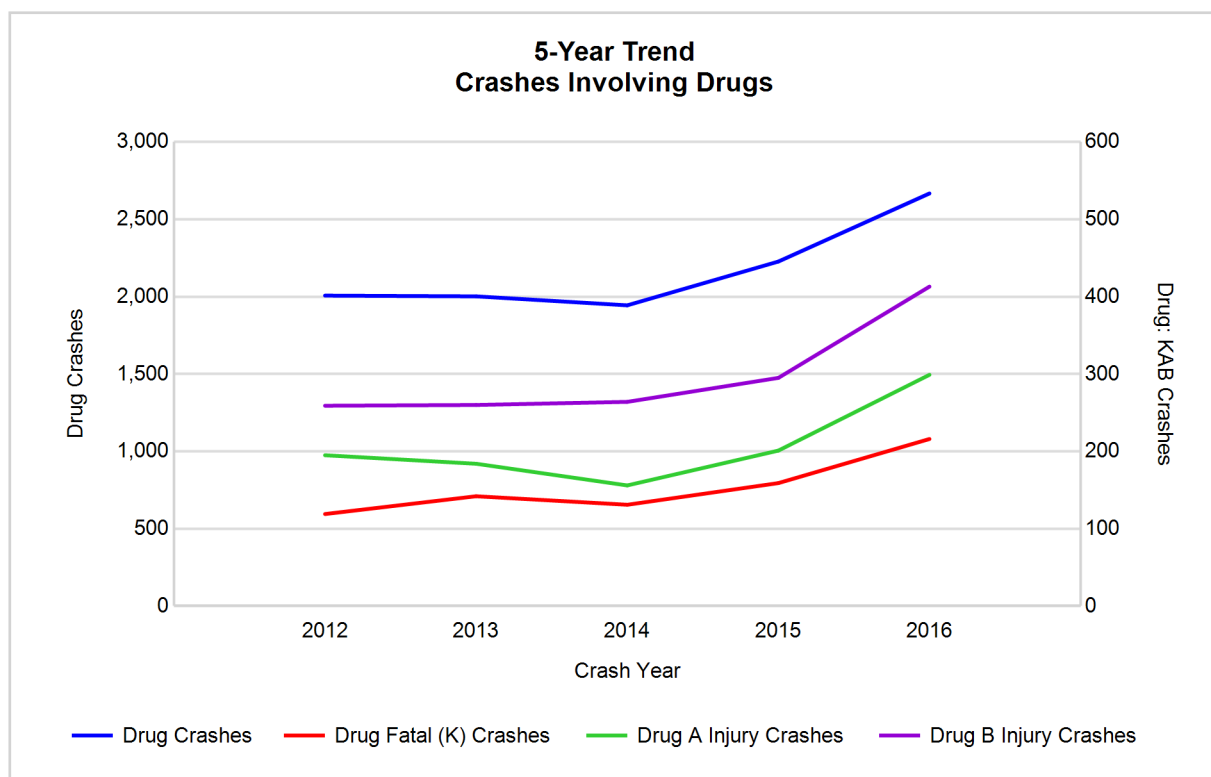
Note: Had-Been-Drinking (HBD)

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	273,891	2,007	0.7	870	119	13.7	4,540	195	4.3	13,199	259	2.0
2013	289,061	2,002	0.7	881	142	16.1	4,311	184	4.3	13,163	260	2.0
2014	298,699	1,944	0.7	806	131	16.3	4,045	156	3.9	12,910	264	2.0
2015	297,023	2,227	0.7	893	159	17.8	3,939	201	5.1	13,332	295	2.2
2016	312,172**	2,667**	0.9**	980**	216**	22.0**	4,565**	299**	6.5**	15,561**	413**	2.7**

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

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

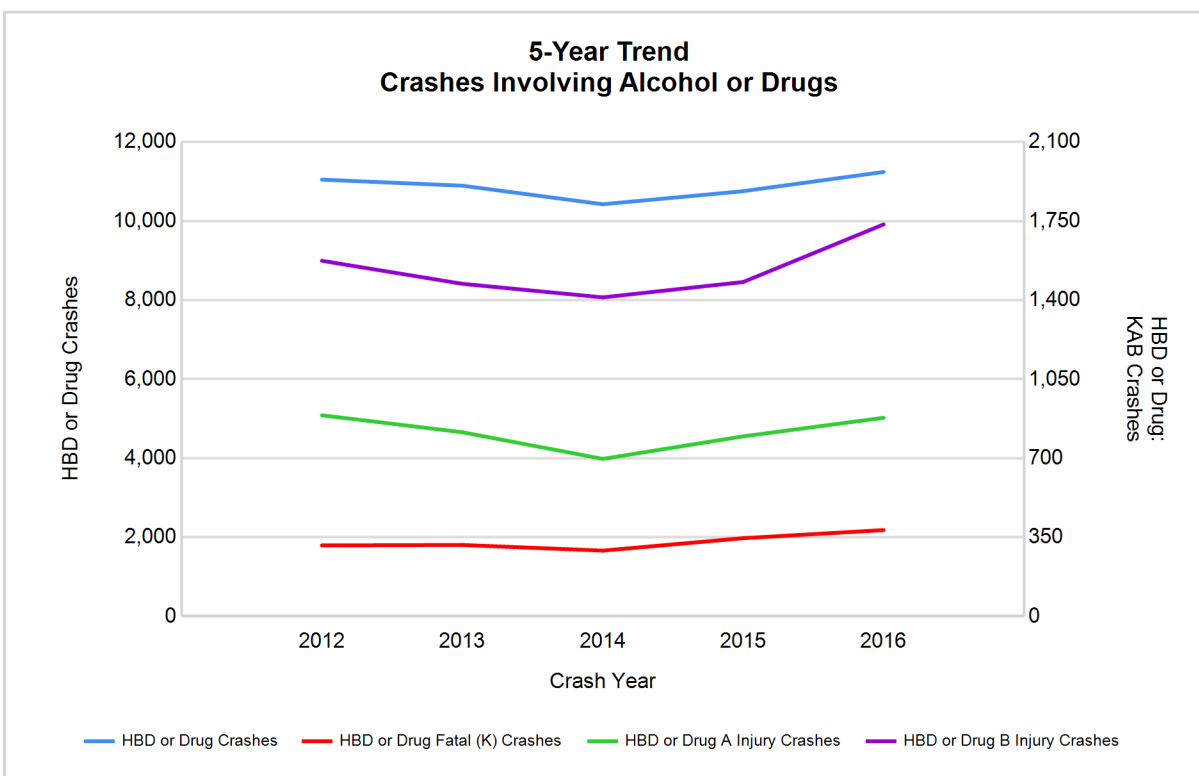


5-Year Trend - Crashes Involving Alcohol or Drugs

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	273,891	11,047	4.0	870	314	36.1	4,540	890	19.6	13,199	1,574	11.9
2013	289,061	10,894	3.8	881	316	35.9	4,311	815	18.9	13,163	1,472	11.2
2014	298,699	10,424	3.5	806	291	36.1	4,045	697	17.2	12,910	1,412	10.9
2015	297,023	10,755	3.6	893	346	38.7	3,939	797	20.2	13,332	1,480	11.1
2016	312,172**	11,241**	3.6	980**	382**	39.0**	4,565**	879	19.3	15,561**	1,735**	11.1

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)

Michigan Statewide (continued)

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	451,751	401,477	88.9	570	319	56.0	3,622	2,836	78.3	14,458	12,950	89.6	45,925	43,174	94.0	356,055	341,785	96.0
Motor home	9,447	8,415	89.1	7	5	71.4	54	36	66.7	291	250	85.9	938	882	94.0	7,533	7,238	96.1
Pickup truck	61,046	54,547	89.4	85	29	34.1	462	317	68.6	1,717	1,470	85.6	4,036	3,784	93.8	50,819	48,906	96.2
Small truck under 10,000 lbs. GVWR	4,933	4,289	86.9	7	4	57.1	27	18	66.7	114	92	80.7	329	290	88.1	4,057	3,879	95.6
Motorcycle	3,663	2,255	61.6	141	63	44.7	659	367	55.7	1,183	779	65.8	780	541	69.4	787	502	63.8
Moped / goped	421	116	27.6	11	0	0.0	65	16	24.6	168	54	32.1	101	33	32.7	59	13	22.0
Go-cart / golf cart	62	17	27.4	0	0	0.0	7	1	14.3	13	2	15.4	7	1	14.3	27	13	48.1
Snowmobile	114	92	80.7	9	8	88.9	27	21	77.8	21	18	85.7	18	16	88.9	35	29	82.9
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	365	144	39.5	13	4	30.8	101	37	36.6	115	55	47.8	63	31	49.2	58	16	27.6
Other	2,579	1,555	60.3	5	0	0.0	28	6	21.4	56	26	46.4	141	78	55.3	1,843	1,428	77.5
Truck/bus over 10,000 lbs.	12,799	11,415	89.2	12	9	75.0	60	34	56.7	147	108	73.5	587	349	59.5	11,432	10,904	95.4
Unknown	10,695	155	1.4	1	0	0.0	1	0	0.0	4	3	75.0	20	13	65.0	317	120	37.9
Total	557,875	484,477	86.8	861	441	51.2	5,113	3,689	72.1	18,287	15,807	86.4	52,945	49,192	92.9	433,022	414,833	95.8

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	5,745	4,958	86.3	26	12	46.2	240	174	72.5	1,035	851	82.2	3,762	3,338	88.7	667	580	87.0
16 - 20	62,873	59,916	95.3	90	41	45.6	619	429	69.3	2,664	2,270	85.2	6,403	5,882	91.9	52,918	51,248	96.8
21 - 24	54,913	51,712	94.2	83	38	45.8	566	399	70.5	2,296	1,931	84.1	5,216	4,752	91.1	46,513	44,545	95.8
25 - 64	331,884	314,982	94.9	479	233	48.6	3,080	2,179	70.7	10,170	8,779	86.3	31,756	29,680	93.5	284,855	273,849	96.1
65 +	54,280	52,305	96.4	183	117	63.9	603	508	84.2	2,109	1,971	93.5	5,744	5,526	96.2	45,433	44,135	97.1
Unknown	48,180	604	1.3	0	0	0.0	5	0	0.0	13	5	38.5	64	14	21.9	2,636	476	18.1
Total	557,875	484,477	86.8	861	441	51.2	5,113	3,689	72.1	18,287	15,807	86.4	52,945	49,192	92.9	433,022	414,833	95.8

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	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	2,484	8	404	1,979	8	303	1,974	8	263	1,936	10	275	1,186	5	169
Shoulder belt only used	579	1	92	851	3	91	964	1	101	925	0	100	2,001	2	249
Lap belt only used	1,017	3	137	1,280	2	133	1,657	3	178	1,737	6	173	1,344	1	164
Both lap & shoulder belts used	395,307	250	42,857	418,752	248	43,824	439,913	229	44,467	438,392	234	45,769	462,130	265	50,197
No belts used	3,507	166	1,356	3,277	142	1,225	3,321	133	1,157	3,402	142	1,195	3,289	140	1,276
Child restraint used	27	0	2	18	0	1	10	0	1	16	0	1	49	0	6
Child restraint not used, unavailable or improper use	29	0	2	17	0	1	22	0	1	16	0	3	6	0	0
Restraint failure	135	0	23	116	0	17	152	1	20	153	1	14	147	1	22
Restraint use unknown	28,464	57	1,619	29,298	65	1,631	31,315	52	1,722	31,010	54	2,017	49,590	83	2,077
Helmet worn	2,970	68	2,190	2,637	71	1,861	2,418	56	1,707	2,395	73	1,679	2,413	70	1,777
Helmet not worn	1,126	60	857	1,124	70	829	1,085	47	812	1,249	63	904	1,543	79	1,034
Helmet use unknown	208	7	96	207	8	90	261	10	116	293	10	128	294	12	153
Uncoded & errors	23,177	0	57	24,890	0	44	26,994	0	58	28,550	0	43	14,420	0	26
Total	459,030	620	49,692	484,446	617	50,050	510,086	540	50,603	510,074	593	52,301	538,412	658	57,150

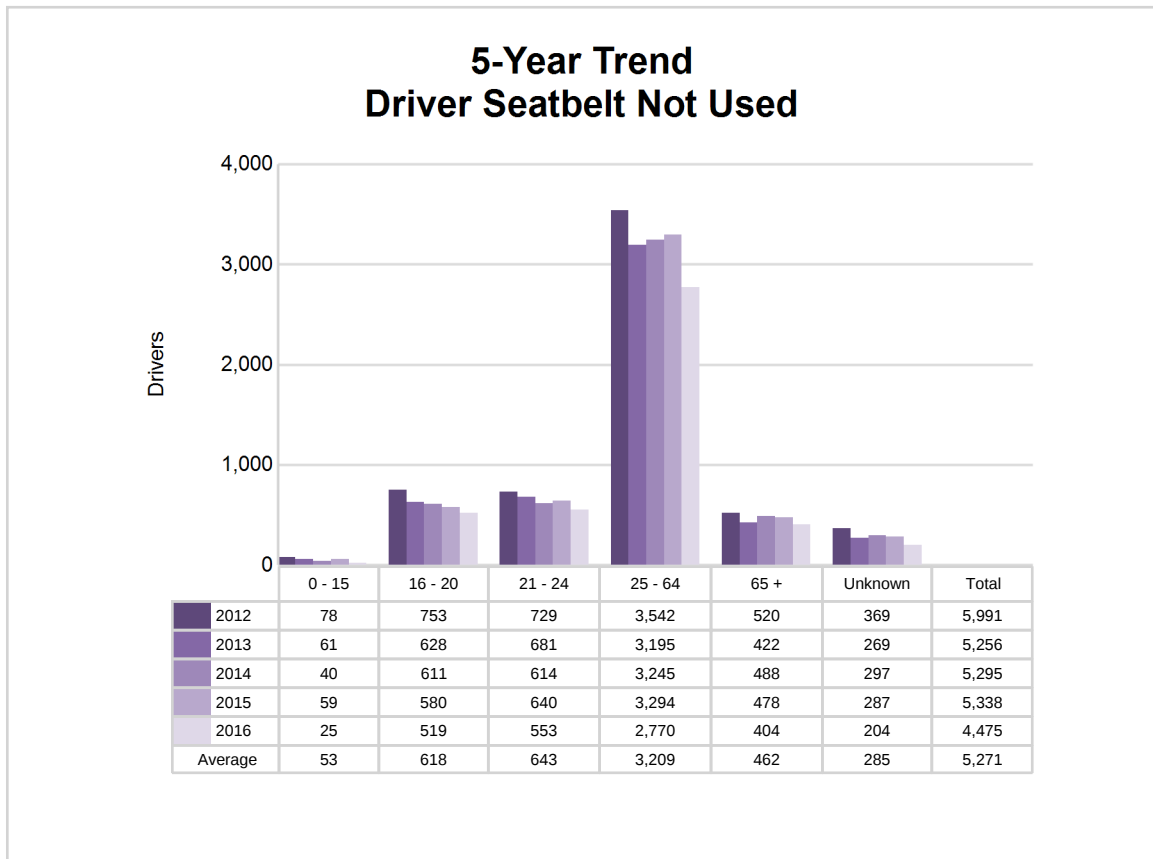
5-Year Trend - Restraint Use Among Drivers Coded Drinking

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	70	2	27	66	1	34	61	1	16	55	3	25	31	1	13
Shoulder belt only used	24	0	10	36	0	11	20	1	7	25	0	6	56	1	8
Lap belt only used	23	1	13	20	0	6	34	0	11	41	4	13	21	0	7
Both lap & shoulder belts used	7,003	43	1,794	7,110	43	1,809	6,795	35	1,632	6,897	37	1,723	7,086	29	1,973
No belts used	748	65	443	592	60	342	563	44	355	580	55	345	568	56	344
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	1	0	1	1	0	1	3	0	0	0	0	0	1	0	0
Restraint failure	8	0	4	7	0	3	13	0	2	11	0	1	8	1	4
Restraint use unknown	1,572	16	444	1,512	14	410	1,418	15	373	1,434	15	412	1,509	21	417
Helmet worn	170	17	133	113	12	80	103	12	73	107	14	81	104	9	86
Helmet not worn	157	19	125	168	29	121	156	14	127	174	30	124	212	25	165
Helmet use unknown	20	2	15	12	0	9	18	2	12	18	2	13	15	3	11
Uncoded & errors	57	0	3	36	0	1	34	0	2	26	0	2	11	0	2
Total	9,853	165	3,012	9,673	159	2,827	9,218	124	2,610	9,368	160	2,745	9,623	146	3,030

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	78	2	17	61	0	14	40	1	8	59	1	20	25	0	9
16 - 20	753	19	272	628	11	228	611	18	198	580	13	194	519	14	208
21 - 24	729	25	299	681	15	252	614	18	203	640	15	214	553	16	217
25 - 64	3,542	95	1,028	3,195	99	917	3,245	80	883	3,294	95	915	2,770	81	883
65 +	520	33	129	422	25	107	488	24	114	478	28	117	404	34	125
Unknown	369	0	15	269	0	10	297	0	14	287	0	10	204	0	3
Total	5,991	174	1,760	5,256	150	1,528	5,295	141	1,420	5,338	152	1,470	4,475	145	1,445

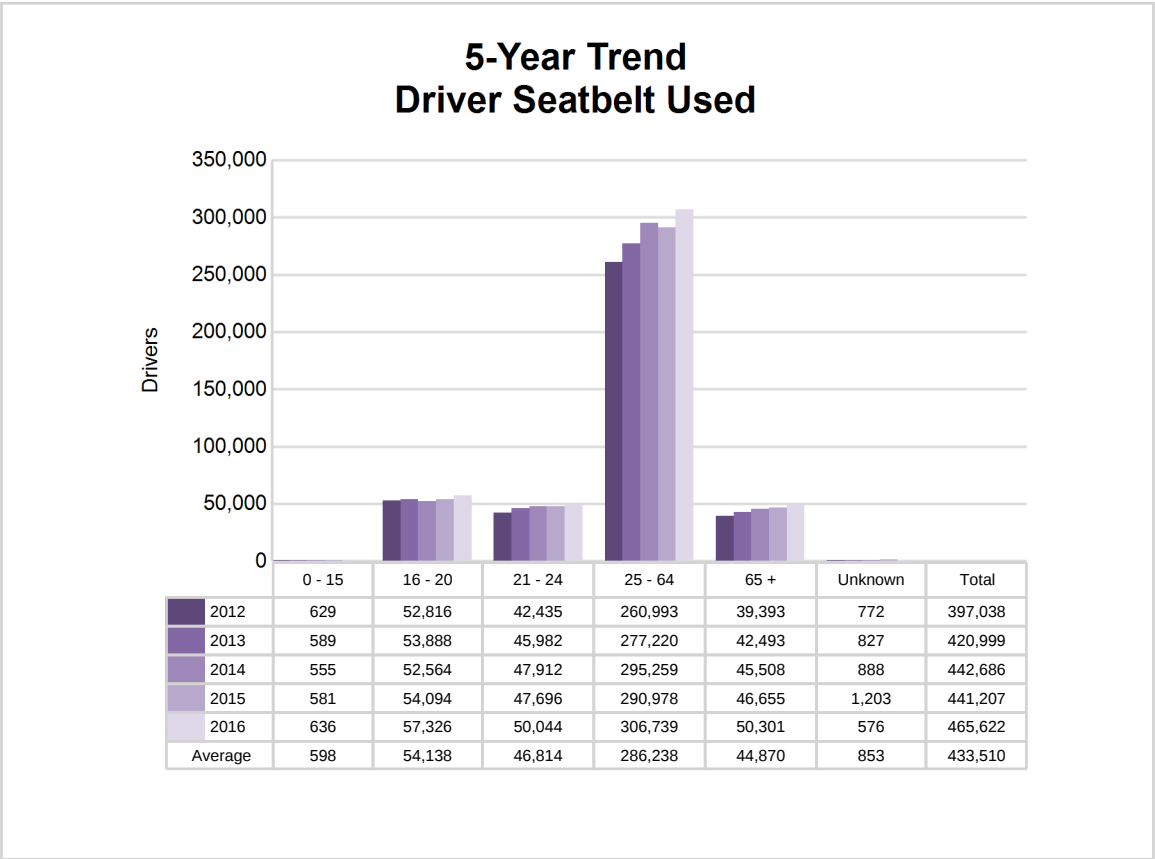
Note: Seatbelt Not Used includes no belts available or no belts used.



5-Year Trend - Seatbelt Used Among Drivers by Age

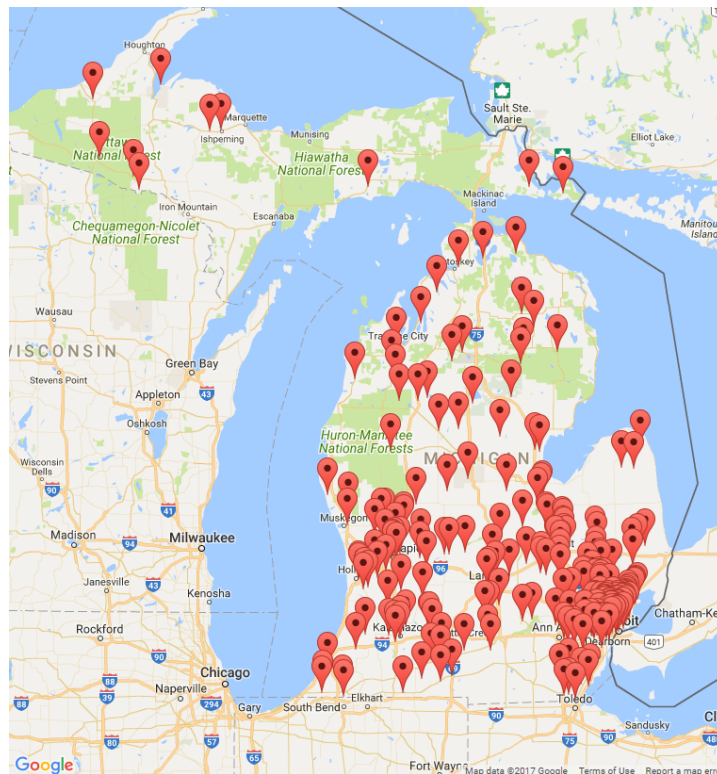
Age Group	2012			2013			2014			2015			2016		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
0 - 15	629	0	62	589	1	56	555	1	55	581	0	69	636	1	65
16 - 20	52,816	25	5,658	53,888	28	5,562	52,564	18	5,166	54,094	32	5,632	57,326	27	6,052
21 - 24	42,435	32	4,741	45,982	17	4,945	47,912	25	4,974	47,696	25	4,843	50,044	20	5,499
25 - 64	260,993	125	27,906	277,220	118	28,444	295,259	120	29,413	290,978	122	30,026	306,739	149	32,911
65 +	39,393	72	4,728	42,493	89	5,036	45,508	70	5,134	46,655	62	5,476	50,301	72	6,098
Unknown	772	0	14	827	0	22	888	0	24	1,203	0	10	576	0	7
Total	397,038	254	43,109	420,999	253	44,065	442,686	234	44,766	441,207	241	46,056	465,622	269	50,632

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



5-Year Trend - Drivers in Crashes by Hazardous Action

Hazardous Action	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	237,114	547	249,143	591	260,864	512	265,050	625	273,444	678
Speed too fast	28,804	178	35,455	173	37,714	160	29,896	195	32,052	194
Speed too slow	335	1	381	1	379	1	390	5	331	1
Failed to yield	39,258	86	40,868	101	43,800	87	44,058	93	46,694	108
Disregard traffic control	9,327	69	9,518	59	9,591	52	10,360	57	10,743	84
Drove wrong way	373	1	381	3	454	16	478	2	427	9
Drove left of center	2,316	52	2,378	59	2,532	62	2,431	56	2,561	55
Improper passing	2,094	10	2,179	5	2,560	6	2,515	8	2,676	11
Improper lane use	9,460	6	9,786	6	10,588	11	11,637	13	12,882	14
Improper turn	4,217	5	4,324	2	4,706	6	5,132	6	5,222	6
Improper/no signal	697	2	757	2	777	2	754	1	541	0
Improper backing	7,298	1	7,653	0	8,169	3	7,962	2	8,067	1
Unable to stop in assured clear distance	62,890	57	65,410	39	69,786	32	71,810	56	77,280	46
Other	16,435	84	16,799	74	17,750	80	16,823	79	17,270	78
Unknown	17,446	128	18,090	139	19,044	133	18,734	134	25,176	141
Reckless driving	2,336	37	2,458	54	2,393	44	2,667	47	2,663	56
Careless/negligent driving	12,104	78	12,351	68	12,470	65	13,739	97	13,883	78
Uncoded & errors	6,526	10	6,515	12	6,509	8	5,638	3	6,500	10
Total	459,030	1,352	484,446	1,388	510,086	1,280	510,074	1,479	538,412	1,570



The picture above represents all 2016 alcohol-involved fatal crashes in Michigan.

In 2016, there were 9,769 alcohol-involved crashes in Michigan:

254	K - Fatal Crashes
717	A - Suspected Serious Injury Crashes
1,529	B - Suspected Minor Injury Crashes
1,716	C - Possible Injury Crashes
5,553	O - Property Damage Only/No Injury Crashes

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