



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)

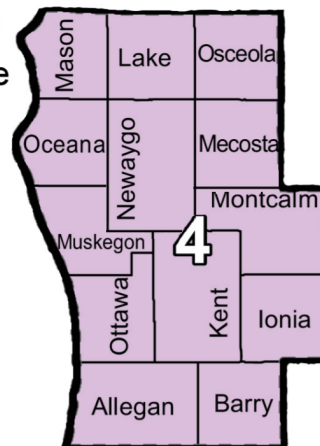


Governor's Prosperity Region - West Michigan Prosperity Alliance

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

Prosperity Region - 4 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.

4. West Michigan Prosperity Alliance



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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West Michigan Prosperity Alliance Experience

The 2016* comprehensive cost of traffic crashes was **\$7,130,000,000**. ** Fatalities cost **\$1,660,000,000**, injuries cost **\$3,435,000,000**, and 'Property Damage Only' crashes cost **\$2,035,000,000**.

In 2016:

There were 85,241 drivers involved in 51,923 motor vehicle crashes in West Michigan Prosperity Alliance. Of those crashes, 152 were classified as fatal, resulting in 161 fatalities. An additional 12,325 persons were injured.

West Michigan Prosperity Alliance experienced the highest number of motor vehicle crashes (6,242) in December, the highest number of fatal crashes (19) and the highest number of persons killed (20) in September.

Michigan driver statistics indicate 6.9 percent of licensed drivers in West Michigan Prosperity Alliance were age 16-20, and 12.4 percent of drivers in crashes were also in that age group.

* 2016 National Safety Council data for average costs of motor vehicle crashes were used for this report.

** Cost estimates derived from the National Safety Council are approximations and have been rounded to the nearest \$5,000,000. With rounding, the total cost may not equal the sum of all crash types.

2016 - Crashes and Injuries by Month

Month	Crashes				Persons	
	Total	Fatal	Injury	Property Damage Only (PDO)	Fatalities	Injuries
January	5,084	7	694	4,383	7	901
February	3,962	10	640	3,312	13	854
March	3,669	6	603	3,060	8	803
April	3,418	16	602	2,800	16	841
May	3,965	10	789	3,166	11	1,069
June	3,931	15	797	3,119	16	1,137
July	3,611	15	842	2,754	16	1,181
August	3,898	12	848	3,038	12	1,166
September	4,045	19	836	3,190	20	1,159
October	4,849	15	774	4,060	15	1,082
November	5,249	16	745	4,488	16	997
December	6,242	11	851	5,380	11	1,135
Total	51,923	152	9,021	42,750	161	12,325

2016 - Driver Statistics

Age Group	West Michigan Prosperity Alliance			Driver Rates	
	2016 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	332,937	8,959	144	4.3	160.7
16 - 20	111,304	78,077	10,538	946.8	1,349.7
21 - 24	90,186	77,020	9,216	1,021.9	1,196.6
25 - 64	812,874	753,423	51,335	631.5	681.4
65 +	233,654	213,279	7,542	322.8	353.6
Unknown	0	0	6,466	- -	- -
Total	1,580,955	1,130,758	85,241	539.2	753.8

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	68,400	80.2	174	69.0	12,930	55,296
Motor home	1,189	1.4	2	0.8	241	946
Pickup truck	9,959	11.7	30	11.9	1,754	8,175
Small truck under 10,000 lbs. GVWR	777	0.9	0	0.0	119	658
Motorcycle	622	0.7	23	9.1	470	129
Moped / goped	99	0.1	1	0.4	83	15
Go-cart / golf cart	5	0.0	0	0.0	2	3
Snowmobile	14	0.0	0	0.0	9	5
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	43	0.1	0	0.0	34	9
Other	402	0.5	3	1.2	96	303
Truck/bus over 10,000 lbs.	1,989	2.3	18	7.1	339	1,632
Unknown	1,742	2.0	1	0.4	122	1,619
Total	85,241	100.0	252	100.0	16,199	68,790

West Michigan Prosperity Alliance (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	4,843	4	4,943	12	6,470	3	5,166	12	5,084	7
February	3,829	15	5,026	3	5,161	12	4,633	9	3,962	10
March	3,032	12	3,318	6	3,756	11	3,213	9	3,669	6
April	2,776	13	2,863	4	2,558	11	2,760	7	3,418	16
May	3,559	18	3,398	17	3,280	15	3,556	16	3,965	10
June	3,453	8	3,230	12	3,377	12	3,671	11	3,931	15
July	3,126	18	3,261	17	3,137	22	3,580	10	3,611	15
August	3,157	12	3,113	19	3,250	16	3,251	25	3,898	12
September	3,196	16	3,350	9	3,345	14	3,526	10	4,045	19
October	4,500	11	4,363	24	4,479	11	4,805	11	4,849	15
November	4,166	8	5,421	10	6,470	7	4,981	14	5,249	16
December	4,339	11	5,259	7	3,750	8	4,177	15	6,242	11
Total	43,976	146	47,545	140	49,033	142	47,319	149	51,923	152

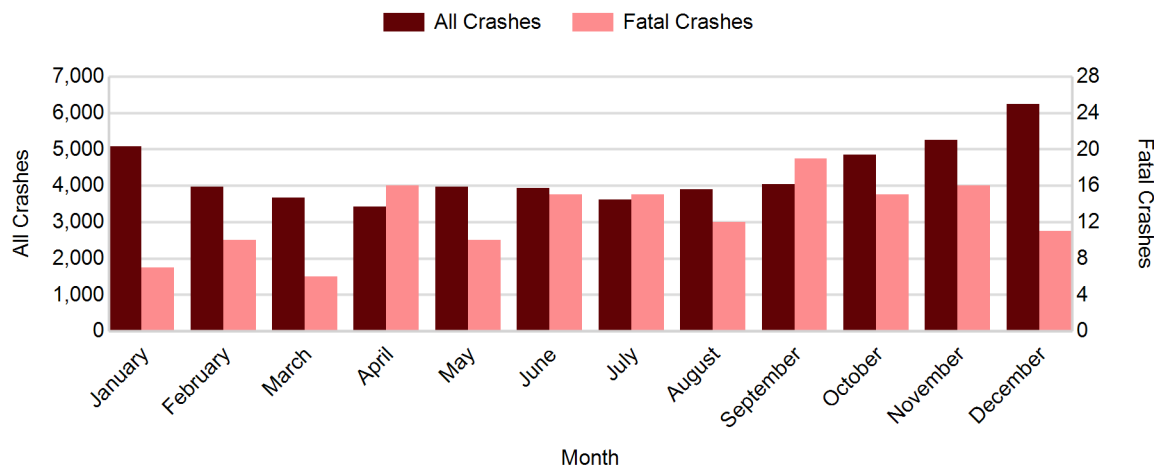
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

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	5,987	19	7,079	19	6,961	15	6,873	17	7,336	24
Tuesday	6,130	17	7,529	21	7,365	12	7,033	17	7,775	22
Wednesday	6,227	16	6,974	19	7,797	25	7,311	23	7,937	20
Thursday	6,587	17	7,469	21	7,901	19	7,215	19	8,122	19
Friday	8,289 †	25	7,559 †	21	8,208 †	19	7,694 †	19	8,813 †	25
Saturday	6,068	26	6,196	20	5,961	29	6,415	25	6,681	23
Sunday	4,688	26	4,739	19	4,840	23	4,778	29	5,259	19
Total	43,976	146	47,545	140	49,033	142	47,319	149	51,923	152

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

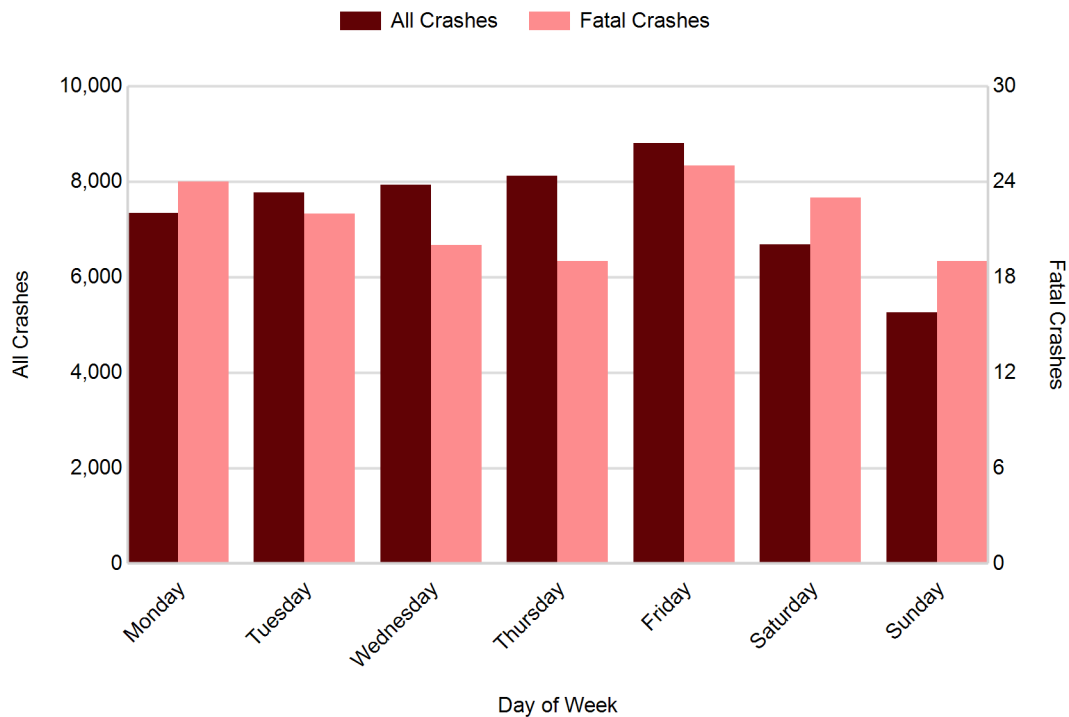
2016 Crashes by Month



2016 - Crashes by Day of Week

Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Monday	7,336	14.1	24	15.8	119	316	788	6,089
Tuesday	7,775	15.0	22	14.5	146	349	837	6,421
Wednesday	7,937	15.3	20	13.2	117	336	877	6,587
Thursday	8,122	15.6	19	12.5	118	355	916	6,714
Friday	8,813	17.0	25	16.4	159	397	964	7,268
Saturday	6,681	12.9	23	15.1	146	416	684	5,412
Sunday	5,259	10.1	19	12.5	136	311	534	4,259
Total	51,923	100.0	152	100.0	941	2,480	5,600	42,750

2016 Day of Week and Severity

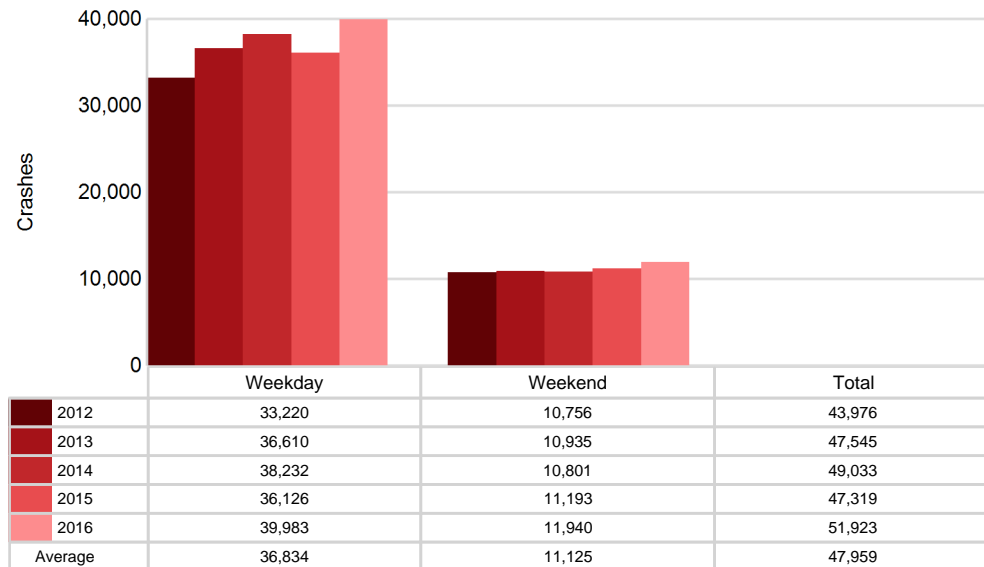


West Michigan Prosperity Alliance (continued)

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	33,220	94	36,610	101	38,232	90	36,126	95	39,983	110
Weekend	10,756	52	10,935	39	10,801	52	11,193	54	11,940	42
Total	43,976	146	47,545	140	49,033	142	47,319	149	51,923	152

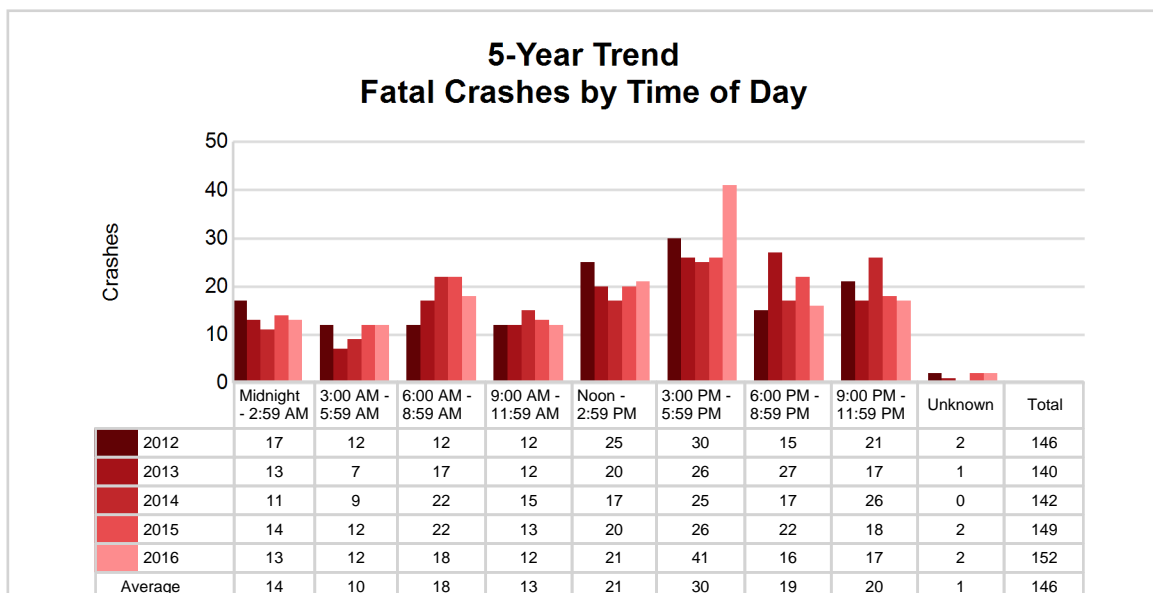
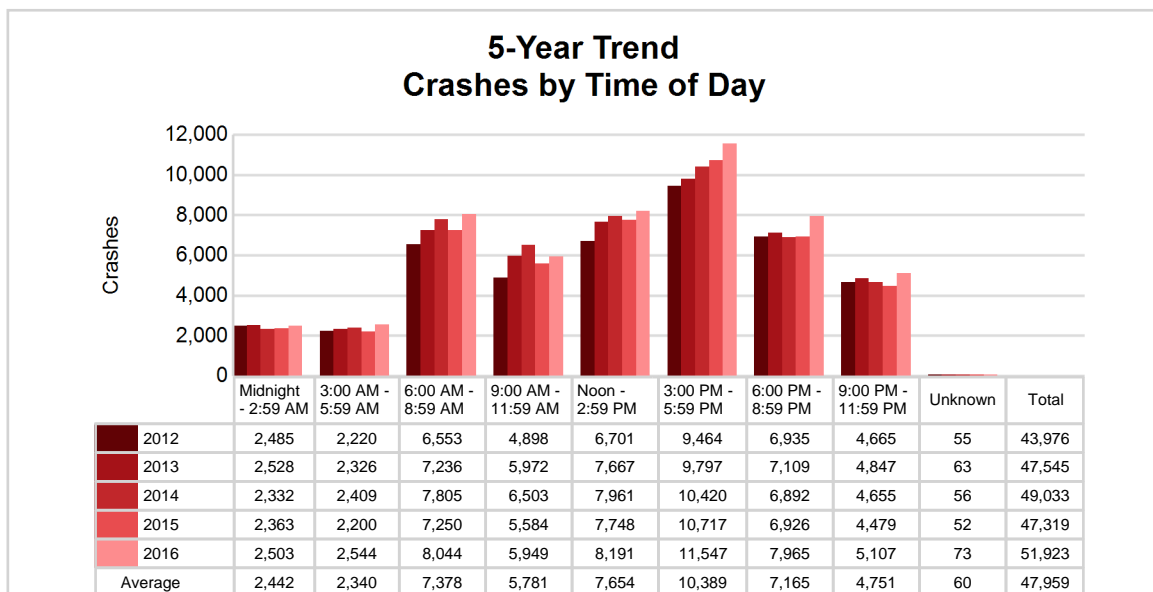
5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



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	2,485	17	2,528	13	2,332	11	2,363	14	2,503	13
3:00 AM - 5:59 AM	2,220	12	2,326	7	2,409	9	2,200	12	2,544	12
6:00 AM - 8:59 AM	6,553	12	7,236	17	7,805	22	7,250	22	8,044	18
9:00 AM - 11:59 AM	4,898	12	5,972	12	6,503	15	5,584	13	5,949	12
Noon - 2:59 PM	6,701	25	7,667	20	7,961	17	7,748	20	8,191	21
3:00 PM - 5:59 PM	9,464 †	30	9,797 †	26	10,420 †	25	10,717 †	26	11,547 †	41
6:00 PM - 8:59 PM	6,935	15	7,109	27	6,892	17	6,926	22	7,965	16
9:00 PM - 11:59 PM	4,665	21	4,847	17	4,655	26	4,479	18	5,107	17
Unknown	55	2	63	1	56	0	52	2	73	2
Total	43,976	146	47,545	140	49,033	142	47,319	149	51,923	152

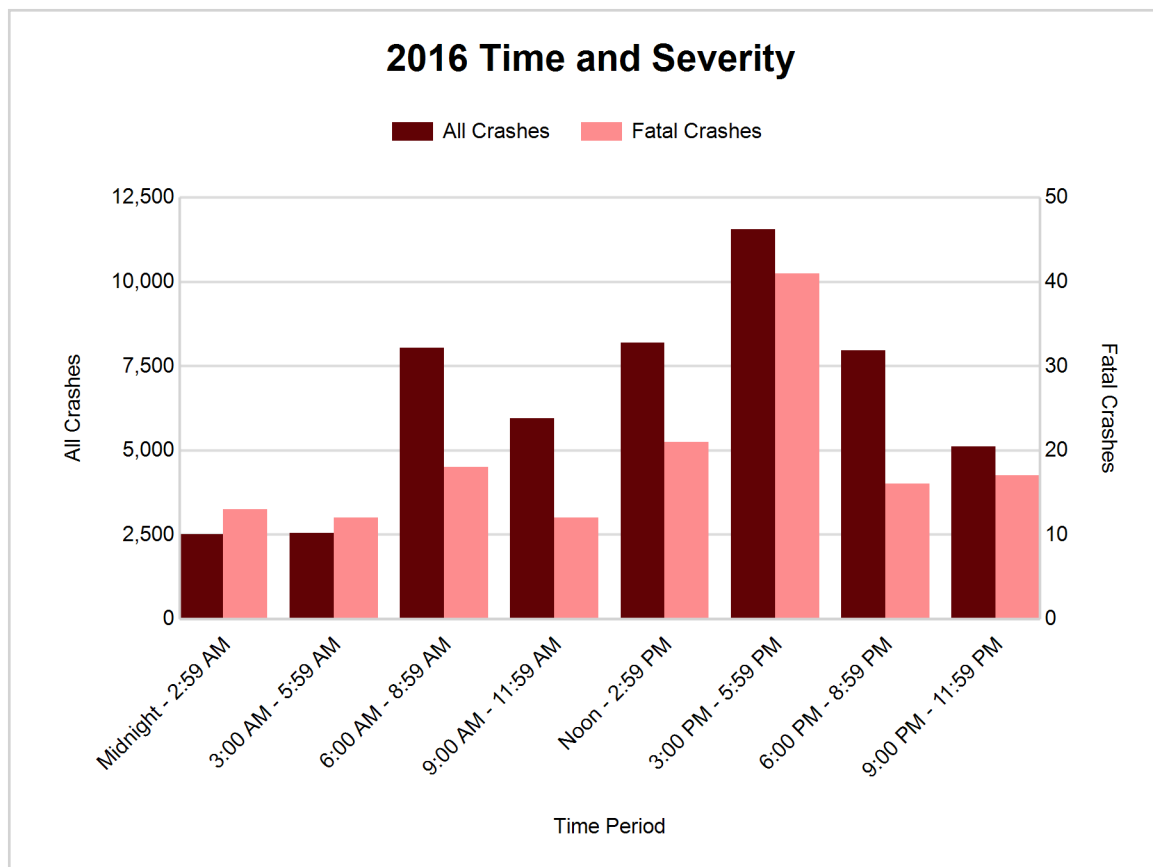
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same time period



West Michigan Prosperity Alliance (continued)

2016 - Time and Severity

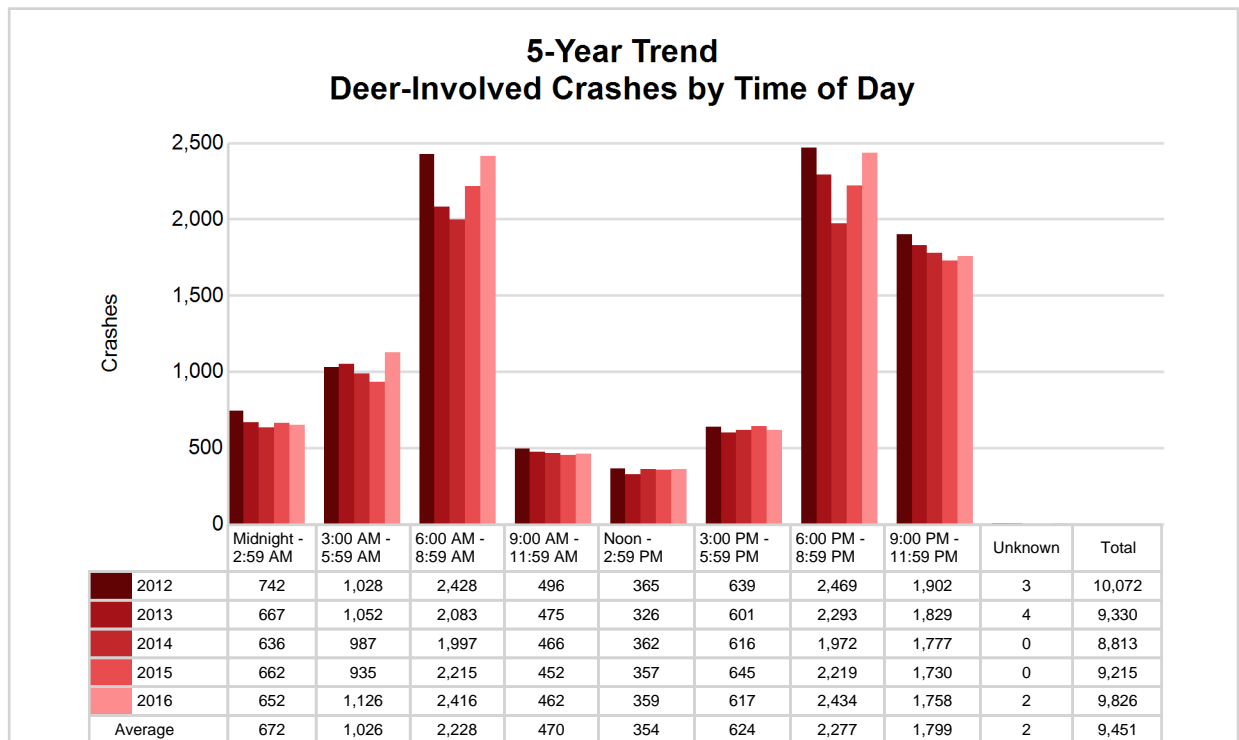
Time of Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Midnight - 2:59 AM	2,503	4.8	13	8.6	65	150	206	2,069
3:00 AM - 5:59 AM	2,544	4.9	12	7.9	38	98	194	2,202
6:00 AM - 8:59 AM	8,044	15.5	18	11.8	89	265	758	6,914
9:00 AM - 11:59 AM	5,949	11.5	12	7.9	104	296	657	4,880
Noon - 2:59 PM	8,191	15.8	21	13.8	193	431	1,080	6,466
3:00 PM - 5:59 PM	11,547	22.2	41	27.0	209	600	1,499	9,198
6:00 PM - 8:59 PM	7,965	15.3	16	10.5	128	395	728	6,698
9:00 PM - 11:59 PM	5,107	9.8	17	11.2	114	243	477	4,256
Unknown	73	0.1	2	1.3	1	2	1	67
Total	51,923	100.0	152	100.0	941	2,480	5,600	42,750

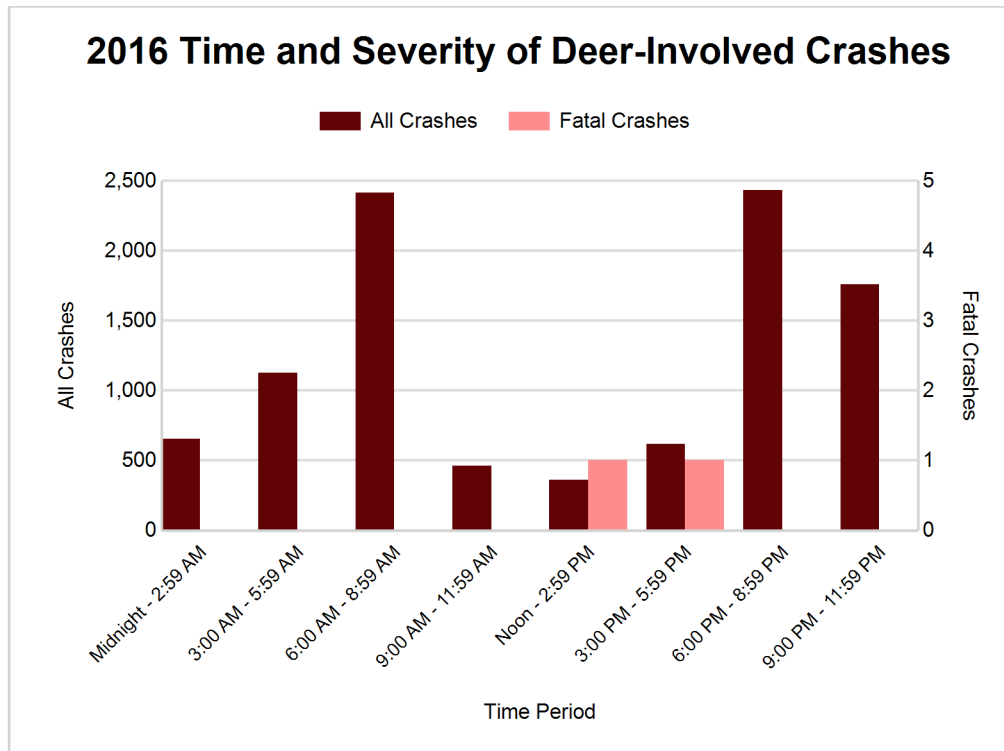


5-Year Trend - Deer-Involved Crashes by Time of Day

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	742	0	667	1	636	0	662	1	652	0
3:00 AM - 5:59 AM	1,028	0	1,052	0	987	0	935	0	1,126	0
6:00 AM - 8:59 AM	2,428	0	2,083	1	1,997	0	2,215	1	2,416	0
9:00 AM - 11:59 AM	496	1	475	0	466	0	452	0	462	0
Noon - 2:59 PM	365	0	326	0	362	0	357	0	359	1
3:00 PM - 5:59 PM	639	0	601	0	616	1	645	0	617	1
6:00 PM - 8:59 PM	2,469	0	2,293	2	1,972	0	2,219	0	2,434	0
9:00 PM - 11:59 PM	1,902	1	1,829	0	1,777	1	1,730	1	1,758	0
Unknown	3	0	4	0	0	0	0	0	2	0
Total	10,072	2	9,330	4	8,813	2	9,215	3	9,826	2

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





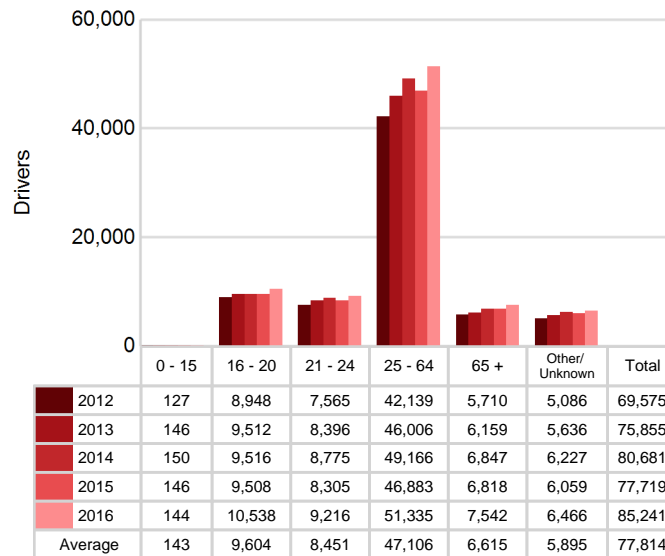
2016 - Reported Motor Vehicle Crashes by County

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	3,673	16	574	3,083	328	576	721	2,044	160	50	886	16	823
Barry	1,563	4	233	1,326	0	0	611	951	77	14	610	4	323
Ionia	1,663	7	260	1,396	346	0	524	791	44	25	471	7	370
Kent	22,183	55	4,266	17,862	2,546	2,257	4,530	12,842	806	147	1,481	57	5,771
Lake	445	3	70	372	0	108	69	267	22	0	238	3	101
Mason	1,389	5	123	1,261	0	555	38	796	21	9	739	5	156
Mecosta	1,954	2	233	1,719	0	265	711	977	40	12	941	2	294
Montcalm	2,141	5	346	1,790	0	136	743	1,257	81	14	975	6	464
Muskegon	4,864	18	915	3,931	70	1,082	557	3,146	154	33	570	21	1,282
Newaygo	1,525	6	236	1,283	0	0	524	996	56	15	668	6	338
Oceana	980	5	134	841	0	251	117	605	38	8	497	5	181
Osceola	1,115	2	119	994	0	369	150	592	22	4	634	2	160
Ottawa	8,428	24	1,512	6,892	848	928	795	5,839	276	59	1,116	27	2,062
Total	51,923	152	9,021	42,750	4,138	6,527	10,090	31,103	1,797	390	9,826	161	12,325

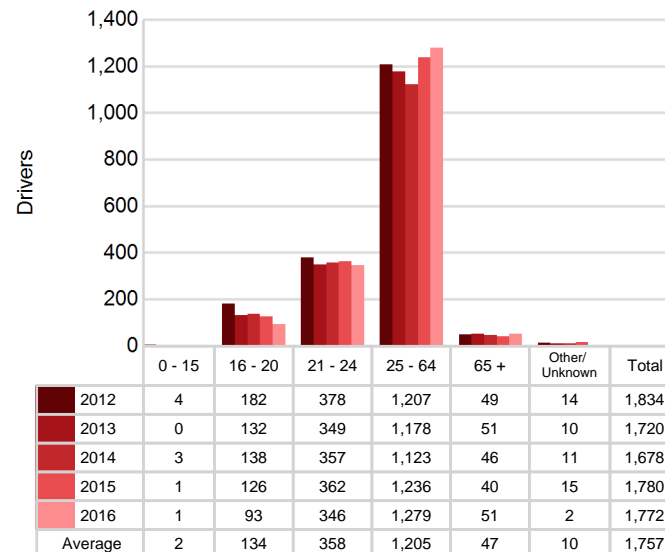
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

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	127	4	146	0	150	3	146	1	144	1
16 - 20	8,948	182	9,512	132	9,516	138	9,508	126	10,538	93
21 - 24	7,565	378	8,396	349	8,775	357	8,305	362	9,216	346
25 - 64	42,139	1,207	46,006	1,178	49,166	1,123	46,883	1,236	51,335	1,279
65 +	5,710	49	6,159	51	6,847	46	6,818	40	7,542	51
Unknown	5,086	14	5,636	10	6,227	11	6,059	15	6,466	2
Total	69,575	1,834	75,855	1,720	80,681	1,678	77,719	1,780	85,241	1,772

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



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



West Michigan Prosperity Alliance (continued)

2016 - Bodily Alcohol Concentration (BAC) Results Among All Vehicle Drivers in Alcohol-Involved Crashes by Age

Age Group	Drivers				BAC Result Range for Drivers Coded Drinking				
	Total Drivers in Alcohol-Involved Crashes	Total Drivers Tested in all Crashes	Total Drivers Coded Drinking, Tested	Total Drivers Coded Drinking	BAC = 0.00	BAC 0.01 g/dL to 0.07 g/dL	BAC 0.08 g/dL to 0.16 g/dL	BAC 0.17 g/dL and Above	BAC Not Reported
0 - 15	3	2	1	1	0	0	0	1	0
16 - 20	162	164	77	93	1	14	34	16	28
21 - 24	428	357	282	346	2	39	107	74	124
25 - 64	1,749	1,374	1,026	1,279	18	114	328	341	478
65 +	109	89	46	51	0	8	20	6	17
Unknown	188	8	0	2	0	0	0	0	2
Total	2,639	1,994	1,432	1,772	21	175	489	438	649

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 2,639 drivers in alcohol-involved crashes; 1,772 (67.1%) of those drivers were coded as had-been-drinking by the officer on the crash form.

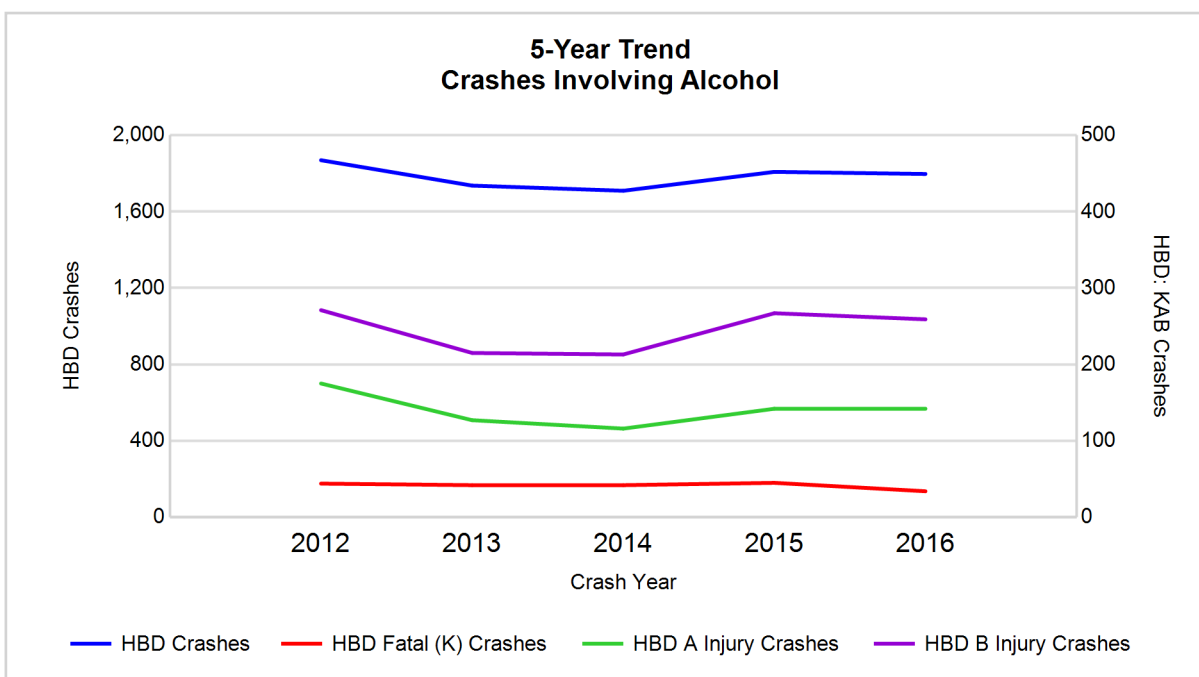
- 927 (52.3%) of the 1,772 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 438 (47.2%) of the 927 drivers had a BAC at or above 0.17 g/dL.
- 1,432 (80.8%) of the 1,772 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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	43,976	1,869	4.3	146	44	30.1	804	175	21.8	2,174	271	12.5
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

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



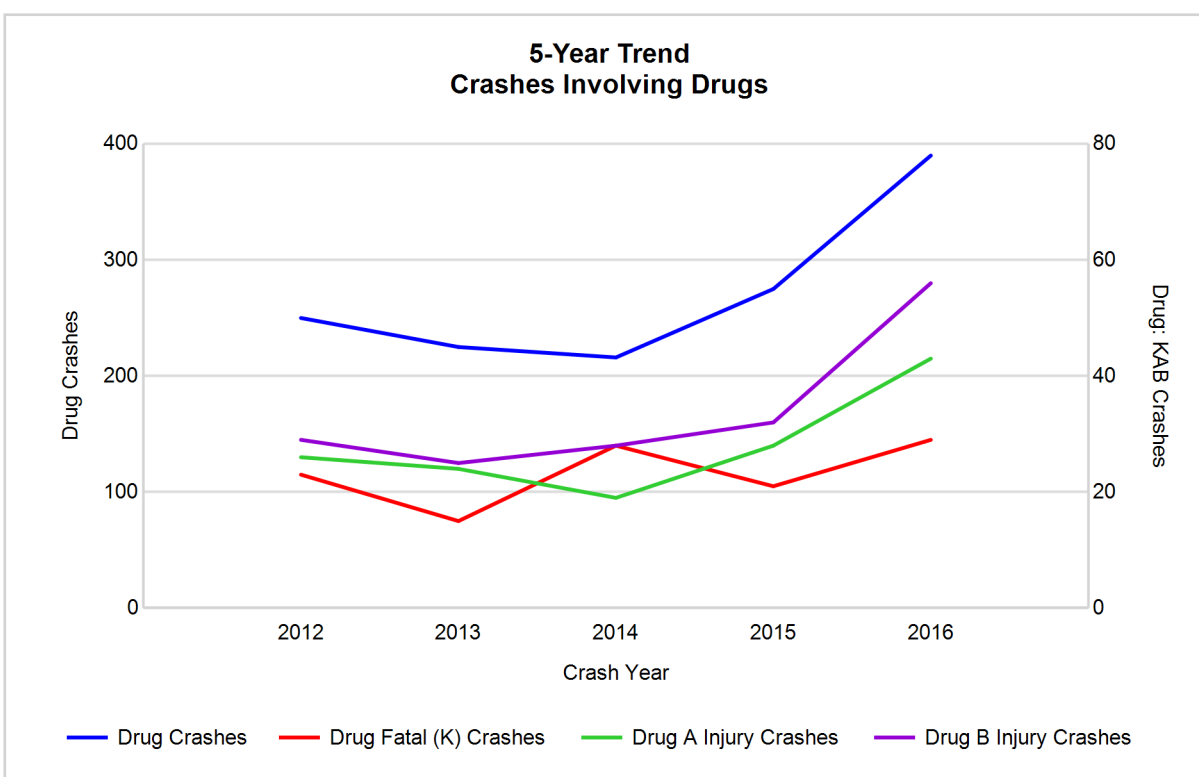
Note: Had-Been-Drinking (HBD)

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	43,976	250	0.6	146	23	15.8	804	26	3.2	2,174	29	1.3
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**

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



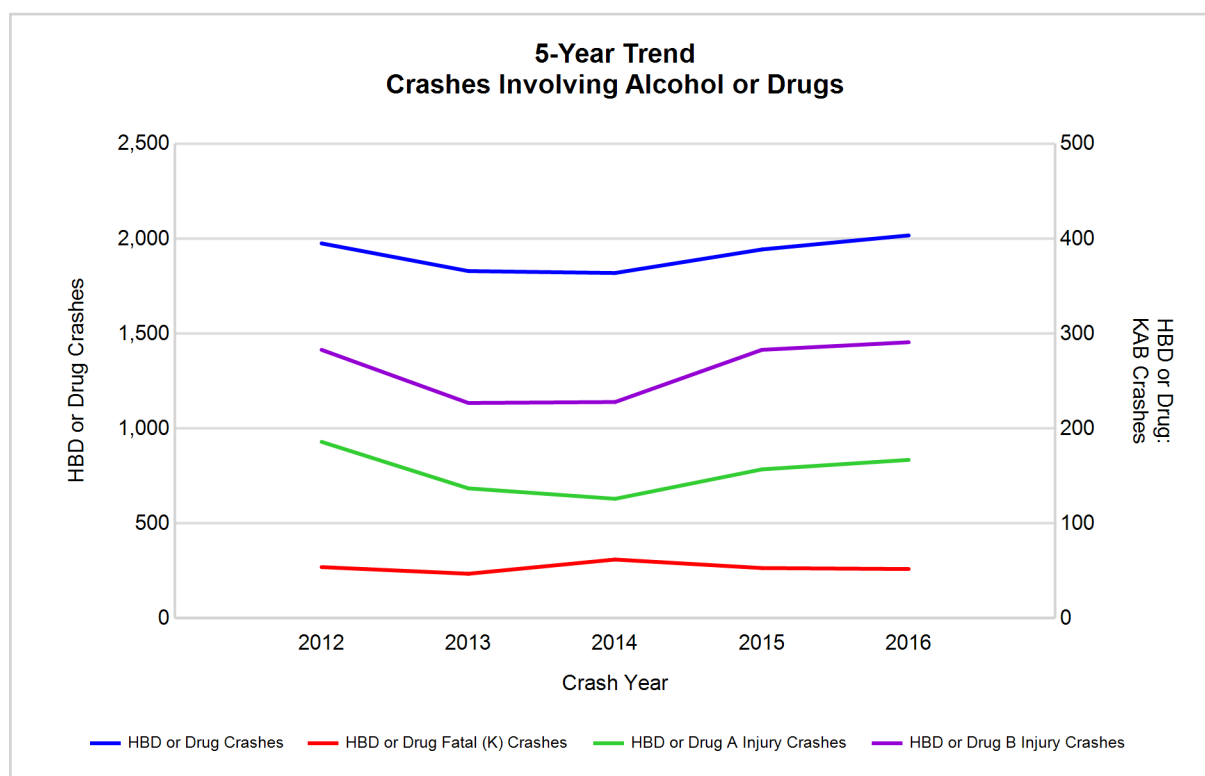
West Michigan Prosperity Alliance (continued)

5-Year Trend - Crashes Involving Alcohol or Drugs

Year	All Crashes	HBD or Drug Crashes	% HBD or Drug	Fatal Crashes	HBD or Drug Fatal Crashes	% HBD or Drug	A Injury Crashes	HBD or Drug A Injury Crashes	% HBD or Drug	B Injury Crashes	HBD or Drug B Injury Crashes	% HBD or Drug
2012	43,976	1,976	4.5	146	54	37.0	804	186	23.1	2,174	283	13.0
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

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)

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	70,997	64,382	90.7	106	63	59.4	747	622	83.3	2,242	2,012	89.7	6,660	6,355	95.4	57,318	55,299	96.5
Motor home	1,241	1,134	91.4	2	2	100.0	12	6	50.0	29	25	86.2	121	115	95.0	1,022	986	96.5
Pickup truck	10,239	9,353	91.3	10	3	30.0	100	78	78.0	300	261	87.0	646	608	94.1	8,699	8,402	96.6
Small truck under 10,000 lbs. GVWR	795	711	89.4	0	0	0.0	6	4	66.7	25	22	88.0	43	37	86.0	676	648	95.9
Motorcycle	676	403	59.6	23	7	30.4	124	72	58.1	235	140	59.6	142	97	68.3	139	87	62.6
Moped / goped	103	43	41.7	1	0	0.0	20	6	30.0	42	21	50.0	24	13	54.2	13	3	23.1
Go-cart / golf cart	7	4	57.1	0	0	0.0	0	0	0.0	2	1	50.0	1	0	0.0	4	3	75.0
Snowmobile	16	14	87.5	0	0	0.0	5	5	100.0	3	2	66.7	2	2	100.0	6	5	83.3
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	52	20	38.5	0	0	0.0	13	6	46.2	19	7	36.8	7	4	57.1	12	3	25.0
Other	426	241	56.6	2	0	0.0	9	2	22.2	15	6	40.0	39	14	35.9	312	219	70.2
Truck/bus over 10,000 lbs.	2,031	1,873	92.2	1	0	0.0	11	8	72.7	27	23	85.2	86	69	80.2	1,835	1,772	96.6
Unknown	1,742	13	0.7	0	0	0.0	0	0	0.0	0	0	0.0	1	0	0.0	29	9	31.0
Total	88,325	78,191	88.5	145	75	51.7	1,047	809	77.3	2,939	2,520	85.7	7,772	7,314	94.1	70,065	67,436	96.2

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	987	878	89.0	4	3	75.0	55	41	74.5	206	170	82.5	609	564	92.6	112	100	89.3
16 - 20	11,042	10,611	96.1	17	7	41.2	128	101	78.9	476	411	86.3	1,089	1,019	93.6	9,310	9,071	97.4
21 - 24	9,482	8,971	94.6	15	8	53.3	111	88	79.3	370	317	85.7	845	789	93.4	8,107	7,768	95.8
25 - 64	52,524	50,080	95.3	79	40	50.6	628	474	75.5	1,599	1,353	84.6	4,478	4,216	94.1	45,559	43,983	96.5
65 +	7,823	7,565	96.7	30	17	56.7	125	105	84.0	287	269	93.7	747	725	97.1	6,599	6,442	97.6
Unknown	6,467	86	1.3	0	0	0.0	0	0	0.0	1	0	0.0	4	1	25.0	378	72	19.0
Total	88,325	78,191	88.5	145	75	51.7	1,047	809	77.3	2,939	2,520	85.7	7,772	7,314	94.1	70,065	67,436	96.2

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	374	1	74	430	0	51	375	3	48	354	1	35	224	4	20
Shoulder belt only used	30	1	7	80	0	10	124	0	13	263	0	25	432	0	36
Lap belt only used	184	1	26	337	0	29	554	0	60	500	3	38	422	0	47
Both lap & shoulder belts used	60,832	40	6,304	66,268	45	6,471	69,822	47	6,618	67,462	44	6,454	74,167	46	7,568
No belts used	461	28	194	524	14	177	611	29	185	620	25	171	600	22	214
Child restraint used	5	0	0	2	0	0	5	0	1	0	0	0	7	0	1
Child restraint not used, unavailable or improper use	6	0	0	1	0	1	7	0	1	2	0	0	1	0	0
Restraint failure	22	0	6	24	0	3	64	0	9	54	1	5	53	1	8
Restraint use unknown	2,280	10	171	2,410	5	179	2,754	6	184	2,284	5	159	6,386	12	243
Helmet worn	600	13	459	500	12	362	490	10	353	461	8	323	447	7	341
Helmet not worn	233	15	166	240	18	167	220	11	168	223	11	160	277	14	209
Helmet use unknown	27	2	13	34	1	14	54	2	25	34	1	20	42	1	23
Uncoded & errors	4,521	0	7	5,005	0	11	5,601	0	6	5,462	0	10	2,183	0	2
Total	69,575	111	7,427	75,855	95	7,475	80,681	108	7,671	77,719	99	7,400	85,241	107	8,712

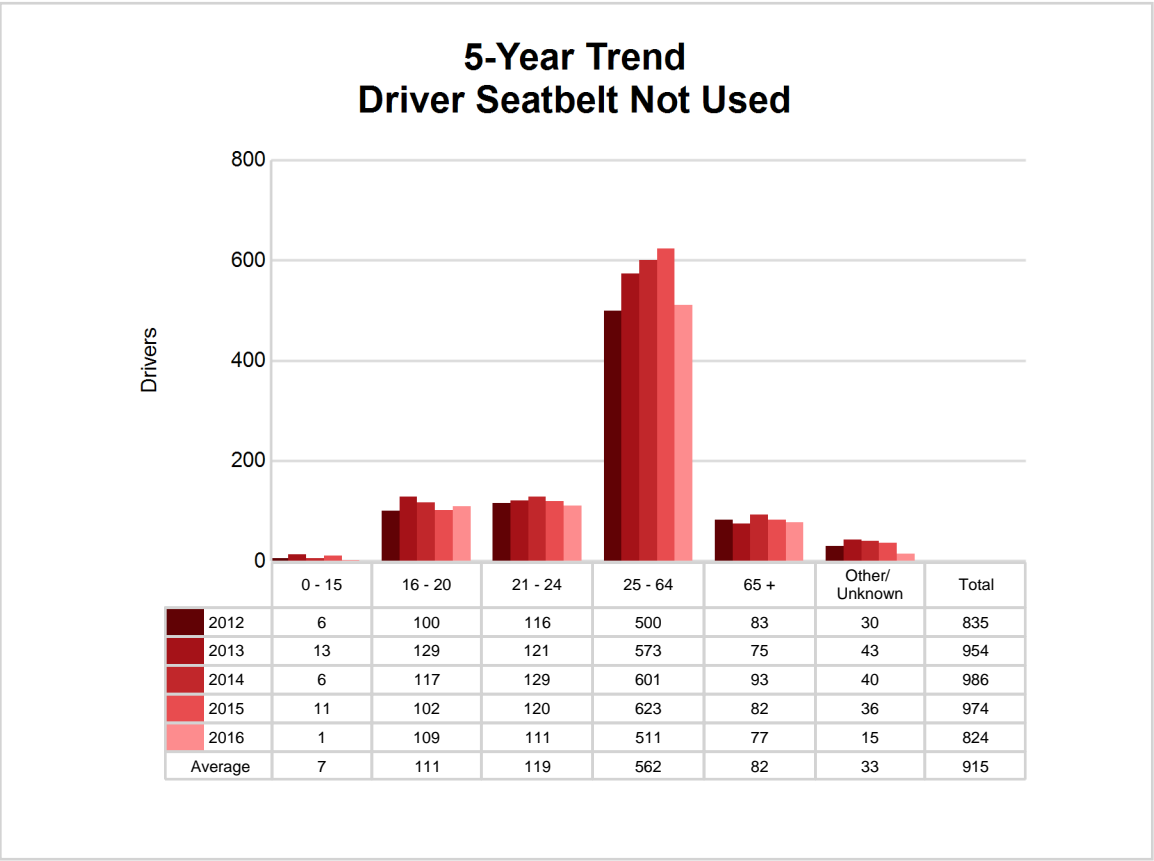
5-Year Trend - Restraint Use Among Drivers Coded Drinking

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	18	0	9	10	0	2	19	0	6	10	1	1	8	1	2
Shoulder belt only used	2	0	1	4	0	3	3	0	0	11	0	1	12	0	0
Lap belt only used	5	1	2	6	0	1	11	0	3	14	2	1	9	0	3
Both lap & shoulder belts used	1,275	6	309	1,274	11	316	1,216	6	276	1,322	4	346	1,267	2	315
No belts used	129	11	88	84	4	52	93	9	55	105	9	56	104	8	64
Child restraint used	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Child restraint not used, unavailable or improper use	0	0	0	1	0	1	2	0	0	0	0	0	0	0	0
Restraint failure	3	0	2	4	0	1	7	0	1	8	0	0	5	1	2
Restraint use unknown	309	3	83	272	2	65	253	2	58	242	2	61	290	3	78
Helmet worn	44	3	38	19	1	16	17	2	13	18	2	14	22	0	19
Helmet not worn	35	6	23	40	9	27	39	4	31	34	5	26	53	8	42
Helmet use unknown	3	1	2	1	0	1	10	2	6	5	1	3	2	0	2
Uncoded & errors	11	0	2	5	0	0	8	0	1	11	0	0	0	0	0
Total	1,834	31	559	1,720	27	485	1,678	25	450	1,780	26	509	1,772	23	527

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	6	0	2	13	0	3	6	0	0	11	0	4	1	0	0
16 - 20	100	0	35	129	2	35	117	4	36	102	1	24	109	5	33
21 - 24	116	6	53	121	0	37	129	3	34	120	2	28	111	3	31
25 - 64	500	17	157	573	8	135	601	19	138	623	19	132	511	10	144
65 +	83	6	20	75	4	17	93	6	25	82	4	17	77	8	26
Unknown	30	0	1	43	0	1	40	0	0	36	0	1	15	0	0
Total	835	29	268	954	14	228	986	32	233	974	26	206	824	26	234

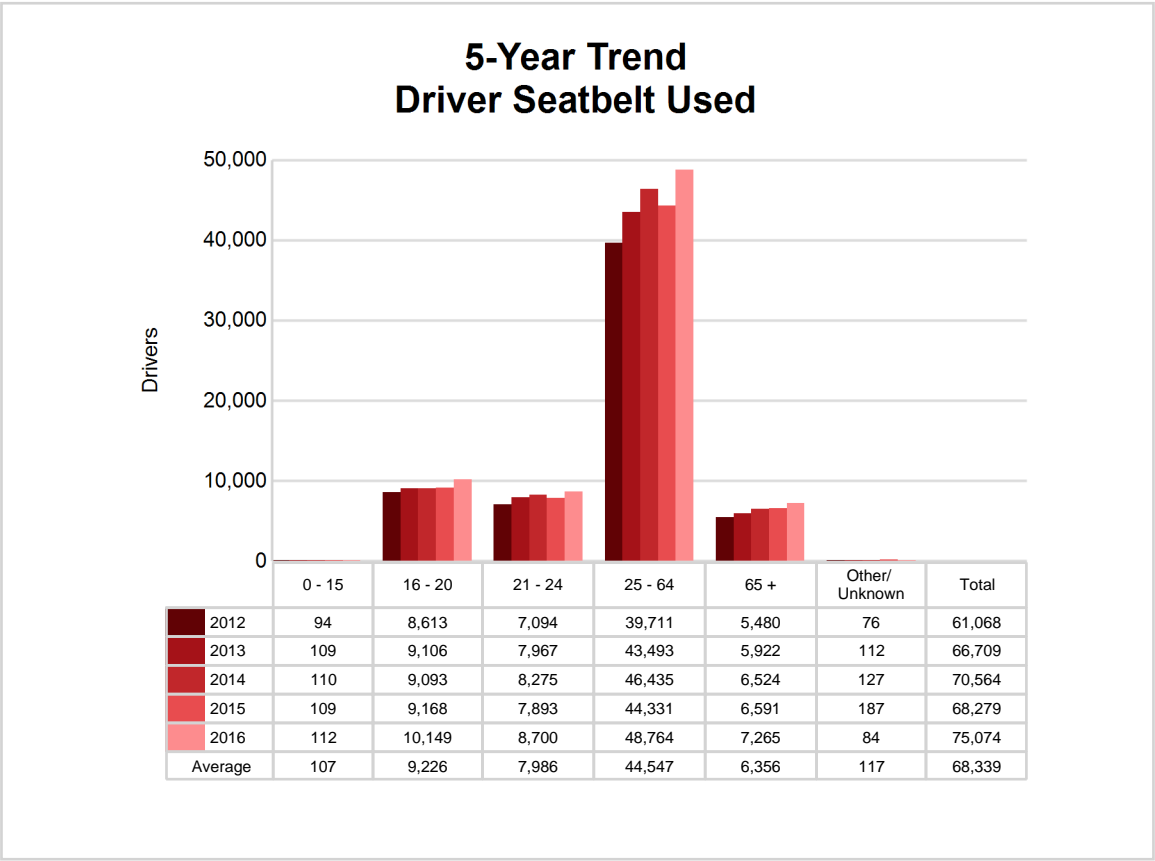
Note: Seatbelt Not Used includes no belts available or no belts used.



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	94	0	11	109	0	16	110	0	6	109	0	13	112	0	13
16 - 20	8,613	7	920	9,106	6	940	9,093	4	875	9,168	8	941	10,149	4	1,080
21 - 24	7,094	3	788	7,967	5	775	8,275	6	769	7,893	7	711	8,700	6	934
25 - 64	39,711	22	3,981	43,493	17	4,125	46,435	17	4,283	44,331	22	4,173	48,764	27	4,814
65 +	5,480	10	642	5,922	17	657	6,524	20	765	6,591	11	684	7,265	10	817
Unknown	76	0	1	112	0	0	127	0	2	187	0	0	84	0	1
Total	61,068	42	6,343	66,709	45	6,513	70,564	47	6,700	68,279	48	6,522	75,074	47	7,659

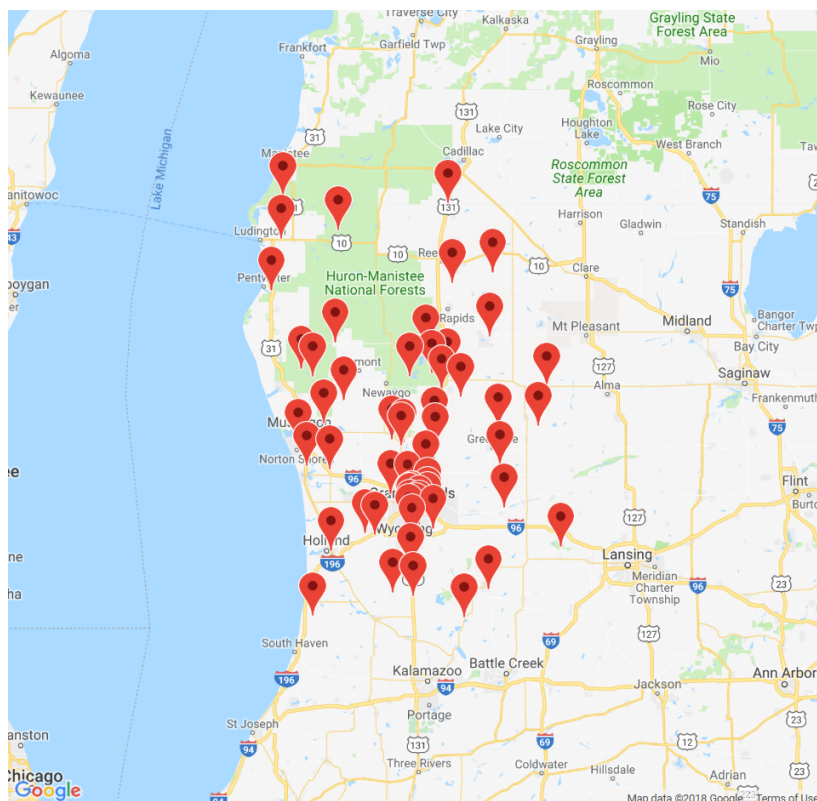
Note: Seatbelt Used includes shoulder belt only used, lap belt only used, both lap and shoulder belts used, and restraint failure.



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	37,253	87	39,593	120	42,382	113	41,671	103	45,095	120
Speed too fast	5,678	37	8,159	23	7,927	20	5,771	26	6,943	24
Speed too slow	59	0	87	0	114	0	110	1	95	0
Failed to yield	5,880	12	6,164	20	7,175	20	6,869	17	7,526	22
Disregard traffic control	1,472	12	1,518	17	1,593	10	1,691	11	1,746	26
Drove wrong way	46	0	55	1	65	6	69	0	62	0
Drove left of center	326	8	391	8	412	18	372	12	391	5
Improper passing	366	4	338	2	454	0	388	5	454	2
Improper lane use	1,215	1	1,207	0	1,320	3	1,527	1	1,756	5
Improper turn	574	1	620	0	737	1	706	0	745	1
Improper/no signal	115	0	174	0	183	1	177	1	109	0
Improper backing	1,069	0	1,228	0	1,312	0	1,270	0	1,348	0
Unable to stop in assured clear distance	8,738	6	9,260	7	9,733	3	9,807	5	10,971	4
Other	2,629	17	2,858	12	2,952	16	2,677	9	2,791	12
Unknown	1,900	22	1,980	17	2,031	16	2,152	23	2,729	16
Reckless driving	293	4	307	4	362	5	403	2	403	11
Careless/negligent driving	1,657	8	1,690	14	1,770	7	2,006	13	1,990	4
Uncoded & errors	305	0	226	1	159	0	53	0	87	0
Total	69,575	219	75,855	246	80,681	239	77,719	229	85,241	252

West Michigan Prosperity Alliance (continued)



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

In 2016, there were 1,797 alcohol-involved crashes in West Michigan Prosperity Alliance:

34	K - Fatal Crashes
142	A - Suspected Serious Injury Crashes
259	B - Suspected Minor Injury Crashes
282	C - Possible Injury Crashes
1,080	O - Property Damage Only/No Injury Crashes

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