MICHIGAN

OHSP

Office of Highway Safety Planning

2016

MTCF
Michigan Traffic Crash Facts

Michigan Traffic Crash Facts

Kalamazoo County

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

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
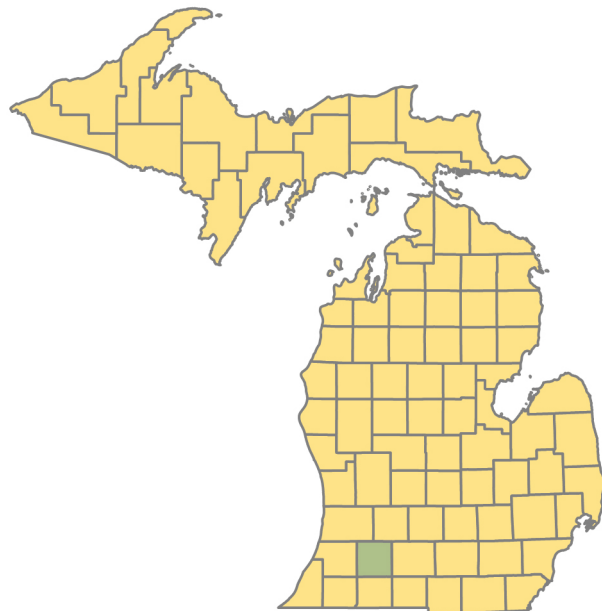B = Suspected Minor Injury
C = Possible Injury
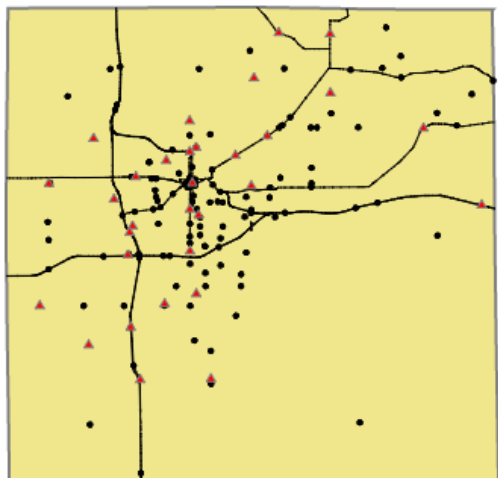O = No Injury
     Property Damage Only (PDO)

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Kalamazoo County

Crashes by most severe injury (mapped/actual)
▲ K - Fatal (31/31)
● A - Suspected Serious (124/124)

2016 - Crashes and Injuries by Month

Month	Crashes				Persons	
	Total	Fatal	Injury	Property Damage Only (PDO)	Fatalities	Injuries
January	801	1	111	689	1	139
February	841	2	140	699	2	181
March	640	3	104	533	3	137
April	579	5	113	461	5	157
May	610	2	137	471	2	197
June	613	4	118	491	8	161
July	562	0	131	431	0	193
August	592	5	121	466	5	156
September	688	2	159	527	2	209
October	804	2	134	668	2	186
November	843	4	136	703	4	188
December	1,018	1	152	865	1	193
Total	**8,591**	**31**	**1,556**	**7,004**	**35**	**2,097**

Kalamazoo County

In 2016:

There were 15,242 drivers involved in 8,591 motor vehicle crashes in Kalamazoo County. Of those crashes, 31 were classified as fatal, resulting in 35 fatalities. An additional 2,097 persons were injured.

Kalamazoo County experienced the highest number of motor vehicle crashes (1,018) in December, the highest number of fatal crashes (5) in April and August, and the highest number of persons killed (8) in June.

Michigan driver statistics indicate 7.1 percent of licensed drivers in Kalamazoo County were age 16-20, and 12.3 percent of drivers in crashes were also in that age group.

2016 - Driver Statistics

Age Group	Statewide			Driver Rates	
	2016 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	50,500	1,270	25	5.0	196.9
16 - 20	22,069	13,033	1,878	851.0	1,441.0
21 - 24	25,462	15,036	1,939	761.5	1,289.6
25 - 64	126,164	119,735	8,675	687.6	724.5
65 +	37,459	33,729	1,398	373.2	414.5
Unknown	0	0	1,327	- -	- -
Total	**261,654**	**182,803**	**15,242**	**582.5**	**833.8**

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	12,731	83.5	31	67.4	2,380	10,320
Motor home	151	1.0	0	0.0	27	124
Pickup truck	1,307	8.6	7	15.2	240	1,060
Small truck under 10,000 lbs. GVWR	115	0.8	2	4.3	13	100
Motorcycle	87	0.6	4	8.7	53	30
Moped / goped	10	0.1	0	0.0	10	0
Go-cart / golf cart	3	0.0	0	0.0	3	0
Snowmobile	0	0.0	0	0.0	0	0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	3	0.0	0	0.0	2	1
Other	64	0.4	0	0.0	6	58
Truck/bus over 10,000 lbs.	375	2.5	2	4.3	70	303
Unknown	396	2.6	0	0.0	34	362
Total	**15,242**	**100.0**	**46**	**100.0**	**2,838**	**12,358**

Kalamazoo County (continued)

5-Year Trend - Crashes by Month

| Month	2012 Total Crashes	2012 Fatal Crashes	2013 Total Crashes	2013 Fatal Crashes	2014 Total Crashes	2014 Fatal Crashes	2015 Total Crashes	2015 Fatal Crashes	2016 Total Crashes	2016 Fatal Crashes
January	887	2	866	1	1,309	0	919	4	801	1
February	756	2	784	3	920	0	798	0	841	2
March	551	2	552	0	593	2	531	0	640	3
April	478	0	518	1	482	2	523	3	579	5
May	561	2	603	1	540	0	695	2	610	2
June	527	4	569	2	525	0	624	6	613	4
July	472	6	518	4	512	0	601	4	562	0
August	470	0	570	1	501	2	572	1	592	5
September	581	2	594	4	623	1	575	0	688	2
October	789	1	788	3	741	1	817	2	804	2
November	624	1	794	9	1,007	3	807	1	843	4
December	851	3	872	4	543	1	788	2	1,018	1
Total	**7,547**	**25**	**8,028**	**33**	**8,296**	**12**	**8,250**	**25**	**8,591**	**31**

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 Total Crashes	2012 Fatal Crashes	2013 Total Crashes	2013 Fatal Crashes	2014 Total Crashes	2014 Fatal Crashes	2015 Total Crashes	2015 Fatal Crashes	2016 Total Crashes	2016 Fatal Crashes
Monday	1,097	7	1,251	6	1,184	1	1,158	2	1,206	5
Tuesday	1,057	2	1,251	5	1,229	4	1,246	4	1,215	3
Wednesday	1,151	4	1,327	0	1,368	0	1,361	0	1,300	3
Thursday	1,092	2	1,222	6	1,429	4	1,172	4	1,439	3
Friday	1,448	3	1,234	6	1,391	2	1,413	6	1,481	6
Saturday	1,018	2	969	6	964	1	1,102	5	1,096	6
Sunday	684	5	774	4	731	0	798	4	854	5
Total	**7,547**	**25**	**8,028**	**33**	**8,296**	**12**	**8,250**	**25**	**8,591**	**31**

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
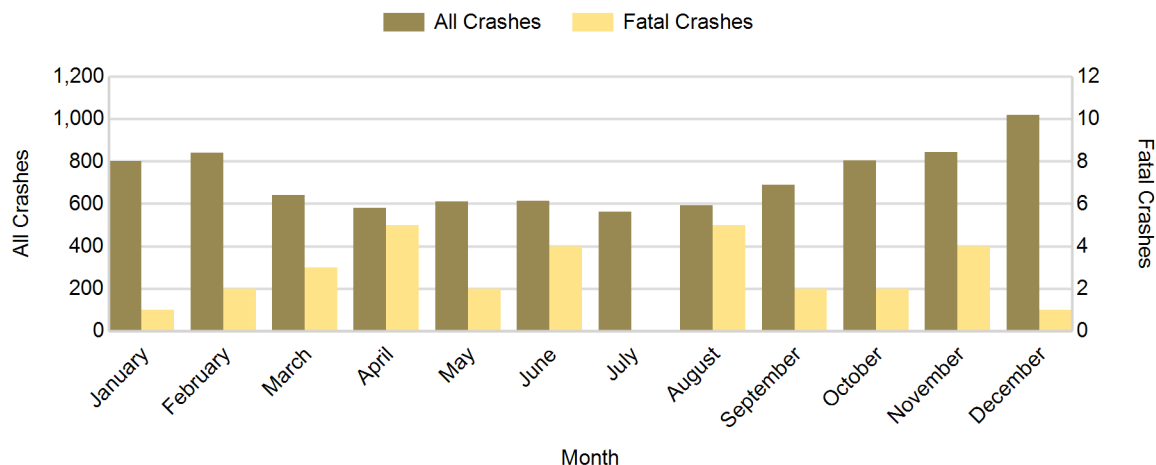
2016 - Crashes by Day of Week

Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Monday	1,206	14.0	5	16.1	13	56	139	993
Tuesday	1,215	14.1	3	9.7	11	62	144	995
Wednesday	1,300	15.1	3	9.7	12	54	162	1,069
Thursday	1,439	16.8	3	9.7	16	67	162	1,191
Friday	1,481	17.2	6	19.4	25	71	181	1,198
Saturday	1,096	12.8	6	19.4	26	63	132	869
Sunday	854	9.9	5	16.1	21	42	97	689
Total	8,591	100.0	31	100.0	124	415	1,017	7,004

2016 Day of Week and Severity
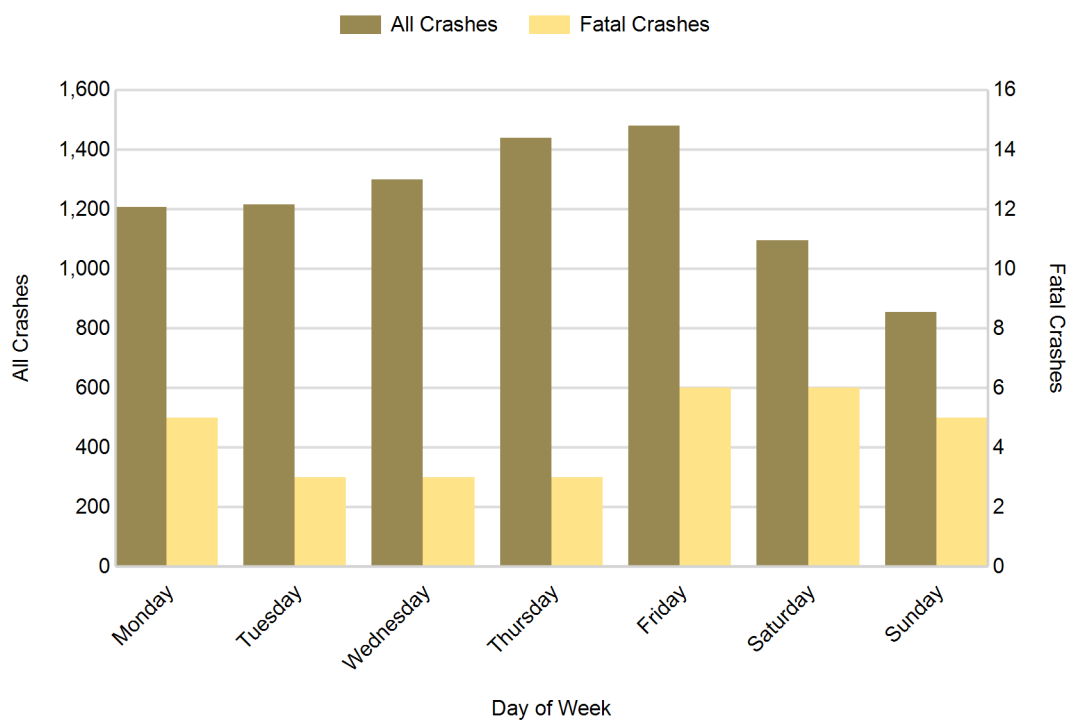
5-Year Trend - Crashes by Weekday and Weekend

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	5,845	18	6,285	23	6,601	11	6,350	16	6,641	20
Weekend	1,702	7	1,743	10	1,695	1	1,900	9	1,950	11
Total	**7,547**	**25**	**8,028**	**33**	**8,296**	**12**	**8,250**	**25**	**8,591**	**31**

5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)
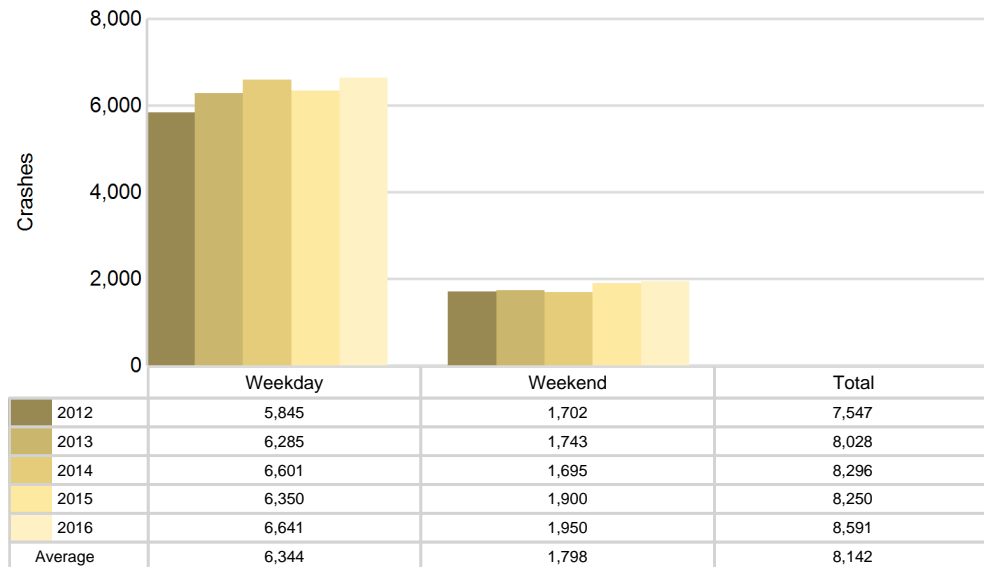
	Weekday	Weekend	Total
2012	5,845	1,702	7,547
2013	6,285	1,743	8,028
2014	6,601	1,695	8,296
2015	6,350	1,900	8,250
2016	6,641	1,950	8,591
Average	6,344	1,798	8,142

Kalamazoo County (continued)

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	367	2	412	4	408	1	436	4	388	4
3:00 AM - 5:59 AM	242	1	350	4	298	0	302	3	339	2
6:00 AM - 8:59 AM	933	2	1,052	2	1,073	3	1,016	1	1,098	2
9:00 AM - 11:59 AM	957	3	1,093	6	1,110	2	1,094	2	1,190	1
Noon - 2:59 PM	1,368	6	1,428	1	1,504	2	1,376	2	1,605	6
3:00 PM - 5:59 PM	1,832 †	6	1,903 †	7	2,086 †	3	2,023 †	6	2,081 †	7
6:00 PM - 8:59 PM	1,194	3	1,102	4	1,166	0	1,297	3	1,201	7
9:00 PM - 11:59 PM	648	2	684	5	645	1	704	4	687	2
Unknown	6	0	4	0	6	0	2	0	2	0
Total	**7,547**	**25**	**8,028**	**33**	**8,296**	**12**	**8,250**	**25**	**8,591**	**31**

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

5-Year Trend
Crashes by Time of Day

	Midnight - 2:59 AM	3:00 AM - 5:59 AM	6:00 AM - 8:59 AM	9:00 AM - 11:59 AM	Noon - 2:59 PM	3:00 PM - 5:59 PM	6:00 PM - 8:59 PM	9:00 PM - 11:59 PM	Unknown	Total
2012	367	242	933	957	1,368	1,832	1,194	648	6	7,547
2013	412	350	1,052	1,093	1,428	1,903	1,102	684	4	8,028
2014	408	298	1,073	1,110	1,504	2,086	1,166	645	6	8,296
2015	436	302	1,016	1,094	1,376	2,023	1,297	704	2	8,250
2016	388	339	1,098	1,190	1,605	2,081	1,201	687	2	8,591
Average	402	306	1,034	1,089	1,456	1,985	1,192	674	4	8,142

5-Year Trend
Fatal Crashes by Time of Day

	Midnight - 2:59 AM	3:00 AM - 5:59 AM	6:00 AM - 8:59 AM	9:00 AM - 11:59 AM	Noon - 2:59 PM	3:00 PM - 5:59 PM	6:00 PM - 8:59 PM	9:00 PM - 11:59 PM	Unknown	Total
2012	2	1	2	3	6	6	3	2	0	25
2013	4	4	2	6	1	7	4	5	0	33
2014	1	0	3	2	2	3	0	1	0	12
2015	4	3	1	2	2	6	3	4	0	25
2016	4	2	2	1	6	7	7	2	0	31
Average	3	2	2	3	3	6	3	3	0	25

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	388	4.5	4	12.9	6	24	32	322
3:00 AM - 5:59 AM	339	3.9	2	6.5	8	22	26	281
6:00 AM - 8:59 AM	1,098	12.8	2	6.5	14	34	129	919
9:00 AM - 11:59 AM	1,190	13.9	1	3.2	13	73	150	953
Noon - 2:59 PM	1,605	18.7	6	19.4	15	66	201	1,317
3:00 PM - 5:59 PM	2,081	24.2	7	22.6	29	112	262	1,671
6:00 PM - 8:59 PM	1,201	14.0	7	22.6	25	47	128	994
9:00 PM - 11:59 PM	687	8.0	2	6.5	14	37	89	545
Unknown	2	0.0	0	0.0	0	0	0	2
Total	**8,591**	**100.0**	**31**	**100.0**	**124**	**415**	**1,017**	**7,004**
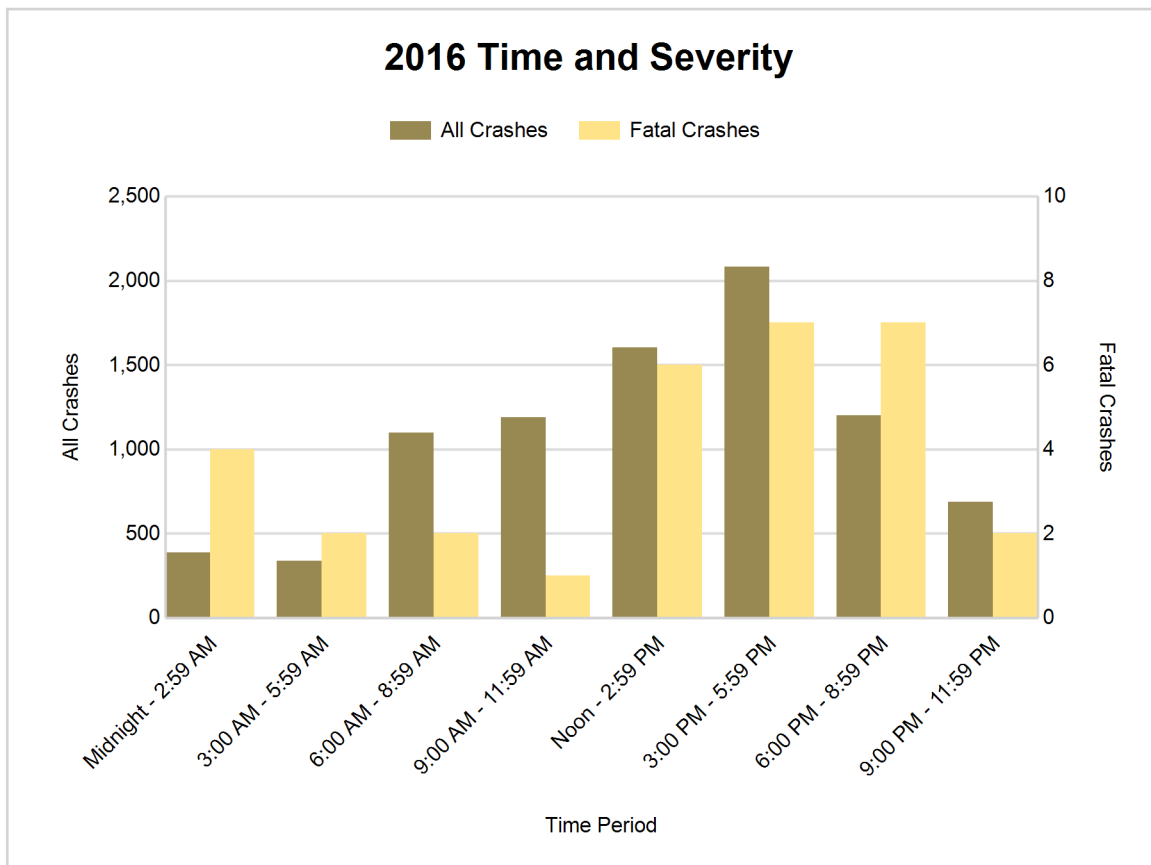
2016 Time and Severity

Kalamazoo County (continued)

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	66	0	78	0	59	0	72	1	67	0
3:00 AM - 5:59 AM	72	0	115	1	83	0	93	0	70	0
6:00 AM - 8:59 AM	245	0	233	0	181	0	199	0	184	0
9:00 AM - 11:59 AM	43	0	40	0	41	0	42	0	36	0
Noon - 2:59 PM	31	0	35	0	28	0	33	0	39	0
3:00 PM - 5:59 PM	76	0	88	0	72	0	62	1	64	0
6:00 PM - 8:59 PM	237	0	234	1	220	0	250	0	222	0
9:00 PM - 11:59 PM	163	0	166	0	153	0	166	0	124	0
Unknown	0	0	0	0	0	0	0	0	0	0
Total	**933**	**0**	**989**	**2**	**837**	**0**	**917**	**2**	**806**	**0**

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

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

	Midnight - 2:59 AM	3:00 AM - 5:59 AM	6:00 AM - 8:59 AM	9:00 AM - 11:59 AM	Noon - 2:59 PM	3:00 PM - 5:59 PM	6:00 PM - 8:59 PM	9:00 PM - 11:59 PM	Unknown	Total
2012	66	72	245	43	31	76	237	163	0	933
2013	78	115	233	40	35	88	234	166	0	989
2014	59	83	181	41	28	72	220	153	0	837
2015	72	93	199	42	33	62	250	166	0	917
2016	67	70	184	36	39	64	222	124	0	806
Average	68	87	208	40	33	72	233	154	0	896
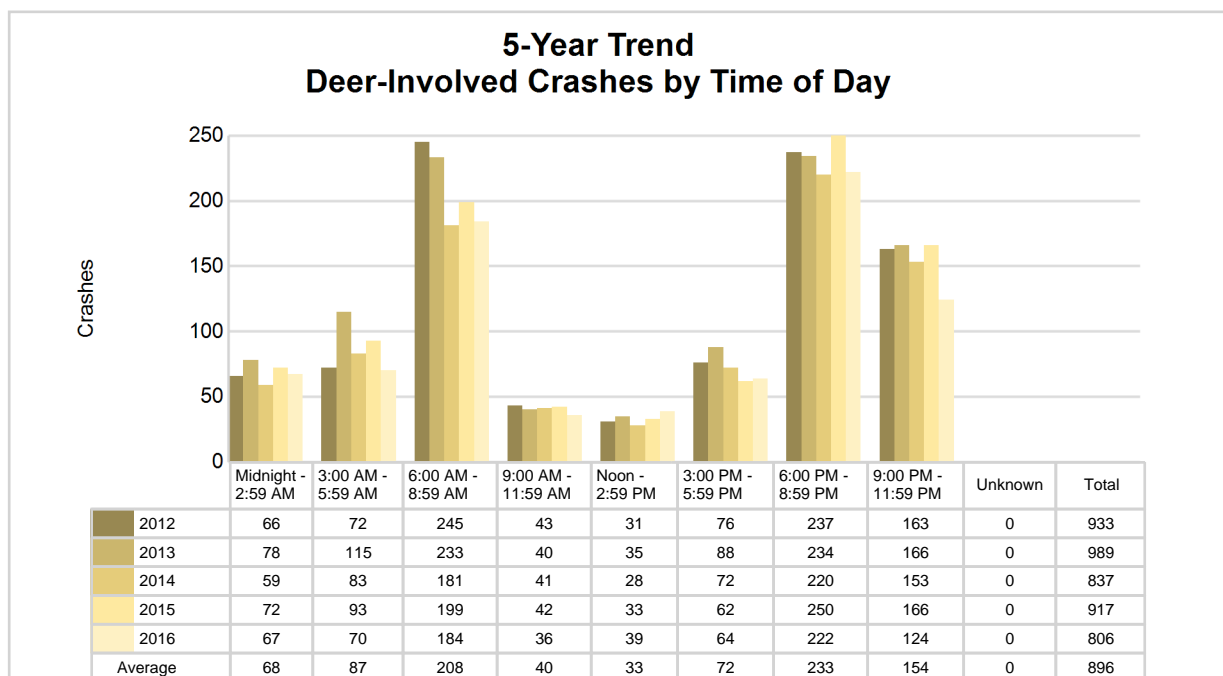
2016 Time and Severity of Deer-Involved Crashes

Legend: All Crashes, Fatal Crashes
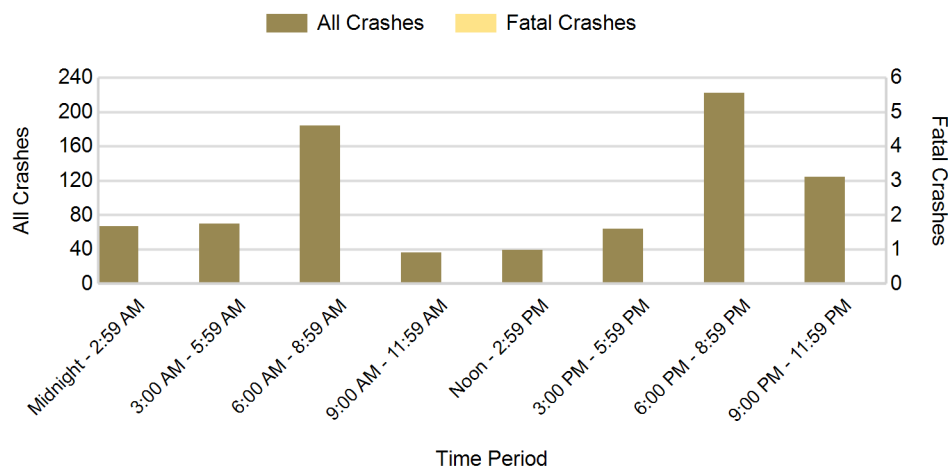
There were no fatal deer-involved crashes in Kalamazoo County in 2016

2016 - Reported Motor Vehicle Crashes by Municipality

Municipality	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Alamo Twp.	141	0	26	115	0	64	0	77	7	4	48	0	37
Augusta	15	0	3	12	0	0	7	8	2	0	0	0	4
Brady Twp.	65	0	10	55	0	0	0	65	1	0	23	0	11
Charleston Twp.	188	2	43	143	121	0	23	42	1	1	28	2	56
Climax	7	0	0	7	0	0	0	7	0	0	0	0	0
Climax Twp.	38	0	1	37	0	0	0	38	6	1	22	0	1
Comstock Twp.	511	2	127	382	143	0	158	210	17	3	39	2	169
Cooper Twp.	170	1	27	142	0	0	0	170	10	2	53	5	41
Galesburg	39	0	10	29	0	0	20	19	0	0	3	0	12
Kalamazoo	3,466	6	588	2,872	667	152	791	1,853	135	22	62	6	781
Kalamazoo Twp.	457	4	99	354	13	19	182	243	19	1	21	4	137
Oshtemo Twp.	776	3	136	637	39	132	185	419	18	4	56	3	194
Parchment	31	0	6	25	0	0	0	31	2	0	0	0	6
Pavilion Twp.	76	0	12	64	0	0	0	76	3	0	29	0	14
Portage	1,542	4	257	1,281	251	67	4	1,219	37	7	163	4	334
Prairie Ronde Twp.	59	0	5	54	0	0	0	59	1	0	29	0	7
Richland	24	0	1	23	0	0	20	4	0	0	0	0	1
Richland Twp.	211	4	45	162	0	0	77	132	11	1	63	4	68
Ross Twp.	124	0	33	91	0	0	45	79	3	3	49	0	48
Schoolcraft	69	0	14	55	0	55	0	14	1	0	1	0	16
Schoolcraft Twp.	145	2	30	113	0	57	0	88	5	0	37	2	48
Texas Twp.	350	3	74	273	98	0	0	252	7	4	51	3	98
Vicksburg	41	0	2	39	0	0	0	41	0	0	3	0	4
Wakeshma Twp.	46	0	7	39	0	0	0	46	4	0	26	0	10
Unknown Community	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	**8,591**	**31**	**1,556**	**7,004**	**1,332**	**546**	**1,512**	**5,192**	**290**	**53**	**806**	**35**	**2,097**

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	20	0	22	0	21	0	16	0	25	0
16 - 20	1,762	31	1,829	35	1,786	22	1,787	13	1,878	12
21 - 24	1,750	78	1,830	75	1,905	57	1,845	61	1,939	77
25 - 64	7,472	186	8,031	183	8,536	183	8,676	192	8,675	192
65 +	1,131	3	1,155	5	1,257	10	1,215	9	1,398	6
Unknown	1,026	0	1,035	6	1,198	4	1,213	1	1,327	0
Total	13,161	298	13,902	304	14,703	276	14,752	276	15,242	287

5-Year Trend
Total Drivers in Crashes by Age

	0 - 15	16 - 20	21 - 24	25 - 64	65 +	Unknown	Total
2012	20	1,762	1,750	7,472	1,131	1,026	13,161
2013	22	1,829	1,830	8,031	1,155	1,035	13,902
2014	21	1,786	1,905	8,536	1,257	1,198	14,703
2015	16	1,787	1,845	8,676	1,215	1,213	14,752
2016	25	1,878	1,939	8,675	1,398	1,327	15,242
Average	21	1,808	1,854	8,278	1,231	1,160	14,352

5-Year Trend
Total Drivers Coded Drinking by Age

	0 - 15	16 - 20	21 - 24	25 - 64	65 +	Unknown	Total
2012	0	31	78	186	3	0	298
2013	0	35	75	183	5	6	304
2014	0	22	57	183	10	4	276
2015	0	13	61	192	9	1	276
2016	0	12	77	192	6	0	287
Average	0	23	70	187	7	2	288

Kalamazoo County (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	0	0	0	0	0	0	0	0	0
16 - 20	20	32	11	12	0	1	6	1	4
21 - 24	97	81	71	77	0	7	29	28	13
25 - 64	256	200	161	192	1	10	53	59	69
65 +	18	12	6	6	0	2	3	1	0
Unknown	23	4	0	0	0	0	0	0	0
Total	414	329	249	287	1	20	91	89	86

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.

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	7,547	307	4.1	25	6	24.0	114	20	17.5	308	40	13.0
2013	8,028	315	3.9	33	9	27.3	107	21	19.6	314	39	12.4
2014	8,296	282	3.4	12	1	8.3	123	22	17.9	335	38	11.3
2015	8,250	285	3.5	25	10	40.0	104	20	19.2	337	29	8.6
2016	8,591**	290	3.4	31	6	19.4	124**	21	16.9*	415**	36	8.7

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

Note: Had-Been-Drinking (HBD)

Kalamazoo County (continued)
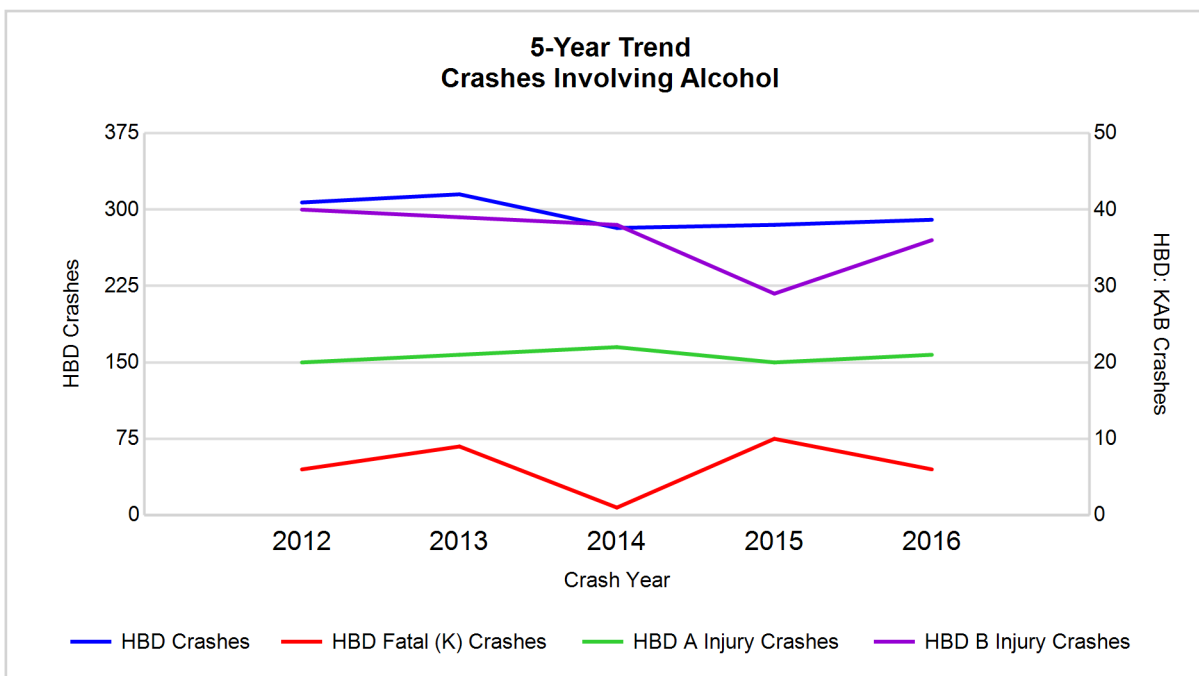
5-Year Trend - Crashes Involving Drugs

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	7,547	53	0.7	25	5	20.0	114	8	7.0	308	7	2.3
2013	8,028	57	0.7	33	7	21.2	107	4	3.7	314	9	2.9
2014	8,296	53	0.6	12	3	25.0	123	3	2.4	335	6	1.8
2015	8,250	53	0.6	25	8	32.0	104	2	1.9	337	3	0.9
2016	8,591**	53	0.6	31	6	19.4*	124**	6	4.8	415**	5	1.2

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
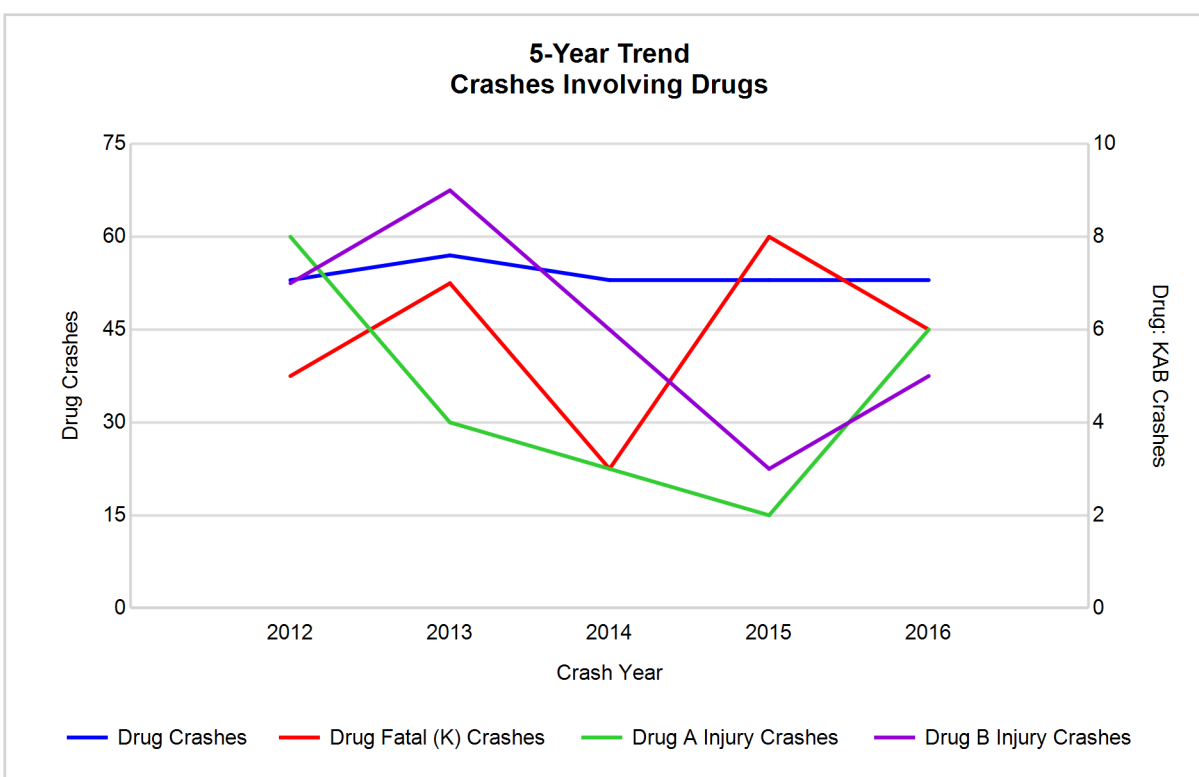

5-Year Trend Crashes Involving Drugs

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	7,547	332	4.4	25	8	32.0	114	25	21.9	308	42	13.6
2013	8,028	344	4.3	33	13	39.4	107	23	21.5	314	44	14.0
2014	8,296	313	3.8	12	3	25.0	123	23	18.7	335	42	12.5
2015	8,250	310	3.8	25	13	52.0	104	21	20.2	337	31	9.2
2016	8,591**	322	3.7*	31	10	32.3	124**	26**	21.0	415**	38	9.2

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
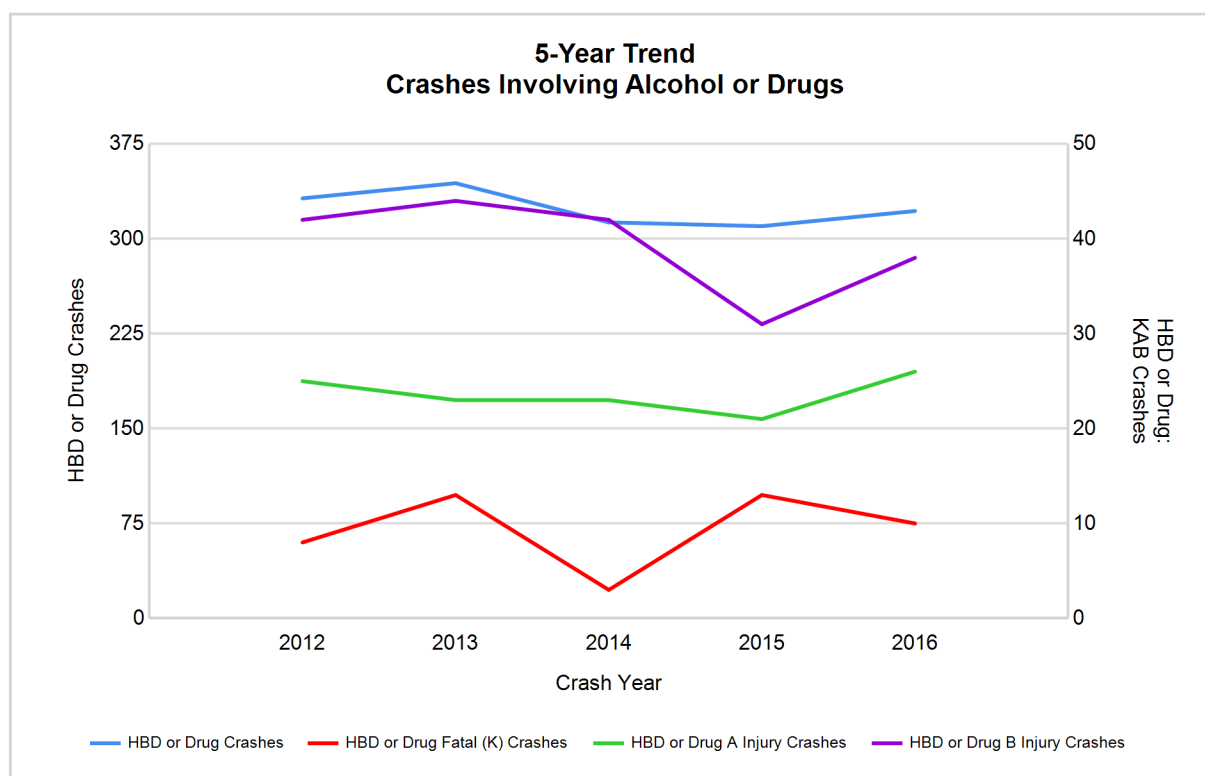

Note: Had-Been-Drinking (HBD)

2016 - Restraints Worn Among Vehicle Drivers and Injured Passengers by Vehicle Type

Vehicle Type	Total Occupants Total	Used Restraint	%	Fatalities Total	Used Restraint	%	A - Suspected Serious Total	Used Restraint	%	B - Suspected Minor Total	Used Restraint	%	C - Possible Injury Total	Used Restraint	%	No Injury Total	Used Restraint	%
Passenger car, SUV, van	13,187	11,606	88.0	16	11	68.8	105	85	81.0	372	335	90.1	1,235	1,159	93.8	10,687	10,014	93.7
Motor home	158	134	84.8	0	0	0.0	0	0	0.0	3	2	66.7	18	17	94.4	123	115	93.5
Pickup truck	1,338	1,165	87.1	3	0	0.0	6	3	50.0	34	30	88.2	85	77	90.6	1,109	1,054	95.0
Small truck under 10,000 lbs. GVWR	116	102	87.9	1	0	0.0	1	1	100.0	2	2	100.0	5	5	100.0	99	94	94.9
Motorcycle	97	50	51.5	4	3	75.0	22	9	40.9	26	15	57.7	14	10	71.4	22	13	59.1
Moped / goped	10	2	20.0	0	0	0.0	3	0	0.0	4	0	0.0	2	2	100.0	1	0	0.0
Go-cart / golf cart	3	1	33.3	0	0	0.0	1	0	0.0	0	0	0.0	1	0	0.0	1	1	100.0
Snowmobile	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	4	0	0.0	0	0	0.0	0	0	0.0	1	0	0.0	0	0	0.0	2	0	0.0
Other	64	42	65.6	0	0	0.0	0	0	0.0	1	0	0.0	1	0	0.0	51	42	82.4
Truck/bus over 10,000 lbs.	389	331	85.1	1	1	100.0	1	1	100.0	6	3	50.0	25	12	48.0	346	314	90.8
Unknown	396	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Total	**15,762**	**13,433**	**85.2**	**25**	**15**	**0.0**	**139**	**99**	**71.2**	**449**	**387**	**86.2**	**1,386**	**1,282**	**92.5**	**12,441**	**11,647**	**93.6**

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 Total	Used Restraint	%	Fatalities Total	Used Restraint	%	A - Suspected Serious Total	Used Restraint	%	B - Suspected Minor Total	Used Restraint	%	C - Possible Injury Total	Used Restraint	%	No Injury Total	Used Restraint	%
0 - 15	167	137	82.0	1	0	0.0	2	1	50.0	38	30	78.9	106	89	84.0	20	17	85.0
16 - 20	1,958	1,840	94.0	5	4	80.0	26	19	73.1	67	61	91.0	182	175	96.2	1,674	1,581	94.4
21 - 24	1,989	1,832	92.1	1	1	100.0	22	16	72.7	60	50	83.3	157	144	91.7	1,745	1,621	92.9
25 - 64	8,880	8,238	92.8	13	7	53.8	72	49	68.1	229	193	84.3	826	760	92.0	7,721	7,229	93.6
65 +	1,441	1,375	95.4	5	3	60.0	17	14	82.4	55	53	96.4	115	114	99.1	1,247	1,191	95.5
Unknown	1,327	11	0.8	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	34	8	23.5
Total	**15,762**	**13,433**	**85.2**	**25**	**15**	**0.0**	**139**	**99**	**71.2**	**449**	**387**	**86.2**	**1,386**	**1,282**	**92.5**	**12,441**	**11,647**	**93.6**

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	59	1	6	49	0	4	52	0	11	56	1	9	30	0	4
Shoulder belt only used	45	0	0	51	0	7	186	0	6	95	0	6	102	0	9
Lap belt only used	49	0	5	43	0	1	46	0	6	85	0	7	67	0	12
Both lap & shoulder belts used	11,481	8	1,031	12,147	9	1,143	12,600	5	1,139	12,634	5	1,105	12,777	10	1,282
No belts used	73	1	30	75	5	27	80	4	27	62	5	16	73	5	20
Child restraint used	0	0	0	0	0	0	1	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	8	0	0	0	0	0	2	0	0	4	0	0	3	0	0
Restraint use unknown	387	3	31	487	5	50	535	0	39	584	3	55	1,806	3	69
Helmet worn	86	5	64	80	2	54	64	1	43	60	2	47	47	3	31
Helmet not worn	46	1	36	29	2	22	38	0	31	35	3	22	46	1	28
Helmet use unknown	5	0	2	4	0	2	4	0	2	10	0	3	2	0	2
Uncoded & errors	922	0	1	937	0	0	1,095	0	3	1,127	0	1	288	0	0
Total	13,161	19	1,206	13,902	23	1,310	14,703	10	1,307	14,752	19	1,271	15,242	22	1,457

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	3	1	1	1	0	0	1	0	0	2	1	0	0	0	0
Shoulder belt only used	4	0	0	4	0	0	1	0	0	1	0	1	6	0	0
Lap belt only used	1	0	0	1	0	1	1	0	1	2	0	0	0	0	0
Both lap & shoulder belts used	229	2	53	203	1	54	196	0	43	185	1	33	211	1	51
No belts used	13	0	9	17	3	11	19	1	12	10	3	5	7	2	4
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	0	0	0	0	0	0	0	0	0	0	0	0
Restraint failure	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Restraint use unknown	34	0	8	67	2	15	44	0	10	64	0	13	53	0	11
Helmet worn	5	1	4	3	0	2	6	0	6	5	2	3	3	0	3
Helmet not worn	8	0	7	3	1	2	6	0	6	6	1	5	7	0	4
Helmet use unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uncoded & errors	0	0	0	5	0	0	2	0	0	1	0	0	0	0	0
Total	298	4	82	304	7	85	276	1	78	276	8	60	287	3	73

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	1	0	0	4	0	0	2	0	0	1	0	0	0	0	0
16 - 20	22	1	7	15	0	4	16	2	3	9	0	1	14	1	2
21 - 24	22	0	9	19	0	7	13	2	1	13	0	7	9	0	1
25 - 64	72	1	20	74	4	19	87	0	30	75	4	14	71	3	21
65 +	7	0	0	8	1	1	8	0	4	13	2	3	8	1	0
Unknown	8	0	0	4	0	0	6	0	0	7	0	0	1	0	0
Total	132	2	36	124	5	31	132	4	38	118	6	25	103	5	24

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

**5-Year Trend
Driver Seatbelt Not Used**

	0 - 15	16 - 20	21 - 24	25 - 64	65 +	Unknown	Total
2012	1	22	22	72	7	8	132
2013	4	15	19	74	8	4	124
2014	2	16	13	87	8	6	132
2015	1	9	13	75	13	7	118
2016	0	14	9	71	8	1	103
Average	2	15	15	76	9	5	122

Kalamazoo County (continued)
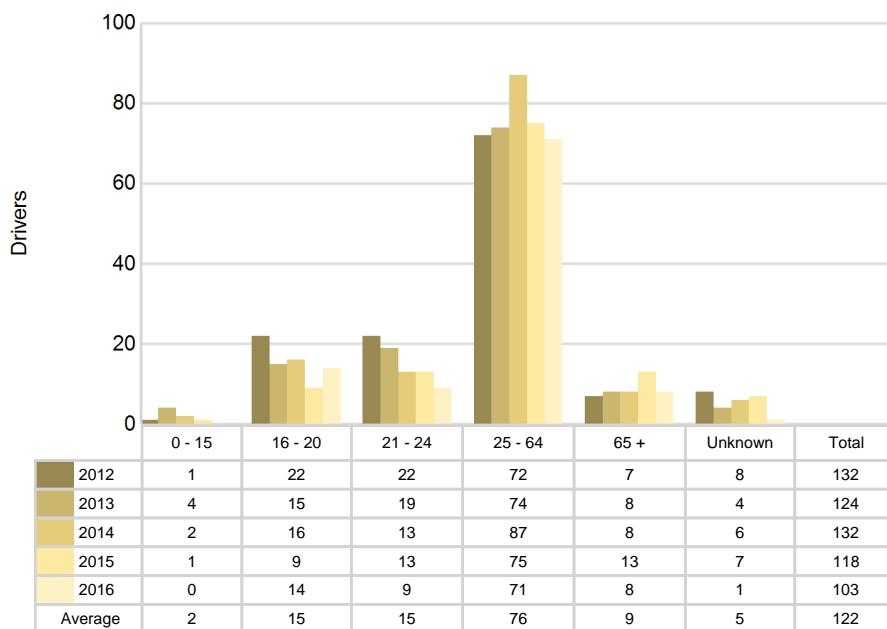
5-Year Trend - Seatbelt Used Among Drivers by Age

| 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	15	0	0	13	0	0	16	0	1	12	0	0	19	0	2
16 - 20	1,690	0	121	1,737	1	145	1,689	0	153	1,706	1	145	1,768	2	185
21 - 24	1,650	2	139	1,735	1	140	1,803	1	132	1,744	0	131	1,792	0	171
25 - 64	7,104	4	650	7,615	4	726	8,098	3	745	8,175	4	707	8,026	5	806
65 +	1,104	2	125	1,117	3	140	1,209	1	120	1,165	0	135	1,333	3	139
Unknown	20	0	1	24	0	0	19	0	0	16	0	0	11	0	0
Total	**11,583**	**8**	**1,036**	**12,241**	**9**	**1,151**	**12,834**	**5**	**1,151**	**12,818**	**5**	**1,118**	**12,949**	**10**	**1,303**

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

	0 - 15	16 - 20	21 - 24	25 - 64	65 +	Unknown	Total
2012	15	1,690	1,650	7,104	1,104	20	11,583
2013	13	1,737	1,735	7,615	1,117	24	12,241
2014	16	1,689	1,803	8,098	1,209	19	12,834
2015	12	1,706	1,744	8,175	1,165	16	12,818
2016	19	1,768	1,792	8,026	1,333	11	12,949
Average	15	1,718	1,745	7,804	1,186	18	12,485

Kalamazoo County (continued)
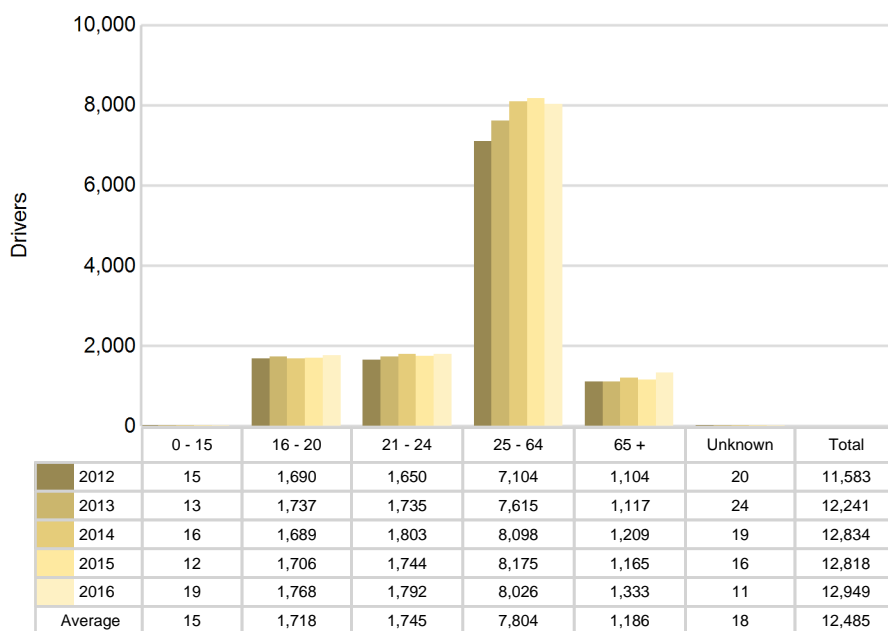
5-Year Trend - Drivers in Crashes by Hazardous Action

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	7,019	20	7,383	19	7,824	12	7,957	45	7,790	18
Speed too fast	842	1	980	10	1,040	4	927	23	958	7
Speed too slow	12	0	18	0	16	0	11	0	14	0
Failed to yield	1,033	4	1,106	3	1,193	3	1,228	2	1,311	2
Disregard traffic control	354	2	367	1	394	1	399	1	404	3
Drove wrong way	11	0	10	0	13	0	19	0	10	0
Drove left of center	61	4	55	3	62	0	54	0	57	1
Improper passing	51	0	66	0	65	1	59	0	78	1
Improper lane use	350	0	312	0	399	0	367	1	376	0
Improper turn	218	1	210	0	207	1	224	0	214	0
Improper/no signal	27	0	24	0	15	0	23	0	14	0
Improper backing	184	0	181	0	222	0	185	0	218	0
Unable to stop in assured clear distance	2,028	4	2,150	1	2,156	0	2,204	13	2,333	1
Other	472	3	527	0	582	0	578	1	568	3
Unknown	170	3	201	3	202	2	209	1	518	5
Reckless driving	68	2	54	1	50	0	57	2	85	4
Careless/negligent driving	260	3	258	2	263	0	249	4	290	1
Uncoded & errors	1	0	0	0	0	0	2	0	4	0
Total	**13,161**	**47**	**13,902**	**43**	**14,703**	**24**	**14,752**	**93**	**15,242**	**46**
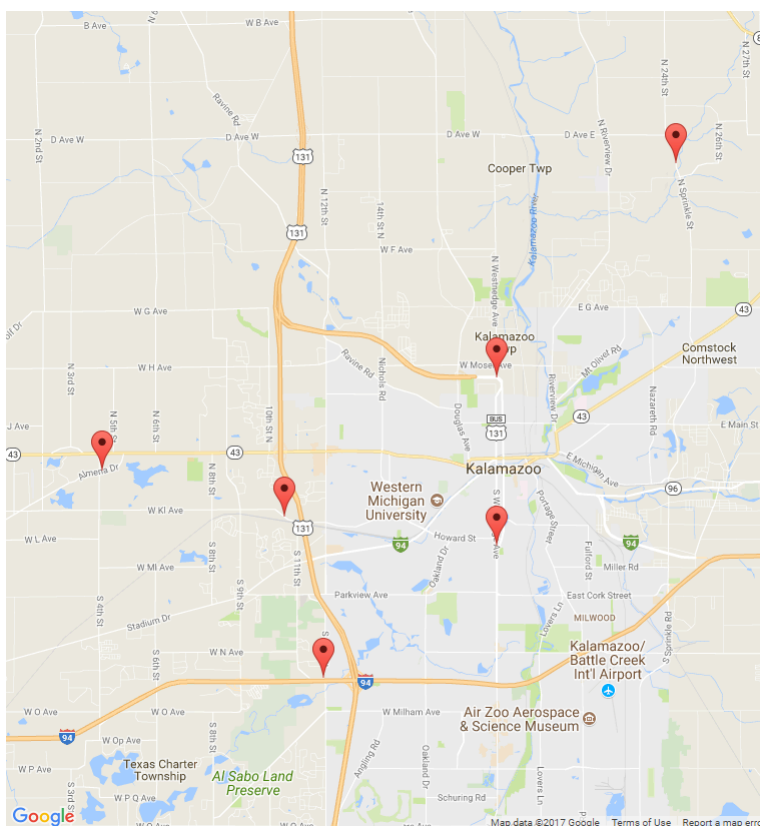
The picture above represents all 2016 alcohol-involved fatal crashes in Kalamazoo County.

In 2016, there were 290 alcohol-involved crashes in Kalamazoo County:

6   K - Fatal Crashes

21   A - Suspected Serious Injury Crashes

36   B - Suspected Minor Injury Crashes

52   C - Possible Injury Crashes

175   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

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