



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)



Kalkaska County

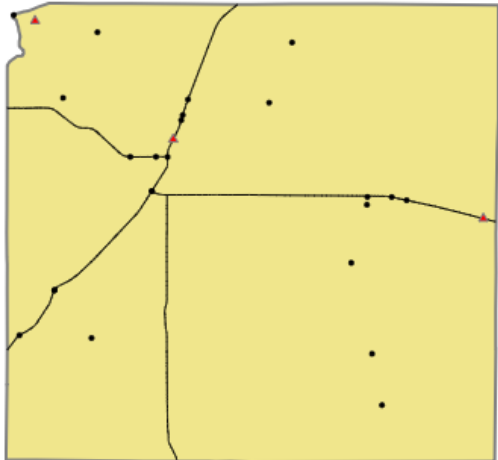
2017 Traffic Crash Data & 2013-2017 5-Year Trends



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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Crashes by most severe injury (mapped/actual)

- ▲ K - Fatal (3/3)
- A - Suspected Serious (24/24)

Kalkaska County

In 2017:

There were 762 drivers involved in 559 motor vehicle crashes in Kalkaska County. Of those crashes, 3 were classified as fatal, resulting in 3 fatalities. An additional 148 persons were injured.

Kalkaska County experienced the highest number of motor vehicle crashes (94) in November, the highest number of fatal crashes (1) and the highest number of persons killed (1) in July, October, and December.

Michigan driver statistics indicate 5.4 percent of licensed drivers in Kalkaska County were age 16-20, and 8.5 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	44	0	7	37	0	10
February	43	0	10	33	0	14
March	36	0	10	26	0	17
April	32	0	5	27	0	6
May	34	0	3	31	0	3
June	32	0	11	21	0	15
July	40	1	4	35	1	6
August	35	0	8	27	0	12
September	43	0	16	27	0	22
October	55	1	7	47	1	14
November	94	0	11	83	0	13
December	71	1	10	60	1	16
Total	559	3	102	454	3	148

2017 - Driver Statistics

Age Group	Kalkaska County			Driver Rates	
	2017 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	3,248	62	2	6.2	322.6
16 - 20	916	750	65	709.6	866.7
21 - 24	750	744	58	773.3	779.6
25 - 64	9,164	8,931	516	563.1	577.8
65 +	3,556	3,500	109	306.5	311.4
Unknown	0	0	12	--	--
Total	17,634	13,987	762	432.1	544.8

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	515	67.6	2	50.0	102	411
Motor home	2	0.3	0	0.0	0	2
Pickup truck	187	24.5	1	25.0	30	156
Small truck under 10,000 lbs. GVWR	9	1.2	0	0.0	3	6
Motorcycle	8	1.0	0	0.0	5	3
Moped / goped	0	0.0	0	0.0	0	0
Go-cart / golf cart	1	0.1	0	0.0	1	0
Snowmobile	4	0.5	0	0.0	4	0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	8	1.0	0	0.0	6	2
Other	3	0.4	0	0.0	1	2
Truck/bus over 10,000 lbs.	22	2.9	1	25.0	7	14
Unknown	3	0.4	0	0.0	0	3
Total	762	100.0	4	100.0	159	599

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	69	0	72	0	77	1	50	3	44	0
February	51	0	34	0	48	1	37	0	43	0
March	45	0	53	0	22	0	16	0	36	0
April	57	2	40	1	31	0	26	0	32	0
May	35	0	37	0	35	0	18	0	34	0
June	38	0	42	0	45	0	29	0	32	0
July	43	2	34	0	35	0	39	0	40	1
August	35	0	35	0	29	0	33	1	35	0
September	39	1	29	0	41	0	21	0	43	0
October	37	0	49	0	42	0	29	0	55	1
November	104	1	109	0	63	1	55	0	94	0
December	94	0	69	0	29	0	50	0	71	1
Total	647	6	603	1	497	3	403	4	559	3

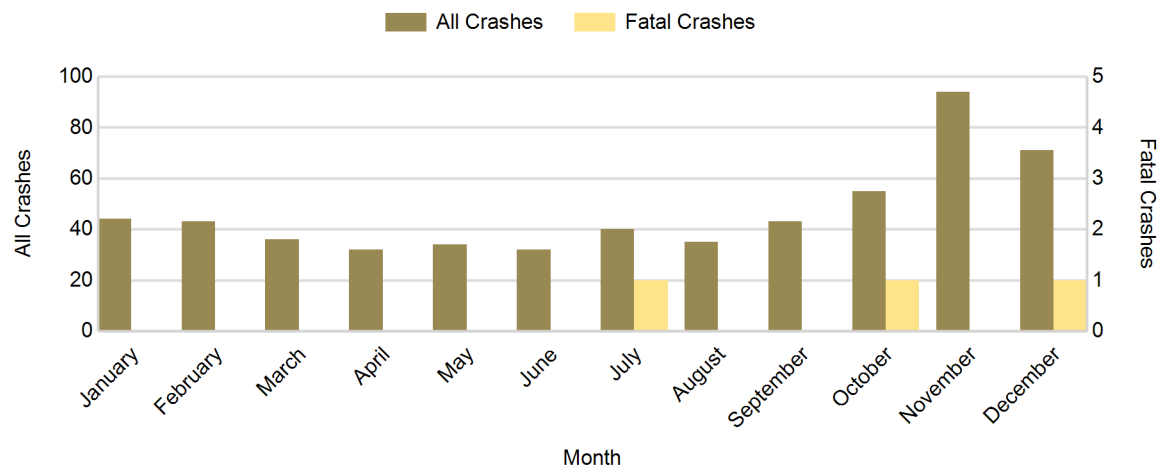
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

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	100	2	80	0	75	1	55	0	61	0
Tuesday	83	2	94	0	69	1	45	0	80	2
Wednesday	98	0	93	0	67	1	49	1	77	0
Thursday	101	0	70	1	69	0	57	0	100	0
Friday	77	1	115	0	80	0	69	1	95	1
Saturday	105	1	78	0	73	0	63	1	79	0
Sunday	83	0	73	0	64	0	65	1	67	0
Total	647	6	603	1	497	3	403	4	559	3

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

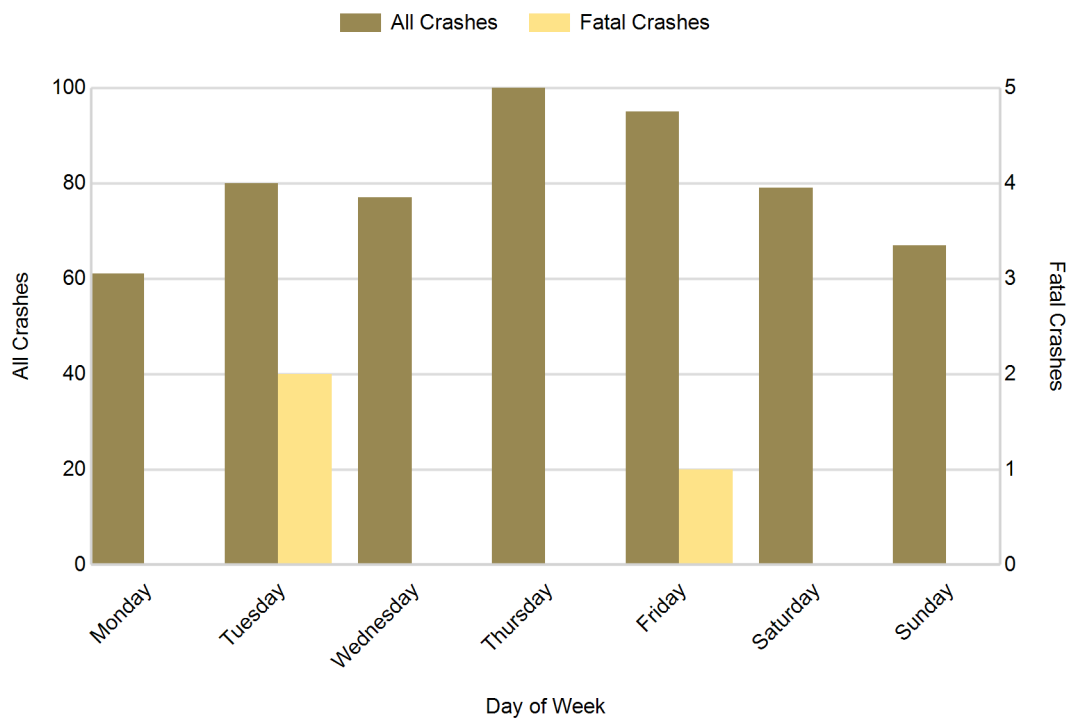
2017 Crashes by Month



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	61	10.9	0	0.0	1	1	3	56
Tuesday	80	14.3	2	66.7	4	4	11	59
Wednesday	77	13.8	0	0.0	3	5	7	62
Thursday	100	17.9	0	0.0	3	3	11	83
Friday	95	17.0	1	33.3	3	2	6	83
Saturday	79	14.1	0	0.0	6	6	7	60
Sunday	67	12.0	0	0.0	4	7	5	51
Total	559	100.0	3	100.0	24	28	50	454

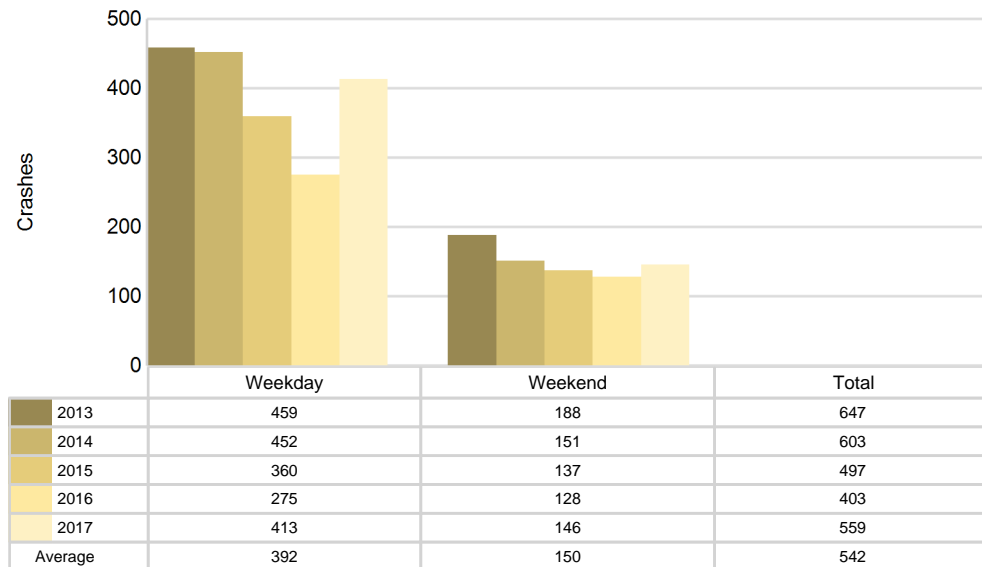
2017 Day of Week and Severity



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	459	5	452	1	360	3	275	2	413	3
Weekend	188	1	151	0	137	0	128	2	146	0
Total	647	6	603	1	497	3	403	4	559	3

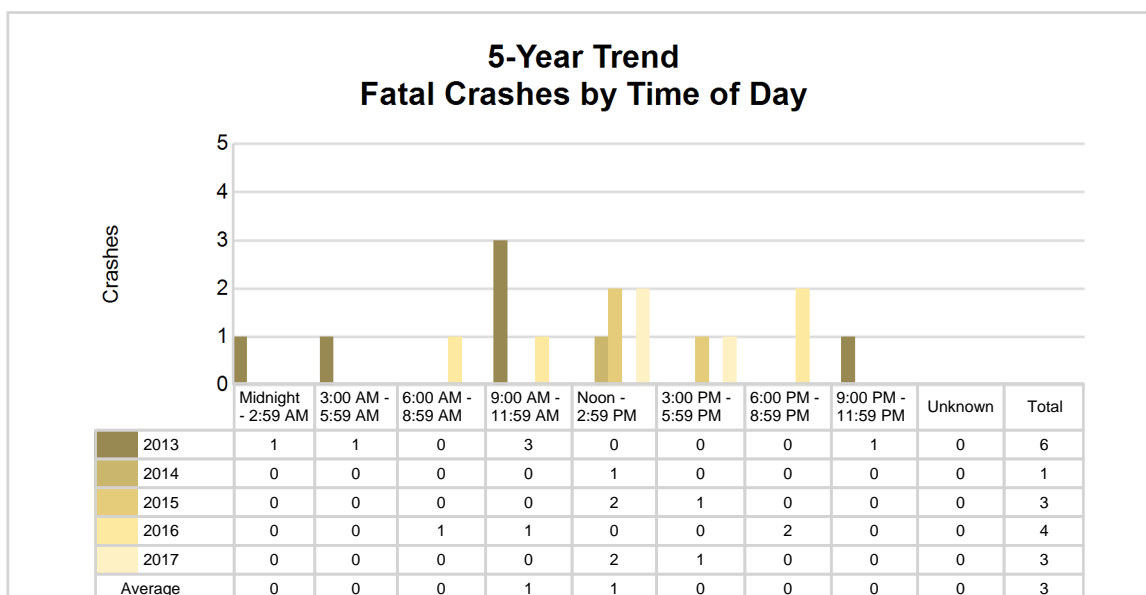
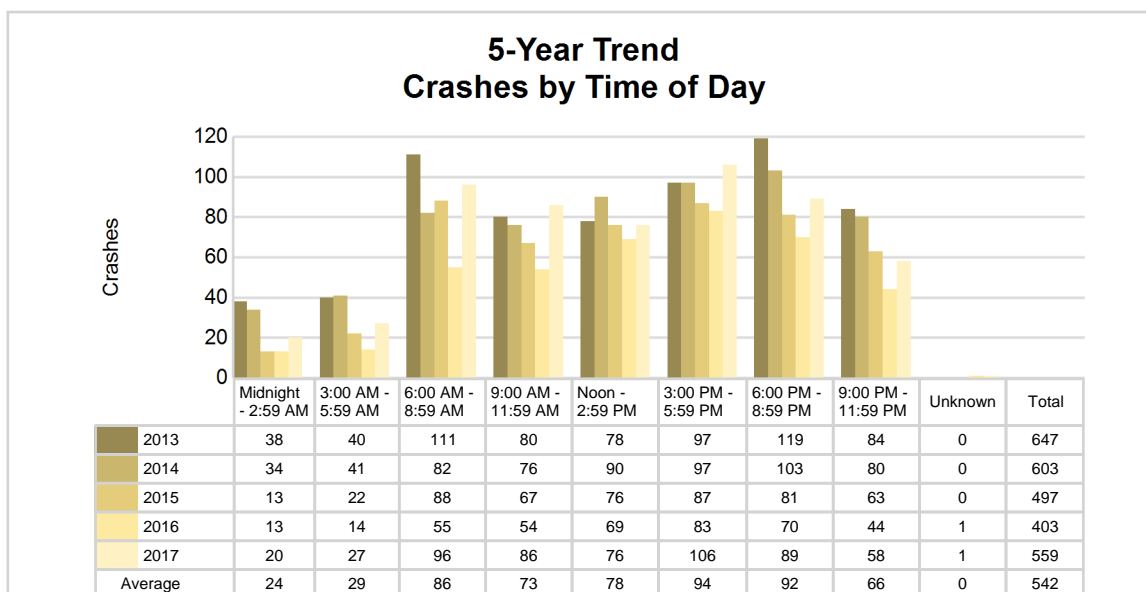
5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



5-Year Trend - Crashes by Time of Day

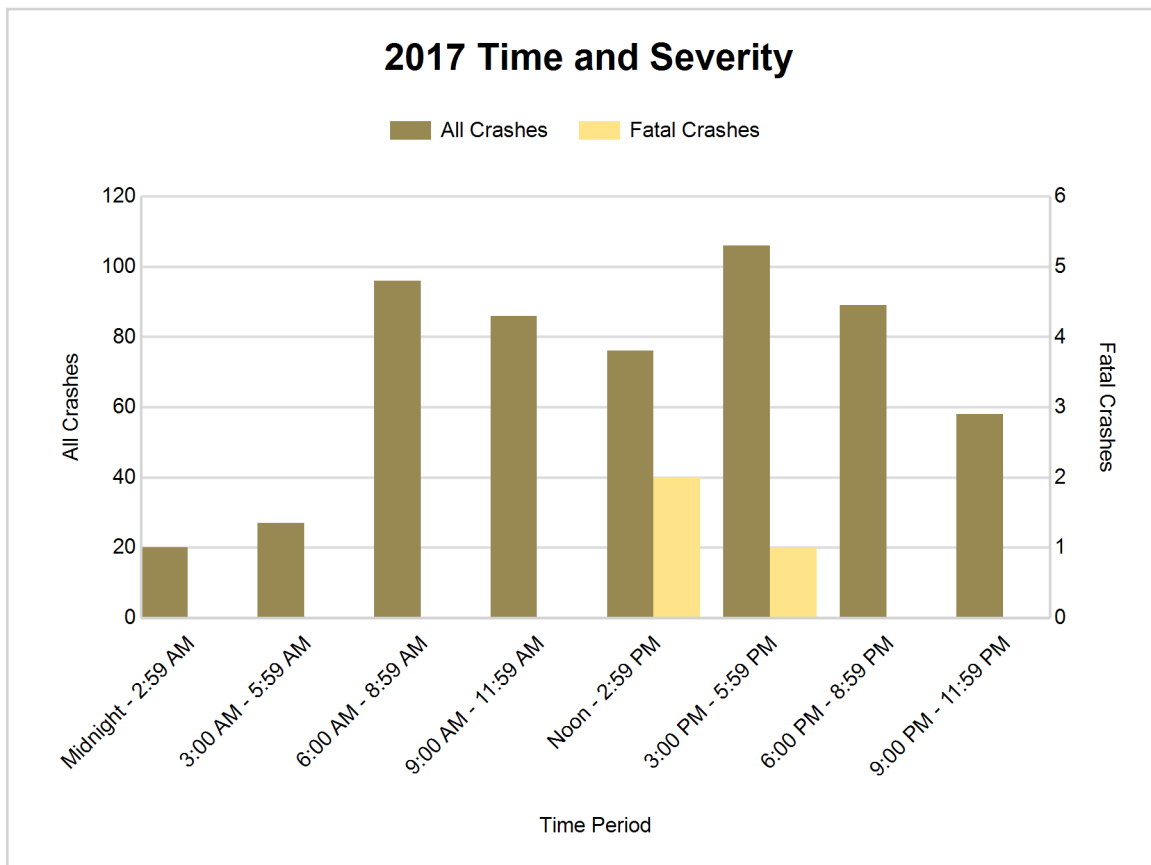
Time of Day	2013		2014		2015		2016		2017	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	38	1	34	0	13	0	13	0	20	0
3:00 AM - 5:59 AM	40	1	41	0	22	0	14	0	27	0
6:00 AM - 8:59 AM	111	0	82	0	88	0	55	1	96	0
9:00 AM - 11:59 AM	80	3	76	0	67	0	54	1	86	0
Noon - 2:59 PM	78	0	90	1	76	2	69	0	76	2
3:00 PM - 5:59 PM	97	0	97	0	87	1	83	0	106	1
6:00 PM - 8:59 PM	119	0	103	0	81	0	70	2	89	0
9:00 PM - 11:59 PM	84	1	80	0	63	0	44	0	58	0
Unknown	0	0	0	0	0	0	1	0	1	0
Total	647	6	603	1	497	3	403	4	559	3

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

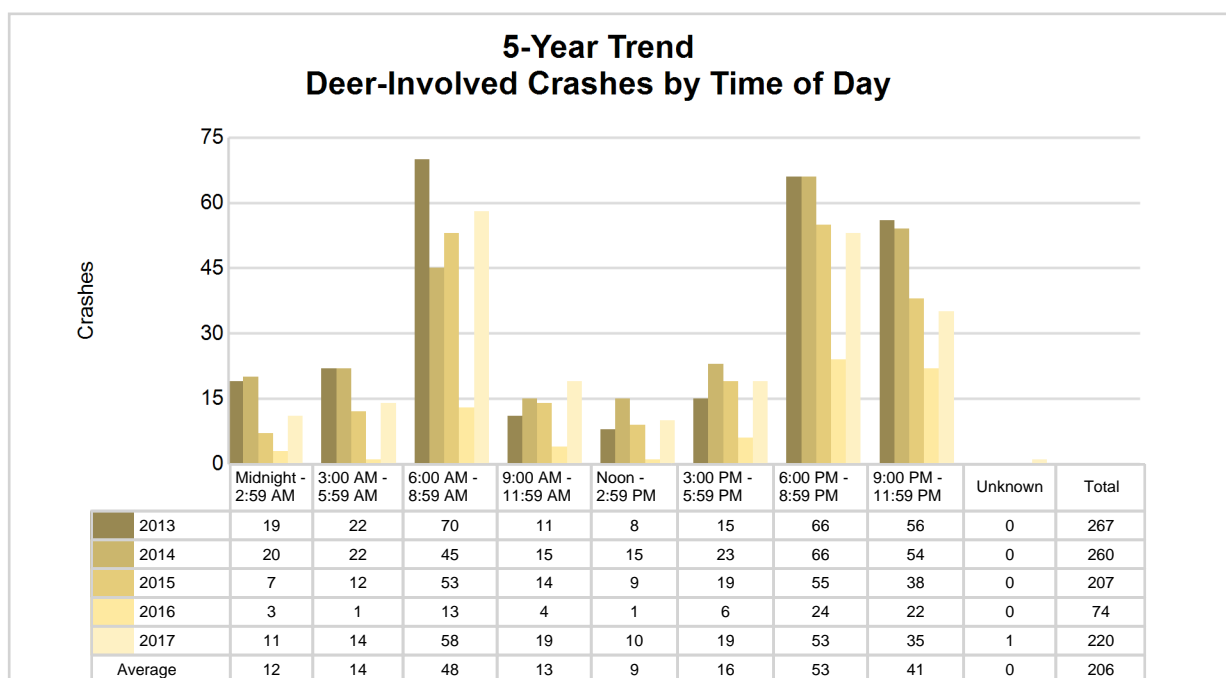
Time of Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Midnight - 2:59 AM	20	3.6	0	0.0	0	2	0	18
3:00 AM - 5:59 AM	27	4.8	0	0.0	1	3	3	20
6:00 AM - 8:59 AM	96	17.2	0	0.0	1	4	5	86
9:00 AM - 11:59 AM	86	15.4	0	0.0	4	3	8	71
Noon - 2:59 PM	76	13.6	2	66.7	7	2	8	57
3:00 PM - 5:59 PM	106	19.0	1	33.3	6	7	16	76
6:00 PM - 8:59 PM	89	15.9	0	0.0	3	1	3	82
9:00 PM - 11:59 PM	58	10.4	0	0.0	2	6	7	43
Unknown	1	0.2	0	0.0	0	0	0	1
Total	559	100.0	3	100.0	24	28	50	454



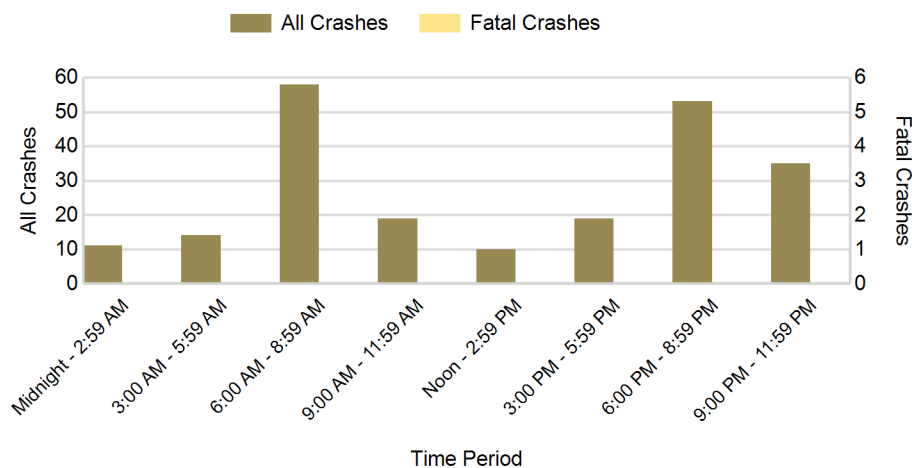
5-Year Trend - Deer-Involved Crashes by Time of Day

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	19	0	20	0	7	0	3	0	11	0
3:00 AM - 5:59 AM	22	0	22	0	12	0	1	0	14	0
6:00 AM - 8:59 AM	70	0	45	0	53	0	13	0	58	0
9:00 AM - 11:59 AM	11	0	15	0	14	0	4	0	19	0
Noon - 2:59 PM	8	0	15	0	9	0	1	0	10	0
3:00 PM - 5:59 PM	15	0	23	0	19	0	6	0	19	0
6:00 PM - 8:59 PM	66	0	66	0	55	0	24	0	53	0
9:00 PM - 11:59 PM	56	0	54	0	38	0	22	0	35	0
Unknown	0	0	0	0	0	0	0	0	1	0
Total	267	0	260	0	207	0	74	0	220	0

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 of Deer-Involved Crashes



There were no fatal deer-involved crashes in Kalkaska County in 2017

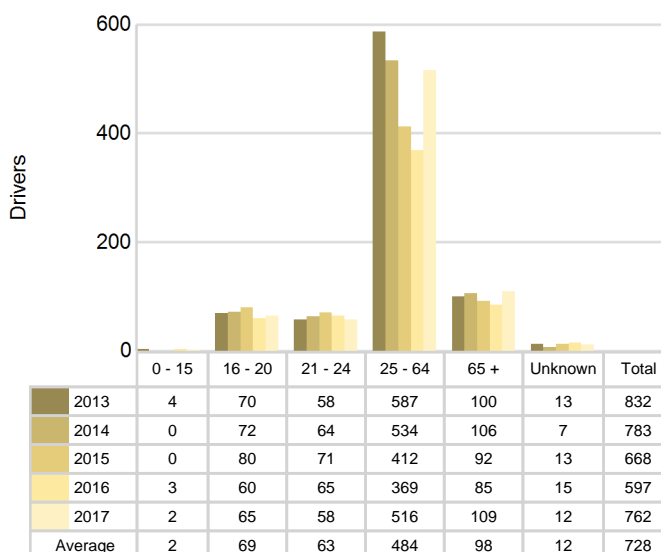
2017 - Reported Motor Vehicle Crashes by Municipality

Municipality	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Bear Lake Twp.	27	1	9	17	0	0	22	5	1	1	10	1	18
Blue Lake Twp.	4	0	1	3	0	0	0	4	1	0	0	0	1
Boardman Twp.	55	0	12	43	0	30	0	25	2	1	29	0	18
Clearwater Twp.	85	1	14	70	0	0	26	57	5	2	36	1	20
Coldsprings Twp.	22	0	6	16	0	0	0	21	1	0	7	0	8
Excelsior Twp.	39	0	6	33	0	0	21	18	1	0	21	0	7
Garfield Twp.	37	0	7	30	0	0	3	32	1	1	19	0	13
Kalkaska	77	0	14	63	0	45	14	18	1	0	2	0	17
Kalkaska Twp.	87	1	15	71	0	15	47	25	1	2	28	1	22
Oliver Twp.	5	0	1	4	0	0	0	5	0	0	3	0	1
Orange Twp.	36	0	3	33	0	0	17	18	4	4	21	0	4
Rapid River Twp.	56	0	9	47	0	36	0	20	0	1	28	0	13
Springfield Twp.	29	0	5	24	0	1	0	28	4	1	16	0	6
Unknown Community	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	559	3	102	454	0	127	150	276	22	13	220	3	148

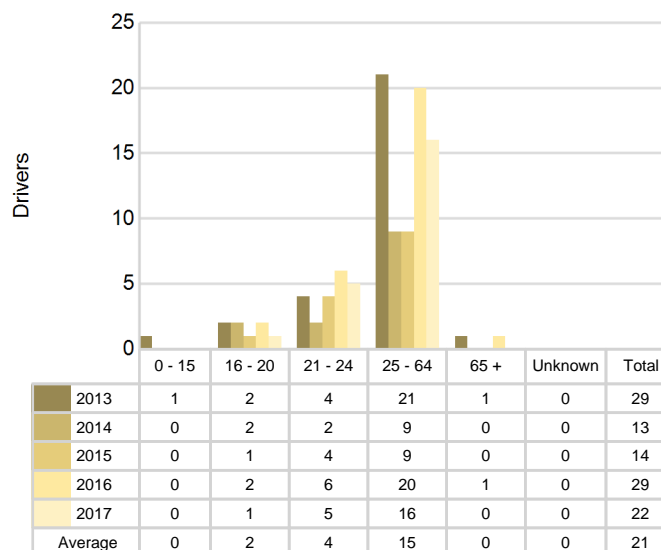
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

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	4	1	0	0	0	0	3	0	2	0
16 - 20	70	2	72	2	80	1	60	2	65	1
21 - 24	58	4	64	2	71	4	65	6	58	5
25 - 64	587	21	534	9	412	9	369	20	516	16
65 +	100	1	106	0	92	0	85	1	109	0
Unknown	13	0	7	0	13	0	15	0	12	0
Total	832	29	783	13	668	14	597	29	762	22

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	0	0	0	0	0	0	0	0	0
16 - 20	1	2	1	1	0	0	1	0	0
21 - 24	5	6	5	5	1	1	1	1	1
25 - 64	21	21	10	16	0	1	1	3	11
65 +	2	0	0	0	0	0	0	0	0
Unknown	0	0	0	0	0	0	0	0	0
Total	29	29	16	22	1	2	3	4	12

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 29 drivers in alcohol-involved crashes; 22 (75.9%) of those drivers were coded as had-been-drinking by the officer on the crash form.

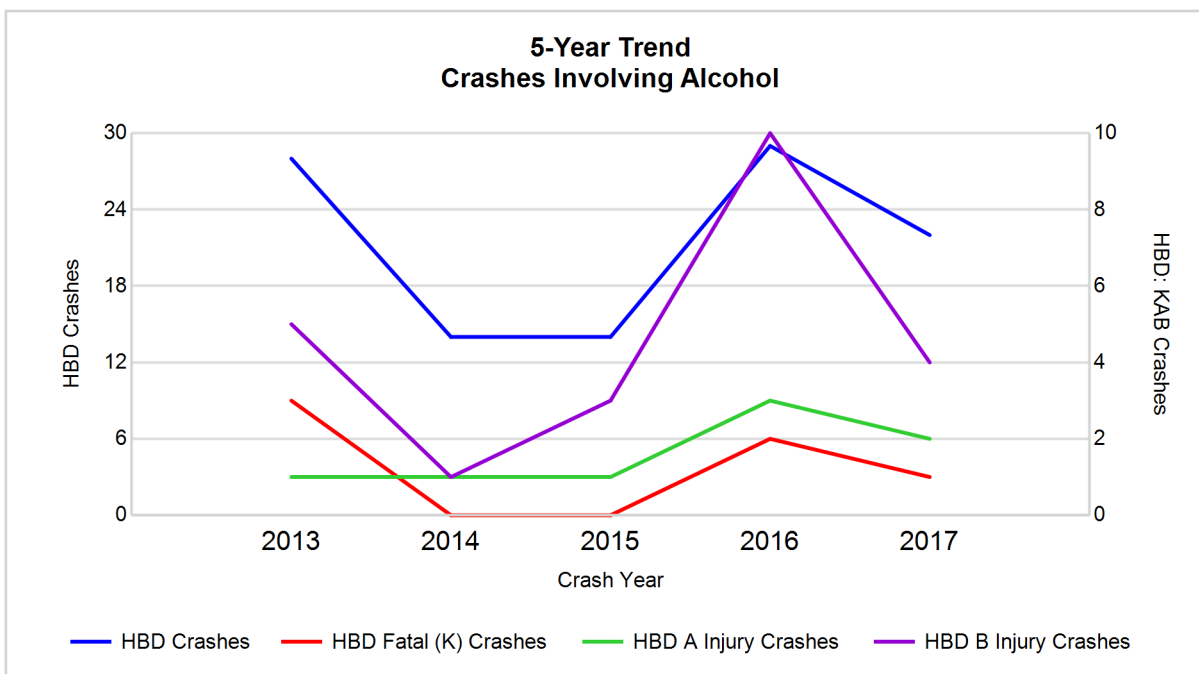
- 7 (31.8%) of the 22 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 4 (57.1%) of the 7 drivers had a BAC at or above 0.17 g/dL.
- 16 (72.7%) of the 22 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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	647	28	4.3	6	3	50.0	13	1	7.7	28	5	17.9
2014	603	14	2.3	1	0	0.0	14	1	7.1	30	1	3.3
2015	497	14	2.8	3	0	0.0	13	1	7.7	17	3	17.6
2016	403	29	7.2	4	2	50.0	12	3	25.0	35	10	28.6
2017	559	22	3.9	3	1	33.3	24**	2	8.3	28	4	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



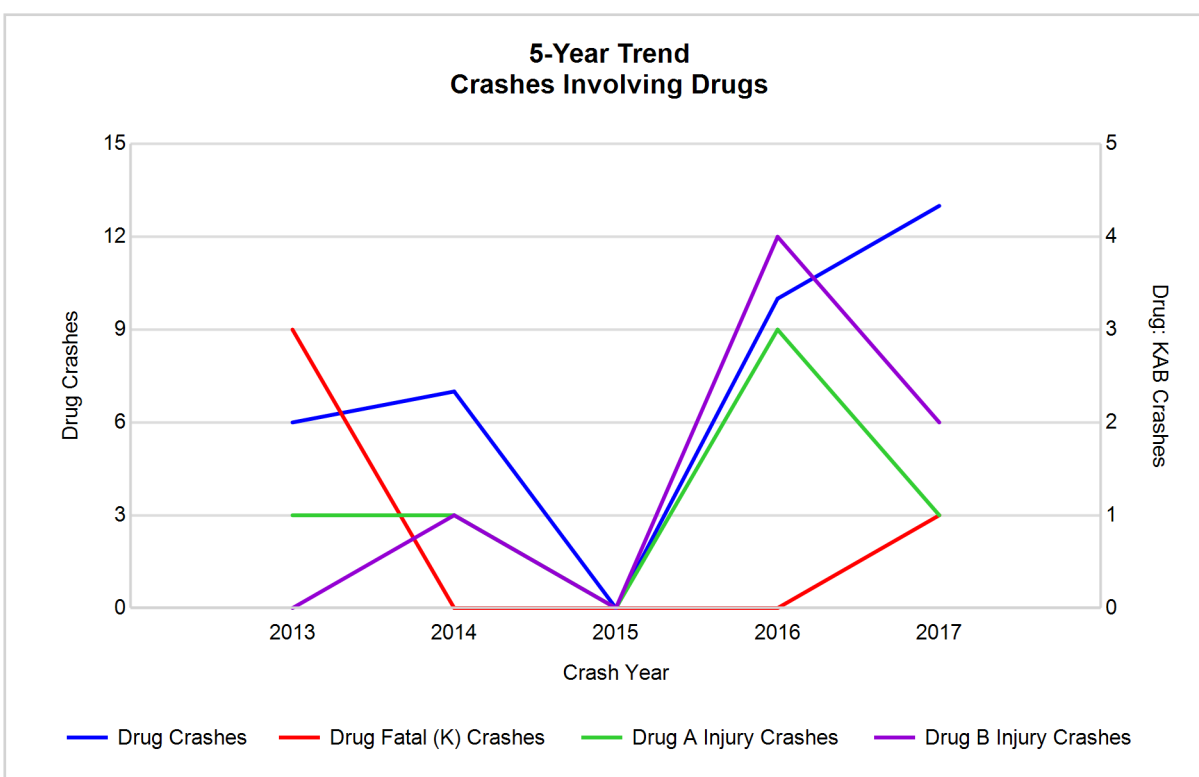
Note: Had-Been-Drinking (HBD)

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	647	6	0.9	6	3	50.0	13	1	7.7	28	0	0.0
2014	603	7	1.2	1	0	0.0	14	1	7.1	30	1	3.3
2015	497	0	0.0	3	0	0.0	13	0	0.0	17	0	0.0
2016	403	10	2.5	4	0	0.0	12	3	25.0	35	4	11.4
2017	559	13**	2.3	3	1	33.3	24**	1	4.2	28	2	7.1

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

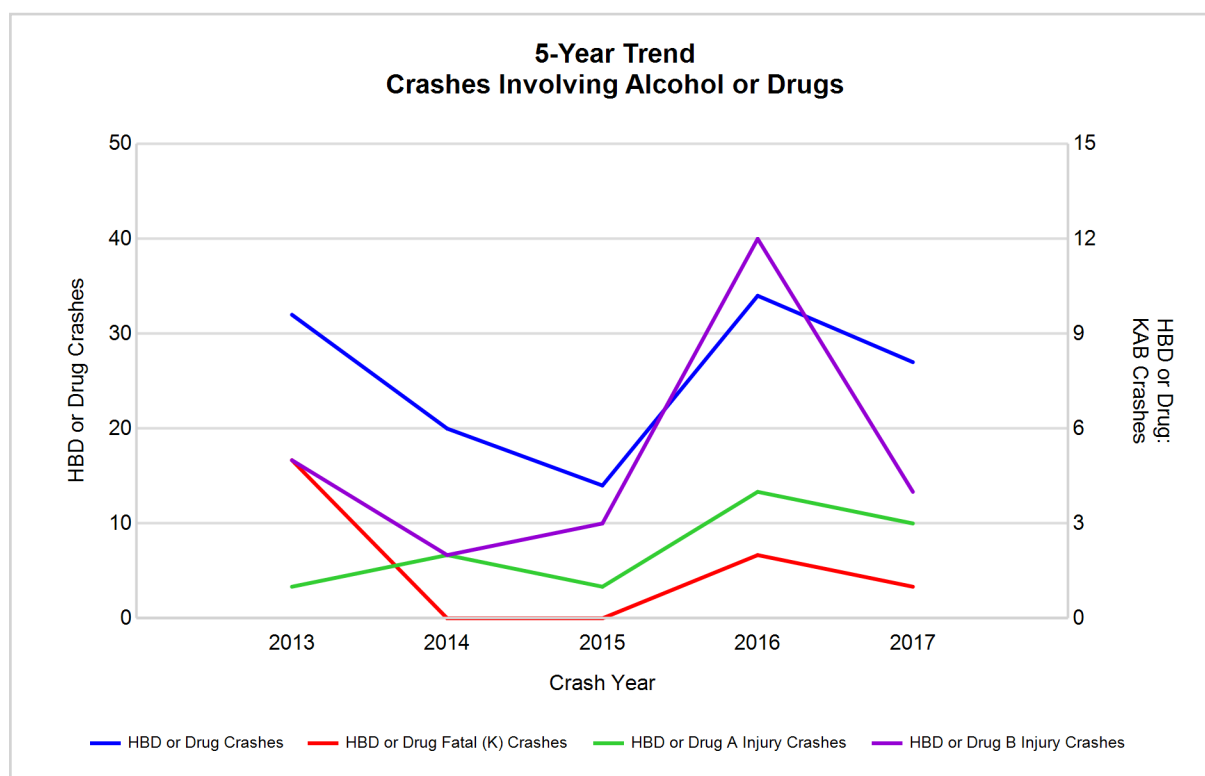


5-Year Trend - Crashes Involving Alcohol or Drugs

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	647	32	4.9	6	5	83.3	13	1	7.7	28	5	17.9
2014	603	20	3.3	1	0	0.0	14	2	14.3	30	2	6.7
2015	497	14	2.8	3	0	0.0	13	1	7.7	17	3	17.6
2016	403	34	8.4	4	2	50.0	12	4	33.3	35	12	34.3
2017	559	27	4.8	3	1	33.3	24**	3	12.5	28	4	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	538	473	87.9	2	1	50.0	17	14	82.4	21	19	90.5	56	53	94.6	429	381	88.8
Motor home	2	2	100.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	2	2	100.0
Pickup truck	200	174	87.0	1	0	0.0	5	4	80.0	7	5	71.4	20	18	90.0	161	143	88.8
Small truck under 10,000 lbs. GVWR	9	9	100.0	0	0	0.0	0	0	0.0	0	0	0.0	2	2	100.0	7	7	100.0
Motorcycle	8	7	87.5	0	0	0.0	2	2	100.0	3	2	66.7	0	0	0.0	3	3	100.0
Moped / goped	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Go-cart / golf cart	2	0	0.0	0	0	0.0	1	0	0.0	0	0	0.0	1	0	0.0	0	0	0.0
Snowmobile	4	4	100.0	0	0	0.0	2	2	100.0	2	2	100.0	0	0	0.0	0	0	0.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	11	8	72.7	0	0	0.0	5	3	60.0	2	2	100.0	1	1	100.0	2	2	100.0
Other	3	1	33.3	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	3	1	33.3
Truck/bus over 10,000 lbs.	22	19	86.4	0	0	0.0	0	0	0.0	0	0	0.0	1	1	100.0	21	18	85.7
Unknown	3	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Total	802	697	86.9	3	1	0.0	32	25	78.1	35	30	85.7	81	75	92.6	628	557	88.7

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	16	11	68.8	0	0	0.0	2	1	50.0	3	2	66.7	11	8	72.7	0	0	0.0
16 - 20	70	60	85.7	1	0	0.0	2	0	0.0	3	2	66.7	8	8	100.0	56	50	89.3
21 - 24	62	50	80.6	1	0	0.0	3	1	33.3	2	2	100.0	3	1	33.3	51	44	86.3
25 - 64	531	476	89.6	1	1	100.0	22	20	90.9	24	21	87.5	49	48	98.0	427	380	89.0
65 +	110	98	89.1	0	0	0.0	3	3	100.0	3	3	100.0	9	9	100.0	93	82	88.2
Unknown	13	2	15.4	0	0	0.0	0	0	0.0	0	0	0.0	1	1	100.0	1	1	100.0
Total	802	697	86.9	3	1	0.0	32	25	78.1	35	30	85.7	81	75	92.6	628	557	88.7

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	2	0	0	4	0	1	3	0	0	6	0	0	9	0	2
Shoulder belt only used	0	0	0	1	0	0	23	0	7	1	0	0	0	0	0
Lap belt only used	1	0	0	1	0	0	2	0	0	2	0	2	0	0	0
Both lap & shoulder belts used	788	6	80	733	2	71	595	2	62	540	0	80	653	1	91
No belts used	2	0	1	2	0	2	6	0	4	8	1	6	7	2	3
Child restraint used	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0
Child restraint not used, unavailable or improper use	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Restraint failure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Restraint use unknown	7	0	2	10	0	5	16	0	5	13	0	2	68	0	2
Helmet worn	17	0	15	17	0	13	8	0	7	11	1	6	13	0	9
Helmet not worn	1	0	1	7	0	5	2	0	2	3	1	1	1	0	1
Helmet use unknown	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Uncoded & errors	14	0	0	8	0	0	12	0	0	12	0	0	10	0	0
Total	832	6	99	783	2	97	668	2	87	597	3	98	762	3	108

5-Year Trend - Restraint Use Among Drivers Coded Drinking

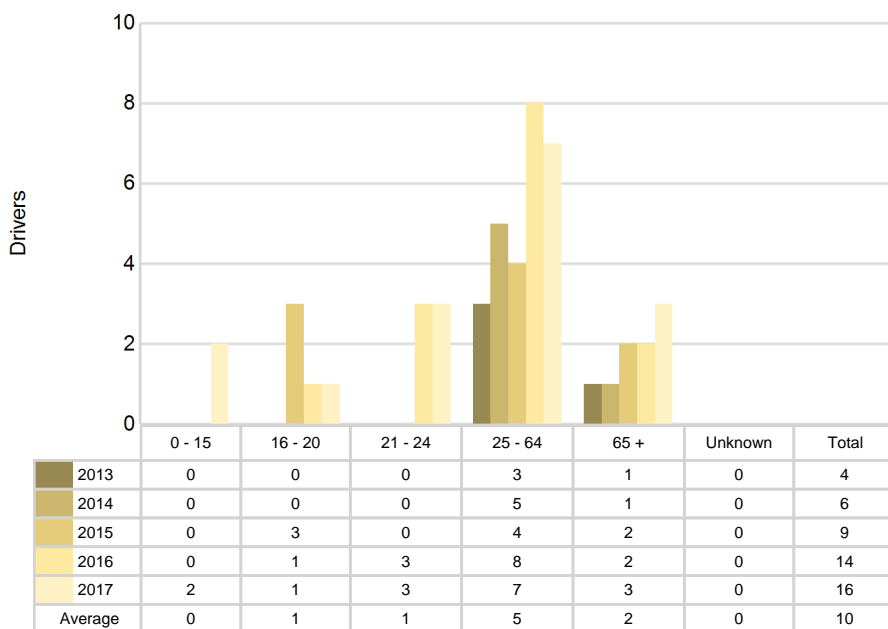
Restraint Use	2013			2014			2015			2016			2017		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shoulder belt only used	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lap belt only used	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Both lap & shoulder belts used	20	3	5	9	0	1	10	0	3	18	0	8	10	0	4
No belts used	0	0	0	1	0	1	0	0	0	5	1	4	1	1	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Restraint use unknown	5	0	1	3	0	1	2	0	1	5	0	1	10	0	1
Helmet worn	3	0	2	0	0	0	1	0	1	1	1	0	1	0	1
Helmet not worn	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Helmet use unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uncoded & errors	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Total	29	3	9	13	0	3	14	0	5	29	2	13	22	1	6

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	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
16 - 20	0	0	0	0	0	0	3	0	0	1	0	0	1	1	0
21 - 24	0	0	0	0	0	0	0	0	0	3	0	1	3	1	1
25 - 64	3	0	1	5	0	3	4	0	2	8	1	4	7	0	2
65 +	1	0	0	1	0	0	2	0	2	2	0	1	3	0	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	4	0	1	6	0	3	9	0	4	14	1	6	16	2	5

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

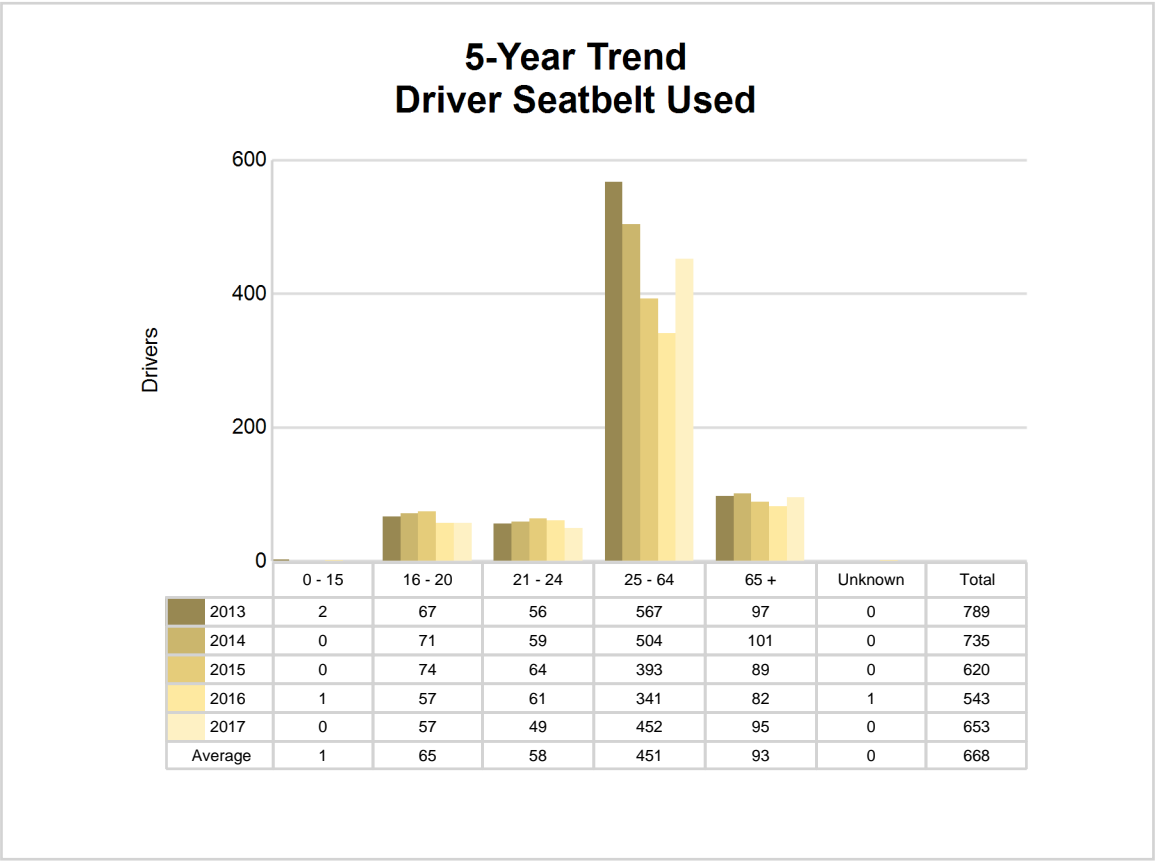
5-Year Trend Driver Seatbelt Not Used



5-Year Trend - Seatbelt Used Among Drivers by Age

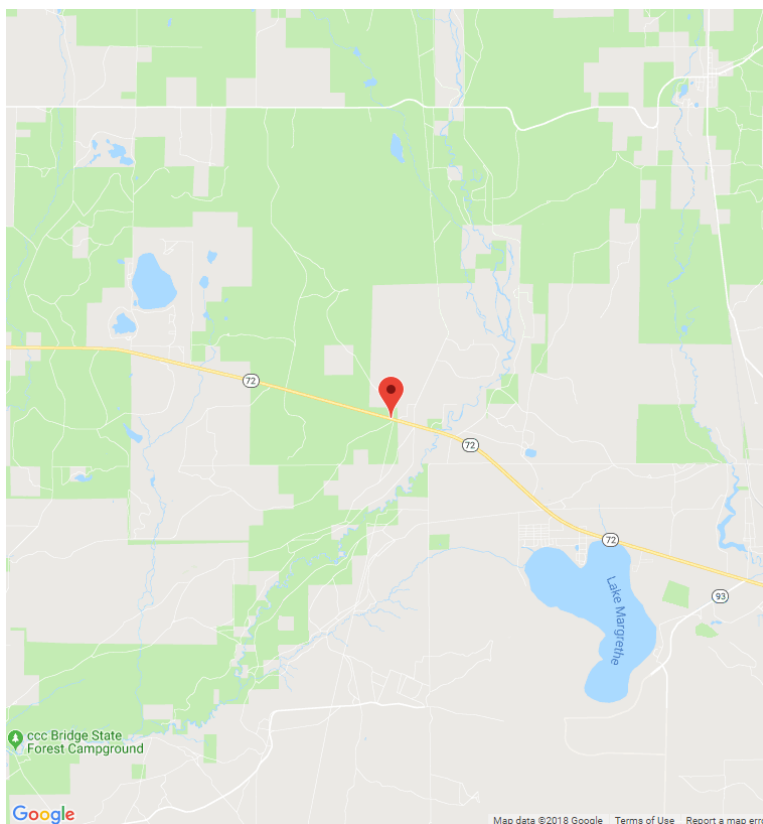
Age Group	2013			2014			2015			2016			2017		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
0 - 15	2	1	0	0	0	0	0	0	0	1	0	1	0	0	0
16 - 20	67	1	7	71	0	9	74	0	13	57	0	7	57	0	8
21 - 24	56	0	8	59	1	5	64	0	8	61	0	10	49	0	3
25 - 64	567	3	58	504	1	43	393	0	29	341	0	52	452	1	67
65 +	97	1	7	101	0	14	89	2	19	82	0	12	95	0	13
Unknown	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Total	789	6	80	735	2	71	620	2	69	543	0	82	653	1	91

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	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	470	3	457	1	403	2	285	0	422	1
Speed too fast	158	3	129	0	73	2	92	2	110	2
Speed too slow	1	0	0	0	1	0	0	0	1	0
Failed to yield	58	0	58	0	60	0	59	0	56	0
Disregard traffic control	11	2	11	0	5	0	7	0	6	0
Drove wrong way	0	0	0	0	0	0	0	0	1	0
Drove left of center	5	1	4	1	4	1	7	0	9	0
Improper passing	2	0	6	0	5	0	3	0	3	0
Improper lane use	7	0	2	0	4	0	3	0	5	0
Improper turn	3	0	2	0	5	0	4	0	5	0
Improper/no signal	1	0	0	0	0	0	0	0	2	0
Improper backing	3	0	7	0	2	0	7	0	5	0
Unable to stop in assured clear distance	44	0	57	0	52	0	55	0	55	1
Other	15	0	23	0	19	0	30	0	37	0
Unknown	19	1	5	0	7	0	15	1	19	0
Reckless driving	2	0	3	0	4	0	6	0	3	0
Careless/negligent driving	30	0	16	0	14	0	14	0	10	0
Uncoded & errors	3	0	3	0	10	0	10	2	13	0
Total	832	10	783	2	668	5	597	5	762	4



The picture above represents all 2017 alcohol-involved fatal crashes in Kalkaska County.

In 2017, there were 22 alcohol-involved crashes in Kalkaska County:

- 1 K - Fatal Crash
- 2 A - Suspected Serious Injury Crashes
- 4 B - Suspected Minor Injury Crashes
- 2 C - Possible Injury Crashes
- 13 O - Property Damage Only/No Injury Crashes

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