



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)



Leelanau County

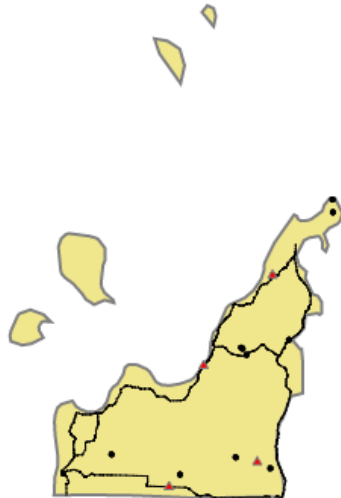
2016 Traffic Crash Data & 2012-2016 5-Year Trends



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 (4/4)
- A - Suspected Serious (11/11)

Leelanau County

In 2016:

There were 854 drivers involved in 665 motor vehicle crashes in Leelanau County. Of those crashes, 4 were classified as fatal, resulting in 7 fatalities. An additional 140 persons were injured.

Leelanau County experienced the highest number of motor vehicle crashes (86) in November, the highest number of fatal crashes (2) and the highest number of persons killed (5) in August.

Michigan driver statistics indicate 5.2 percent of licensed drivers in Leelanau County were age 16-20, and 9.8 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	48	0	1	47	0	2
February	46	0	3	43	0	5
March	44	0	5	39	0	6
April	44	0	7	37	0	13
May	53	0	9	44	0	12
June	56	0	12	44	0	13
July	71	0	17	54	0	22
August	56	2	16	38	5	24
September	34	1	7	26	1	11
October	55	0	7	48	0	10
November	86	1	11	74	1	12
December	72	0	8	64	0	10
Total	665	4	103	558	7	140

2016 - Driver Statistics

Age Group	Statewide			Driver Rates	
	2016 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	3,061	106	1	3.3	94.3
16 - 20	1,067	983	84	787.3	854.5
21 - 24	837	887	66	788.5	744.1
25 - 64	10,303	10,724	515	499.9	480.2
65 +	6,497	6,243	142	218.6	227.5
Unknown	0	0	46	- -	- -
Total	21,765	18,943	854	392.4	450.8

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	666	78.0	3	42.9	107	556
Motor home	10	1.2	0	0.0	1	9
Pickup truck	131	15.3	2	28.6	18	111
Small truck under 10,000 lbs. GVWR	2	0.2	0	0.0	1	1
Motorcycle	10	1.2	1	14.3	9	0
Moped / goped	2	0.2	0	0.0	2	0
Go-cart / golf cart	0	0.0	0	0.0	0	0
Snowmobile	0	0.0	0	0.0	0	0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	0	0.0	0	0.0	0	0
Other	2	0.2	0	0.0	0	2
Truck/bus over 10,000 lbs.	19	2.2	1	14.3	5	13
Unknown	12	1.4	0	0.0	0	12
Total	854	100.0	7	100.0	143	704

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	74	0	73	0	61	0	48	0	48	0
February	68	1	41	0	44	0	51	0	46	0
March	35	0	31	0	73	0	32	1	44	0
April	24	0	33	0	47	0	27	0	44	0
May	52	0	48	0	42	0	43	1	53	0
June	48	0	53	0	58	0	67	0	56	0
July	69	1	50	0	57	0	64	1	71	0
August	59	0	53	0	50	1	43	1	56	2
September	56	1	53	0	45	0	43	0	34	1
October	80	0	64	0	51	0	78	0	55	0
November	77	0	107	0	74	0	80	0	86	1
December	79	0	84	0	60	0	59	0	72	0
Total	721	3	690	0	662	1	635	4	665	4

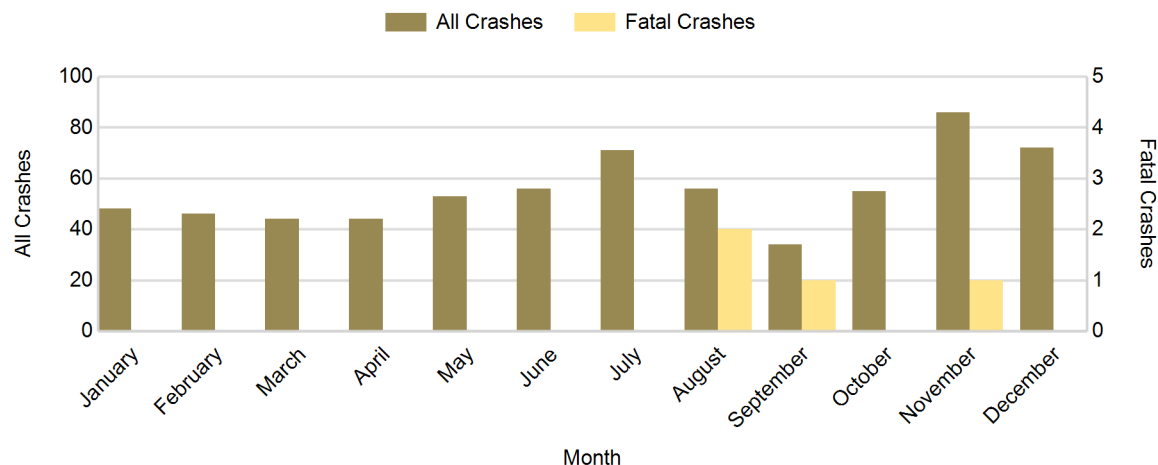
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

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	122	0	106	0	113	0	86	0	80	0
Tuesday	102	0	106	0	91	0	71	0	91	1
Wednesday	103	0	111	0	84	0	98	0	102	0
Thursday	89	0	93	0	95	0	104	1	104	1
Friday	104	1	92	0	114	0	119	2	109	0
Saturday	111	0	83	0	89	1	95	1	93	1
Sunday	90	2	99	0	76	0	62	0	86	1
Total	721	3	690	0	662	1	635	4	665	4

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

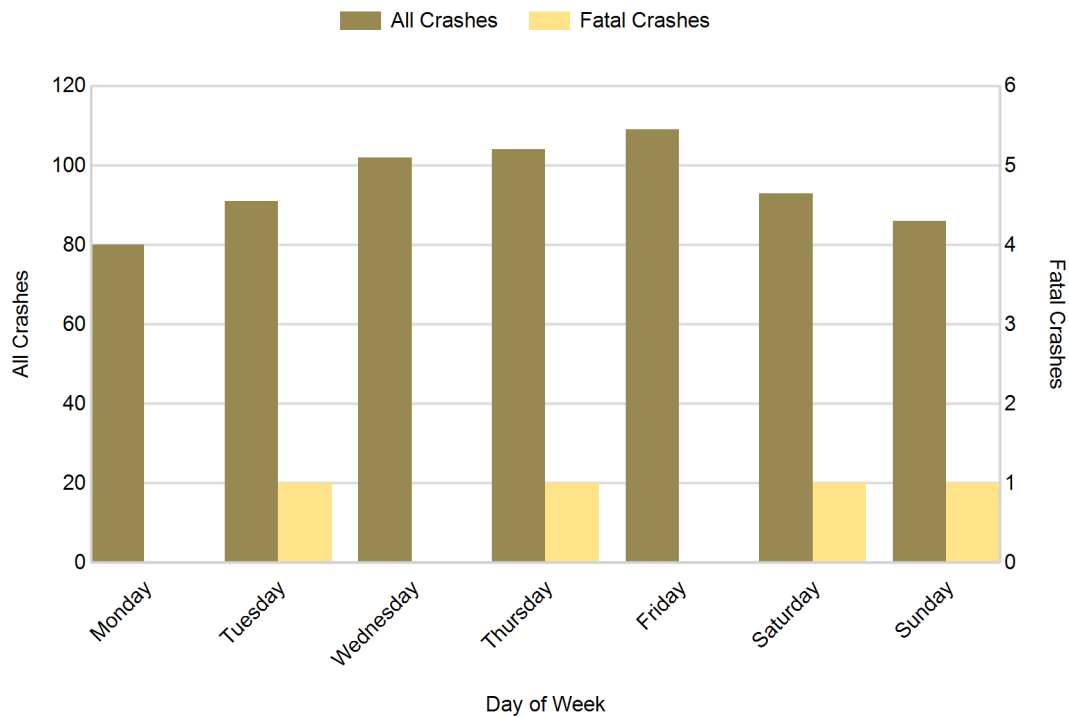
2016 Crashes by Month



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	80	12.0	0	0.0	2	8	4	66
Tuesday	91	13.7	1	25.0	1	4	8	77
Wednesday	102	15.3	0	0.0	2	8	9	83
Thursday	104	15.6	1	25.0	1	5	5	92
Friday	109	16.4	0	0.0	2	8	6	93
Saturday	93	14.0	1	25.0	0	6	4	82
Sunday	86	12.9	1	25.0	3	12	5	65
Total	665	100.0	4	100.0	11	51	41	558

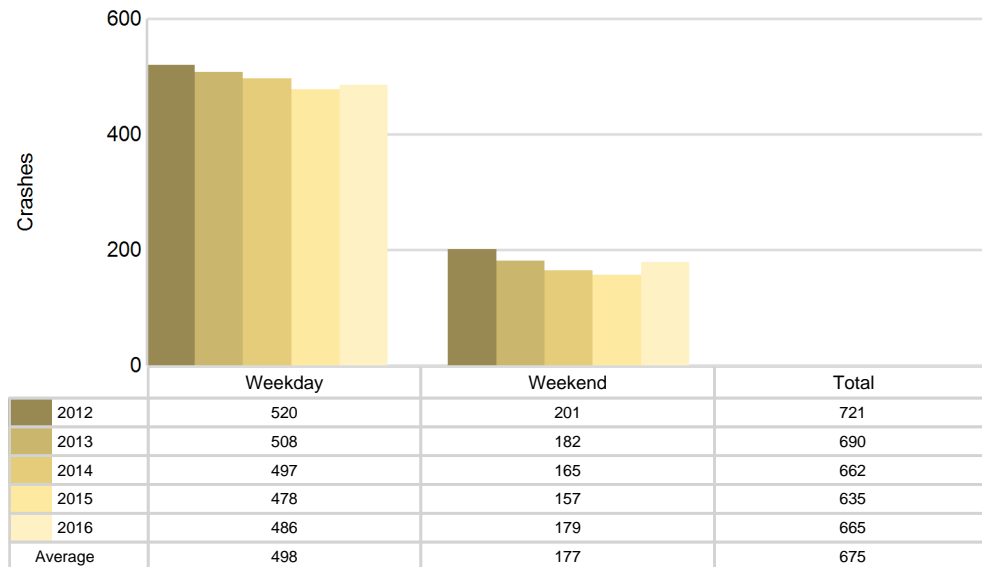
2016 Day of Week and Severity



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	520	1	508	0	497	0	478	3	486	2
Weekend	201	2	182	0	165	1	157	1	179	2
Total	721	3	690	0	662	1	635	4	665	4

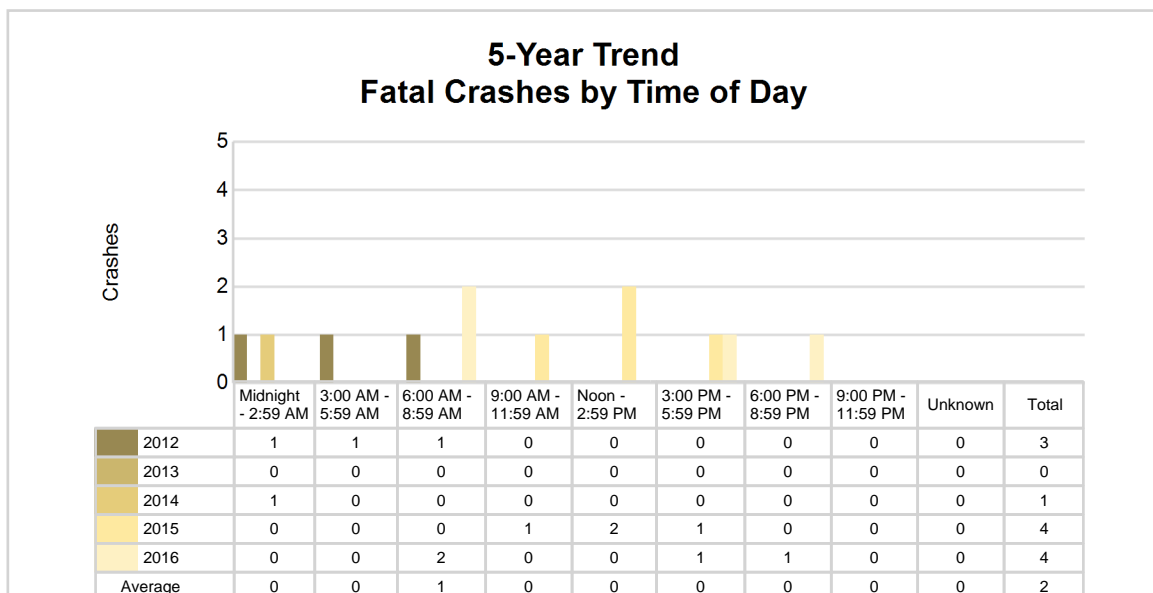
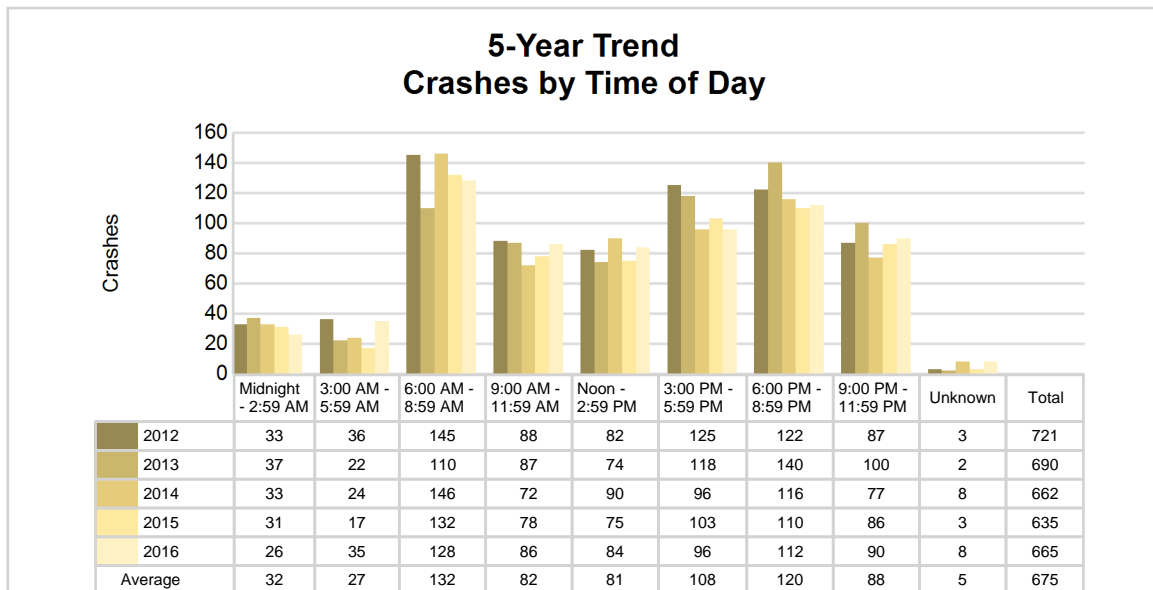
5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



5-Year Trend - Crashes by Time of Day

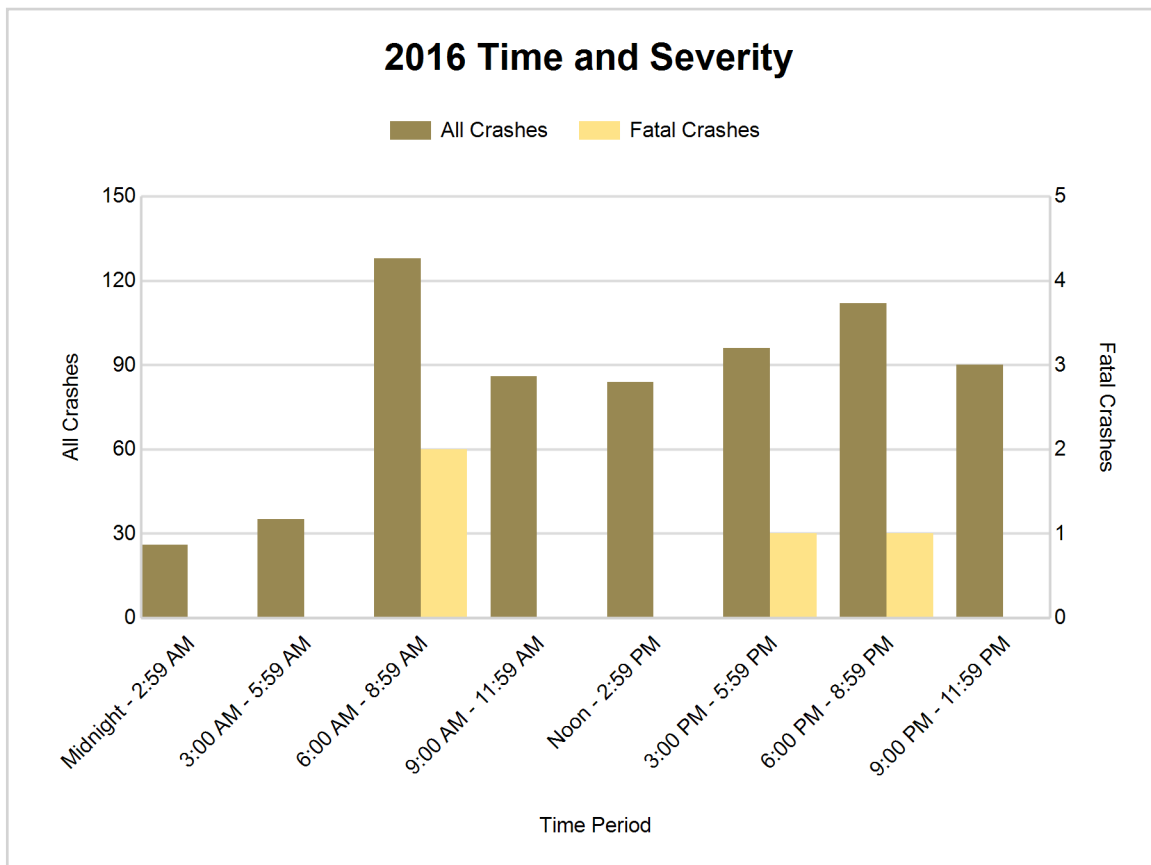
Time of Day	2012		2013		2014		2015		2016	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	33	1	37	0	33	1	31	0	26	0
3:00 AM - 5:59 AM	36	1	22	0	24	0	17	0	35	0
6:00 AM - 8:59 AM	145	1	110	0	146	0	132	0	128	2
9:00 AM - 11:59 AM	88	0	87	0	72	0	78	1	86	0
Noon - 2:59 PM	82	0	74	0	90	0	75	2	84	0
3:00 PM - 5:59 PM	125	0	118	0	96	0	103	1	96	1
6:00 PM - 8:59 PM	122	0	140	0	116	0	110	0	112	1
9:00 PM - 11:59 PM	87	0	100	0	77	0	86	0	90	0
Unknown	3	0	2	0	8	0	3	0	8	0
Total	721	3	690	0	662	1	635	4	665	4

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

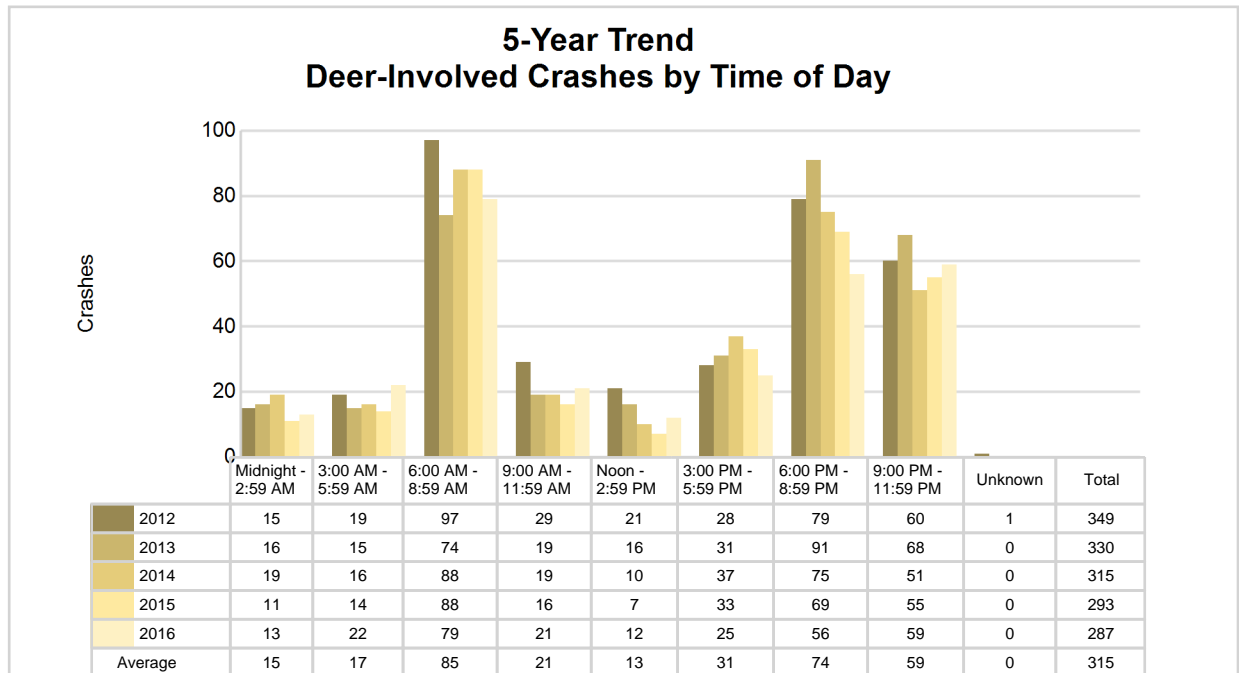
Time of Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Midnight - 2:59 AM	26	3.9	0	0.0	2	2	0	22
3:00 AM - 5:59 AM	35	5.3	0	0.0	0	4	0	31
6:00 AM - 8:59 AM	128	19.2	2	50.0	0	5	6	115
9:00 AM - 11:59 AM	86	12.9	0	0.0	1	5	3	77
Noon - 2:59 PM	84	12.6	0	0.0	0	8	14	62
3:00 PM - 5:59 PM	96	14.4	1	25.0	1	12	7	75
6:00 PM - 8:59 PM	112	16.8	1	25.0	4	8	6	93
9:00 PM - 11:59 PM	90	13.5	0	0.0	3	7	4	76
Unknown	8	1.2	0	0.0	0	0	1	7
Total	665	100.0	4	100.0	11	51	41	558



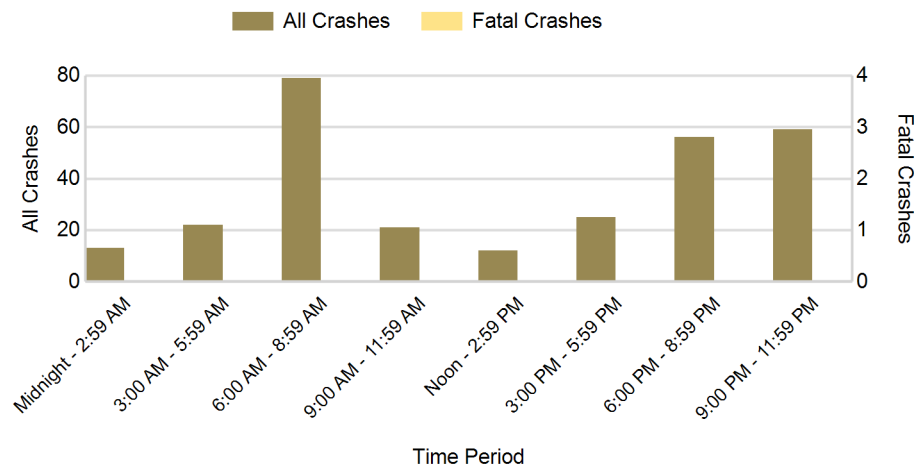
5-Year Trend - Deer-Involved Crashes by Time of Day

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	15	0	16	0	19	0	11	0	13	0
3:00 AM - 5:59 AM	19	0	15	0	16	0	14	0	22	0
6:00 AM - 8:59 AM	97	0	74	0	88	0	88	0	79	0
9:00 AM - 11:59 AM	29	0	19	0	19	0	16	0	21	0
Noon - 2:59 PM	21	0	16	0	10	0	7	0	12	0
3:00 PM - 5:59 PM	28	0	31	0	37	0	33	0	25	0
6:00 PM - 8:59 PM	79	0	91	0	75	0	69	0	56	0
9:00 PM - 11:59 PM	60	0	68	0	51	0	55	0	59	0
Unknown	1	0	0	0	0	0	0	0	0	0
Total	349	0	330	0	315	0	293	0	287	0

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 of Deer-Involved Crashes



There were no fatal deer-involved crashes in Leelanau County in 2016

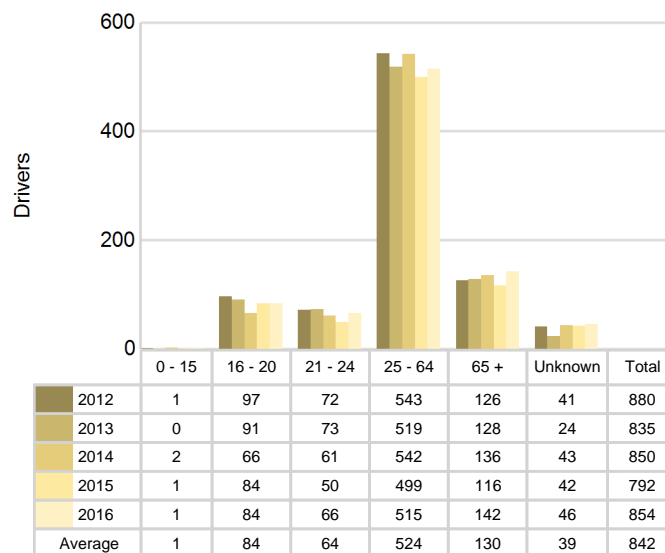
2016 - Reported Motor Vehicle Crashes by Municipality

Municipality	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Bingham Twp.	92	0	13	79	0	0	43	49	3	1	48	0	16
Centerville Twp.	47	0	4	43	0	0	2	45	1	0	30	0	6
Cleveland Twp.	34	0	7	27	0	0	12	22	2	0	15	0	10
Elmwood Twp.	122	1	23	98	0	0	62	60	9	1	32	1	29
Empire	9	0	2	7	0	0	5	4	0	0	4	0	2
Empire Twp.	32	0	4	28	0	0	19	13	3	0	23	0	4
Glen Arbor Twp.	30	0	5	25	0	0	15	14	5	1	9	0	7
Kasson Twp.	55	1	9	45	0	0	22	33	4	0	34	1	15
Leelanau Twp.	39	1	7	31	0	0	23	16	3	0	15	2	9
Leland Twp.	63	1	13	49	0	0	44	19	10	1	22	3	19
Northport	10	0	1	9	0	0	8	2	1	0	5	0	1
Solon Twp.	68	0	7	61	0	0	20	48	6	1	36	0	11
Suttons Bay	19	0	2	17	0	0	16	3	1	0	2	0	3
Suttons Bay Twp.	38	0	6	32	0	0	22	16	2	0	9	0	8
Traverse City	7	0	0	7	0	0	7	0	0	0	3	0	0
Unknown Community	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	665	4	103	558	0	0	320	344	50	5	287	7	140

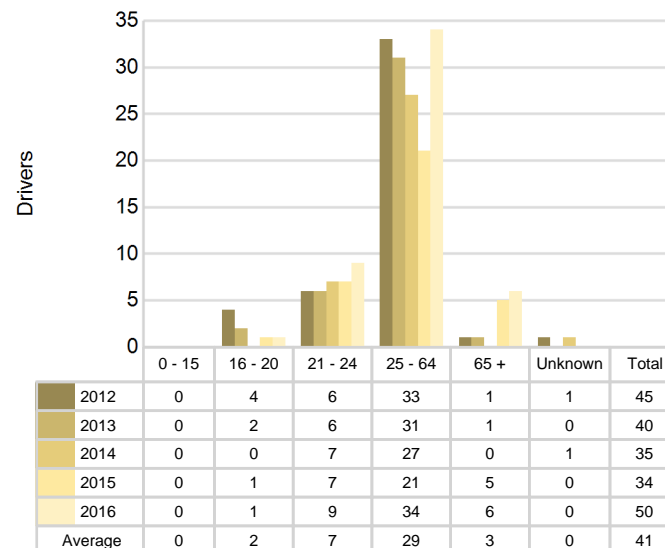
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

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	1	0	0	0	2	0	1	0	1	0
16 - 20	97	4	91	2	66	0	84	1	84	1
21 - 24	72	6	73	6	61	7	50	7	66	9
25 - 64	543	33	519	31	542	27	499	21	515	34
65 +	126	1	128	1	136	0	116	5	142	6
Unknown	41	1	24	0	43	1	42	0	46	0
Total	880	45	835	40	850	35	792	34	854	50

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	0	0	0	0	0	0	0	0	0
16 - 20	2	1	1	1	0	0	1	0	0
21 - 24	9	9	8	9	0	2	3	2	2
25 - 64	37	46	27	34	0	4	12	1	17
65 +	7	13	6	6	0	2	1	1	2
Unknown	1	0	0	0	0	0	0	0	0
Total	56	69	42	50	0	8	17	4	21

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 56 drivers in alcohol-involved crashes; 50 (89.3%) of those drivers were coded as had-been-drinking by the officer on the crash form.

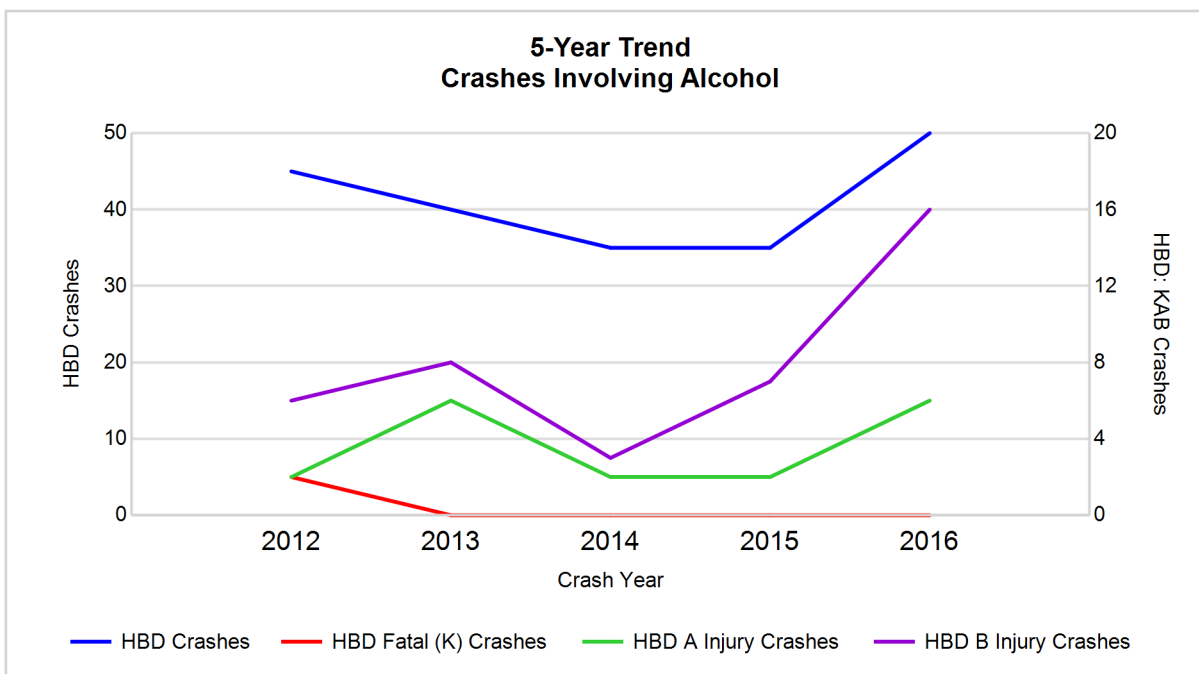
- 21 (42.0%) of the 50 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 4 (19.0%) of the 21 drivers had a BAC at or above 0.17 g/dL.
- 42 (84.0%) of the 50 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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	721	45	6.2	3	2	66.7	14	2	14.3	27	6	22.2
2013	690	40	5.8	0	0	0.0	19	6	31.6	36	8	22.2
2014	662	35	5.3	1	0	0.0	8	2	25.0	10	3	30.0
2015	635	35	5.5	4	0	0.0	9	2	22.2	25	7	28.0
2016	665	50**	7.5**	4	0	0.0	11	6	54.5**	51**	16**	31.4**

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



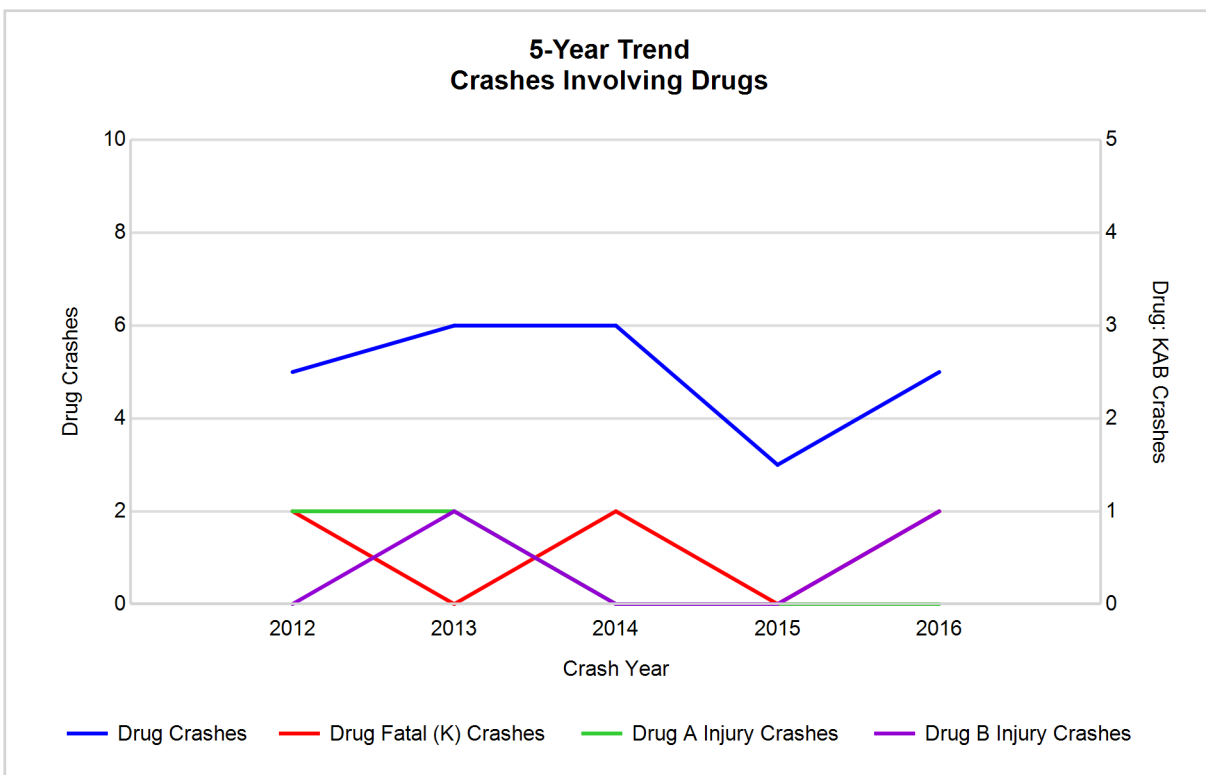
Note: Had-Been-Drinking (HBD)

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	721	5	0.7	3	1	33.3	14	1	7.1	27	0	0.0
2013	690	6	0.9	0	0	0.0	19	1	5.3	36	1	2.8
2014	662	6	0.9	1	1	100.0	8	0	0.0	10	0	0.0
2015	635	3	0.5	4	0	0.0	9	0	0.0	25	0	0.0
2016	665	5	0.8	4	1	25.0	11	0	0.0	51**	1	2.0

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

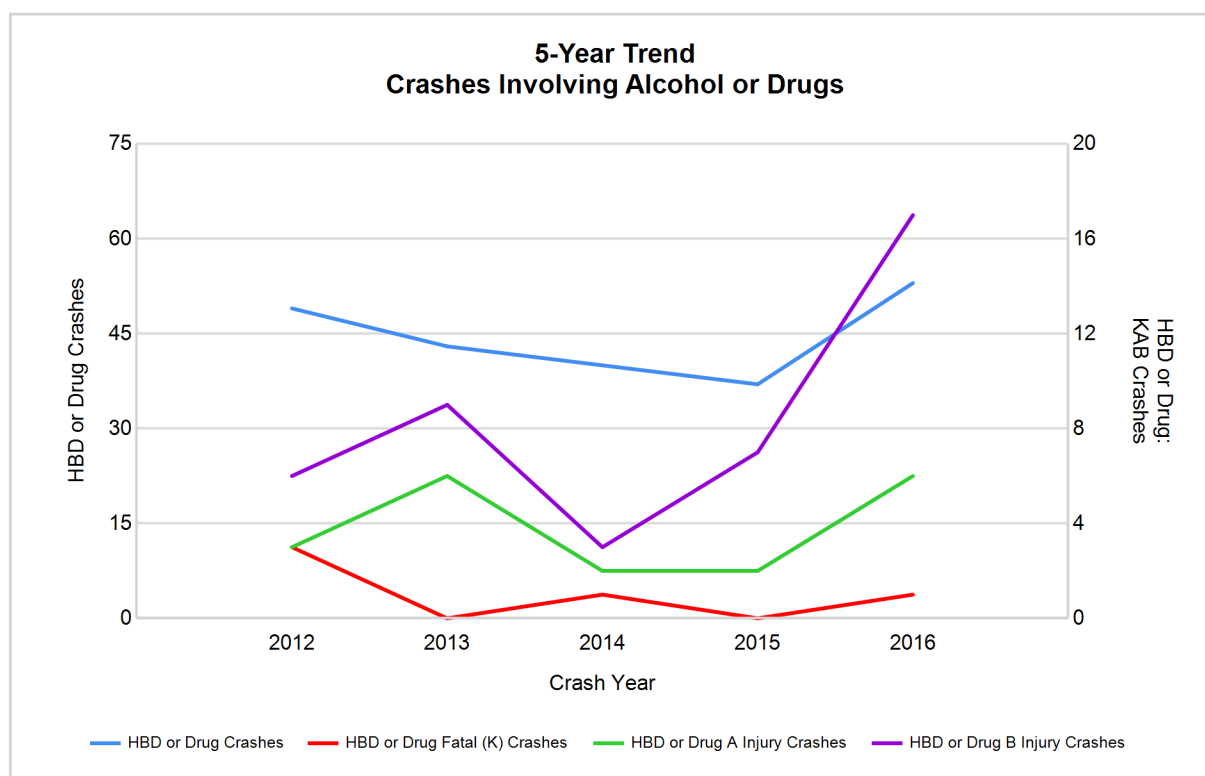


5-Year Trend - Crashes Involving Alcohol or Drugs

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	721	49	6.8	3	3	100.0	14	3	21.4	27	6	22.2
2013	690	43	6.2	0	0	0.0	19	6	31.6	36	9	25.0
2014	662	40	6.0	1	1	100.0	8	2	25.0	10	3	30.0
2015	635	37	5.8	4	0	0.0	9	2	22.2	25	7	28.0
2016	665	53**	8.0**	4	1	25.0	11	6	54.5**	51**	17**	33.3**

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)

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	696	636	91.4	2	1	50.0	6	4	66.7	49	42	85.7	48	44	91.7	563	544	96.6
Motor home	10	9	90.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	9	9	100.0
Pickup truck	139	127	91.4	3	3	100.0	5	2	40.0	4	3	75.0	9	8	88.9	113	111	98.2
Small truck under 10,000 lbs. GVWR	2	2	100.0	0	0	0.0	0	0	0.0	0	0	0.0	1	1	100.0	1	1	100.0
Motorcycle	14	9	64.3	2	0	0.0	3	2	66.7	6	5	83.3	2	1	50.0	1	1	100.0
Moped / goped	2	2	100.0	0	0	0.0	0	0	0.0	1	1	100.0	1	1	100.0	0	0	0.0
Go-cart / golf cart	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
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	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Other	2	1	50.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	2	1	50.0
Truck/bus over 10,000 lbs.	19	17	89.5	0	0	0.0	0	0	0.0	1	0	0.0	0	0	0.0	17	17	100.0
Unknown	12	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Total	896	803	89.6	7	4	0.0	14	8	57.1	61	51	83.6	61	55	90.2	706	684	96.9

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	9	8	88.9	0	0	0.0	0	0	0.0	5	4	80.0	4	4	100.0	0	0	0.0
16 - 20	86	84	97.7	0	0	0.0	1	1	100.0	7	7	100.0	5	5	100.0	73	71	97.3
21 - 24	69	64	92.8	0	0	0.0	3	2	66.7	5	4	80.0	2	2	100.0	59	56	94.9
25 - 64	538	509	94.6	6	4	66.7	7	4	57.1	31	25	80.6	34	30	88.2	459	445	96.9
65 +	147	138	93.9	1	0	0.0	2	1	50.0	13	11	84.6	16	14	87.5	115	112	97.4
Unknown	47	0	0.0	0	0	0.0	1	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Total	896	803	89.6	7	4	0.0	14	8	57.1	61	51	83.6	61	55	90.2	706	684	96.9

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	7	0	2	5	0	3	12	0	0	14	0	1	4	0	2
Shoulder belt only used	1	0	0	0	0	0	5	0	0	0	0	0	1	0	0
Lap belt only used	5	0	0	0	0	0	2	0	0	2	0	0	1	0	0
Both lap & shoulder belts used	788	1	70	779	0	80	757	0	50	694	1	54	758	2	74
No belts used	8	1	4	5	0	2	7	0	4	17	0	7	18	0	9
Child restraint used	1	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	2	1	0	1	0	0	0	0	0
Restraint use unknown	14	0	4	14	0	5	14	0	2	9	0	0	46	1	2
Helmet worn	10	0	5	6	0	3	6	0	5	9	2	6	8	0	7
Helmet not worn	4	0	3	1	0	1	0	0	0	4	0	3	4	1	3
Helmet use unknown	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0
Uncoded & errors	42	0	0	25	0	0	44	0	0	41	0	0	14	0	0
Total	880	2	88	835	0	94	850	1	62	792	3	71	854	4	97

5-Year Trend - Restraint Use Among Drivers Coded Drinking

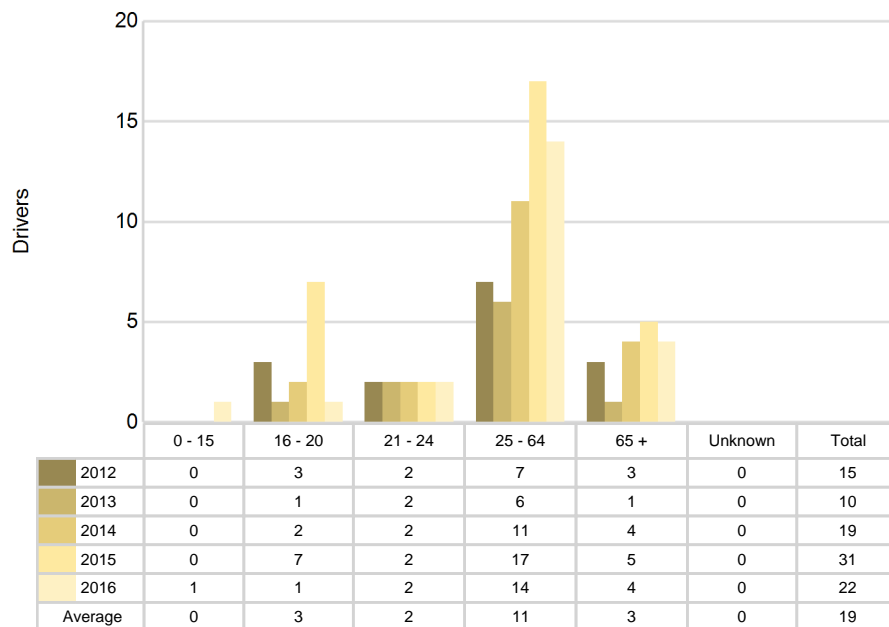
Restraint Use	2012			2013			2014			2015			2016		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Shoulder belt only used	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lap belt only used	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Both lap & shoulder belts used	33	1	11	31	0	11	25	0	5	26	0	8	33	0	10
No belts used	4	1	2	3	0	2	1	0	1	3	0	2	5	0	5
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	3	6	0	3	6	0	1	3	0	0	7	0	2
Helmet worn	1	0	1	0	0	0	1	0	1	1	0	1	2	0	2
Helmet not worn	0	0	0	0	0	0	0	0	0	1	0	1	2	0	2
Helmet use unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uncoded & errors	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Total	45	2	17	40	0	16	35	0	8	34	0	12	50	0	22

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	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
16 - 20	3	1	1	1	0	1	2	0	1	7	0	3	1	0	0
21 - 24	2	0	2	2	0	0	2	0	0	2	0	1	2	0	1
25 - 64	7	0	3	6	0	3	11	0	3	17	0	4	14	0	7
65 +	3	0	0	1	0	1	4	0	0	5	0	0	4	0	2
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	15	1	6	10	0	5	19	0	4	31	0	8	22	0	11

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

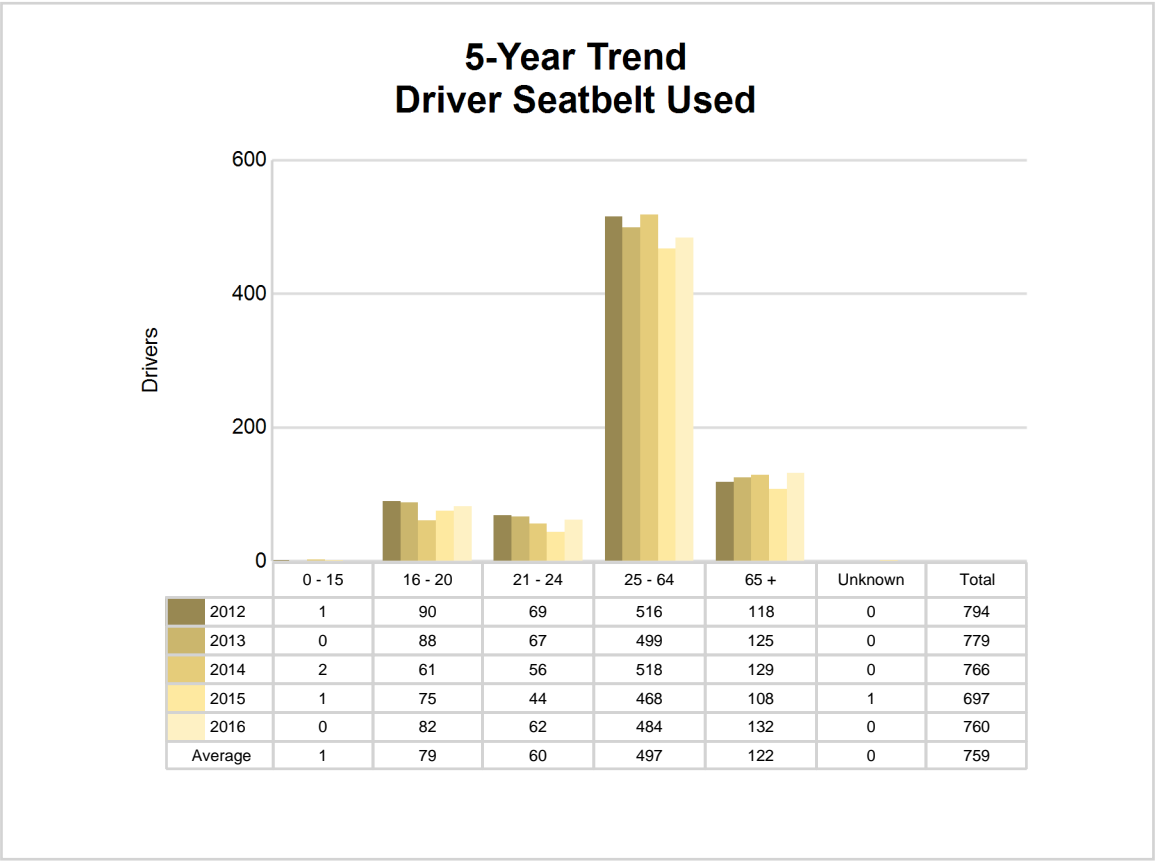
5-Year Trend Driver Seatbelt Not Used



5-Year Trend - Seatbelt Used Among Drivers by Age

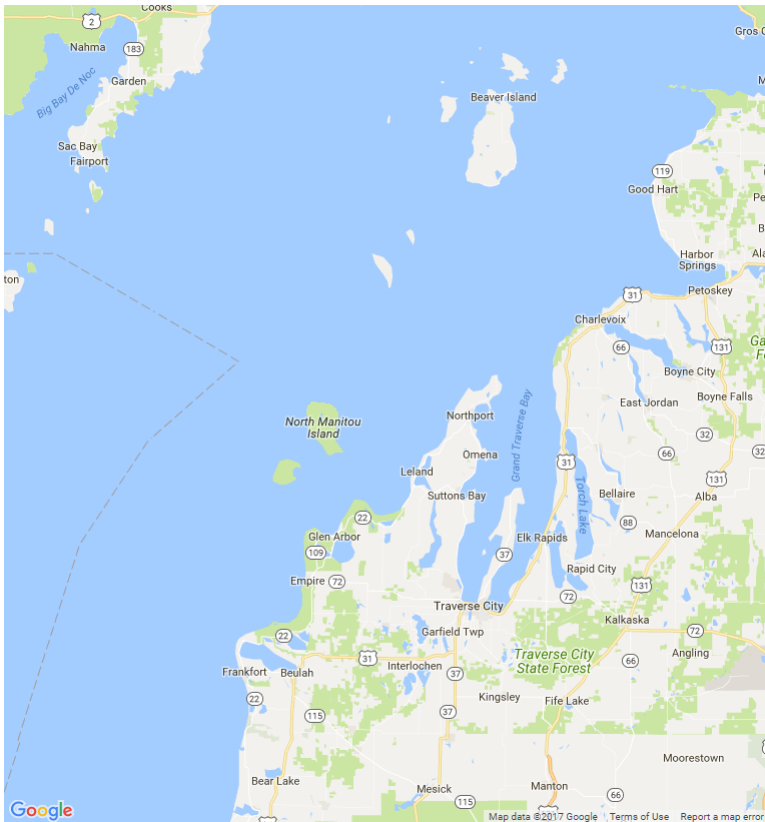
Age Group	2012			2013			2014			2015			2016		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
0 - 15	1	0	0	0	0	0	2	0	0	1	0	0	0	0	0
16 - 20	90	0	8	88	0	13	61	0	4	75	0	6	82	0	11
21 - 24	69	0	6	67	0	10	56	0	6	44	0	7	62	0	6
25 - 64	516	1	46	499	0	42	518	1	29	468	0	34	484	2	37
65 +	118	0	10	125	0	15	129	0	11	108	1	7	132	0	20
Unknown	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Total	794	1	70	779	0	80	766	1	50	697	1	54	760	2	74

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	510	0	489	0	521	1	475	2	487	3
Speed too fast	124	0	153	0	116	0	111	1	140	2
Speed too slow	3	0	0	0	0	0	4	0	1	0
Failed to yield	31	0	35	0	36	0	38	2	50	0
Disregard traffic control	7	0	5	0	4	0	1	0	4	2
Drove wrong way	0	0	0	0	0	0	0	0	1	0
Drove left of center	2	0	5	0	6	0	1	0	8	0
Improper passing	8	0	3	0	12	0	4	0	7	0
Improper lane use	7	0	4	0	6	0	7	0	5	0
Improper turn	5	0	4	0	4	0	6	0	1	0
Improper/no signal	3	0	0	0	2	0	0	0	0	0
Improper backing	17	0	13	0	8	0	19	0	12	0
Unable to stop in assured clear distance	43	0	47	0	43	0	34	0	47	0
Other	28	0	20	0	46	0	51	0	30	0
Unknown	5	1	9	0	8	0	12	1	19	0
Reckless driving	8	1	3	0	3	1	3	0	3	0
Careless/negligent driving	39	1	38	0	30	0	24	0	39	0
Uncoded & errors	40	0	7	0	5	0	2	0	0	0
Total	880	3	835	0	850	2	792	6	854	7



In 2016, there were no alcohol-involved fatal crashes in Leelanau County.

In 2016, there were 50 alcohol-involved crashes in Leelanau County:

- 0 K - Fatal Crashes
- 6 A - Suspected Serious Injury Crashes
- 16 B - Suspected Minor Injury Crashes
- 3 C - Possible Injury Crashes
- 25 O - Property Damage Only/No Injury Crashes

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