



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

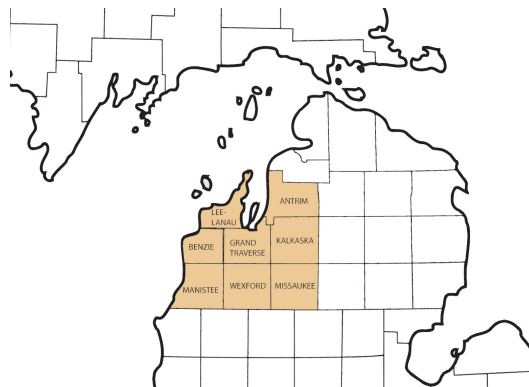
Property Damage Only (PDO)



Traffic Safety Network Traverse Bay Area

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

Traffic Safety Network Traverse Bay Area is comprised of Antrim, Benzie, Grand Traverse, Kalkaska, Leelanau, Manistee, Missaukee, and Wexford counties. Trend tables for this report are based on those counties.



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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TSN Traverse Bay Area Experience

In 2017:

There were 13,695 drivers involved in 9,445 motor vehicle crashes in Traffic Safety Network Traverse Bay Area. Of those crashes, 23 were classified as fatal, resulting in 27 fatalities. An additional 1,898 persons were injured.

Traffic Safety Network Traverse Bay Area experienced the highest number of motor vehicle crashes (1,177) in December, the highest number of fatal crashes (5) in September, and the highest number of persons killed (6) in July and September.

Michigan driver statistics indicate 6.5 percent of licensed drivers in Traffic Safety Network Traverse Bay Area were age 16-20, and 10.9 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	918	1	120	797	2	160
February	665	0	85	580	0	111
March	615	2	86	527	2	122
April	420	0	65	355	0	85
May	631	0	105	526	0	137
June	717	2	130	585	2	175
July	719	4	150	565	6	213
August	765	3	145	617	3	211
September	770	5	120	645	6	174
October	950	1	124	825	1	171
November	1,098	1	120	977	1	149
December	1,177	4	133	1,040	4	190
Total	9,445	23	1,383	8,039	27	1,898

2017 - Driver Statistics

Age Group	Traverse Bay Area			Driver Rates	
	2017 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	43,135	1,249	20	4.6	160.1
16 - 20	13,023	11,045	1,490	1,144.1	1,349.0
21 - 24	10,531	10,006	1,046	993.3	1,045.4
25 - 64	124,304	120,721	8,573	689.7	710.1
65 +	53,671	51,767	1,933	360.2	373.4
Unknown	0	0	633	--	--
Total	244,664	194,788	13,695	559.7	703.1

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	10,389	75.9	29	72.5	1,743	8,617
Motor home	28	0.2	0	0.0	6	22
Pickup truck	2,506	18.3	4	10.0	371	2,131
Small truck under 10,000 lbs. GVWR	118	0.9	0	0.0	16	102
Motorcycle	85	0.6	3	7.5	58	24
Moped / goped	14	0.1	0	0.0	10	4
Go-cart / golf cart	2	0.0	0	0.0	2	0
Snowmobile	19	0.1	0	0.0	15	4
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	27	0.2	1	2.5	21	5
Other	45	0.3	0	0.0	8	37
Truck/bus over 10,000 lbs.	294	2.1	3	7.5	43	248
Unknown	168	1.2	0	0.0	4	164
Total	13,695	100.0	40	100.0	2,297	11,358

Traffic Safety Network Traverse Bay Area (continued)

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	898	5	1,133	0	865	4	815	3	918	1
February	726	3	861	2	883	4	723	2	665	0
March	642	0	742	1	528	2	561	2	615	2
April	601	2	574	2	529	2	577	2	420	0
May	555	0	544	0	536	2	584	3	631	0
June	677	2	680	1	718	1	661	4	717	2
July	668	5	637	4	711	4	766	2	719	4
August	670	3	639	5	655	6	644	8	765	3
September	643	8	600	4	625	3	670	7	770	5
October	765	1	772	1	790	1	753	4	950	1
November	1,214	6	1,209	2	979	5	869	5	1,098	1
December	1,079	3	817	4	704	3	1,037	3	1,177	4
Total	9,138	38	9,208	26	8,523	37	8,660	45	9,445	23

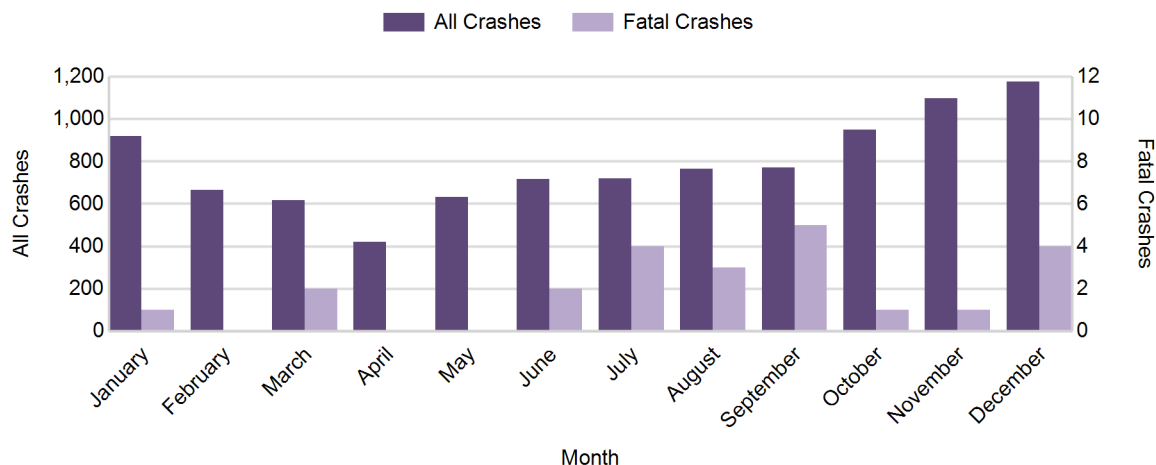
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

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	1,337	7	1,285	3	1,133	2	1,199	7	1,266	1
Tuesday	1,448	5	1,394	4	1,212	5	1,231	8	1,329	4
Wednesday	1,383	3	1,424	1	1,321	11	1,320	4	1,461	3
Thursday	1,419	3	1,330	3	1,350	6	1,323	7	1,524	2
Friday	1,441	10	1,648	4	1,365	6	1,493	7	1,548	3
Saturday	1,180	6	1,148	8	1,160	4	1,123	5	1,266	6
Sunday	930	4	979	3	982	3	971	7	1,051	4
Total	9,138	38	9,208	26	8,523	37	8,660	45	9,445	23

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

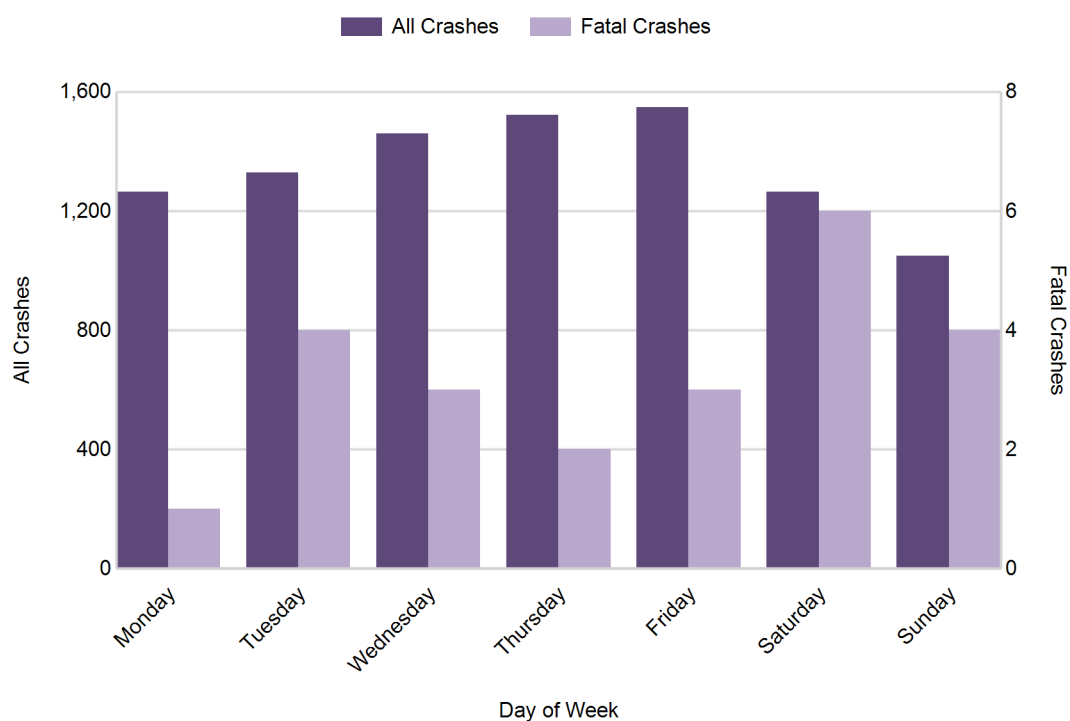
2017 Crashes by Month



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	1,266	13.4	1	4.3	26	47	101	1,091
Tuesday	1,329	14.1	4	17.4	25	55	114	1,131
Wednesday	1,461	15.5	3	13.0	22	56	119	1,261
Thursday	1,524	16.1	2	8.7	21	67	133	1,301
Friday	1,548	16.4	3	13.0	28	59	124	1,334
Saturday	1,266	13.4	6	26.1	42	61	109	1,048
Sunday	1,051	11.1	4	17.4	28	56	90	873
Total	9,445	100.0	23	100.0	192	401	790	8,039

2017 Day of Week and Severity

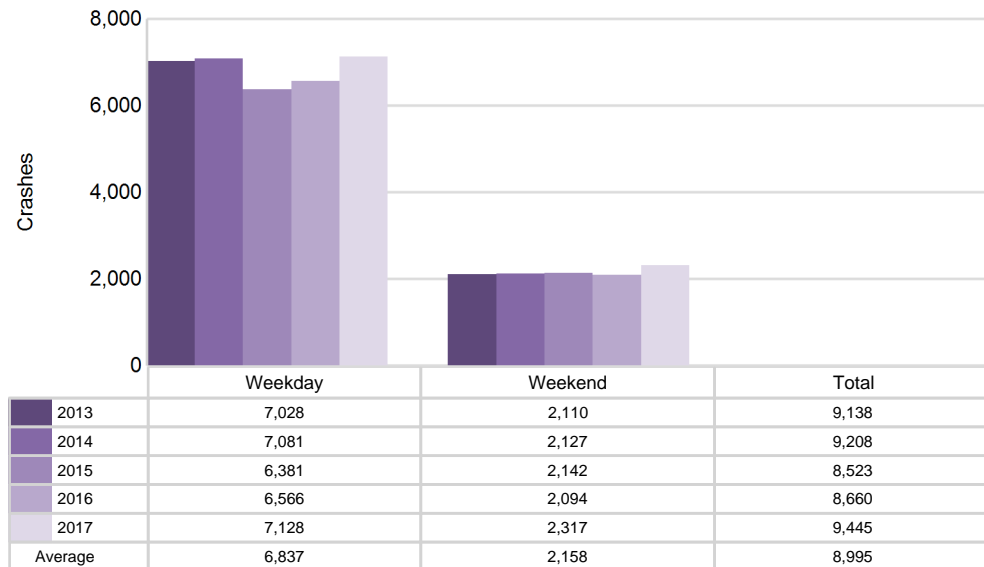


Traffic Safety Network Traverse Bay Area (continued)

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	7,028	28	7,081	15	6,381	30	6,566	33	7,128	13
Weekend	2,110	10	2,127	11	2,142	7	2,094	12	2,317	10
Total	9,138	38	9,208	26	8,523	37	8,660	45	9,445	23

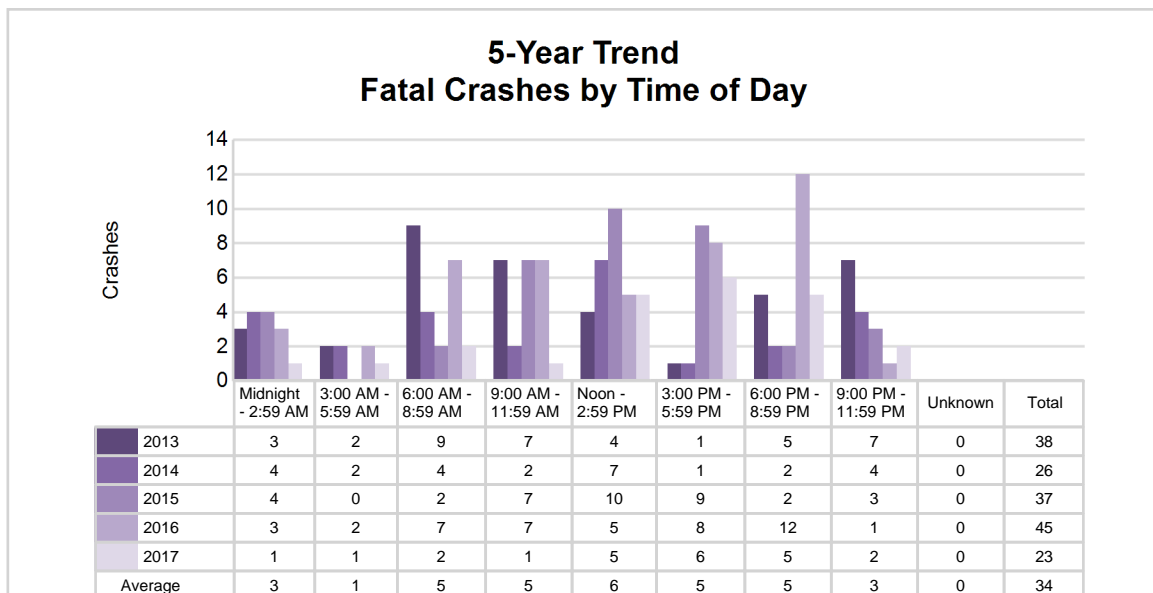
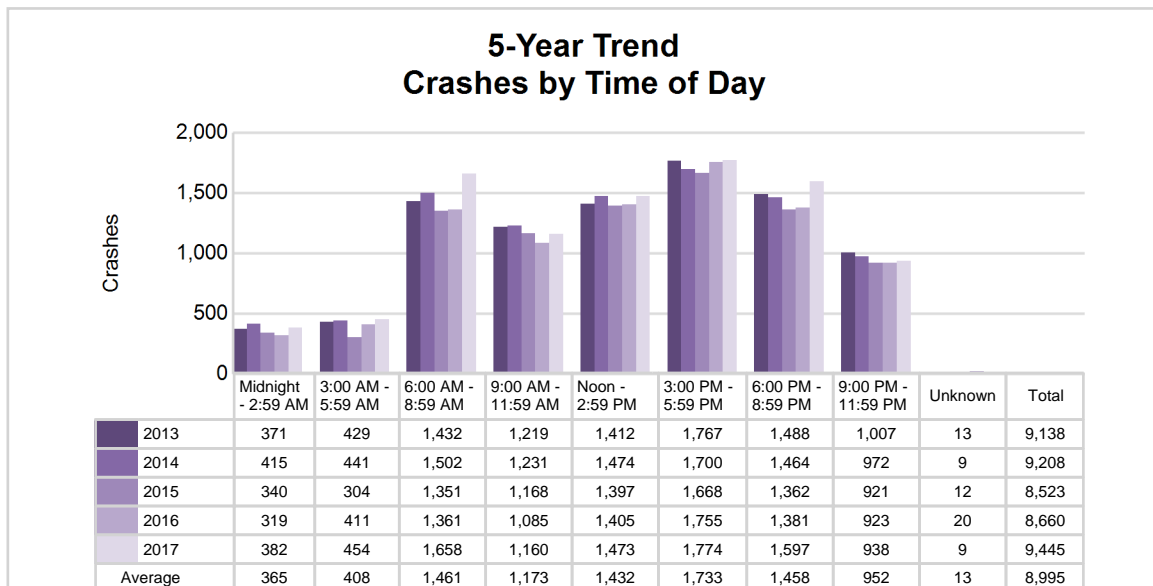
5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



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	371	3	415	4	340	4	319	3	382	1
3:00 AM - 5:59 AM	429	2	441	2	304	0	411	2	454	1
6:00 AM - 8:59 AM	1,432	9	1,502	4	1,351	2	1,361	7	1,658	2
9:00 AM - 11:59 AM	1,219	7	1,231	2	1,168	7	1,085	7	1,160	1
Noon - 2:59 PM	1,412	4	1,474	7	1,397	10	1,405	5	1,473	5
3:00 PM - 5:59 PM	1,767 †	1	1,700 †	1	1,668 †	9	1,755 †	8	1,774 †	6
6:00 PM - 8:59 PM	1,488	5	1,464	2	1,362	2	1,381	12	1,597	5
9:00 PM - 11:59 PM	1,007	7	972	4	921	3	923	1	938	2
Unknown	13	0	9	0	12	0	20	0	9	0
Total	9,138	38	9,208	26	8,523	37	8,660	45	9,445	23

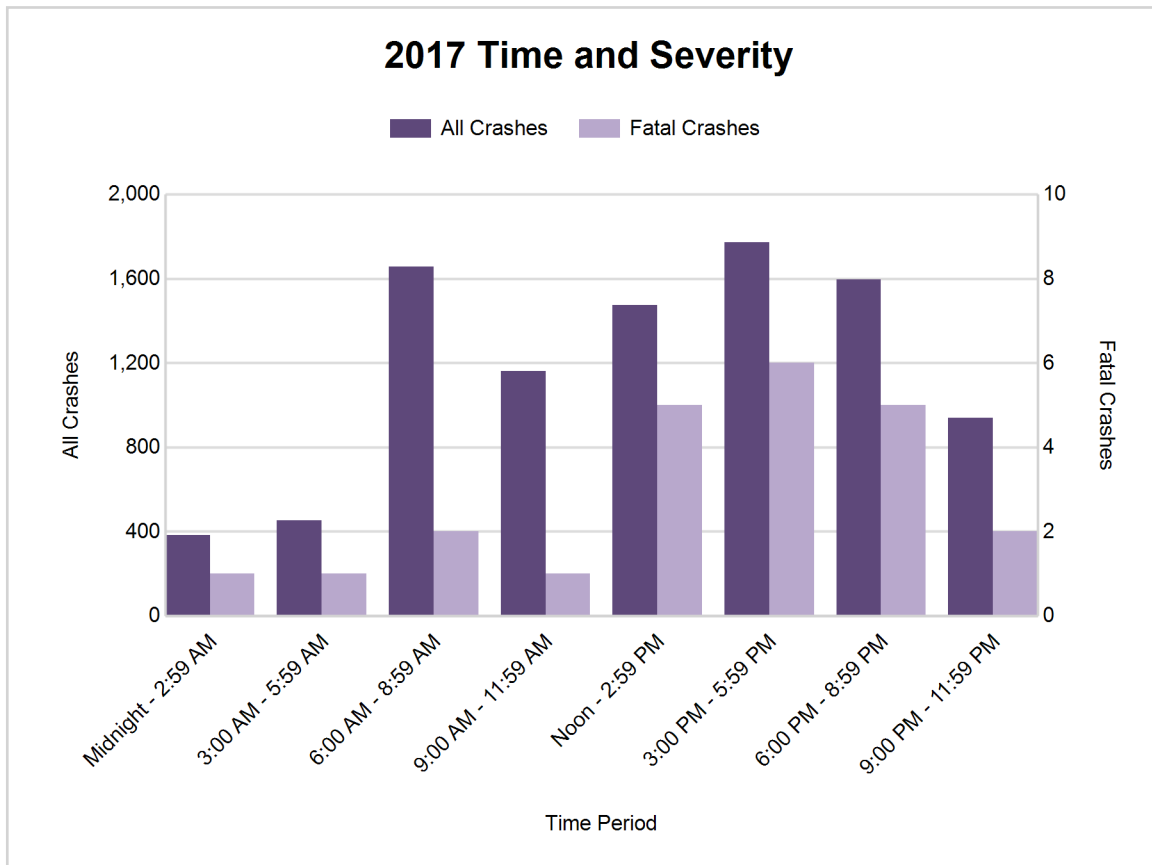
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same time period



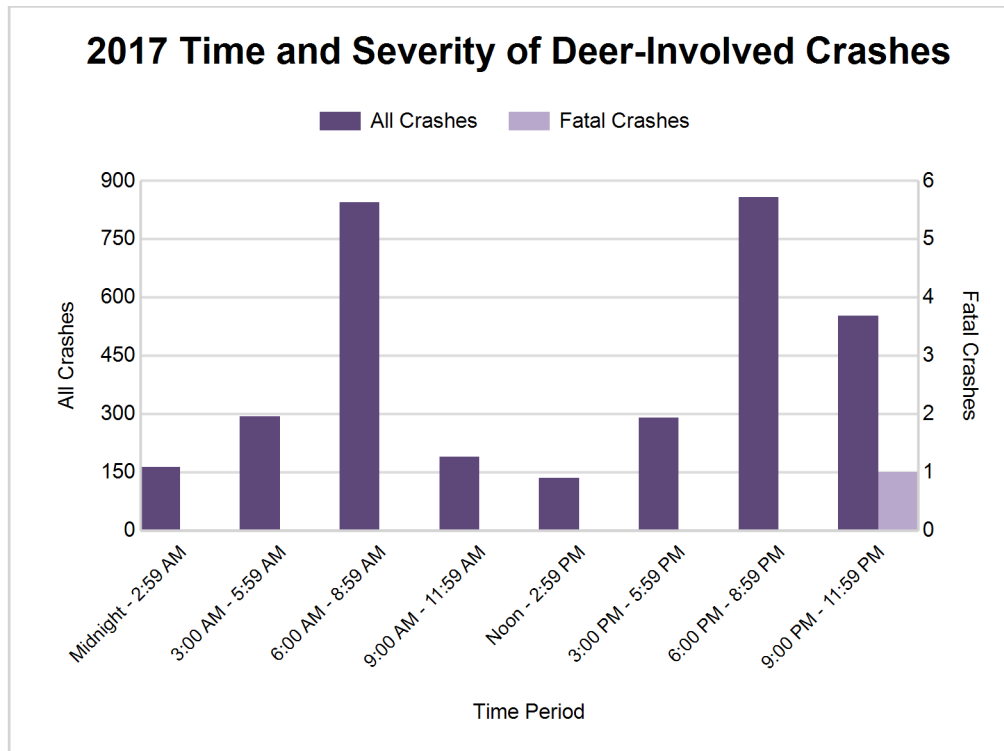
Traffic Safety Network Traverse Bay Area (continued)

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	382	4.0	1	4.3	15	31	28	307
3:00 AM - 5:59 AM	454	4.8	1	4.3	6	17	25	405
6:00 AM - 8:59 AM	1,658	17.6	2	8.7	16	49	103	1,488
9:00 AM - 11:59 AM	1,160	12.3	1	4.3	27	37	113	982
Noon - 2:59 PM	1,473	15.6	5	21.7	36	76	186	1,170
3:00 PM - 5:59 PM	1,774	18.8	6	26.1	35	89	204	1,440
6:00 PM - 8:59 PM	1,597	16.9	5	21.7	41	59	77	1,415
9:00 PM - 11:59 PM	938	9.9	2	8.7	16	43	53	824
Unknown	9	0.1	0	0.0	0	0	1	8
Total	9,445	100.0	23	100.0	192	401	790	8,039



Traffic Safety Network Traverse Bay Area (continued)



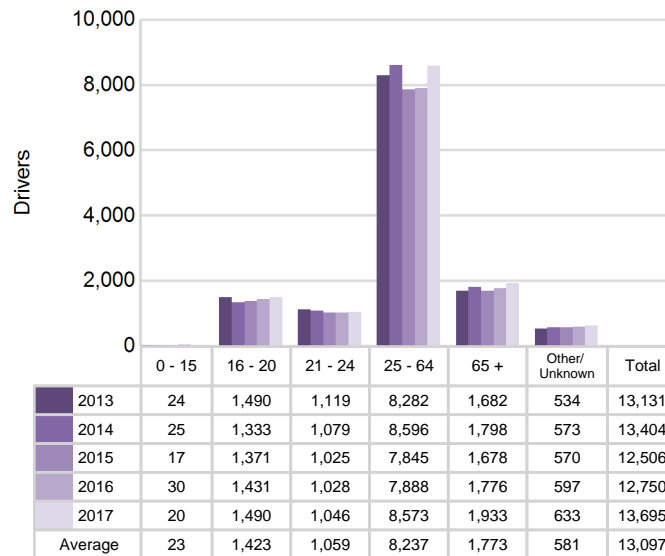
2017 - Reported Motor Vehicle Crashes by County

County	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Antrim	971	3	121	847	0	221	184	557	43	9	498	4	161
Benzie	634	0	82	552	0	162	123	345	32	10	305	0	104
Grand Traverse	3,734	8	609	3,117	0	1,027	491	2,215	122	32	665	8	834
Kalkaska	559	3	102	454	0	127	150	276	22	13	220	3	148
Leelanau	671	2	91	578	0	0	306	362	42	11	316	3	122
Manistee	967	3	99	865	0	256	182	527	22	7	544	3	140
Missaukee	633	0	61	572	0	0	240	392	22	9	389	0	84
Wexford	1,276	4	218	1,054	0	348	410	514	61	10	385	6	305
Total	9,445	23	1,383	8,039	0	2,141	2,086	5,188	366	101	3,322	27	1,898

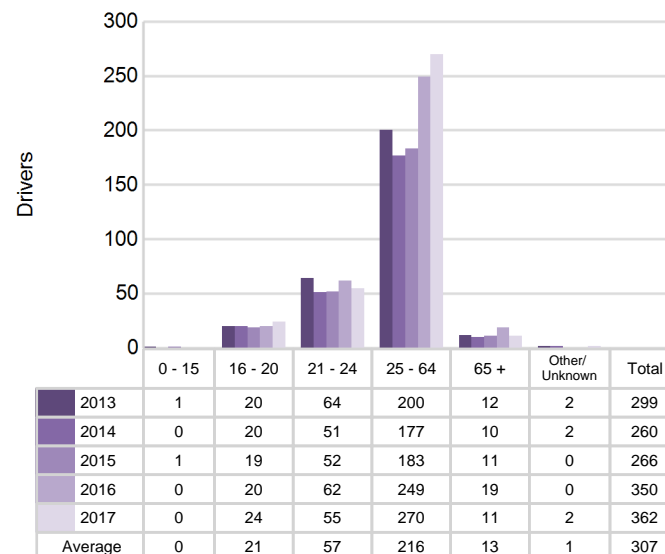
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

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	24	1	25	0	17	1	30	0	20	0
16 - 20	1,490	20	1,333	20	1,371	19	1,431	20	1,490	24
21 - 24	1,119	64	1,079	51	1,025	52	1,028	62	1,046	55
25 - 64	8,282	200	8,596	177	7,845	183	7,888	249	8,573	270
65 +	1,682	12	1,798	10	1,678	11	1,776	19	1,933	11
Unknown	534	2	573	2	570	0	597	0	633	2
Total	13,131	299	13,404	260	12,506	266	12,750	350	13,695	362

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



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



Traffic Safety Network Traverse Bay Area (continued)

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	31	35	18	24	1	2	7	4	10
21 - 24	59	62	49	55	2	8	17	12	16
25 - 64	330	309	210	270	6	24	63	65	112
65 +	23	27	8	11	0	2	3	2	4
Unknown	29	0	0	2	0	0	0	0	2
Total	472	433	285	362	9	36	90	83	144

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 472 drivers in alcohol-involved crashes; 362 (76.7%) of those drivers were coded as had-been-drinking by the officer on the crash form.

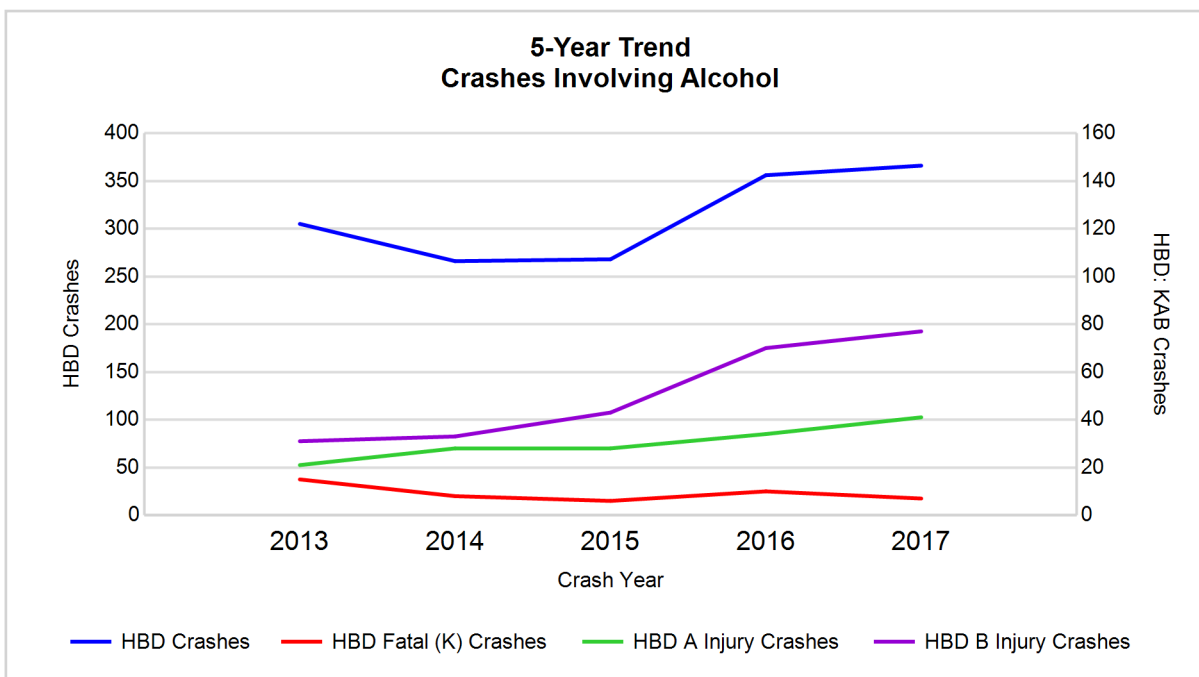
- 173 (47.8%) of the 362 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 83 (48.0%) of the 173 drivers had a BAC at or above 0.17 g/dL.
- 285 (78.7%) of the 362 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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	9,138	305	3.3	38	15	39.5	146	21	14.4	314	31	9.9
2014	9,208	266	2.9	26	8	30.8	140	28	20.0	280	33	11.8
2015	8,523	268	3.1	37	6	16.2	123	28	22.8	308	43	14.0
2016	8,660	356	4.1	45	10	22.2	155	34	21.9	386	70	18.1
2017	9,445**	366**	3.9	23*	7	30.4	192**	41**	21.4	401**	77**	19.2**

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



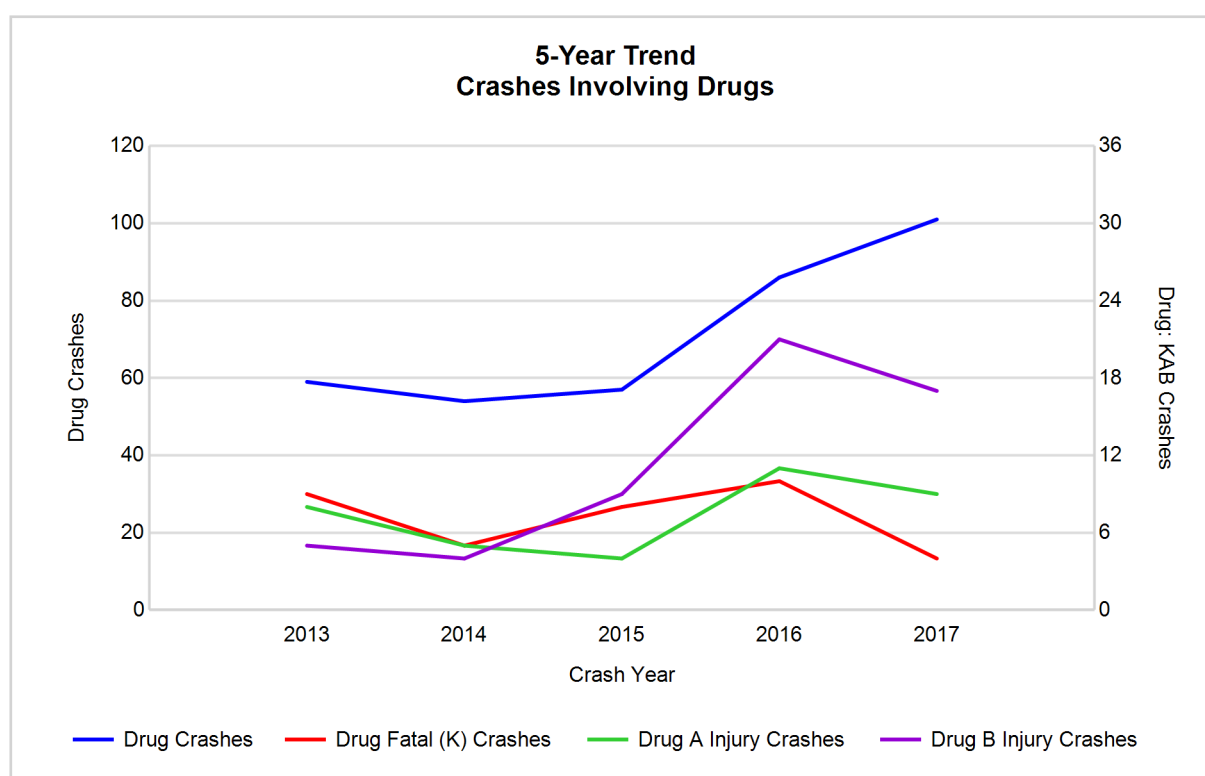
Note: Had-Been-Drinking (HBD)

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	9,138	59	0.6	38	9	23.7	146	8	5.5	314	5	1.6
2014	9,208	54	0.6	26	5	19.2	140	5	3.6	280	4	1.4
2015	8,523	57	0.7	37	8	21.6	123	4	3.3	308	9	2.9
2016	8,660	86	1.0	45	10	22.2	155	11	7.1	386	21	5.4
2017	9,445**	101**	1.1**	23*	4*	17.4*	192**	9	4.7	401**	17	4.2

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



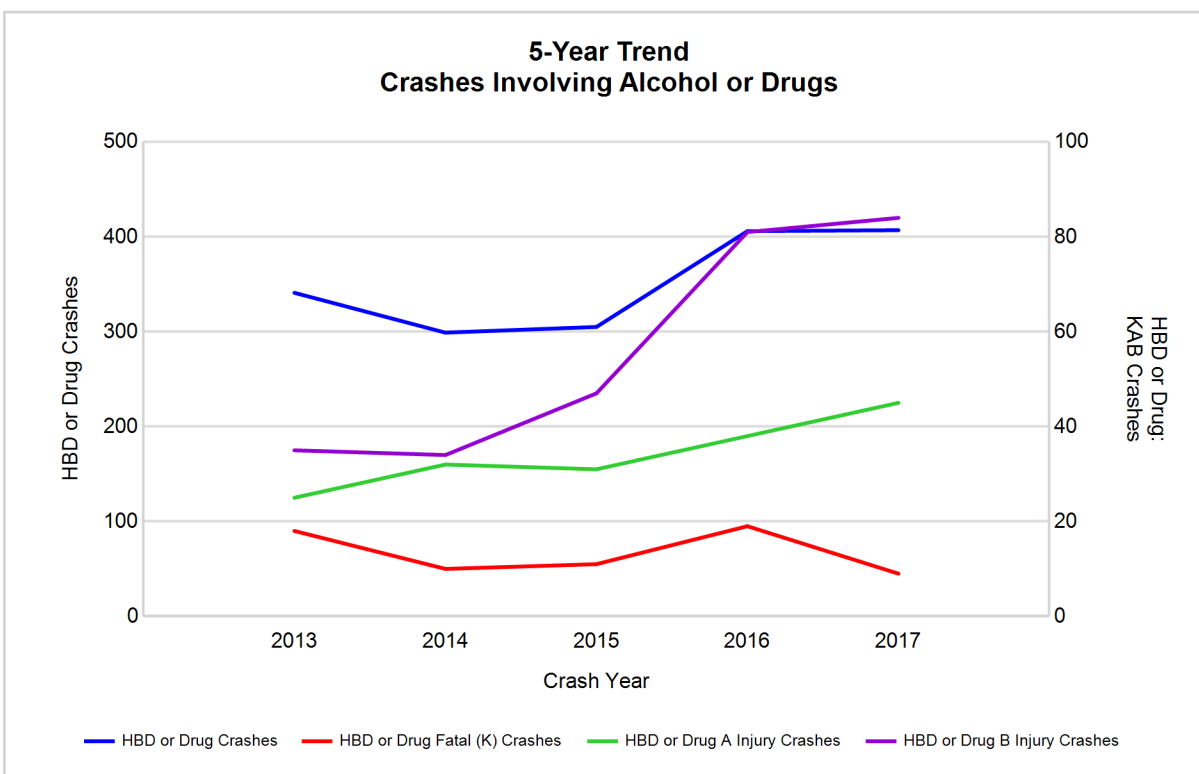
Traffic Safety Network Traverse Bay Area (continued)

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
2013	9,138	341	3.7	38	18	47.4	146	25	17.1	314	35	11.1
2014	9,208	299	3.2	26	10	38.5	140	32	22.9	280	34	12.1
2015	8,523	305	3.6	37	11	29.7	123	31	25.2	308	47	15.3
2016	8,660	406	4.7	45	19	42.2	155	38	24.5	386	81	21.0
2017	9,445**	407**	4.3	23*	9*	39.1	192**	45**	23.4	401**	84**	20.9

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)

Traffic Safety Network Traverse Bay Area (continued)

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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	10,773	10,096	93.7	18	12	66.7	126	100	79.4	359	324	90.3	961	921	95.8	8,921	8,705	97.6
Motor home	31	23	74.2	0	0	0.0	0	0	0.0	2	1	50.0	4	4	100.0	20	18	90.0
Pickup truck	2,568	2,374	92.4	1	0	0.0	36	28	77.8	73	59	80.8	140	132	94.3	2,198	2,142	97.5
Small truck under 10,000 lbs. GVWR	118	111	94.1	0	0	0.0	2	2	100.0	0	0	0.0	6	6	100.0	106	103	97.2
Motorcycle	94	61	64.9	4	2	50.0	26	13	50.0	24	17	70.8	14	10	71.4	25	19	76.0
Moped / goped	15	4	26.7	0	0	0.0	2	1	50.0	4	1	25.0	4	1	25.0	5	1	20.0
Go-cart / golf cart	3	0	0.0	0	0	0.0	1	0	0.0	0	0	0.0	1	0	0.0	1	0	0.0
Snowmobile	20	18	90.0	0	0	0.0	8	8	100.0	5	4	80.0	3	3	100.0	4	3	75.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	33	13	39.4	1	0	0.0	16	4	25.0	4	2	50.0	2	1	50.0	9	6	66.7
Other	45	28	62.2	0	0	0.0	1	0	0.0	1	0	0.0	1	0	0.0	35	27	77.1
Truck/bus over 10,000 lbs.	297	276	92.9	0	0	0.0	0	0	0.0	3	3	100.0	17	14	82.4	267	258	96.6
Unknown	168	1	0.6	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	1	1	100.0
Total	14,165	13,005	91.8	24	14	58.3	218	156	71.6	475	411	86.5	1,153	1,092	94.7	11,592	11,283	97.3

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	138	128	92.8	0	0	0.0	9	6	66.7	29	25	86.2	85	82	96.5	15	15	100.0
16 - 20	1,549	1,501	96.9	1	0	0.0	17	9	52.9	64	59	92.2	151	141	93.4	1,313	1,290	98.2
21 - 24	1,081	1,019	94.3	4	2	50.0	15	5	33.3	48	37	77.1	92	84	91.3	914	884	96.7
25 - 64	8,755	8,402	96.0	13	8	61.5	141	107	75.9	260	224	86.2	671	634	94.5	7,612	7,397	97.2
65 +	2,008	1,951	97.2	6	4	66.7	36	29	80.6	73	65	89.0	153	150	98.0	1,728	1,695	98.1
Unknown	634	4	0.6	0	0	0.0	0	0	0.0	1	1	100.0	1	1	100.0	10	2	20.0
Total	14,165	13,005	91.8	24	14	58.3	218	156	71.6	475	411	86.5	1,153	1,092	94.7	11,592	11,283	97.3

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.

Traffic Safety Network Traverse Bay Area (continued)

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	59	1	11	118	0	12	74	1	15	51	0	9	37	0	10
Shoulder belt only used	6	0	2	25	0	2	36	0	9	39	0	3	67	0	5
Lap belt only used	40	0	7	68	0	4	54	0	1	50	0	6	39	0	3
Both lap & shoulder belts used	12,077	17	1,034	12,207	7	924	11,372	10	946	11,586	17	1,011	12,404	10	1,191
No belts used	63	8	27	105	1	31	97	9	43	96	8	47	113	5	47
Child restraint used	0	0	0	0	0	0	0	0	0	3	0	1	3	0	1
Child restraint not used, unavailable or improper use	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Restraint failure	12	0	1	6	1	1	3	0	0	6	0	2	6	0	2
Restraint use unknown	246	1	31	248	0	32	213	1	22	547	2	33	836	1	37
Helmet worn	117	2	84	110	2	85	101	6	70	96	2	70	81	1	55
Helmet not worn	22	0	21	26	0	20	41	0	33	35	5	25	35	2	26
Helmet use unknown	4	1	2	3	0	1	10	1	4	7	0	5	8	0	4
Uncoded & errors	482	0	2	487	0	0	505	0	1	234	0	2	66	0	0
Total	13,131	30	1,222	13,404	11	1,112	12,506	28	1,144	12,750	34	1,214	13,695	19	1,381

5-Year Trend - Restraint Use Among Drivers Coded Drinking

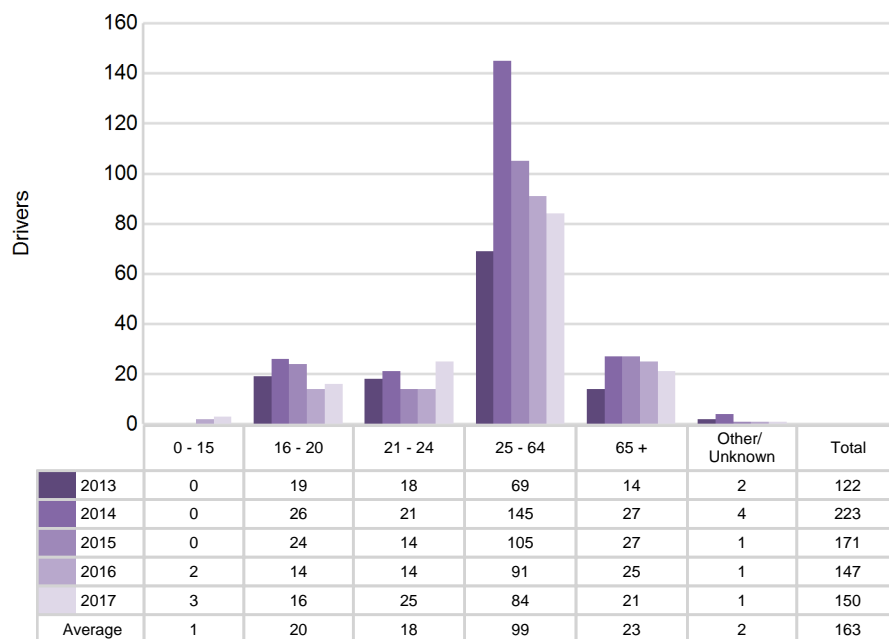
Restraint Use	2013			2014			2015			2016			2017		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	0	0	0	6	0	1	3	0	3	3	0	1	0	0	0
Shoulder belt only used	2	0	2	1	0	1	1	0	0	1	0	1	1	0	0
Lap belt only used	3	0	2	2	0	0	0	0	0	0	0	0	0	0	0
Both lap & shoulder belts used	205	4	46	187	1	46	193	1	55	257	3	81	249	1	79
No belts used	17	5	7	15	1	13	19	2	14	22	3	16	19	2	16
Child restraint used	0	0	0	0	0	0	0	0	0	1	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	2	0	0	0	0	0	1	0	1	0	0	0
Restraint use unknown	57	1	16	35	0	14	32	0	12	48	0	17	77	1	18
Helmet worn	10	1	7	8	1	7	9	2	7	8	1	5	5	0	4
Helmet not worn	3	0	3	3	0	3	7	0	7	4	1	3	8	0	7
Helmet use unknown	0	0	0	0	0	0	1	0	1	2	0	2	1	0	1
Uncoded & errors	2	0	0	1	0	0	1	0	0	3	0	2	2	0	0
Total	299	11	83	260	3	85	266	5	99	350	8	129	362	4	125

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	2	0	2	3	0	3
16 - 20	19	0	11	26	1	6	24	1	12	14	0	5	16	1	7
21 - 24	18	0	4	21	0	7	14	1	3	14	1	7	25	2	10
25 - 64	69	6	20	145	0	29	105	5	36	91	5	33	84	1	28
65 +	14	3	3	27	0	1	27	3	7	25	2	9	21	1	9
Unknown	2	0	0	4	0	0	1	0	0	1	0	0	1	0	0
Total	122	9	38	223	1	43	171	10	58	147	8	56	150	5	57

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

5-Year Trend Driver Seatbelt Not Used



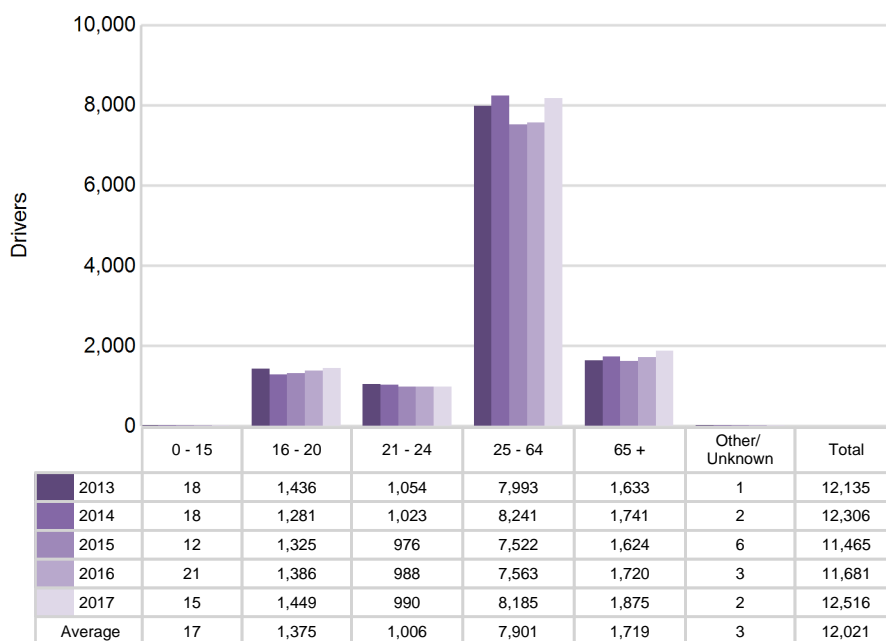
Traffic Safety Network Traverse Bay Area (continued)

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	18	1	1	18	0	3	12	0	3	21	0	5	15	0	0
16 - 20	1,436	3	129	1,281	0	98	1,325	3	131	1,386	2	123	1,449	0	159
21 - 24	1,054	0	92	1,023	3	99	976	0	93	988	1	92	990	1	100
25 - 64	7,993	7	653	8,241	5	568	7,522	3	558	7,563	4	650	8,185	6	769
65 +	1,633	6	169	1,741	0	163	1,624	4	171	1,720	10	152	1,875	3	172
Unknown	1	0	0	2	0	0	6	0	0	3	0	0	2	0	1
Total	12,135	17	1,044	12,306	8	931	11,465	10	956	11,681	17	1,022	12,516	10	1,201

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

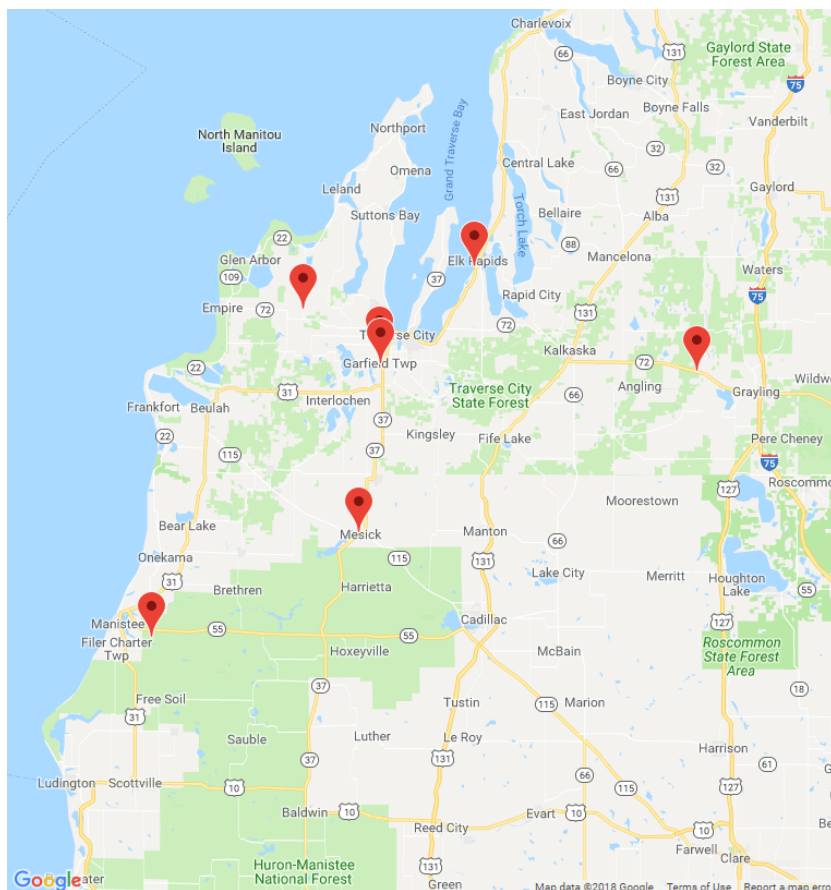
5-Year Trend Driver Seatbelt Used



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	7,353	25	7,752	18	7,326	21	7,048	29	7,779	17
Speed too fast	1,615	14	1,507	6	1,139	13	1,306	12	1,358	5
Speed too slow	15	0	18	0	18	0	14	0	11	0
Failed to yield	1,008	3	1,154	2	1,040	4	1,095	6	1,133	2
Disregard traffic control	151	8	138	0	143	0	147	4	142	2
Drove wrong way	3	0	5	0	5	0	6	0	4	0
Drove left of center	92	1	101	4	79	6	107	4	116	4
Improper passing	39	0	55	0	63	0	60	0	52	0
Improper lane use	150	0	132	1	136	0	162	3	169	0
Improper turn	63	0	72	0	66	0	77	0	89	0
Improper/no signal	21	0	33	0	16	0	7	0	8	0
Improper backing	177	0	202	0	189	0	180	0	181	0
Unable to stop in assured clear distance	1,378	0	1,340	0	1,337	3	1,390	1	1,404	2
Other	338	1	389	2	402	1	375	1	379	1
Unknown	223	3	200	2	224	5	397	9	492	4
Reckless driving	41	2	29	2	42	1	34	1	39	3
Careless/negligent driving	285	2	228	1	238	4	280	2	292	0
Uncoded & errors	179	0	49	0	43	0	65	3	47	0
Total	13,131	59	13,404	38	12,506	58	12,750	75	13,695	40

Traffic Safety Network Traverse Bay Area (continued)



The picture above represents all 2017 alcohol-involved fatal crashes in TSN Traverse Bay Area

In 2017, there were 366 alcohol-involved crashes in TSN Traverse Bay Area:

- 7 K - Fatal Crashes
- 41 A - Suspected Serious Injury Crashes
- 77 B - Suspected Minor Injury Crashes
- 43 C - Possible Injury Crashes
- 198 O - Property Damage Only/No Injury Crashes

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