



2018

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

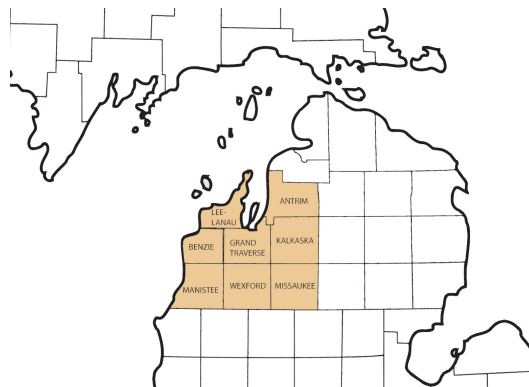
Property Damage Only (PDO)



Traffic Safety Network Traverse Bay Area

2018 Traffic Crash Data & 2014-2018 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 2018:

There were 13,536 drivers involved in 9,508 motor vehicle crashes in Traffic Safety Network Traverse Bay Area. Of those crashes, 29 were classified as fatal, resulting in 32 fatalities. An additional 1,749 persons were injured.

Traffic Safety Network Traverse Bay Area experienced the highest number of motor vehicle crashes (1,198) in November, the highest number of fatal crashes (4) in May, June, September, October, and November, and the highest number of persons killed (5) in June and October.

Michigan driver statistics indicate 6.4 percent of licensed drivers in Traffic Safety Network Traverse Bay Area were age 16-20, and 9.9 percent of drivers in crashes were also in that age group.

2018 - Crashes and Injuries by Month

Month	Crashes				Persons	
	Total	Fatal	Injury	Property Damage Only (PDO)	Fatalities	Injuries
January	905	0	88	817	0	120
February	697	0	74	623	0	93
March	735	3	95	637	3	126
April	656	3	91	562	3	127
May	608	4	97	507	4	143
June	749	4	103	642	5	139
July	735	1	139	595	2	177
August	679	0	146	533	0	206
September	646	4	112	530	4	157
October	881	4	98	779	5	155
November	1,198	4	109	1,085	4	169
December	1,019	2	106	911	2	137
Total	9,508	29	1,258	8,221	32	1,749

2018 - Driver Statistics

Age Group	Traverse Bay Area			Driver Rates	
	2018 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	43,056	1,324	24	5.6	181.3
16 - 20	12,974	10,861	1,346	1,037.5	1,239.3
21 - 24	10,361	9,851	1,052	1,015.3	1,067.9
25 - 64	124,424	120,509	8,542	686.5	708.8
65 +	55,571	53,504	2,042	367.5	381.7
Unknown	0	0	530	--	--
Total	246,386	196,049	13,536	549.4	690.4

2018 - 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	10,308	76.2	30	62.5	1,561	8,717
Motor home	23	0.2	0	0.0	7	16
Pickup truck	2,497	18.4	10	20.8	344	2,143
Small truck under 10,000 lbs. GVWR	81	0.6	0	0.0	10	71
Motorcycle	98	0.7	3	6.3	73	22
Moped / goped	9	0.1	0	0.0	9	0
Go-cart / golf cart	3	0.0	0	0.0	0	3
Snowmobile	10	0.1	0	0.0	8	2
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	15	0.1	2	4.2	8	5
Other	43	0.3	0	0.0	7	36
Truck/bus over 10,000 lbs.	311	2.3	3	6.3	55	253
Unknown	138	1.0	0	0.0	5	133
Total	13,536	100.0	48	100.0	2,087	11,401

TSN Traverse Bay Area (continued)

5-Year Trend - Crashes by Month

Month	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
January	1,133	0	865	4	815	3	918	1	905	0
February	861	2	883	4	723	2	665	0	697	0
March	742	1	528	2	561	2	615	2	735	3
April	574	2	529	2	577	2	420	0	656	3
May	544	0	536	2	584	3	631	0	608	4
June	680	1	718	1	661	4	717	2	749	4
July	637	4	711	4	766	2	719	4	735	1
August	639	5	655	6	644	8	765	3	679	0
September	600	4	625	3	670	7	770	5	646	4
October	772	1	790	1	753	4	950	1	881	4
November	1,209	2	979	5	869	5	1,098	1	1,198	4
December	817	4	704	3	1,037	3	1,177	4	1,019	2
Total	9,208	26	8,523	37	8,660	45	9,445	23	9,508	29

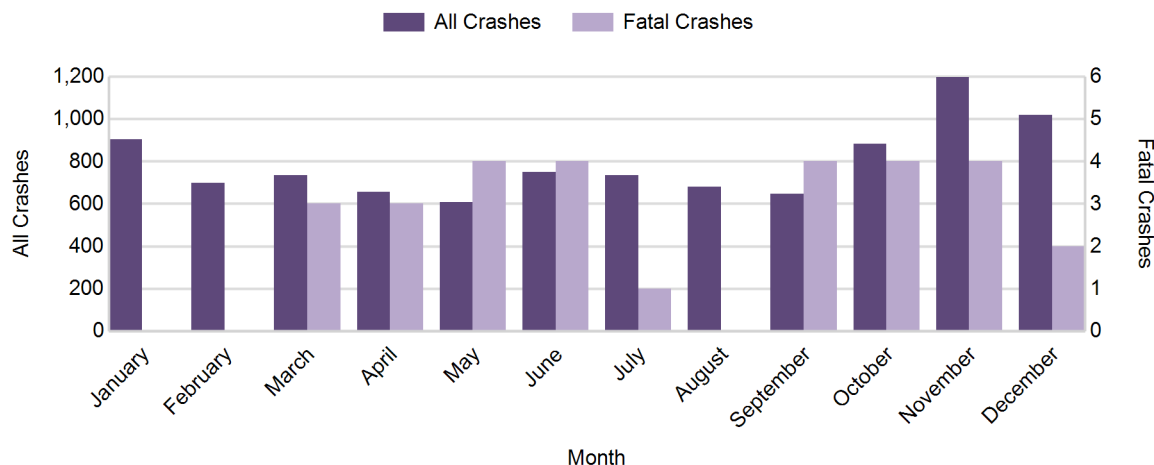
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

5-Year Trend - Crashes by Day of Week

Day	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Monday	1,285	3	1,133	2	1,199	7	1,266	1	1,323	5
Tuesday	1,394	4	1,212	5	1,231	8	1,329	4	1,533	7
Wednesday	1,424	1	1,321	11	1,320	4	1,461	3	1,369	1
Thursday	1,330	3	1,350	6	1,323	7	1,524	2	1,472	1
Friday	1,648 †	4	1,365 †	6	1,493 †	7	1,548 †	3	1,564 †	5
Saturday	1,148	8	1,160	4	1,123	5	1,266	6	1,240	6
Sunday	979	3	982	3	971	7	1,051	4	1,007	4
Total	9,208	26	8,523	37	8,660	45	9,445	23	9,508	29

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

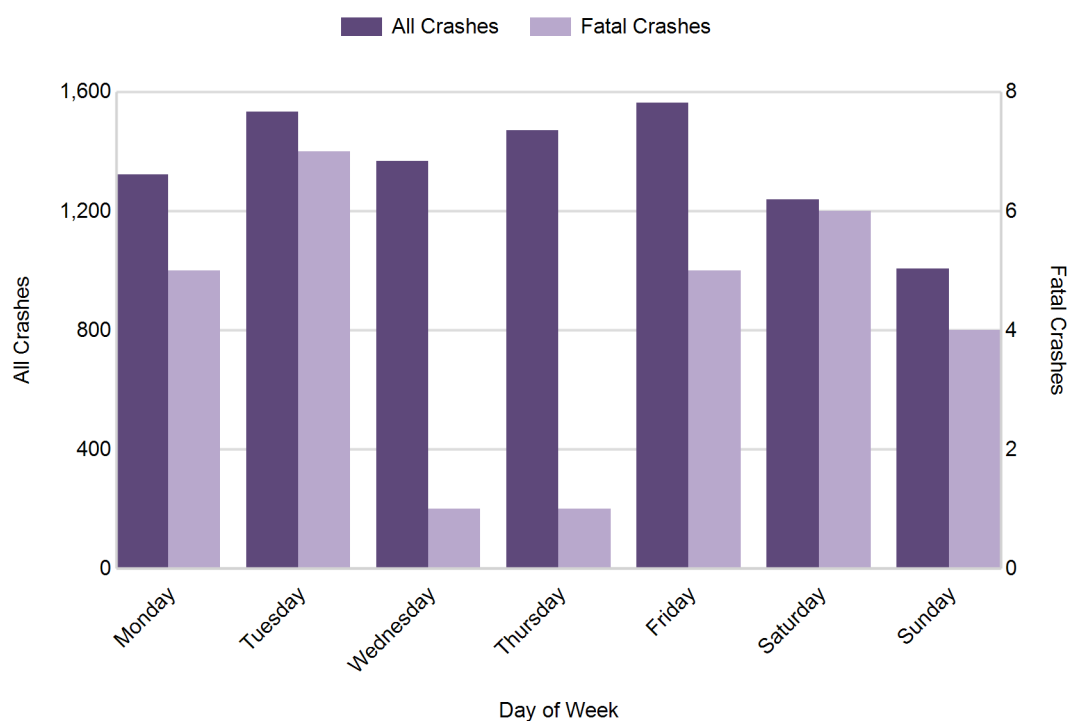
2018 Crashes by Month



2018 - 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	1,323	13.9	5	17.2	19	60	90	1,149
Tuesday	1,533	16.1	7	24.1	17	66	129	1,314
Wednesday	1,369	14.4	1	3.4	21	56	108	1,183
Thursday	1,472	15.5	1	3.4	25	44	113	1,289
Friday	1,564	16.4	5	17.2	20	69	122	1,348
Saturday	1,240	13.0	6	20.7	26	43	94	1,071
Sunday	1,007	10.6	4	13.8	34	42	60	867
Total	9,508	100.0	29	100.0	162	380	716	8,221

2018 Day of Week and Severity

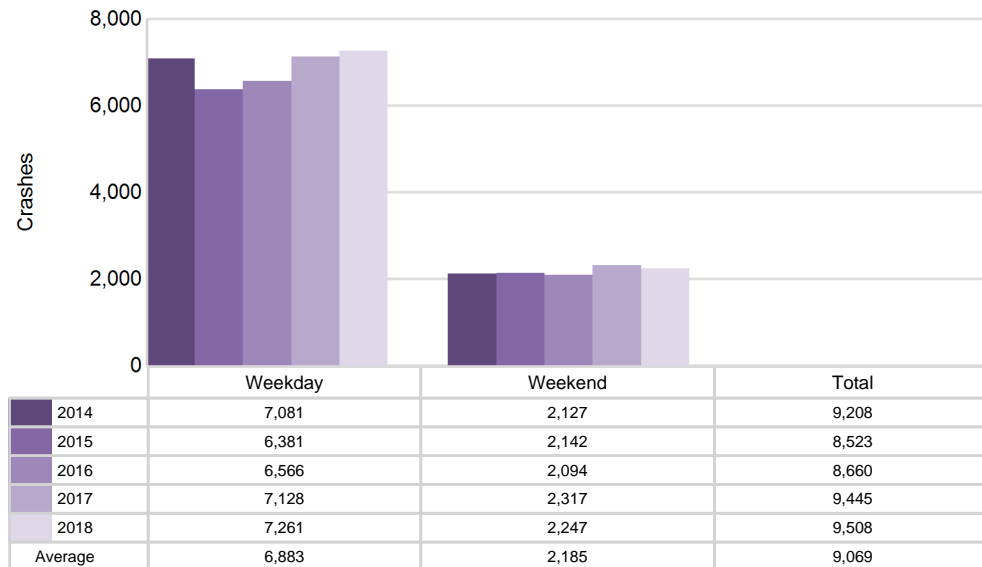


TSN Traverse Bay Area (continued)

5-Year Trend - Crashes by Weekday and Weekend

Portion of Week	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Weekday	7,081	15	6,381	30	6,566	33	7,128	13	7,261	19
Weekend	2,127	11	2,142	7	2,094	12	2,317	10	2,247	10
Total	9,208	26	8,523	37	8,660	45	9,445	23	9,508	29

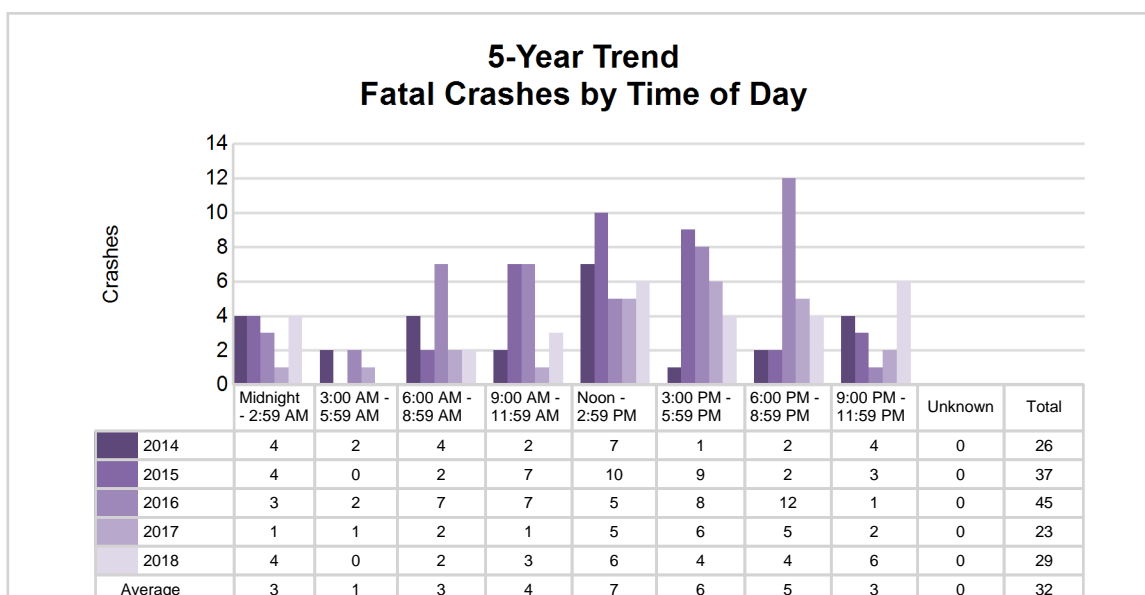
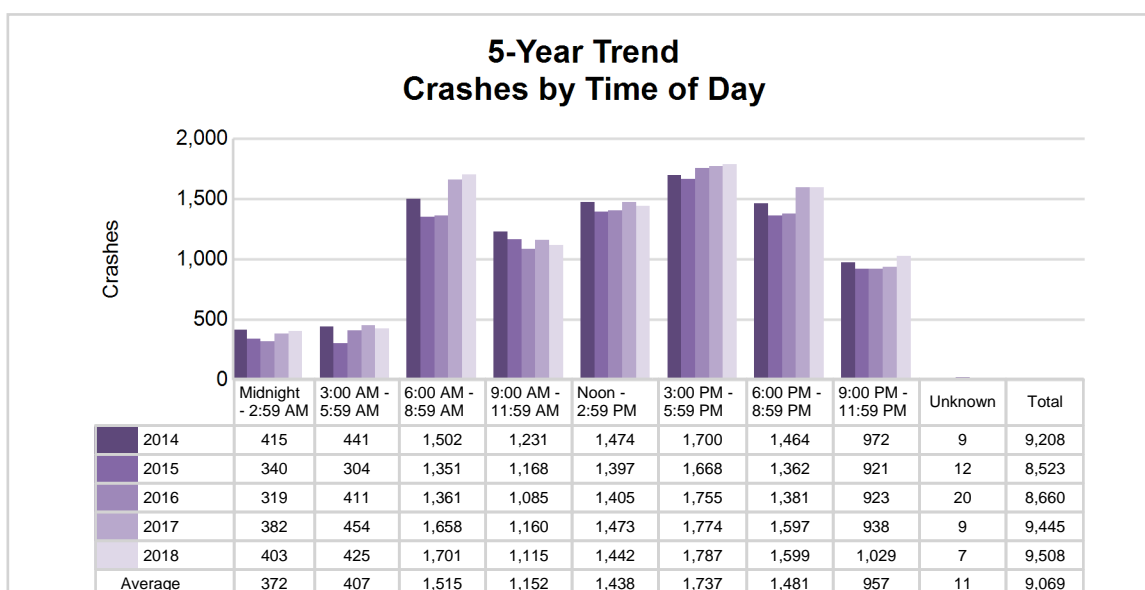
5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



5-Year Trend - Crashes by Time of Day

Time of Day	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	415	4	340	4	319	3	382	1	403	4
3:00 AM - 5:59 AM	441	2	304	0	411	2	454	1	425	0
6:00 AM - 8:59 AM	1,502	4	1,351	2	1,361	7	1,658	2	1,701	2
9:00 AM - 11:59 AM	1,231	2	1,168	7	1,085	7	1,160	1	1,115	3
Noon - 2:59 PM	1,474	7	1,397	10	1,405	5	1,473	5	1,442	6
3:00 PM - 5:59 PM	1,700 †	1	1,668 †	9	1,755 †	8	1,774 †	6	1,787 †	4
6:00 PM - 8:59 PM	1,464	2	1,362	2	1,381	12	1,597	5	1,599	4
9:00 PM - 11:59 PM	972	4	921	3	923	1	938	2	1,029	6
Unknown	9	0	12	0	20	0	9	0	7	0
Total	9,208	26	8,523	37	8,660	45	9,445	23	9,508	29

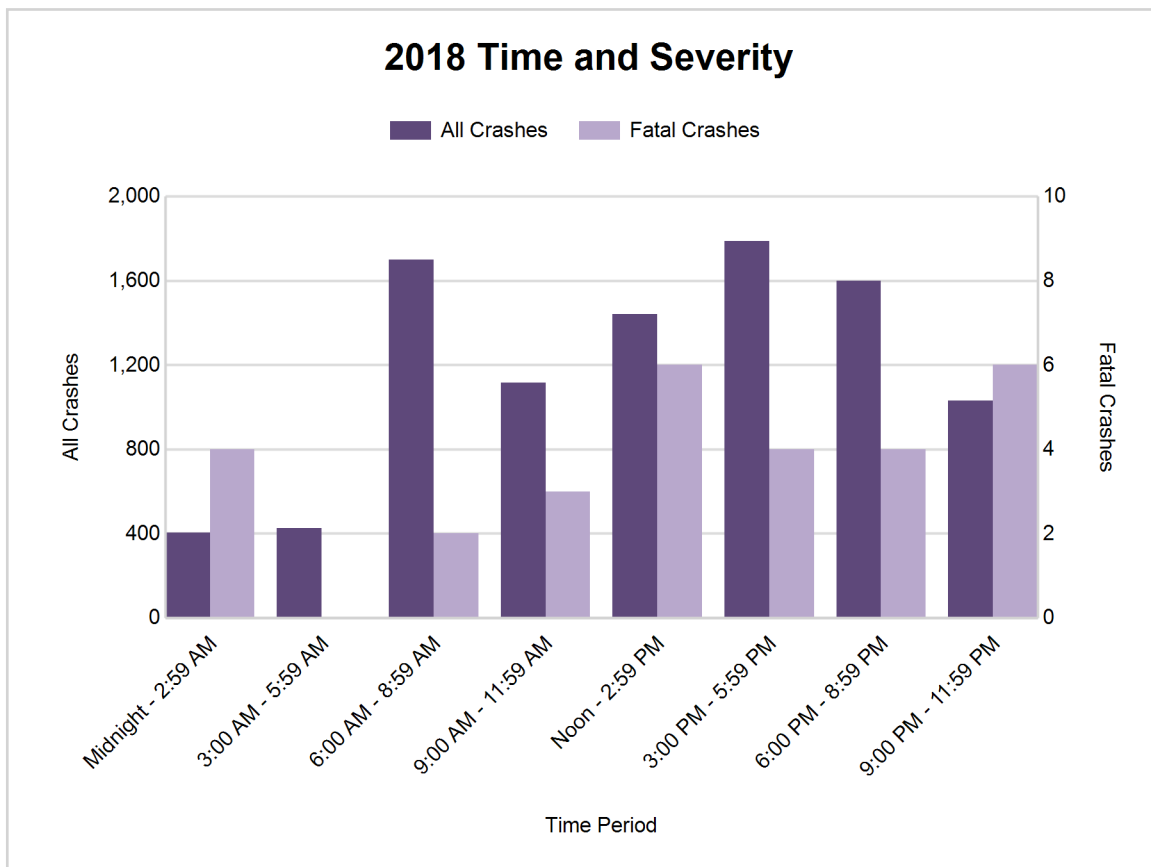
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same time period



TSN Traverse Bay Area (continued)

2018 - 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	403	4.2	4	13.8	11	14	24	350
3:00 AM - 5:59 AM	425	4.5	0	0.0	5	12	29	379
6:00 AM - 8:59 AM	1,701	17.9	2	6.9	15	53	86	1,545
9:00 AM - 11:59 AM	1,115	11.7	3	10.3	22	57	111	922
Noon - 2:59 PM	1,442	15.2	6	20.7	35	87	129	1,185
3:00 PM - 5:59 PM	1,787	18.8	4	13.8	33	89	191	1,470
6:00 PM - 8:59 PM	1,599	16.8	4	13.8	31	41	90	1,433
9:00 PM - 11:59 PM	1,029	10.8	6	20.7	10	27	55	931
Unknown	7	0.1	0	0.0	0	0	1	6
Total	9,508	100.0	29	100.0	162	380	716	8,221



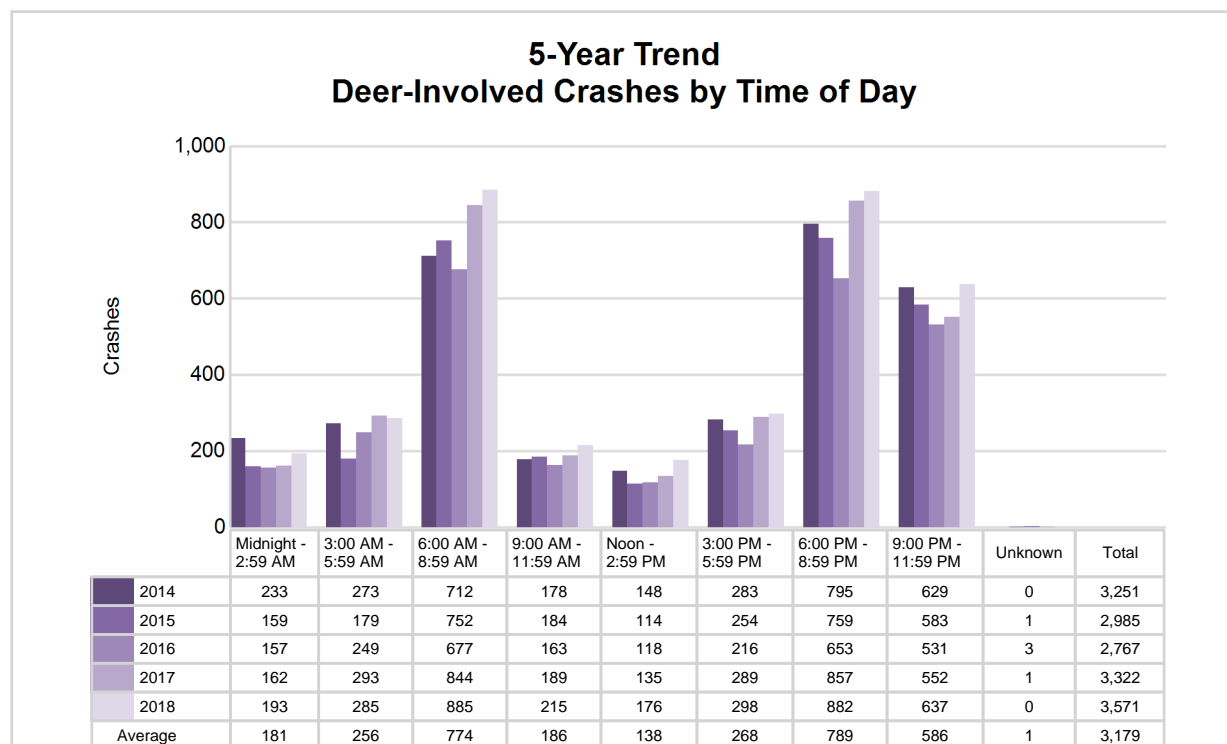
TSN Traverse Bay Area (continued)

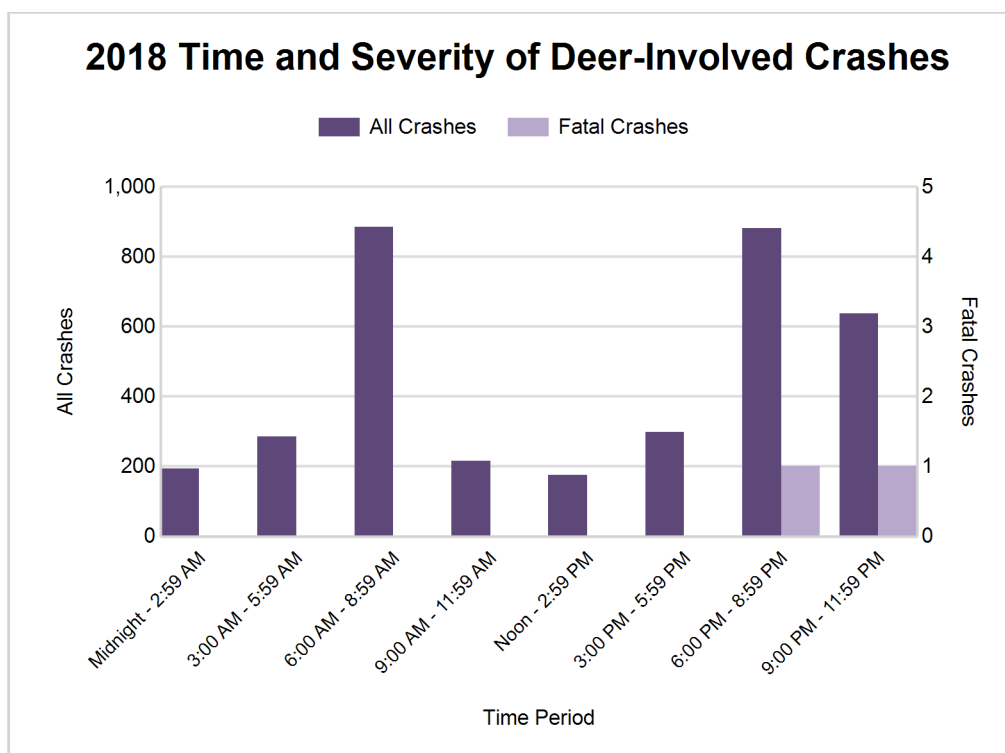
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5-Year Trend - Deer-Involved Crashes by Time of Day

Time of Day	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	233	0	159	0	157	0	162	0	193	0
3:00 AM - 5:59 AM	273	0	179	0	249	0	293	0	285	0
6:00 AM - 8:59 AM	712	0	752	0	677	0	844	0	885	0
9:00 AM - 11:59 AM	178	0	184	0	163	0	189	0	215	0
Noon - 2:59 PM	148	0	114	0	118	0	135	0	176	0
3:00 PM - 5:59 PM	283	0	254	0	216	0	289	0	298	0
6:00 PM - 8:59 PM	795	0	759	0	653	1	857	0	882	1
9:00 PM - 11:59 PM	629	0	583	0	531	0	552	1	637	1
Unknown	0	0	1	0	3	0	1	0	0	0
Total	3,251	0	2,985	0	2,767	1	3,322	1	3,571	2

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





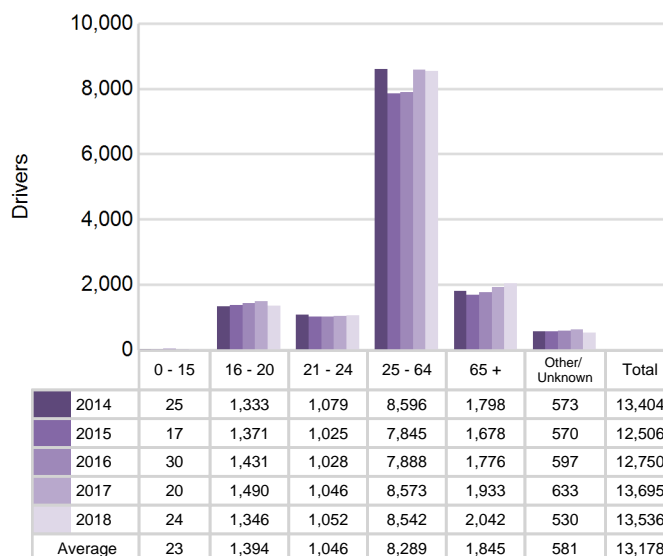
2018 - Reported Motor Vehicle Crashes by County

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	925	2	105	818	0	199	194	526	28	8	497	2	143
Benzie	645	3	62	580	0	174	117	352	34	14	327	4	85
Grand Traverse	3,665	6	583	3,076	0	1,046	469	2,147	119	33	752	6	844
Kalkaska	620	5	83	532	0	136	171	313	21	6	280	5	106
Leelanau	680	3	77	600	0	0	334	346	38	8	338	4	103
Manistee	969	4	99	866	0	245	213	511	24	8	536	4	134
Missaukee	697	1	74	622	0	0	237	460	18	3	406	1	104
Wexford	1,307	5	175	1,127	0	370	388	544	43	10	435	6	230
Total	9,508	29	1,258	8,221	0	2,170	2,123	5,199	325	90	3,571	32	1,749

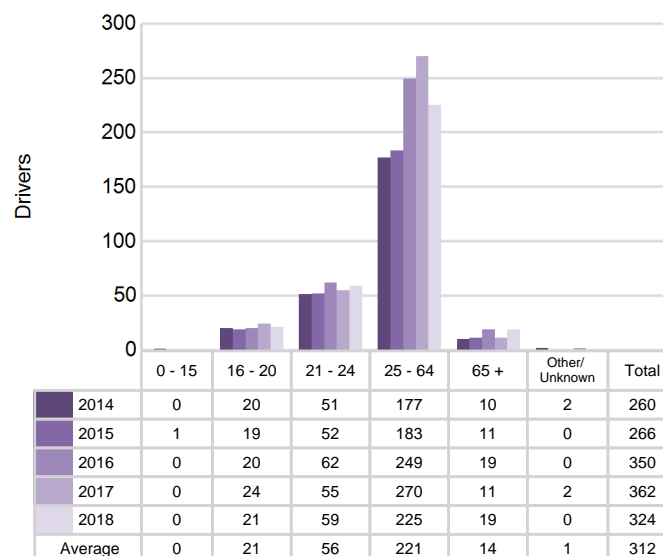
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

Driver Age	2014		2015		2016		2017		2018	
	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	25	0	17	1	30	0	20	0	24	0
16 - 20	1,333	20	1,371	19	1,431	20	1,490	24	1,346	21
21 - 24	1,079	51	1,025	52	1,028	62	1,046	55	1,052	59
25 - 64	8,596	177	7,845	183	7,888	249	8,573	270	8,542	225
65 +	1,798	10	1,678	11	1,776	19	1,933	11	2,042	19
Unknown	573	2	570	0	597	0	633	2	530	0
Total	13,404	260	12,506	266	12,750	350	13,695	362	13,536	324

5-Year Trend Total Drivers in Crashes by Age

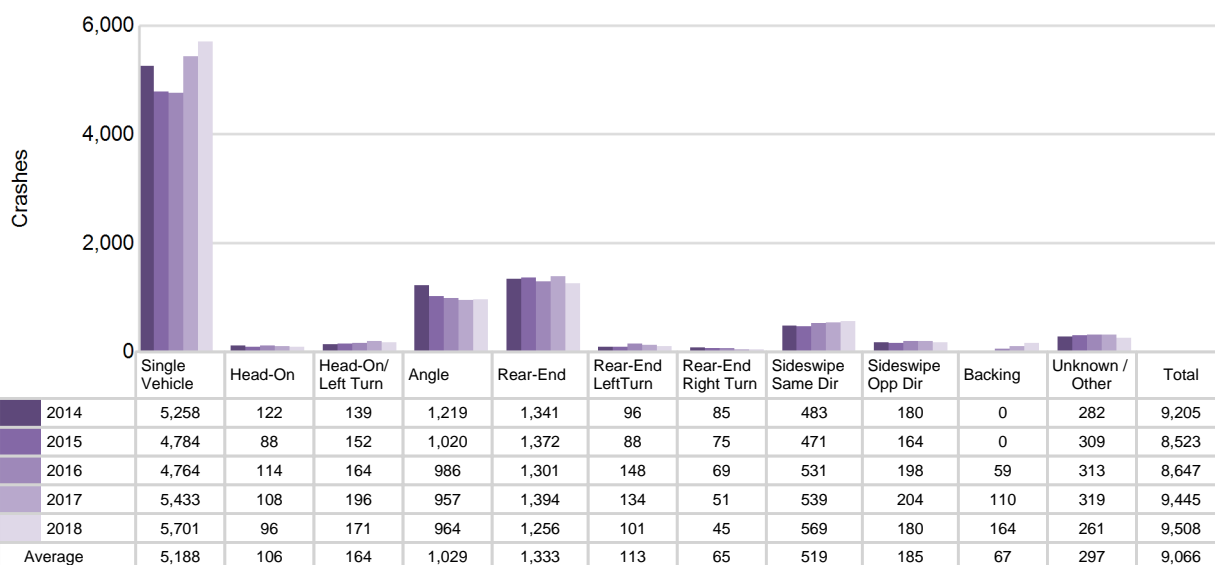


5-Year Trend Total Drivers Coded Drinking by Age



5-Year Trend - Crashes by Crash Type

Crash Type	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Single motor vehicle	5,258	14	4,784	19	4,764	18	5,433	8	5,701	15
Head-on	122	8	88	10	114	8	108	4	96	5
Head-on / left turn	139	0	152	1	164	2	196	0	171	1
Angle	1,219	2	1,020	2	986	10	957	4	964	5
Rear-end	1,341	1	1,372	2	1,301	1	1,394	2	1,256	1
Rear-end left turn	96	0	88	1	148	3	134	1	101	0
Rear-end right turn	85	0	75	0	69	0	51	0	45	0
Sideswipe same direction	483	0	471	0	531	1	539	1	569	0
Sideswipe opposite direction	180	0	164	1	198	2	204	0	180	1
Backing	0	0	0	0	59	0	110	0	164	0
Other / Unknown	282	1	309	1	313	0	319	3	261	1
Uncoded and Errors	3	0	0	0	13	0	0	0	0	0
Total	9,208	26	8,523	37	8,660	45	9,445	23	9,508	29

5-Year Trend
Crashes by Crash Type

TSN Traverse Bay Area (continued)

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2018 - 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	1	0	0	0	0	0	0	0
16 - 20	27	29	17	21	0	6	6	5	4
21 - 24	67	61	44	59	0	2	22	8	27
25 - 64	277	261	180	225	1	23	62	62	77
65 +	32	38	18	19	0	6	7	1	5
Unknown	27	0	0	0	0	0	0	0	0
Total	430	390	259	324	1	37	97	76	113

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 2018, there were 430 drivers in alcohol-involved crashes; 324 (75.3%) of those drivers were coded as had-been-drinking by the officer on the crash form.

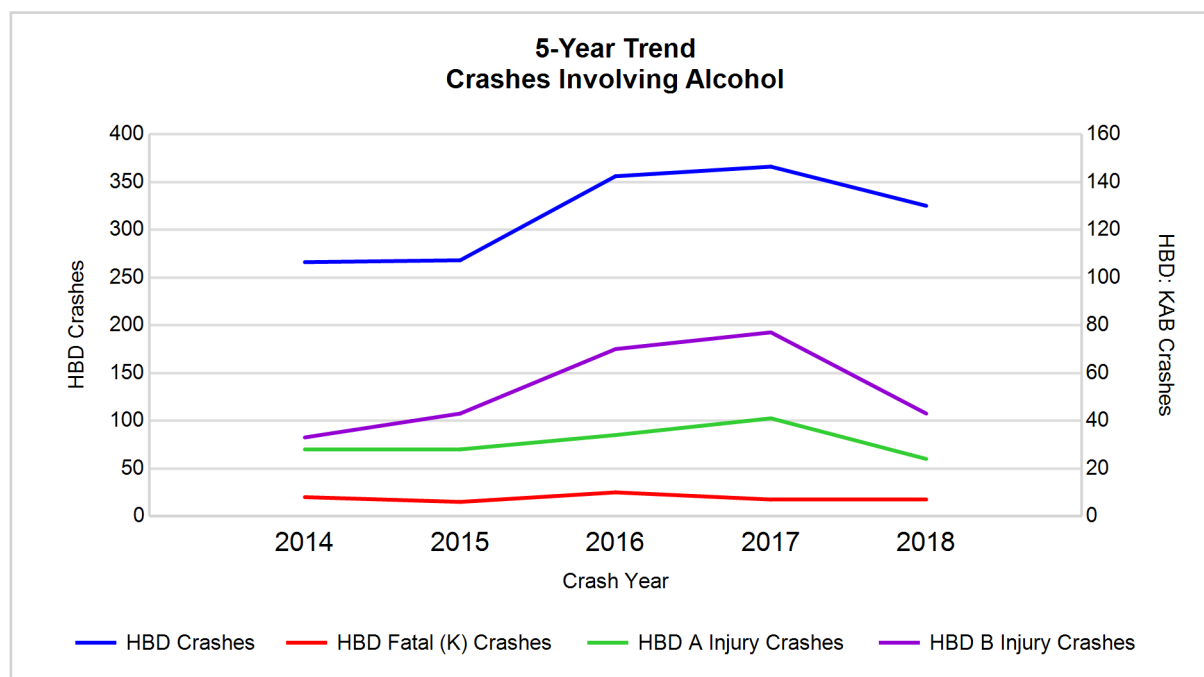
- 173 (53.4%) of the 324 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 76 (43.9%) of the 173 drivers had a BAC at or above 0.17 g/dL.
- 259 (79.9%) of the 324 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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
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
2018	9,508**	325	3.4	29	7	24.1	162	24*	14.8*	380	43	11.3*

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



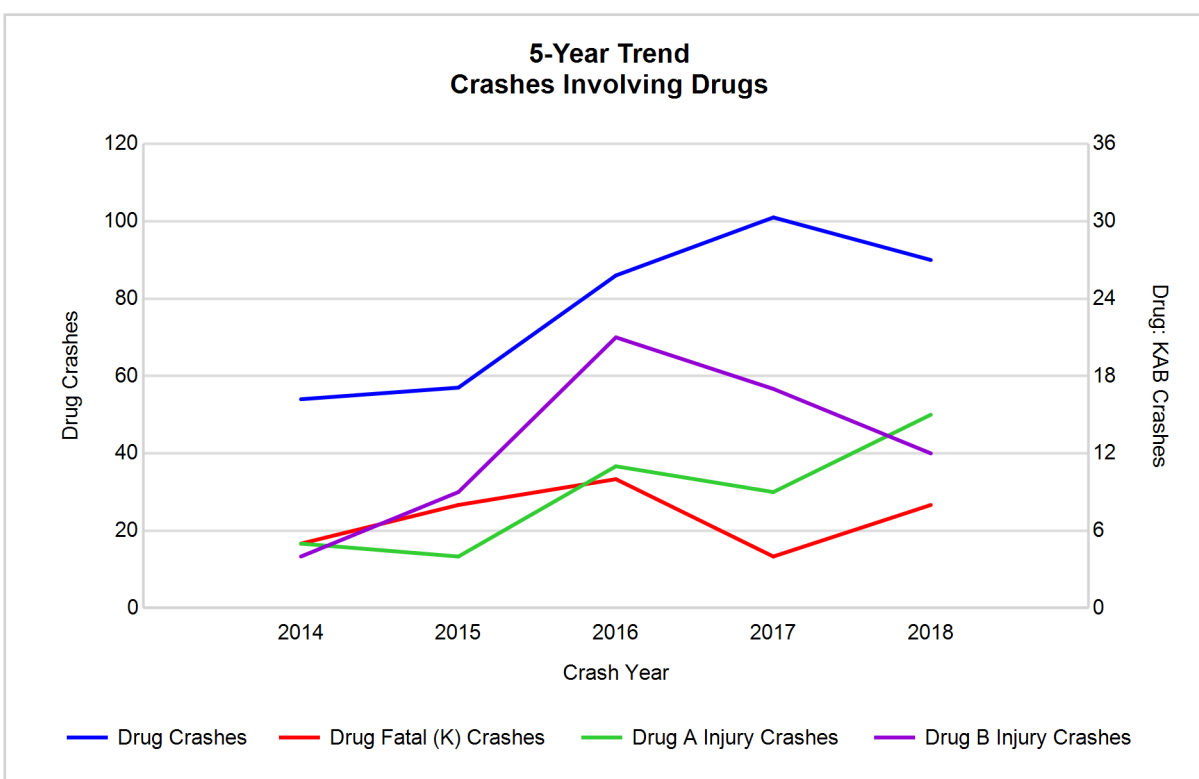
Note: Had-Been-Drinking (HBD)

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
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
2018	9,508**	90	0.9	29	8	27.6**	162	15**	9.3**	380	12	3.2

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

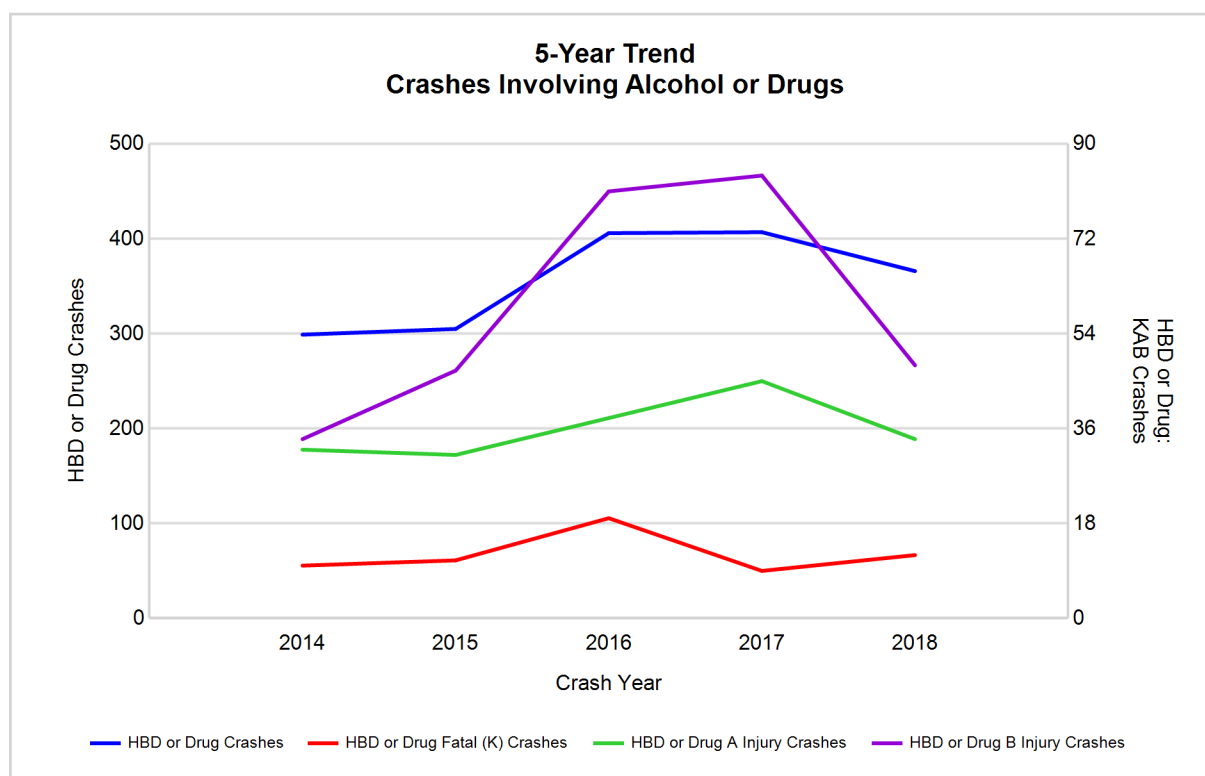


5-Year Trend - Crashes Involving Alcohol or Drugs

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
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
2018	9,508**	366	3.8	29	12	41.4	162	34	21.0*	380	48	12.6

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)

TSN Traverse Bay Area (continued)

2018 - 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	10,646	10,031	94.2	21	12	57.1	133	111	83.5	334	306	91.6	819	792	96.7	9,015	8,794	97.5
Motor home	25	22	88.0	0	0	0.0	0	0	0.0	4	2	50.0	2	2	100.0	19	18	94.7
Pickup truck	2,559	2,367	92.5	5	1	20.0	26	15	57.7	80	68	85.0	149	142	95.3	2,212	2,135	96.5
Small truck under 10,000 lbs. GVWR	84	78	92.9	0	0	0.0	0	0	0.0	1	1	100.0	8	6	75.0	72	71	98.6
Motorcycle	109	78	71.6	3	2	66.7	26	17	65.4	37	31	83.8	17	13	76.5	25	15	60.0
Moped / goped	9	5	55.6	0	0	0.0	0	0	0.0	5	3	60.0	4	2	50.0	0	0	0.0
Go-cart / golf cart	3	1	33.3	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	2	1	50.0
Snowmobile	12	12	100.0	0	0	0.0	7	7	100.0	2	2	100.0	1	1	100.0	2	2	100.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	18	6	33.3	2	2	100.0	3	0	0.0	6	0	0.0	1	0	0.0	6	4	66.7
Other	45	30	66.7	0	0	0.0	0	0	0.0	0	0	0.0	4	1	25.0	37	29	78.4
Truck/bus over 10,000 lbs.	315	294	93.3	0	0	0.0	0	0	0.0	5	5	100.0	9	6	66.7	290	282	97.2
Unknown	138	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Total	13,963	12,924	92.6	31	17	54.8	195	150	76.9	474	418	88.2	1,014	965	95.2	11,680	11,351	97.2

Note: Restraint Use includes shoulder belt only used, lap belt only used, both lap and shoulder belts used, child restraint used, restraint failure, and helmet worn.

2018 - 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	111	105	94.6	1	1	100.0	6	5	83.3	23	22	95.7	62	59	95.2	19	18	94.7
16 - 20	1,413	1,352	95.7	4	1	25.0	21	16	76.2	62	53	85.5	125	119	95.2	1,198	1,160	96.8
21 - 24	1,085	1,020	94.0	5	1	20.0	16	7	43.8	48	42	87.5	86	78	90.7	929	891	95.9
25 - 64	8,713	8,407	96.5	14	8	57.1	116	89	76.7	251	219	87.3	592	564	95.3	7,704	7,509	97.5
65 +	2,110	2,039	96.6	7	6	85.7	36	33	91.7	89	82	92.1	149	145	97.3	1,822	1,772	97.3
Unknown	531	1	0.2	0	0	0.0	0	0	0.0	1	0	0.0	0	0	0.0	8	1	12.5
Total	13,963	12,924	92.6	31	17	54.8	195	150	76.9	474	418	88.2	1,014	965	95.2	11,680	11,351	97.2

Note: Restraint Use includes shoulder belt only used, lap belt only used, both lap and shoulder belts used, child restraint used, restraint failure, and helmet worn.

5-Year Trend - Restraint Use Among Drivers

Restraint Use	2014			2015			2016			2017			2018		
	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	118	0	12	74	1	15	51	0	9	37	0	10	23	0	2
Shoulder belt only used	25	0	2	36	0	9	39	0	3	67	0	5	64	0	7
Lap belt only used	68	0	4	54	0	1	50	0	6	39	0	3	27	1	1
Both lap & shoulder belts used	12,207	7	924	11,372	10	946	11,586	17	1,011	12,404	10	1,191	12,364	8	1,088
No belts used	105	1	31	97	9	43	96	8	47	113	5	47	114	7	45
Child restraint used	0	0	0	0	0	0	3	0	1	3	0	1	2	0	1
Child restraint not used, unavailable or improper use	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Restraint failure	6	1	1	3	0	0	6	0	2	6	0	2	4	0	2
Restraint use unknown	248	0	32	213	1	22	547	2	33	836	1	37	767	3	25
Helmet worn	110	2	85	101	6	70	96	2	70	81	1	55	90	4	65
Helmet not worn	26	0	20	41	0	33	35	5	25	35	2	26	30	1	23
Helmet use unknown	3	0	1	10	1	4	7	0	5	8	0	4	10	0	4
Uncoded & errors	487	0	0	505	0	1	234	0	2	66	0	0	41	0	0
Total	13,404	11	1,112	12,506	28	1,144	12,750	34	1,214	13,695	19	1,381	13,536	24	1,263

5-Year Trend - Restraint Use Among Drivers Coded Drinking

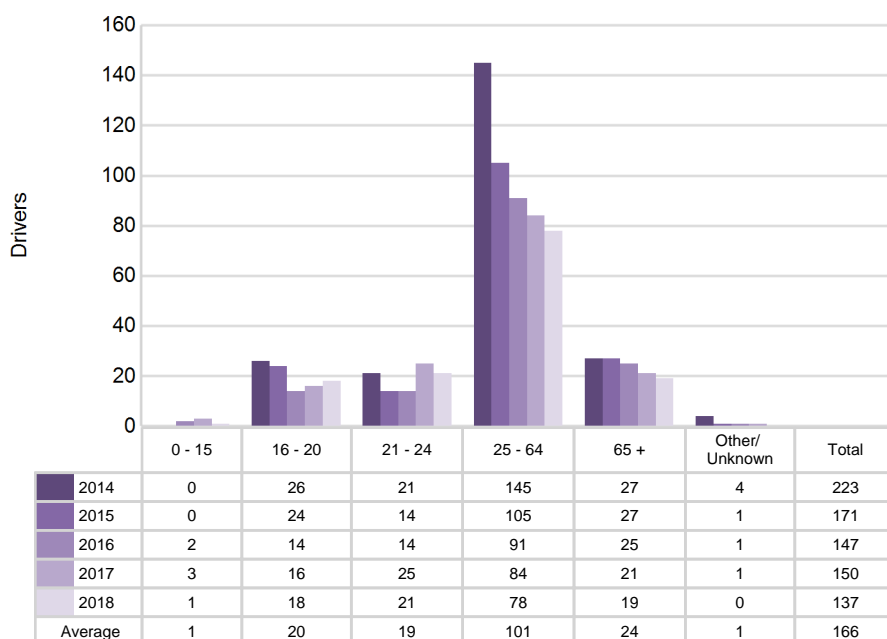
Restraint Use	2014			2015			2016			2017			2018		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	6	0	1	3	0	3	3	0	1	0	0	0	1	0	1
Shoulder belt only used	1	0	1	1	0	0	1	0	1	1	0	0	2	0	2
Lap belt only used	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Both lap & shoulder belts used	187	1	46	193	1	55	257	3	81	249	1	79	217	0	54
No belts used	15	1	13	19	2	14	22	3	16	19	2	16	26	3	14
Child restraint used	0	0	0	0	0	0	1	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	2	0	0	0	0	0	1	0	1	0	0	0	0	0	0
Restraint use unknown	35	0	14	32	0	12	48	0	17	77	1	18	65	1	10
Helmet worn	8	1	7	9	2	7	8	1	5	5	0	4	6	1	5
Helmet not worn	3	0	3	7	0	7	4	1	3	8	0	7	7	0	5
Helmet use unknown	0	0	0	1	0	1	2	0	2	1	0	1	0	0	0
Uncoded & errors	1	0	0	1	0	0	3	0	2	2	0	0	0	0	0
Total	260	3	85	266	5	99	350	8	129	362	4	125	324	5	91

5-Year Trend - Seatbelt Not Used Among Drivers by Age

Age Group	2014			2015			2016			2017			2018		
	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	2	0	2	3	0	3	1	0	0
16 - 20	26	1	6	24	1	12	14	0	5	16	1	7	18	1	7
21 - 24	21	0	7	14	1	3	14	1	7	25	2	10	21	1	11
25 - 64	145	0	29	105	5	36	91	5	33	84	1	28	78	4	27
65 +	27	0	1	27	3	7	25	2	9	21	1	9	19	1	2
Unknown	4	0	0	1	0	0	1	0	0	1	0	0	0	0	0
Total	223	1	43	171	10	58	147	8	56	150	5	57	137	7	47

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

5-Year Trend Driver Seatbelt Not Used

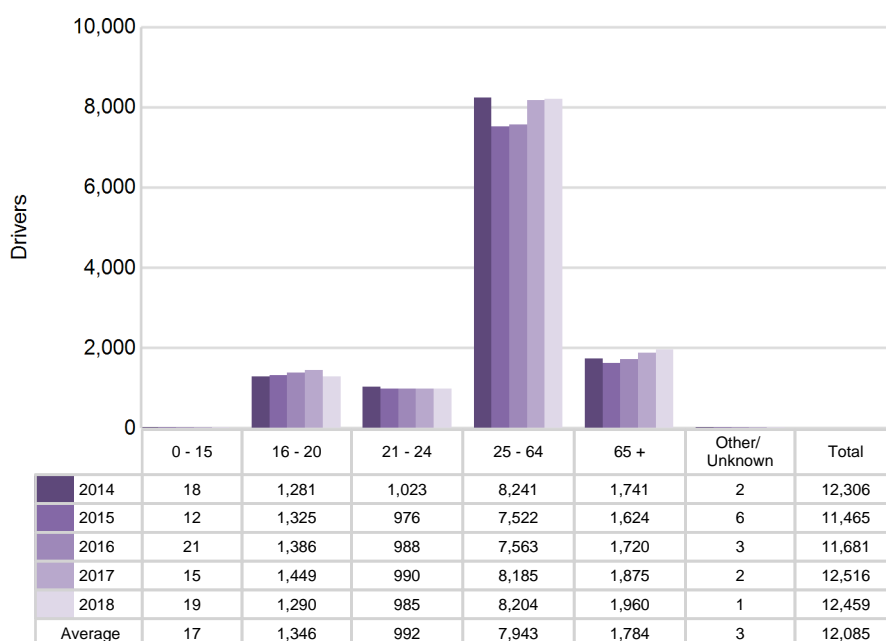


5-Year Trend - Seatbelt Used Among Drivers by Age

Age Group	2014			2015			2016			2017			2018		
	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	0	3	12	0	3	21	0	5	15	0	0	19	0	3
16 - 20	1,281	0	98	1,325	3	131	1,386	2	123	1,449	0	159	1,290	1	128
21 - 24	1,023	3	99	976	0	93	988	1	92	990	1	100	985	1	94
25 - 64	8,241	5	568	7,522	3	558	7,563	4	650	8,185	6	769	8,204	3	687
65 +	1,741	0	163	1,624	4	171	1,720	10	152	1,875	3	172	1,960	4	186
Unknown	2	0	0	6	0	0	3	0	0	2	0	1	1	0	0
Total	12,306	8	931	11,465	10	956	11,681	17	1,022	12,516	10	1,201	12,459	9	1,098

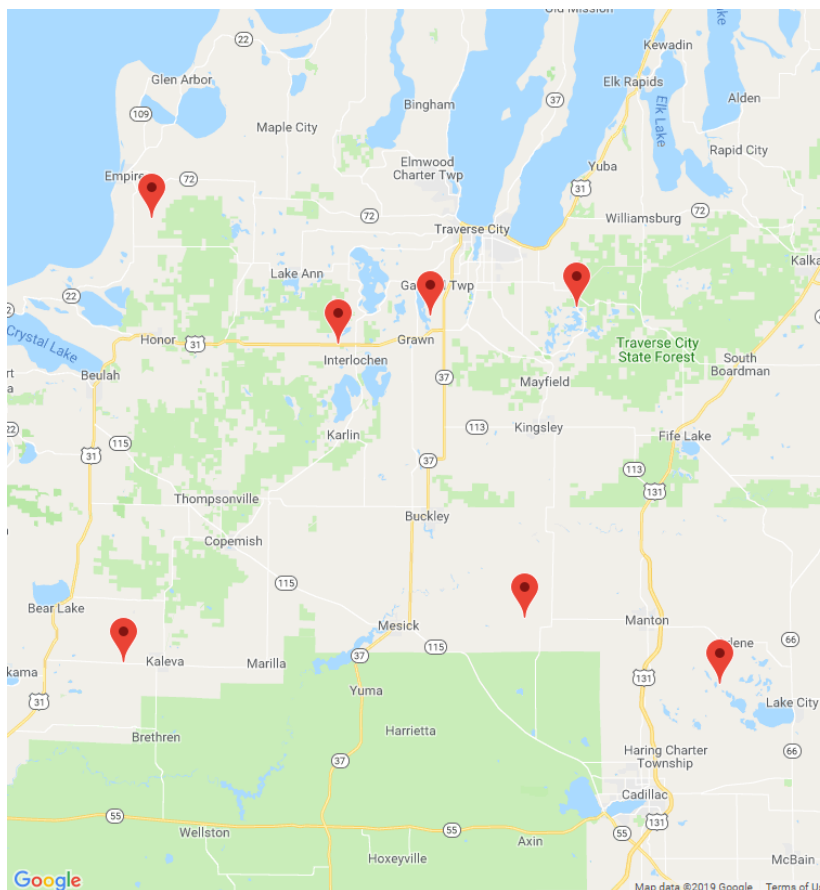
Note: Seatbelt Used includes shoulder belt only used, lap belt only used, both lap and shoulder belts used, and restraint failure.

5-Year Trend Driver Seatbelt Used



5-Year Trend - Drivers in Crashes by Hazardous Action

Hazardous Action	2014		2015		2016		2017		2018	
	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	7,752	18	7,326	21	7,048	29	7,779	17	7,873	20
Speed too fast	1,507	6	1,139	13	1,306	12	1,358	5	1,345	5
Speed too slow	18	0	18	0	14	0	11	0	6	0
Failed to yield	1,154	2	1,040	4	1,095	6	1,133	2	1,157	4
Disregard traffic control	138	0	143	0	147	4	142	2	136	3
Drove wrong way	5	0	5	0	6	0	4	0	4	0
Drove left of center	101	4	79	6	107	4	116	4	97	4
Improper passing	55	0	63	0	60	0	52	0	72	0
Improper lane use	132	1	136	0	162	3	169	0	180	0
Improper turn	72	0	66	0	77	0	89	0	91	0
Improper/no signal	33	0	16	0	7	0	8	0	15	0
Improper backing	202	0	189	0	180	0	181	0	184	0
Unable to stop in assured clear distance	1,340	0	1,337	3	1,390	1	1,404	2	1,334	0
Other	389	2	402	1	375	1	379	1	349	1
Unknown	200	2	224	5	397	9	492	4	393	8
Reckless driving	29	2	42	1	34	1	39	3	40	1
Careless/negligent driving	228	1	238	4	280	2	292	0	226	2
Uncoded & errors	49	0	43	0	65	3	47	0	34	0
Total	13,404	38	12,506	58	12,750	75	13,695	40	13,536	48



The picture above represents all 2018 alcohol-involved fatal crashes in TSN Traverse Bay Area.

In 2018, there were 325 alcohol-involved crashes in TSN Traverse Bay Area:

7	K - Fatal Crashes
24	A - Suspected Serious Injury Crashes
43	B - Suspected Minor Injury Crashes
42	C - Possible Injury Crashes
209	O - Property Damage Only/No Injury Crashes

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