



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

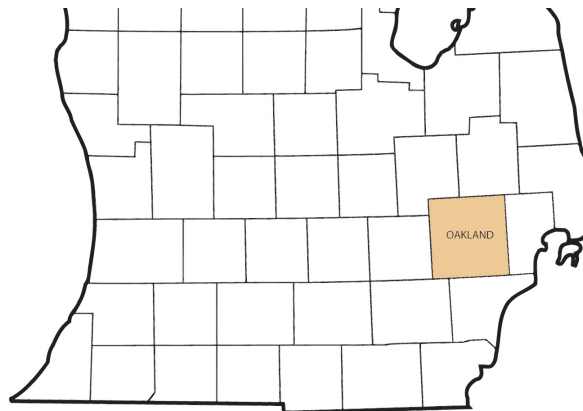
Property Damage Only (PDO)



Traffic Safety Network Oakland County/TIA Early Birds

2018 Traffic Crash Data & 2014-2018 5-Year Trends

Traffic Safety Network Oakland County/TIA Early Birds is comprised of and Oakland 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 Oakland County/TIA Early Birds Experience

In 2018:

There were 78,966 drivers involved in 40,814 motor vehicle crashes in Traffic Safety Network Oakland County/TIA Early Birds. Of those crashes, 53 were classified as fatal, resulting in 54 fatalities. An additional 10,105 persons were injured.

Traffic Safety Network Oakland County/TIA Early Birds experienced the highest number of motor vehicle crashes (3,990) in January, the highest number of fatal crashes (9) and the highest number of persons killed (9) in August.

Michigan driver statistics indicate 6.4 percent of licensed drivers in Traffic Safety Network Oakland County/TIA Early Birds were age 16-20, and 9.7 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	3,990	2	654	3,334	2	840
February	3,257	4	523	2,730	4	674
March	3,040	2	559	2,479	2	722
April	2,899	4	521	2,374	4	707
May	3,465	3	694	2,768	3	945
June	3,457	7	704	2,746	7	973
July	3,106	4	664	2,438	5	902
August	3,180	9	643	2,528	9	904
September	3,140	7	663	2,470	7	893
October	3,986	3	700	3,283	3	908
November	3,779	5	629	3,145	5	834
December	3,515	3	604	2,908	3	803
Total	40,814	53	7,558	33,203	54	10,105

2018 - Driver Statistics

Age Group	Oakland County/TIA Early Birds			Driver Rates	
	2018 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	230,970	7,978	89	3.9	111.6
16 - 20	74,027	63,402	7,670	1,036.1	1,209.7
21 - 24	61,121	59,661	7,081	1,158.5	1,186.9
25 - 64	681,556	665,879	50,708	744.0	761.5
65 +	211,527	190,039	8,137	384.7	428.2
Unknown	0	0	5,281	--	--
Total	1,259,201	986,959	78,966	627.1	800.1

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	69,163	87.6	55	62.5	13,623	55,485
Motor home	67	0.1	0	0.0	12	55
Pickup truck	6,324	8.0	13	14.8	1,111	5,200
Small truck under 10,000 lbs. GVWR	413	0.5	0	0.0	62	351
Motorcycle	228	0.3	12	13.6	166	50
Moped / goped	15	0.0	0	0.0	12	3
Go-cart / golf cart	4	0.0	0	0.0	3	1
Snowmobile	1	0.0	0	0.0	1	0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	9	0.0	0	0.0	7	2
Other	150	0.2	0	0.0	21	129
Truck/bus over 10,000 lbs.	1,847	2.3	7	8.0	310	1,530
Unknown	745	0.9	1	1.1	83	661
Total	78,966	100.0	88	100.0	15,411	63,467

TSN Oakland County/TIA Early Birds (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	4,982	1	3,968	5	3,592	3	3,554	5	3,990	2
February	3,391	3	3,489	1	3,447	2	2,640	5	3,257	4
March	3,106	3	2,849	7	3,300	3	3,469	5	3,040	2
April	2,330	5	2,584	5	3,106	8	2,751	2	2,899	4
May	3,115	4	3,234	3	3,399	6	3,733	3	3,465	3
June	3,138	12	3,212	9	3,626	5	3,524	6	3,457	7
July	2,790	6	3,097	6	3,161	9	3,150	10	3,106	4
August	3,020	4	3,109	5	3,545	9	3,489	5	3,180	9
September	3,351	6	3,312	9	3,661	9	3,281	7	3,140	7
October	3,721	5	3,576	5	3,848	10	3,989	6	3,986	3
November	3,940	6	3,857	5	3,661	5	3,698	7	3,779	5
December	3,067	7	3,556	4	4,314	9	4,505	7	3,515	3
Total	39,951	62	39,843	64	42,660	78	41,783	68	40,814	53

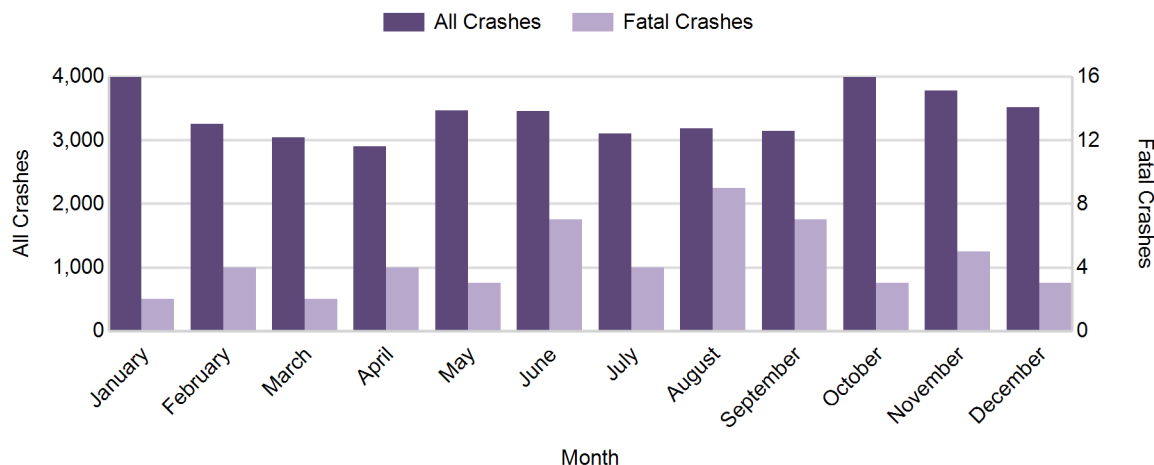
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

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	5,856	8	5,891	14	6,162	12	6,453	10	6,195	7
Tuesday	6,468	16	6,317	9	6,859	7	6,975	9	7,054	6
Wednesday	6,984	7	6,671	8	7,204	10	7,027	14	6,305	3
Thursday	6,611	7	6,318	7	7,169	9	6,728	13	6,813	7
Friday	6,537	8	6,696	12	7,195	12	6,849	8	6,784	12
Saturday	4,334	7	4,640	9	4,606	13	4,474	7	4,409	14
Sunday	3,161	9	3,310	5	3,465	15	3,277	7	3,254	4
Total	39,951	62	39,843	64	42,660	78	41,783	68	40,814	53

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

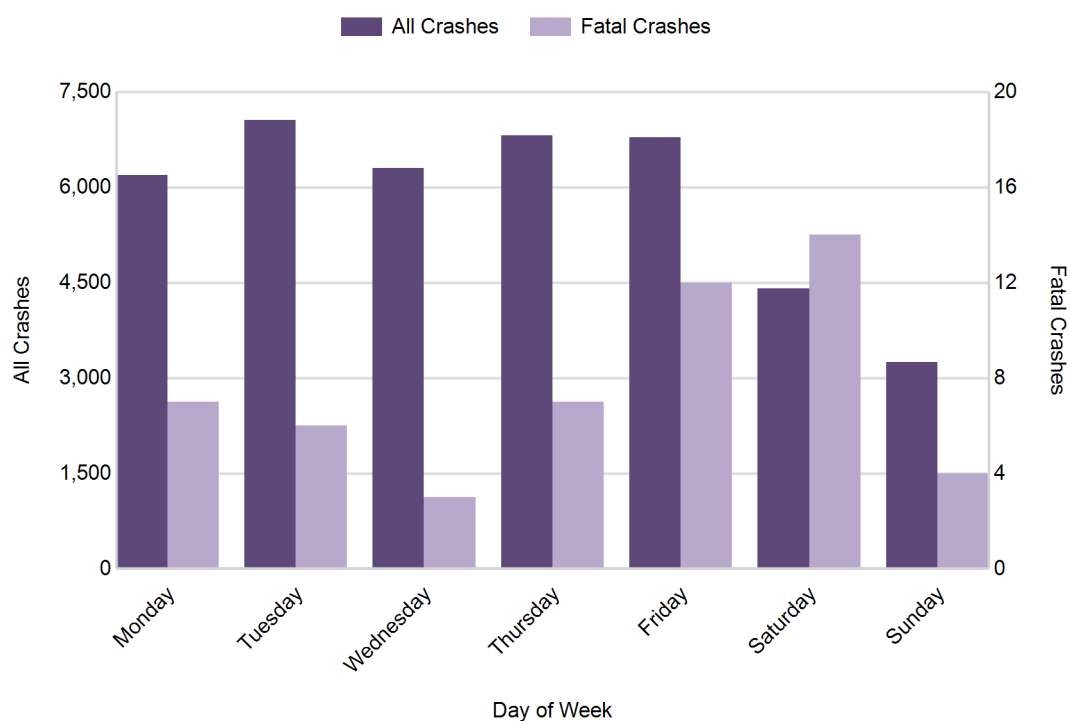
2018 Crashes by Month



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	6,195	15.2	7	13.2	54	378	740	5,016
Tuesday	7,054	17.3	6	11.3	48	410	802	5,788
Wednesday	6,305	15.4	3	5.7	48	348	697	5,209
Thursday	6,813	16.7	7	13.2	52	388	830	5,536
Friday	6,784	16.6	12	22.6	53	408	769	5,542
Saturday	4,409	10.8	14	26.4	49	318	504	3,524
Sunday	3,254	8.0	4	7.5	48	221	393	2,588
Total	40,814	100.0	53	100.0	352	2,471	4,735	33,203

2018 Day of Week and Severity

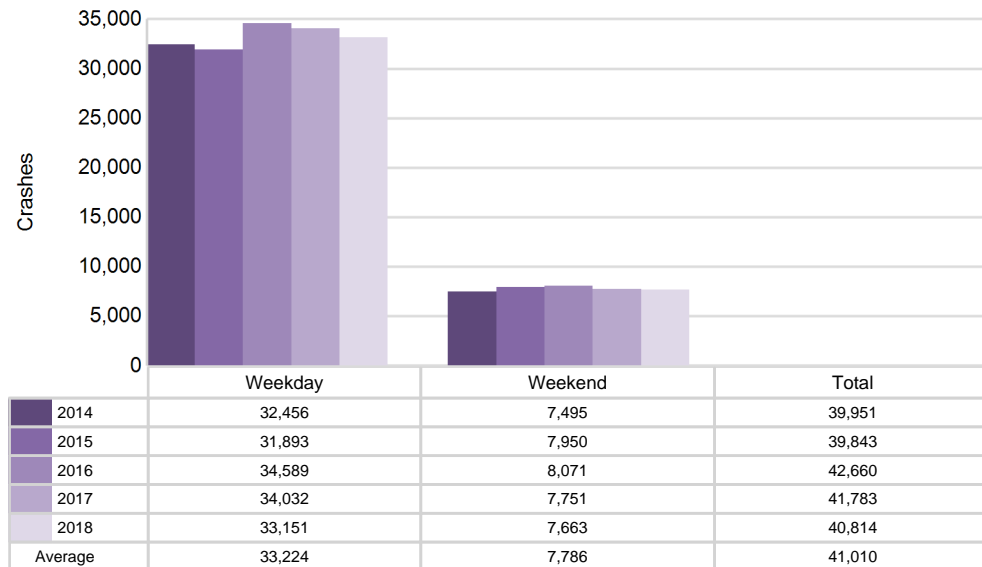


TSN Oakland County/TIA Early Birds (continued)

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	32,456	46	31,893	50	34,589	50	34,032	54	33,151	35
Weekend	7,495	16	7,950	14	8,071	28	7,751	14	7,663	18
Total	39,951	62	39,843	64	42,660	78	41,783	68	40,814	53

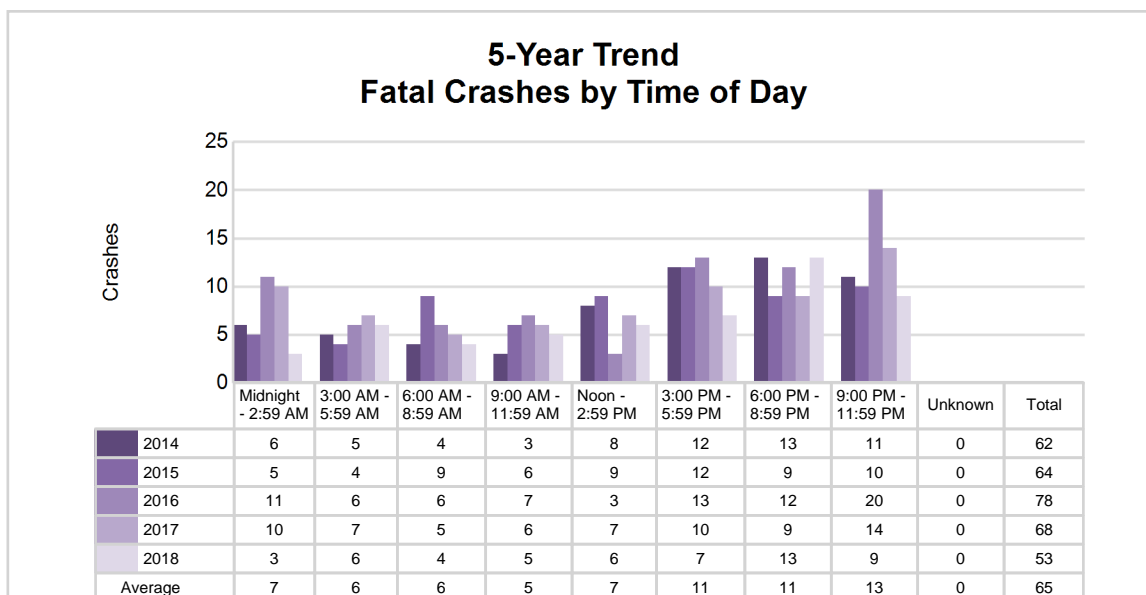
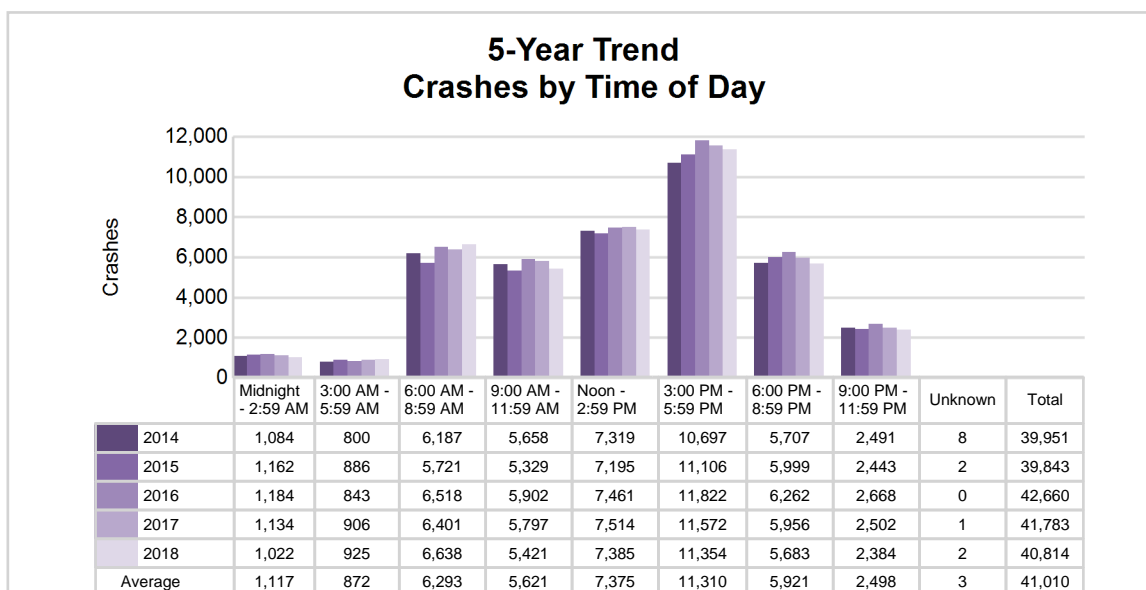
5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



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	1,084	6	1,162	5	1,184	11	1,134	10	1,022	3
3:00 AM - 5:59 AM	800	5	886	4	843	6	906	7	925	6
6:00 AM - 8:59 AM	6,187	4	5,721	9	6,518	6	6,401	5	6,638	4
9:00 AM - 11:59 AM	5,658	3	5,329	6	5,902	7	5,797	6	5,421	5
Noon - 2:59 PM	7,319	8	7,195	9	7,461	3	7,514	7	7,385	6
3:00 PM - 5:59 PM	10,697 †	12	11,106 †	12	11,822 †	13	11,572 †	10	11,354 †	7
6:00 PM - 8:59 PM	5,707	13	5,999	9	6,262	12	5,956	9	5,683	13
9:00 PM - 11:59 PM	2,491	11	2,443	10	2,668	20	2,502	14	2,384	9
Unknown	8	0	2	0	0	0	1	0	2	0
Total	39,951	62	39,843	64	42,660	78	41,783	68	40,814	53

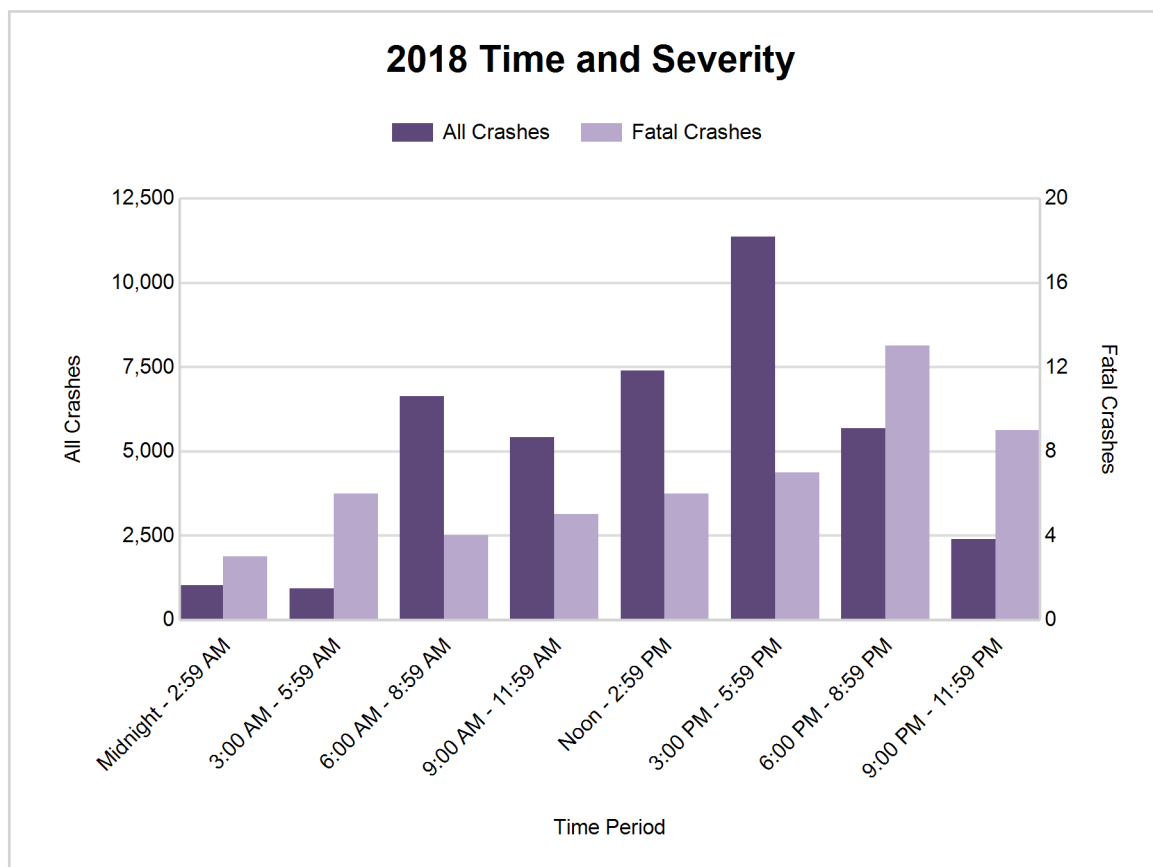
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same time period



TSN Oakland County/TIA Early Birds (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	1,022	2.5	3	5.7	20	90	105	804
3:00 AM	- 5:59 AM	925	2.3	6	11.3	17	89	81	732
6:00 AM	- 8:59 AM	6,638	16.3	4	7.5	54	331	703	5,546
9:00 AM	- 11:59 AM	5,421	13.3	5	9.4	40	311	612	4,453
Noon	- 2:59 PM	7,385	18.1	6	11.3	53	480	919	5,927
3:00 PM	- 5:59 PM	11,354	27.8	7	13.2	74	613	1,438	9,222
6:00 PM	- 8:59 PM	5,683	13.9	13	24.5	56	379	600	4,635
9:00 PM	- 11:59 PM	2,384	5.8	9	17.0	38	178	277	1,882
Unknown		2	0.0	0	0.0	0	0	0	2
Total		40,814	100.0	53	100.0	352	2,471	4,735	33,203



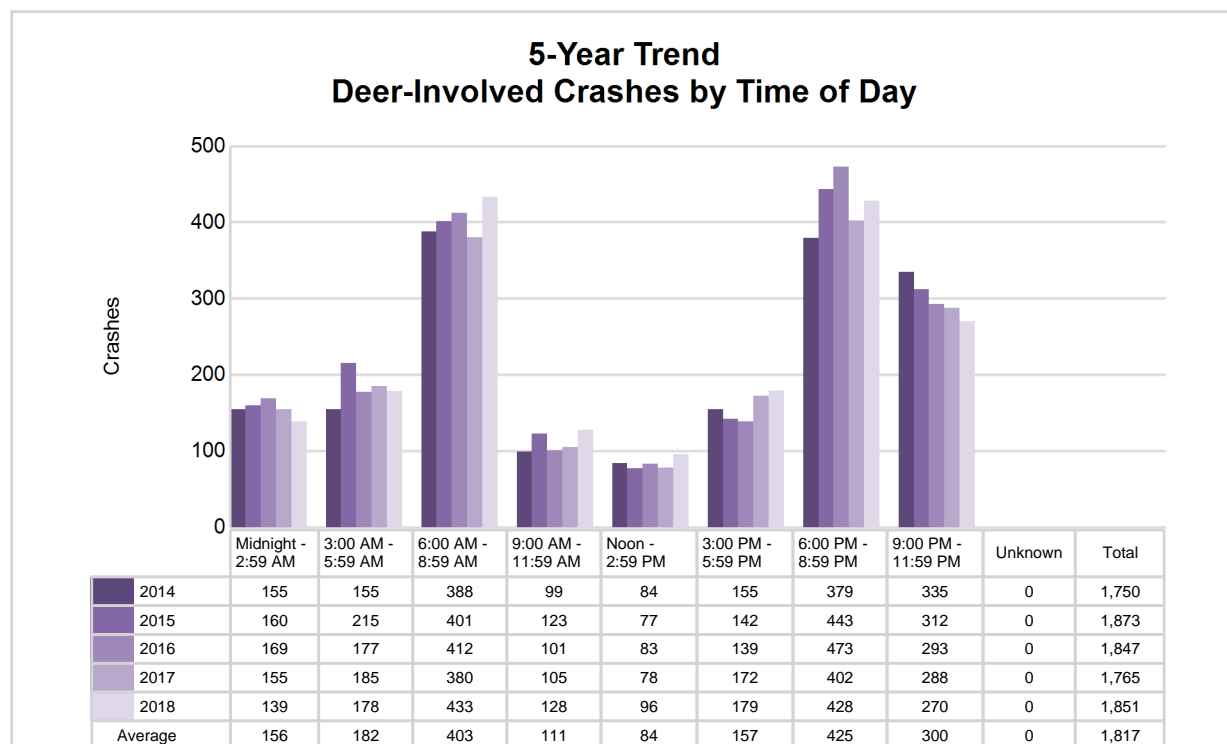
TSN Oakland County/TIA Early Birds (continued)

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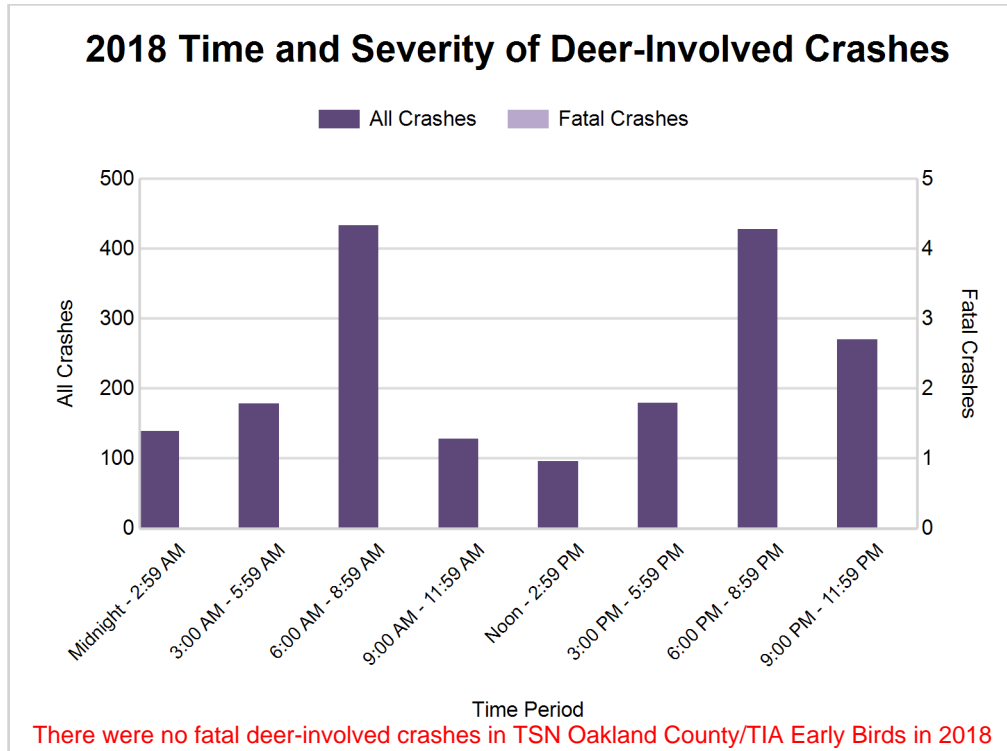
5-Year Trend - Deer-Involved Crashes by Time of Day

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	155	0	160	0	169	0	155	1	139	0
3:00 AM - 5:59 AM	155	0	215	0	177	0	185	0	178	0
6:00 AM - 8:59 AM	388	0	401	0	412	0	380	0	433	0
9:00 AM - 11:59 AM	99	0	123	0	101	0	105	0	128	0
Noon - 2:59 PM	84	0	77	0	83	0	78	0	96	0
3:00 PM - 5:59 PM	155	0	142	0	139	0	172	0	179	0
6:00 PM - 8:59 PM	379	0	443	0	473	0	402	0	428	0
9:00 PM - 11:59 PM	335	0	312	0	293	0	288	0	270	0
Unknown	0	0	0	0	0	0	0	0	0	0
Total	1,750	0	1,873	0	1,847	0	1,765	1	1,851	0

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



TSN Oakland County/TIA Early Birds (continued)



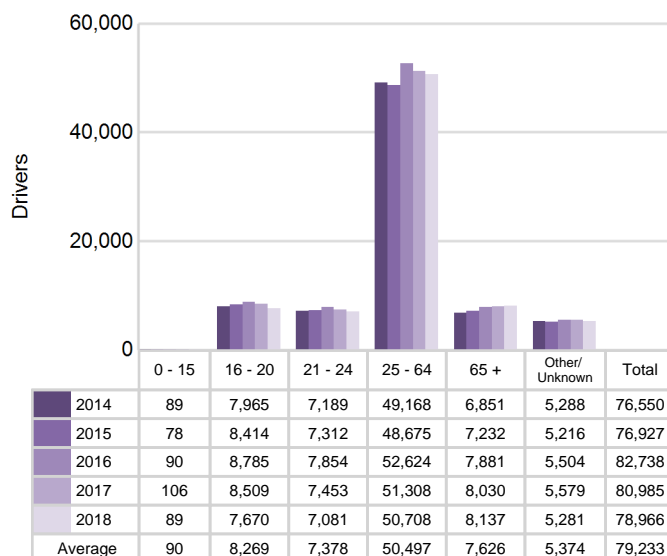
2018 - Reported Motor Vehicle Crashes by County

County	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Oakland	40,814	53	7,558	33,203	6,973	2,392	7,017	24,395	1,058	279	1,851	54	10,105
Total	40,814	53	7,558	33,203	6,973	2,392	7,017	24,395	1,058	279	1,851	54	10,105

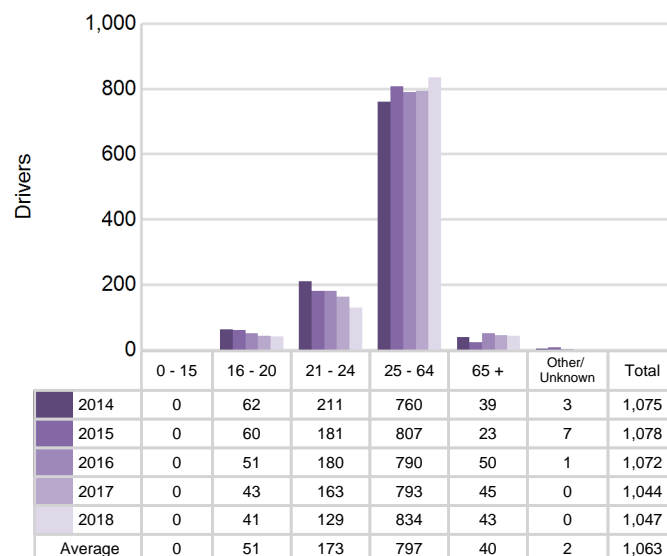
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

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	89	0	78	0	90	0	106	0	89	0
16 - 20	7,965	62	8,414	60	8,785	51	8,509	43	7,670	41
21 - 24	7,189	211	7,312	181	7,854	180	7,453	163	7,081	129
25 - 64	49,168	760	48,675	807	52,624	790	51,308	793	50,708	834
65 +	6,851	39	7,232	23	7,881	50	8,030	45	8,137	43
Unknown	5,288	3	5,216	7	5,504	1	5,579	0	5,281	0
Total	76,550	1,075	76,927	1,078	82,738	1,072	80,985	1,044	78,966	1,047

5-Year Trend Total Drivers in Crashes by Age



5-Year Trend Total Drivers Coded Drinking by Age

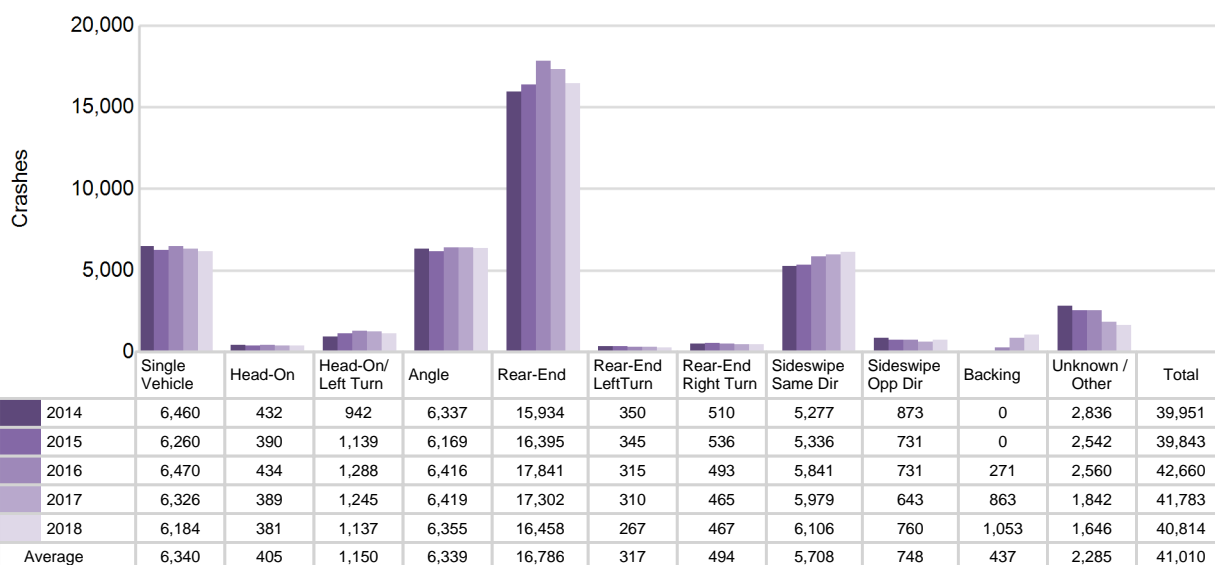


TSN Oakland County/TIA Early Birds (continued)

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	6,460	34	6,260	28	6,470	36	6,326	24	6,184	23
Head-on	432	7	390	8	434	5	389	13	381	7
Head-on / left turn	942	3	1,139	4	1,288	10	1,245	0	1,137	3
Angle	6,337	5	6,169	11	6,416	13	6,419	8	6,355	3
Rear-end	15,934	5	16,395	9	17,841	8	17,302	11	16,458	8
Rear-end left turn	350	0	345	1	315	0	310	0	267	0
Rear-end right turn	510	0	536	0	493	0	465	0	467	0
Sideswipe same direction	5,277	2	5,336	2	5,841	1	5,979	2	6,106	1
Sideswipe opposite direction	873	0	731	0	731	0	643	0	760	3
Backing	0	0	0	0	271	0	863	0	1,053	0
Other / Unknown	2,836	6	2,542	1	2,560	5	1,842	10	1,646	5
Uncoded and Errors	0	0	0	0	0	0	0	0	0	0
Total	39,951	62	39,843	64	42,660	78	41,783	68	40,814	53

5-Year Trend Crashes by Crash Type



TSN Oakland County/TIA Early Birds (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	2	0	0	0	0	0	0	0	0
16 - 20	78	45	38	41	0	8	11	10	12
21 - 24	175	139	118	129	0	10	42	34	43
25 - 64	1,260	828	742	834	1	62	207	249	315
65 +	83	47	40	43	0	7	13	12	11
Unknown	137	1	0	0	0	0	0	0	0
Total	1,735	1,060	938	1,047	1	87	273	305	381

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 1,735 drivers in alcohol-involved crashes; 1,047 (60.3%) of those drivers were coded as had-been-drinking by the officer on the crash form.

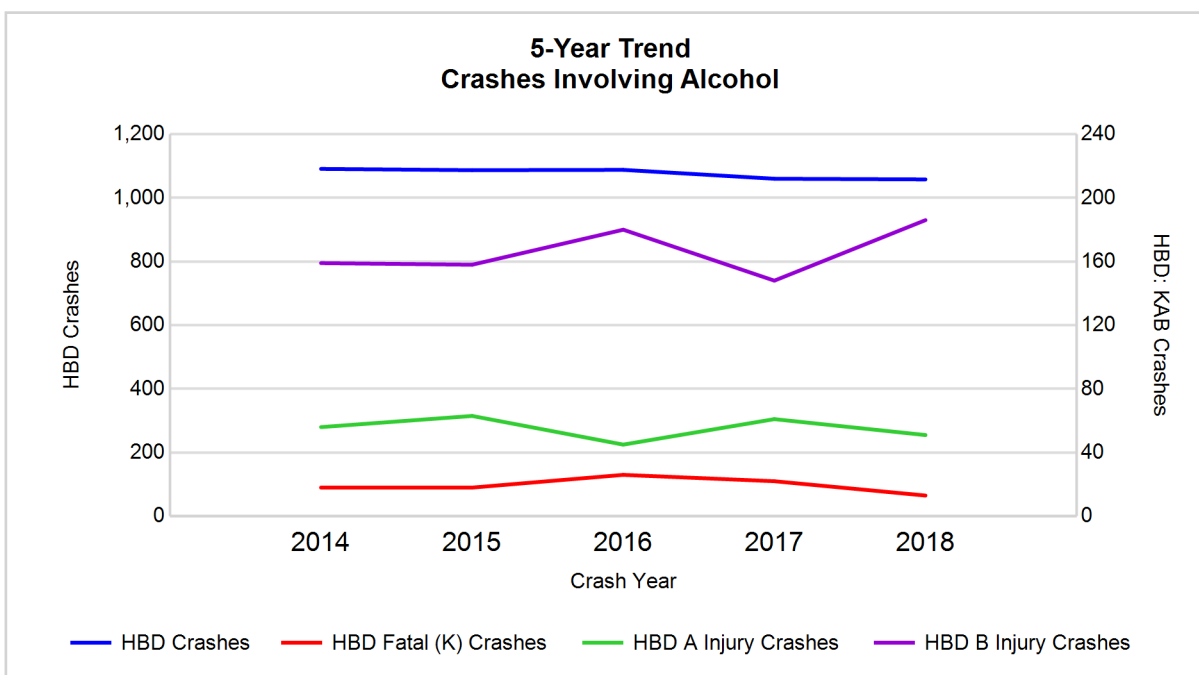
- 578 (55.2%) of the 1,047 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 305 (52.8%) of the 578 drivers had a BAC at or above 0.17 g/dL.
- 938 (89.6%) of the 1,047 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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	39,951	1,091	2.7	62	18	29.0	428	56	13.1	1,925	159	8.3
2015	39,843	1,087	2.7	64	18	28.1	353	63	17.8	1,990	158	7.9
2016	42,660	1,088	2.6	78	26	33.3	342	45	13.2	2,323	180	7.7
2017	41,783	1,060	2.5	68	22	32.4	386	61	15.8	2,528	148	5.9
2018	40,814	1,058*	2.6	53*	13*	24.5*	352	51	14.5	2,471	186**	7.5

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)

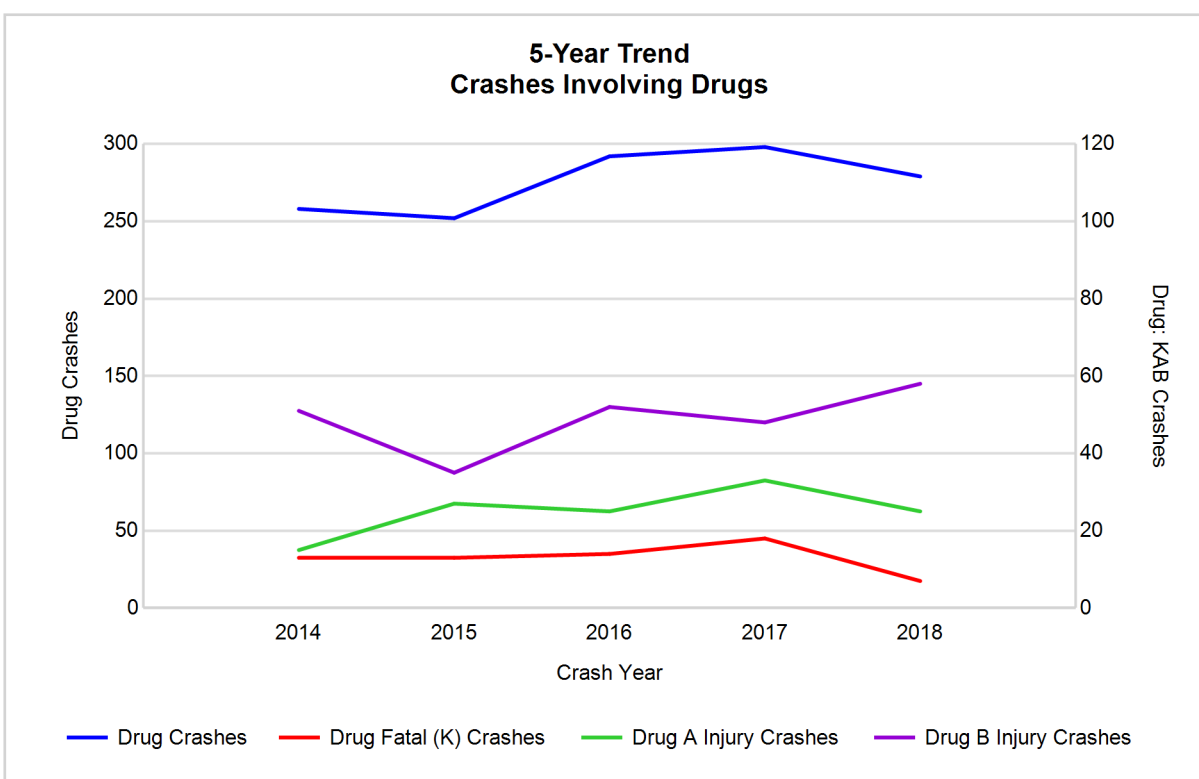
TSN Oakland County/TIA Early Birds (continued)

5-Year Trend - Crashes Involving Drugs

Year	All Crashes	Drug Crashes	% Drug	Fatal Crashes	Drug Fatal Crashes	% Drug	A Injury Crashes	Drug A Injury Crashes	% Drug	B Injury Crashes	Drug B Injury Crashes	% Drug
2014	39,951	258	0.6	62	13	21.0	428	15	3.5	1,925	51	2.6
2015	39,843	252	0.6	64	13	20.3	353	27	7.6	1,990	35	1.8
2016	42,660	292	0.7	78	14	17.9	342	25	7.3	2,323	52	2.2
2017	41,783	298	0.7	68	18	26.5	386	33	8.5	2,528	48	1.9
2018	40,814	279	0.7	53*	7*	13.2*	352	25	7.1	2,471	58**	2.3

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

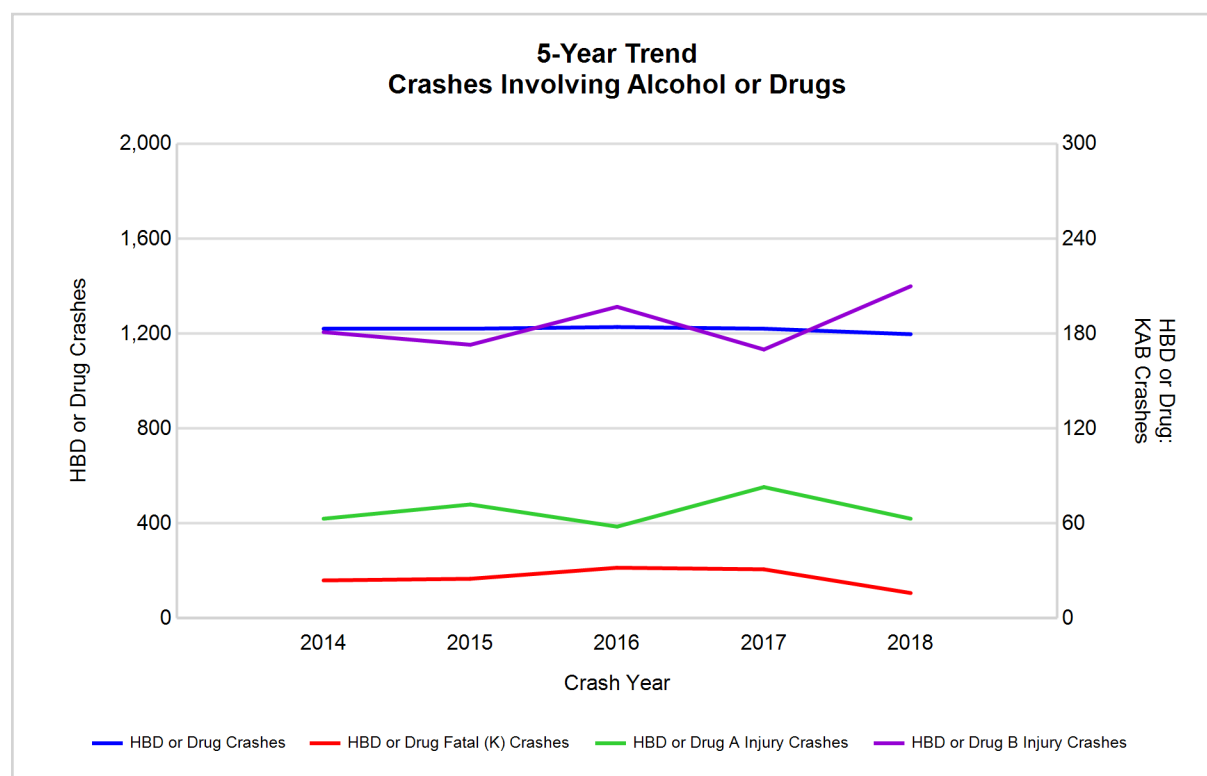


5-Year Trend - Crashes Involving Alcohol or Drugs

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	39,951	1,221	3.1	62	24	38.7	428	63	14.7	1,925	181	9.4
2015	39,843	1,221	3.1	64	25	39.1	353	72	20.4	1,990	173	8.7
2016	42,660	1,228	2.9	78	32	41.0	342	58	17.0	2,323	197	8.5
2017	41,783	1,221	2.9	68	31	45.6	386	83	21.5	2,528	170	6.7
2018	40,814	1,198*	2.9	53*	16*	30.2*	352	63	17.9	2,471	210**	8.5

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 Oakland County/TIA Early Birds (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	70,939	65,660	92.6	29	18	62.1	267	222	83.1	2,533	2,415	95.3	6,116	5,975	97.7	57,917	57,030	98.5
Motor home	68	65	95.6	0	0	0.0	0	0	0.0	1	1	100.0	7	6	85.7	58	58	100.0
Pickup truck	6,429	5,812	90.4	3	1	33.3	17	15	88.2	151	142	94.0	343	331	96.5	5,409	5,323	98.4
Small truck under 10,000 lbs. GVWR	417	357	85.6	0	0	0.0	0	0	0.0	5	5	100.0	22	22	100.0	339	330	97.3
Motorcycle	245	177	72.2	12	10	83.3	42	31	73.8	96	70	72.9	38	26	68.4	52	40	76.9
Moped / goped	15	6	40.0	0	0	0.0	4	2	50.0	4	1	25.0	4	2	50.0	1	1	100.0
Go-cart / golf cart	6	2	33.3	0	0	0.0	0	0	0.0	4	1	25.0	0	0	0.0	1	1	100.0
Snowmobile	2	2	100.0	0	0	0.0	0	0	0.0	1	1	100.0	1	1	100.0	0	0	0.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	11	2	18.2	0	0	0.0	3	0	0.0	1	0	0.0	3	1	33.3	3	1	33.3
Other	154	109	70.8	0	0	0.0	0	0	0.0	5	3	60.0	9	7	77.8	108	99	91.7
Truck/bus over 10,000 lbs.	1,889	1,695	89.7	1	1	100.0	6	4	66.7	31	20	64.5	60	41	68.3	1,661	1,629	98.1
Unknown	746	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	1	0	0.0	0	0	0.0
Total	80,921	73,887	91.3	45	30	66.7	339	274	80.8	2,832	2,659	93.9	6,604	6,412	97.1	65,549	64,512	98.4

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	619	560	90.5	0	0	0.0	5	2	40.0	77	63	81.8	459	423	92.2	78	72	92.3
16 - 20	7,913	7,762	98.1	2	2	100.0	26	20	76.9	311	293	94.2	610	592	97.0	6,942	6,855	98.7
21 - 24	7,235	7,045	97.4	6	2	33.3	40	32	80.0	309	283	91.6	545	525	96.3	6,304	6,203	98.4
25 - 64	51,506	50,304	97.7	24	16	66.7	238	191	80.3	1,770	1,665	94.1	4,191	4,089	97.6	45,087	44,343	98.3
65 +	8,367	8,216	98.2	13	10	76.9	30	29	96.7	365	355	97.3	799	783	98.0	7,138	7,039	98.6
Unknown	5,281	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Total	80,921	73,887	91.3	45	30	66.7	339	274	80.8	2,832	2,659	93.9	6,604	6,412	97.1	65,549	64,512	98.4

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	35	0	5	26	0	4	31	0	6	32	1	2	13	0	0
Shoulder belt only used	4	0	0	4	0	1	59	0	7	49	0	7	44	0	4
Lap belt only used	31	0	4	27	0	5	29	0	4	33	0	4	23	0	1
Both lap & shoulder belts used	69,634	16	7,281	69,940	18	7,525	75,247	15	8,147	73,288	20	7,733	71,880	12	7,460
No belts used	259	11	119	259	13	118	246	11	114	210	13	115	210	8	103
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	2	0	1	1	0	0	3	0	0	1	0	0	0	0	0
Restraint use unknown	5,821	1	101	5,906	3	132	5,924	2	113	5,286	3	124	4,837	4	84
Helmet worn	197	5	142	204	4	151	240	10	168	200	4	146	175	9	124
Helmet not worn	70	3	50	71	2	54	83	4	62	76	3	55	63	1	51
Helmet use unknown	7	0	5	14	0	8	13	2	7	12	0	7	7	1	3
Uncoded & errors	489	0	1	475	0	0	863	0	0	1,798	0	0	1,714	0	0
Total	76,550	36	7,709	76,927	40	7,998	82,738	44	8,628	80,985	44	8,193	78,966	35	7,830

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	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0
Shoulder belt only used	0	0	0	1	0	1	3	0	1	0	0	0	0	0	0
Lap belt only used	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
Both lap & shoulder belts used	877	1	201	879	2	195	866	2	220	864	3	201	868	1	214
No belts used	56	4	40	56	5	34	57	5	37	37	4	25	47	4	30
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	125	0	28	123	2	34	128	1	29	124	0	37	117	2	28
Helmet worn	10	2	7	9	1	5	7	2	5	6	1	4	7	1	6
Helmet not worn	6	1	4	7	1	4	9	2	7	12	1	10	7	0	7
Helmet use unknown	1	0	1	1	0	0	1	1	0	1	0	1	0	0	0
Uncoded & errors	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Total	1,075	8	281	1,078	11	273	1,072	13	300	1,044	9	278	1,047	8	285

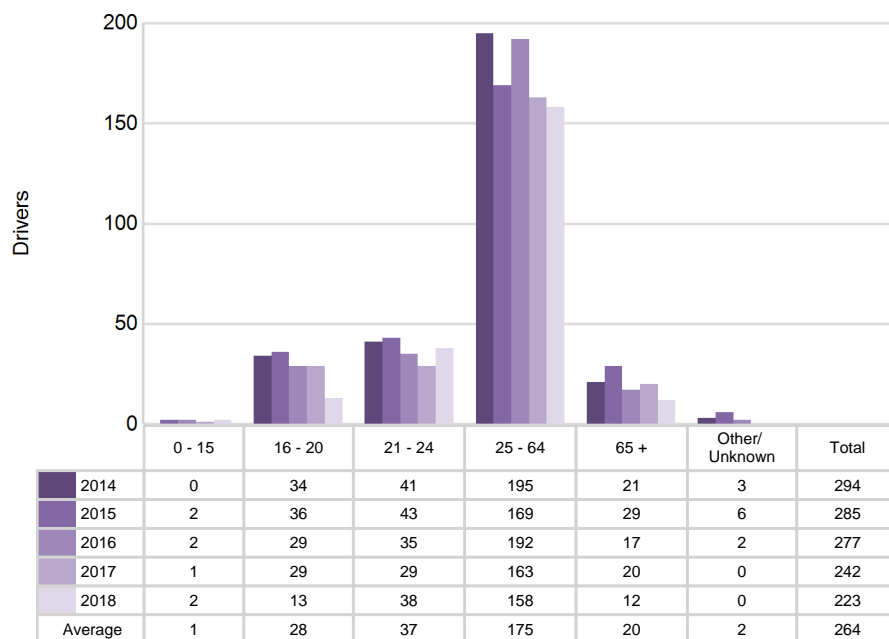
TSN Oakland County/TIA Early Birds (continued)

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	2	0	0	2	0	1	1	0	0	2	0	1
16 - 20	34	0	20	36	1	16	29	0	15	29	3	15	13	0	7
21 - 24	41	1	18	43	3	23	35	4	21	29	1	16	38	2	21
25 - 64	195	8	77	169	8	69	192	5	78	163	6	77	158	4	70
65 +	21	2	9	29	1	14	17	2	5	20	4	9	12	2	4
Unknown	3	0	0	6	0	0	2	0	0	0	0	0	0	0	0
Total	294	11	124	285	13	122	277	11	120	242	14	117	223	8	103

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

5-Year Trend Driver Seatbelt Not Used

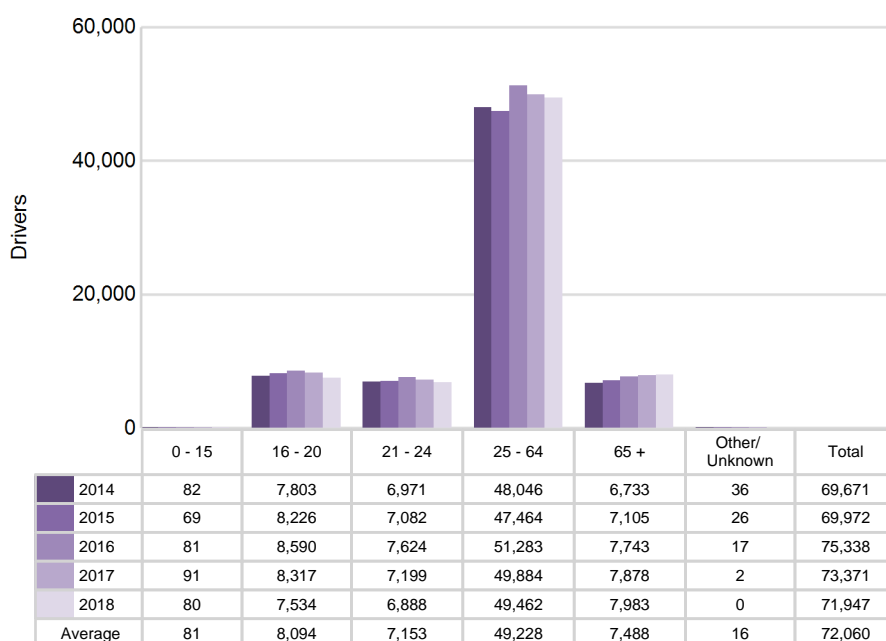


5-Year Trend - Seatbelt Used Among Drivers by Age

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	82	0	5	69	0	7	81	0	4	91	0	2	80	0	9
16 - 20	7,803	0	694	8,226	1	741	8,590	0	765	8,317	2	752	7,534	0	682
21 - 24	6,971	2	691	7,082	1	705	7,624	2	809	7,199	2	741	6,888	0	693
25 - 64	48,046	7	5,089	47,464	9	5,146	51,283	9	5,564	49,884	10	5,240	49,462	6	5,140
65 +	6,733	7	806	7,105	7	932	7,743	4	1,016	7,878	6	1,009	7,983	6	941
Unknown	36	0	1	26	0	0	17	0	0	2	0	0	0	0	0
Total	69,671	16	7,286	69,972	18	7,531	75,338	15	8,158	73,371	20	7,744	71,947	12	7,465

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

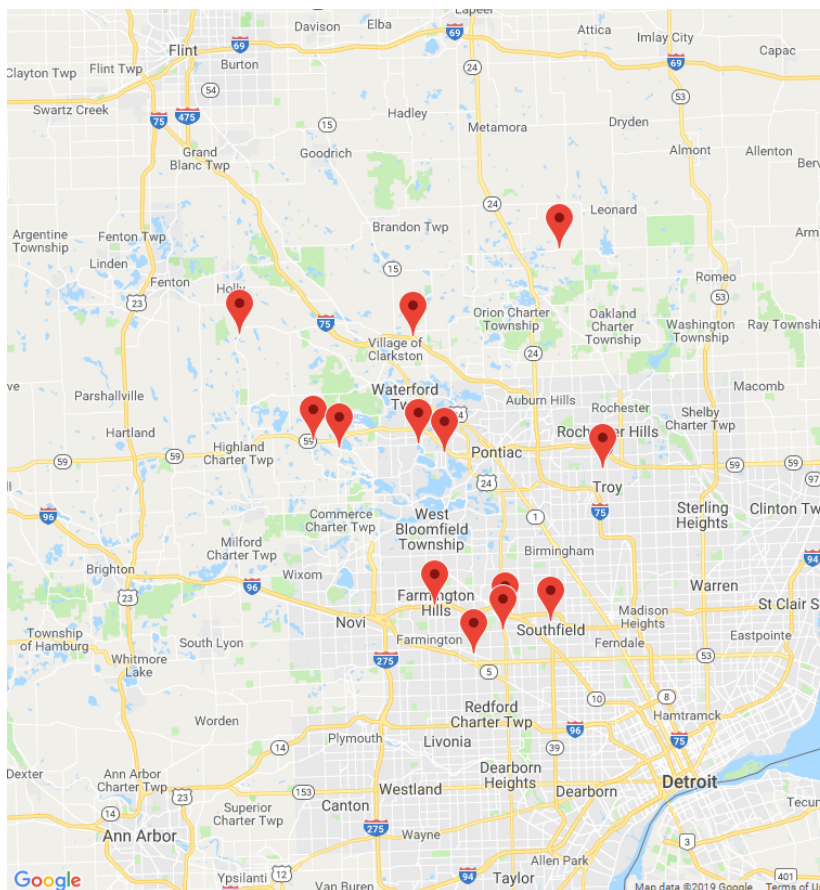
5-Year Trend Driver Seatbelt Used



TSN Oakland County/TIA Early Birds (continued)

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	36,689	41	37,373	59	40,123	53	39,218	67	38,243	38
Speed too fast	3,252	8	2,438	4	2,688	9	2,455	7	2,456	9
Speed too slow	13	0	13	0	10	0	11	0	18	1
Failed to yield	6,757	3	6,950	7	7,285	6	7,356	7	7,317	6
Disregard traffic control	1,090	3	1,148	8	1,306	6	1,252	2	1,279	1
Drove wrong way	29	1	39	0	32	1	41	1	49	0
Drove left of center	388	6	335	4	359	4	332	9	336	4
Improper passing	300	1	284	1	306	0	319	0	343	1
Improper lane use	1,867	0	2,077	0	2,383	0	2,388	0	2,406	1
Improper turn	549	1	623	0	751	1	735	0	697	0
Improper/no signal	64	0	56	0	45	0	63	0	51	0
Improper backing	963	1	915	0	998	0	969	0	1,035	1
Unable to stop in assured clear distance	15,134	4	15,623	4	16,973	6	16,500	7	15,721	6
Other	2,527	6	2,340	11	2,463	10	2,412	7	2,579	7
Unknown	3,771	9	3,712	3	3,904	24	4,109	12	3,834	6
Reckless driving	224	4	236	5	243	4	251	3	226	4
Careless/negligent driving	1,220	6	1,379	7	1,456	4	1,238	3	1,044	3
Uncoded & errors	1,713	5	1,386	1	1,413	1	1,336	1	1,332	0
Total	76,550	99	76,927	114	82,738	129	80,985	126	78,966	88



The picture above represents all 2018 alcohol-involved fatal crashes in TSN Oakland County/TIA Early Birds.

In 2018, there were 1,058 alcohol-involved crashes in TSN Oakland County/TIA Early Birds:

13 K - Fatal Crashes

51 A - Suspected Serious Injury Crashes

186 B - Suspected Minor Injury Crashes

161 C - Possible Injury Crashes

647 O - Property Damage Only/No Injury Crashes

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