



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

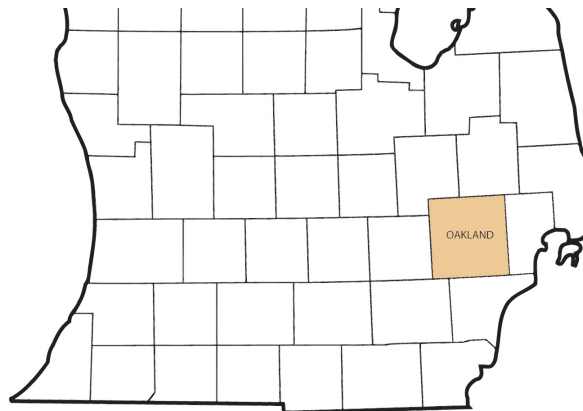
Property Damage Only (PDO)



Traffic Safety Network Oakland County/TIA Early Birds

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

Traffic Safety NetworkOakland 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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Traffic Safety Network Oakland County/TIA Early Birds

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TSN Oakland County/TIA Early Birds Experience

In 2017:

There were 80,985 drivers involved in 41,783 motor vehicle crashes in Traffic Safety Network Oakland County/TIA Early Birds. Of those crashes, 68 were classified as fatal, resulting in 69 fatalities. An additional 10,570 persons were injured.

Traffic Safety Network Oakland County/TIA Early Birds experienced the highest number of motor vehicle crashes (4,505) in December, the highest number of fatal crashes (10) and the highest number of persons killed (10) in July.

Michigan driver statistics indicate 6.5 percent of licensed drivers in Traffic Safety Network Oakland County/TIA Early Birds were age 16-20, and 10.5 percent of drivers in crashes were also in that age group.

2017 - Crashes and Injuries by Month

Month	Crashes				Persons	
	Total	Fatal	Injury	Property Damage Only (PDO)	Fatalities	Injuries
January	3,554	5	598	2,951	5	797
February	2,640	5	512	2,123	5	672
March	3,469	5	626	2,838	5	826
April	2,751	2	504	2,245	2	681
May	3,733	3	784	2,946	3	1,056
June	3,524	6	698	2,820	6	963
July	3,150	10	680	2,460	10	912
August	3,489	5	705	2,779	5	952
September	3,281	7	691	2,583	7	946
October	3,989	6	745	3,238	7	990
November	3,698	7	660	3,031	7	880
December	4,505	7	672	3,826	7	895
Total	41,783	68	7,875	33,840	69	10,570

2017 - Driver Statistics

Age Group	Oakland County/TIA Early Birds			Driver Rates	
	2017 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	232,010	7,690	106	4.6	137.8
16 - 20	74,854	64,758	8,509	1,136.7	1,314.0
21 - 24	61,357	60,558	7,453	1,214.7	1,230.7
25 - 64	677,773	668,284	51,308	757.0	767.8
65 +	204,842	183,494	8,030	392.0	437.6
Unknown	0	0	5,579	--	--
Total	1,250,836	984,784	80,985	647.4	822.4

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	70,975	87.6	95	75.4	14,186	56,694
Motor home	72	0.1	0	0.0	14	58
Pickup truck	6,490	8.0	18	14.3	1,143	5,329
Small truck under 10,000 lbs. GVWR	421	0.5	0	0.0	81	340
Motorcycle	274	0.3	7	5.6	197	70
Moped / goped	14	0.0	1	0.8	12	1
Go-cart / golf cart	10	0.0	0	0.0	3	7
Snowmobile	0	0.0	0	0.0	0	0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	8	0.0	0	0.0	5	3
Other	208	0.3	1	0.8	25	182
Truck/bus over 10,000 lbs.	1,653	2.0	4	3.2	281	1,368
Unknown	860	1.1	0	0.0	77	783
Total	80,985	100.0	126	100.0	16,024	64,835

Safety Network Oakland County/TIA Early Birds (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	3,351	5	4,982	1	3,968	5	3,592	3	3,554	5
February	3,072	4	3,391	3	3,489	1	3,447	2	2,640	5
March	2,622	5	3,106	3	2,849	7	3,300	3	3,469	5
April	2,483	2	2,330	5	2,584	5	3,106	8	2,751	2
May	3,090	1	3,115	4	3,234	3	3,399	6	3,733	3
June	3,042	6	3,138	12	3,212	9	3,626	5	3,524	6
July	2,848	8	2,790	6	3,097	6	3,161	9	3,150	10
August	2,932	5	3,020	4	3,109	5	3,545	9	3,489	5
September	2,978	4	3,351	6	3,312	9	3,661	9	3,281	7
October	3,506	5	3,721	5	3,576	5	3,848	10	3,989	6
November	3,463	7	3,940	6	3,857	5	3,661	5	3,698	7
December	3,896	2	3,067	7	3,556	4	4,314	9	4,505	7
Total	37,283	54	39,951	62	39,843	64	42,660	78	41,783	68

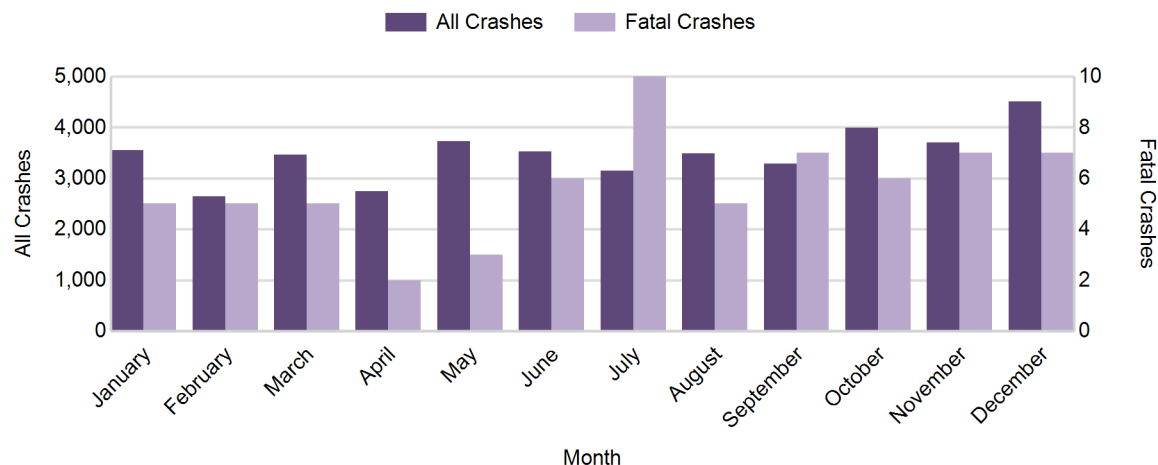
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

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	5,504	10	5,856	8	5,891	14	6,162	12	6,453	10
Tuesday	5,744	7	6,468	16	6,317	9	6,859	7	6,975	9
Wednesday	6,179	6	6,984	7	6,671	8	7,204	10	7,027	14
Thursday	6,157	8	6,611	7	6,318	7	7,169	9	6,728	13
Friday	6,269	12	6,537	8	6,696	12	7,195	12	6,849	8
Saturday	4,408	7	4,334	7	4,640	9	4,606	13	4,474	7
Sunday	3,022	4	3,161	9	3,310	5	3,465	15	3,277	7
Total	37,283	54	39,951	62	39,843	64	42,660	78	41,783	68

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

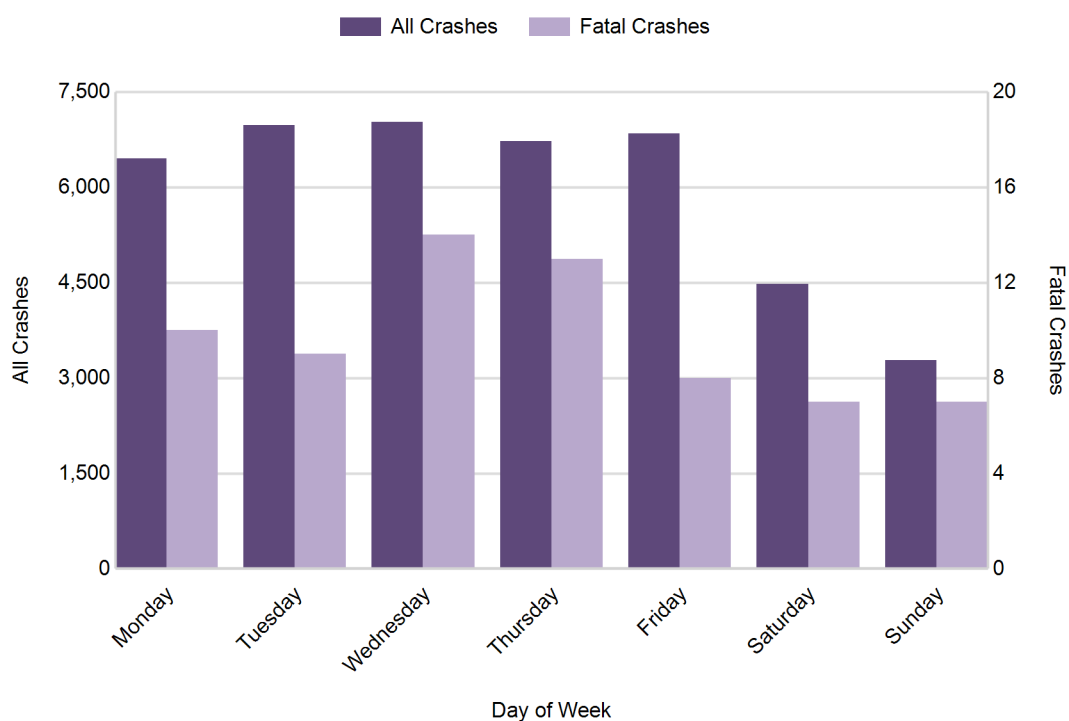


Traffic Safety Network Oakland County/TIA Early Birds (continued)

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	6,453	15.4	10	14.7	60	379	796	5,208
Tuesday	6,975	16.7	9	13.2	53	386	850	5,677
Wednesday	7,027	16.8	14	20.6	57	405	809	5,742
Thursday	6,728	16.1	13	19.1	58	399	821	5,437
Friday	6,849	16.4	8	11.8	57	385	801	5,598
Saturday	4,474	10.7	7	10.3	56	320	502	3,589
Sunday	3,277	7.8	7	10.3	45	254	382	2,589
Total	41,783	100.0	68	100.0	386	2,528	4,961	33,840

2017 Day of Week and Severity

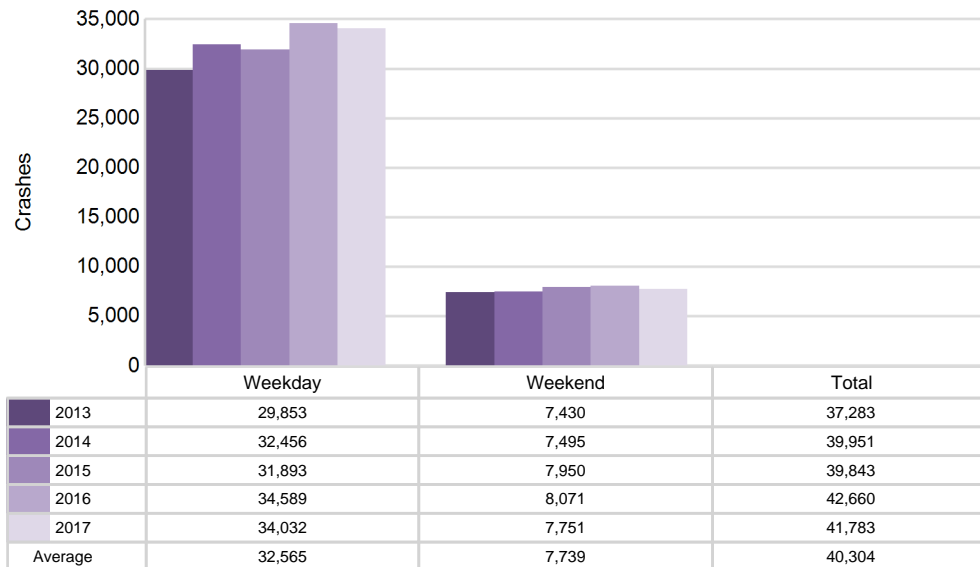


Safety Network Oakland County/TIA Early Birds (continued)

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	29,853	43	32,456	46	31,893	50	34,589	50	34,032	54
Weekend	7,430	11	7,495	16	7,950	14	8,071	28	7,751	14
Total	37,283	54	39,951	62	39,843	64	42,660	78	41,783	68

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



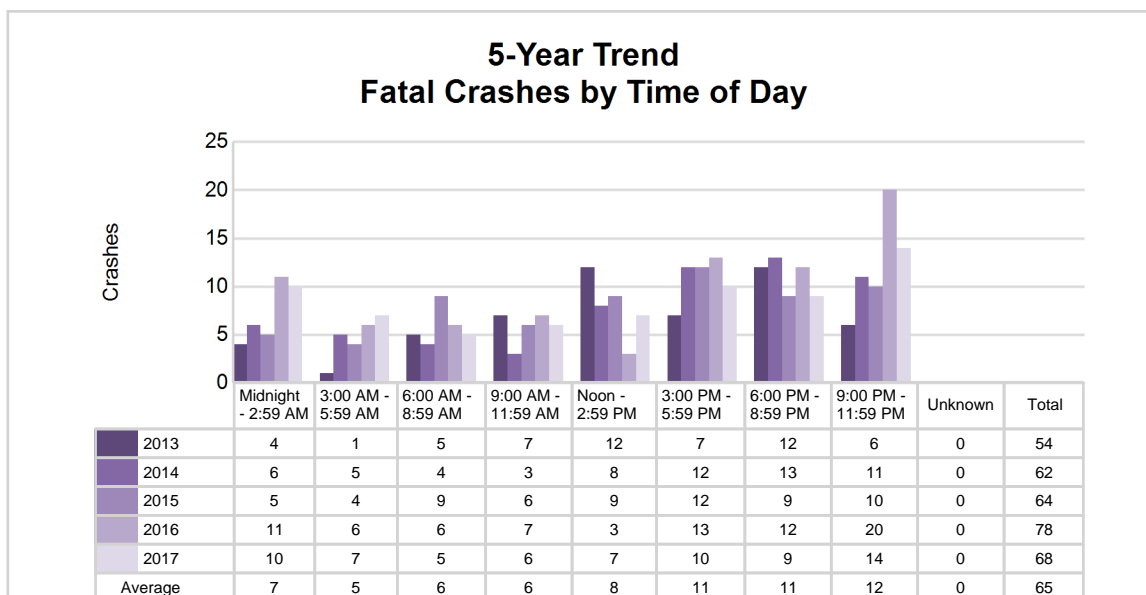
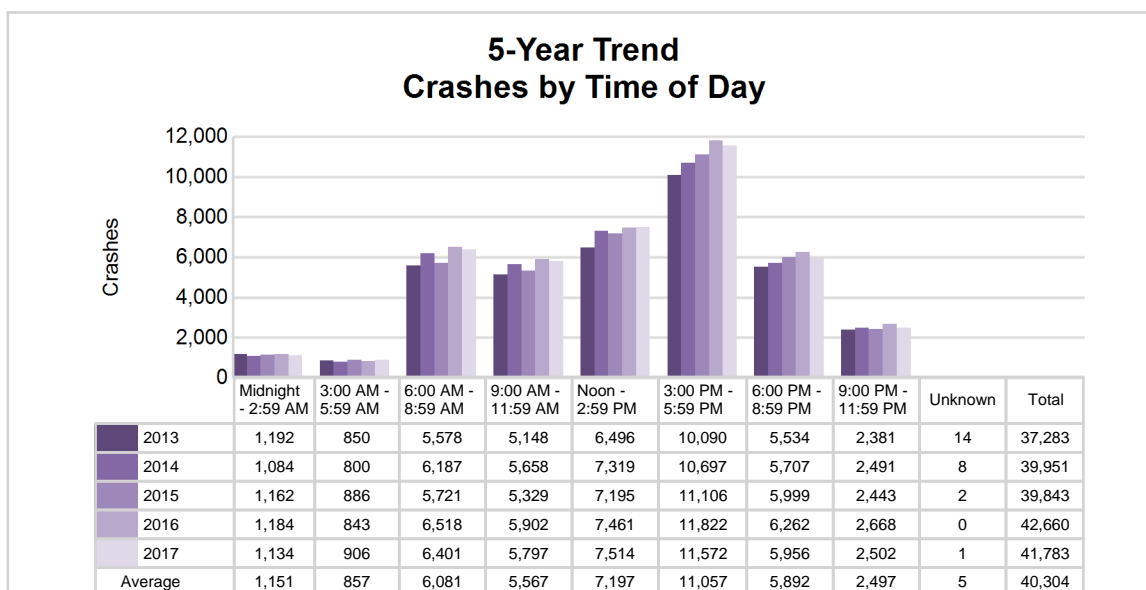
Traffic Safety Network Oakland County/TIA Early Birds (continued)

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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	1,192	4	1,084	6	1,162	5	1,184	11	1,134	10
3:00 AM - 5:59 AM	850	1	800	5	886	4	843	6	906	7
6:00 AM - 8:59 AM	5,578	5	6,187	4	5,721	9	6,518	6	6,401	5
9:00 AM - 11:59 AM	5,148	7	5,658	3	5,329	6	5,902	7	5,797	6
Noon - 2:59 PM	6,496	12	7,319	8	7,195	9	7,461	3	7,514	7
3:00 PM - 5:59 PM	10,090 †	7	10,697 †	12	11,106 †	12	11,822 †	13	11,572 †	10
6:00 PM - 8:59 PM	5,534	12	5,707	13	5,999	9	6,262	12	5,956	9
9:00 PM - 11:59 PM	2,381	6	2,491	11	2,443	10	2,668	20	2,502	14
Unknown	14	0	8	0	2	0	0	0	1	0
Total	37,283	54	39,951	62	39,843	64	42,660	78	41,783	68

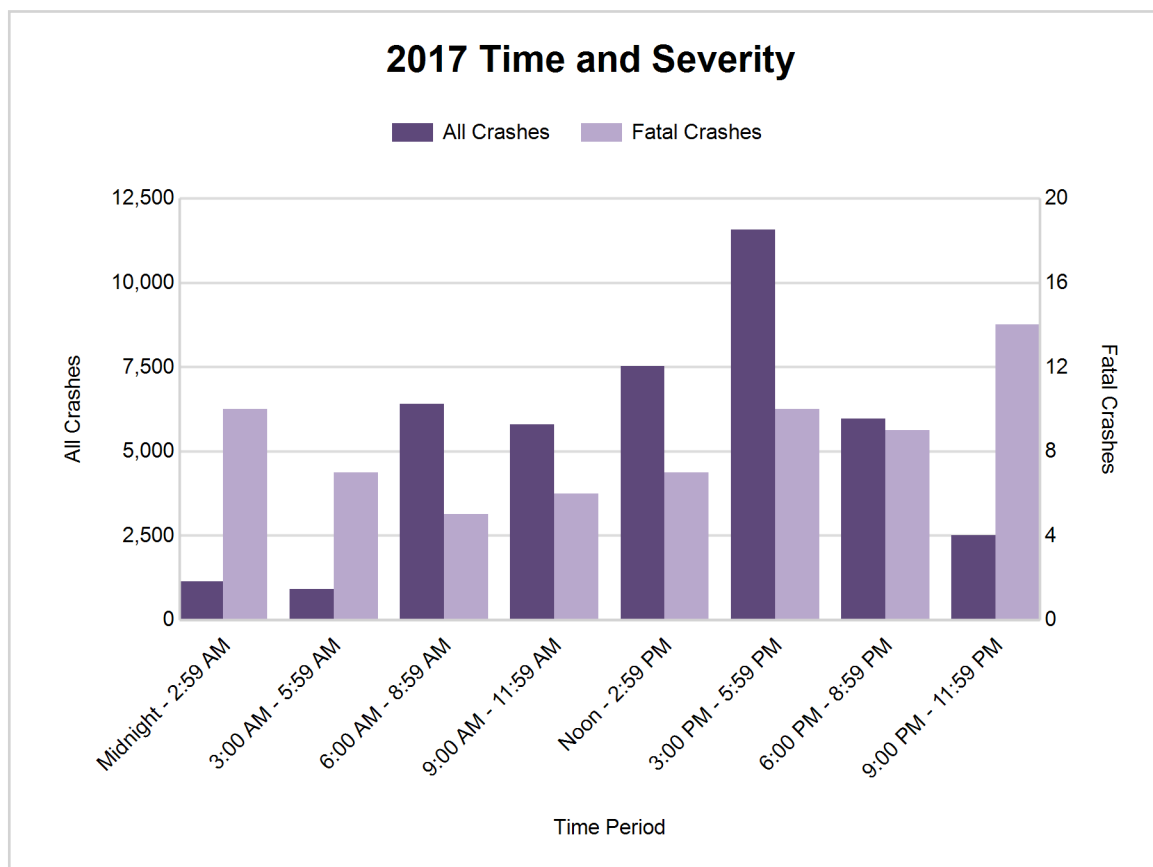
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same time period



Safety Network Oakland County/TIA Early Birds (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	1,134	2.7	10	14.7	23	94	126	881
3:00 AM - 5:59 AM	906	2.2	7	10.3	14	71	80	734
6:00 AM - 8:59 AM	6,401	15.3	5	7.4	38	300	747	5,311
9:00 AM - 11:59 AM	5,797	13.9	6	8.8	48	390	683	4,670
Noon - 2:59 PM	7,514	18.0	7	10.3	72	485	943	6,007
3:00 PM - 5:59 PM	11,572	27.7	10	14.7	92	644	1,403	9,423
6:00 PM - 8:59 PM	5,956	14.3	9	13.2	60	348	703	4,836
9:00 PM - 11:59 PM	2,502	6.0	14	20.6	39	196	276	1,977
Unknown	1	0.0	0	0.0	0	0	0	1
Total	41,783	100.0	68	100.0	386	2,528	4,961	33,840

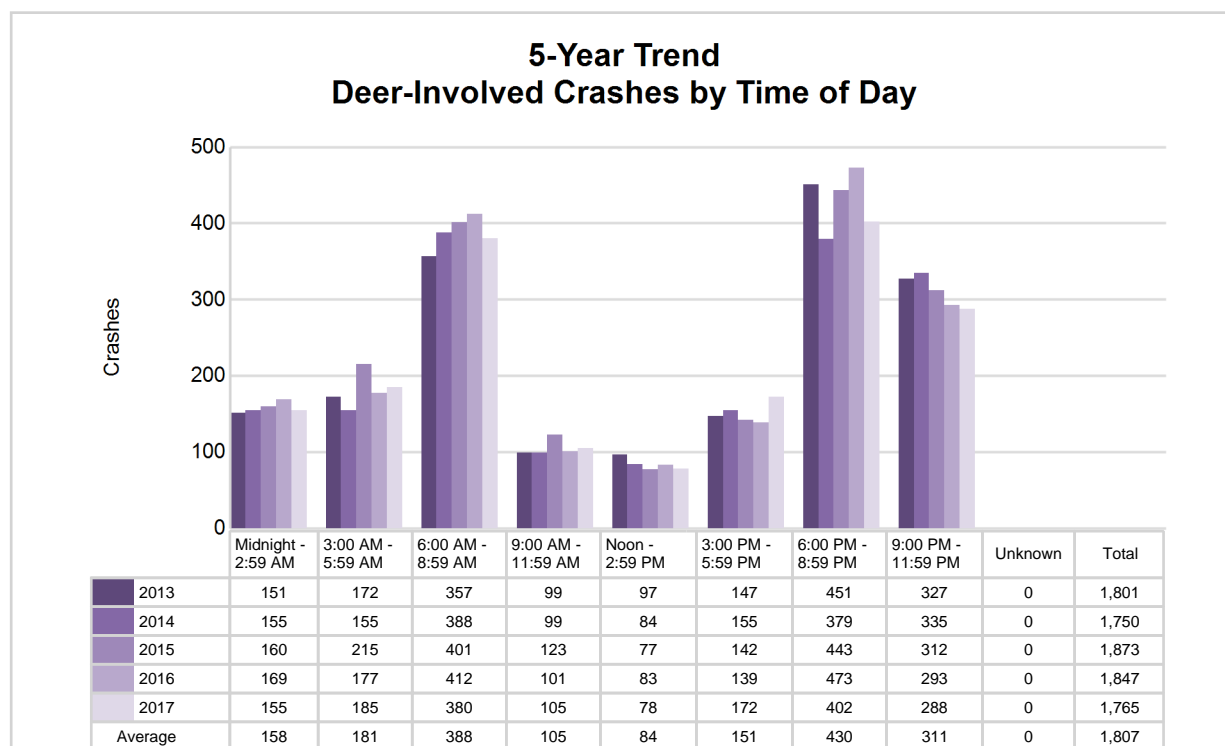


Traffic Safety Network Oakland County/TIA Early Birds (continued)

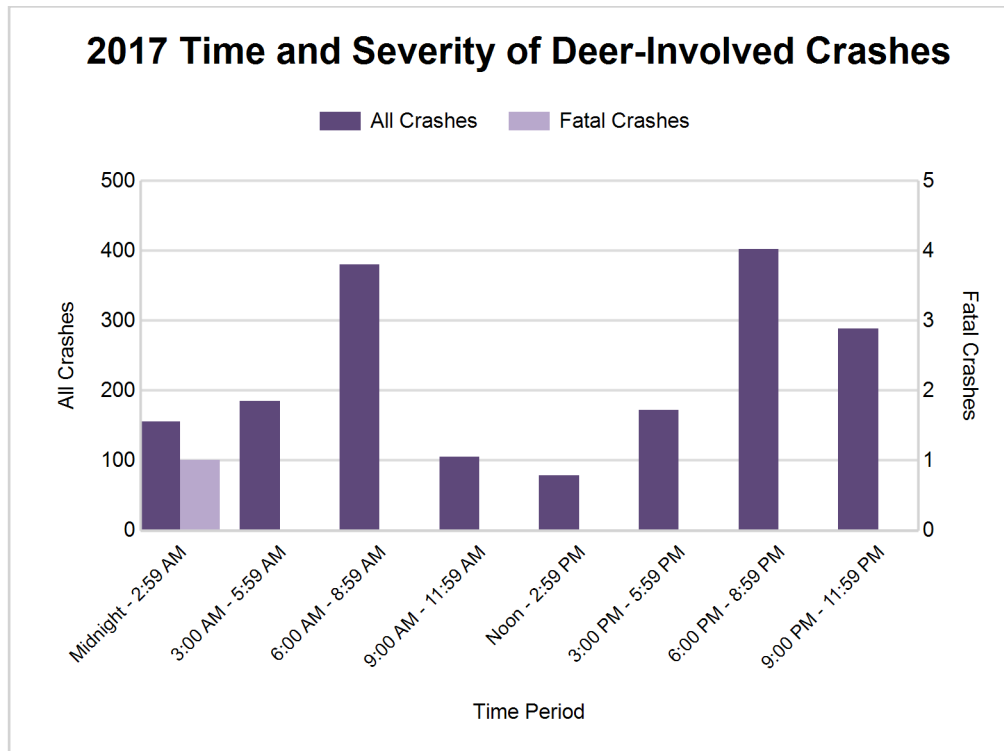
5-Year Trend - Deer-Involved Crashes by Time of Day

Time of Day	2013		2014		2015		2016		2017	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	151	0	155	0	160	0	169	0	155	1
3:00 AM - 5:59 AM	172	0	155	0	215	0	177	0	185	0
6:00 AM - 8:59 AM	357	0	388	0	401	0	412	0	380	0
9:00 AM - 11:59 AM	99	0	99	0	123	0	101	0	105	0
Noon - 2:59 PM	97	0	84	0	77	0	83	0	78	0
3:00 PM - 5:59 PM	147	0	155	0	142	0	139	0	172	0
6:00 PM - 8:59 PM	451	0	379	0	443	0	473	0	402	0
9:00 PM - 11:59 PM	327	0	335	0	312	0	293	0	288	0
Unknown	0	0	0	0	0	0	0	0	0	0
Total	1,801	0	1,750	0	1,873	0	1,847	0	1,765	1

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



Safety Network Oakland County/TIA Early Birds (continued)



2017 - Reported Motor Vehicle Crashes by County

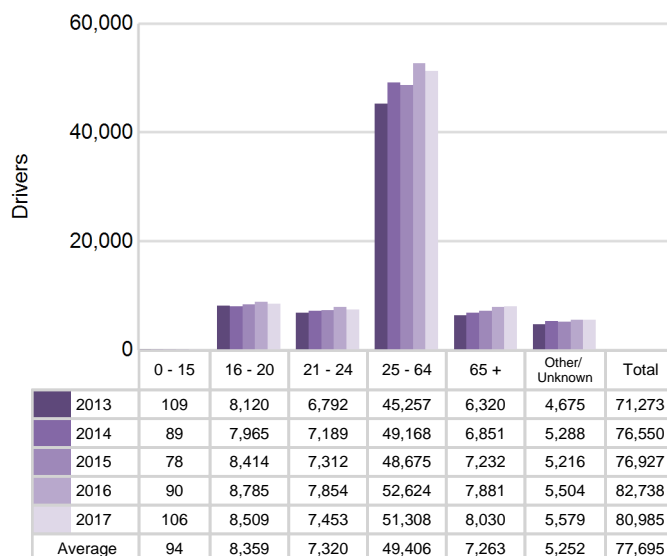
County	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Oakland	41,783	68	7,875	33,840	7,428	2,484	7,018	24,795	1,060	298	1,765	69	10,570
Total	41,783	68	7,875	33,840	7,428	2,484	7,018	24,795	1,060	298	1,765	69	10,570

Traffic Safety Network Oakland County/TIA Early Birds (continued)

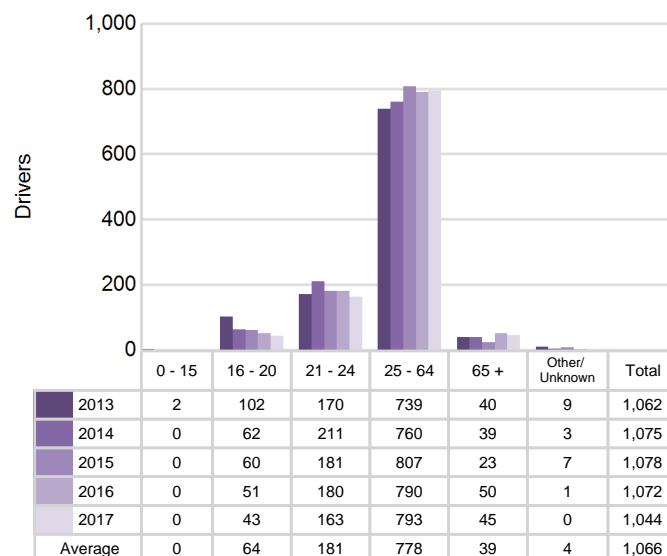
5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

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	109	2	89	0	78	0	90	0	106	0
16 - 20	8,120	102	7,965	62	8,414	60	8,785	51	8,509	43
21 - 24	6,792	170	7,189	211	7,312	181	7,854	180	7,453	163
25 - 64	45,257	739	49,168	760	48,675	807	52,624	790	51,308	793
65 +	6,320	40	6,851	39	7,232	23	7,881	50	8,030	45
Unknown	4,675	9	5,288	3	5,216	7	5,504	1	5,579	0
Total	71,273	1,062	76,550	1,075	76,927	1,078	82,738	1,072	80,985	1,044

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



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



Safety Network Oakland County/TIA Early Birds (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	83	59	42	43	2	6	11	12	12
21 - 24	220	159	145	163	2	23	39	35	64
25 - 64	1,203	798	703	793	13	56	205	189	330
65 +	90	54	43	45	0	4	13	7	21
Unknown	132	0	0	0	0	0	0	0	0
Total	1,728	1,070	933	1,044	17	89	268	243	427

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 1,728 drivers in alcohol-involved crashes; 1,044 (60.4%) of those drivers were coded as had-been-drinking by the officer on the crash form.

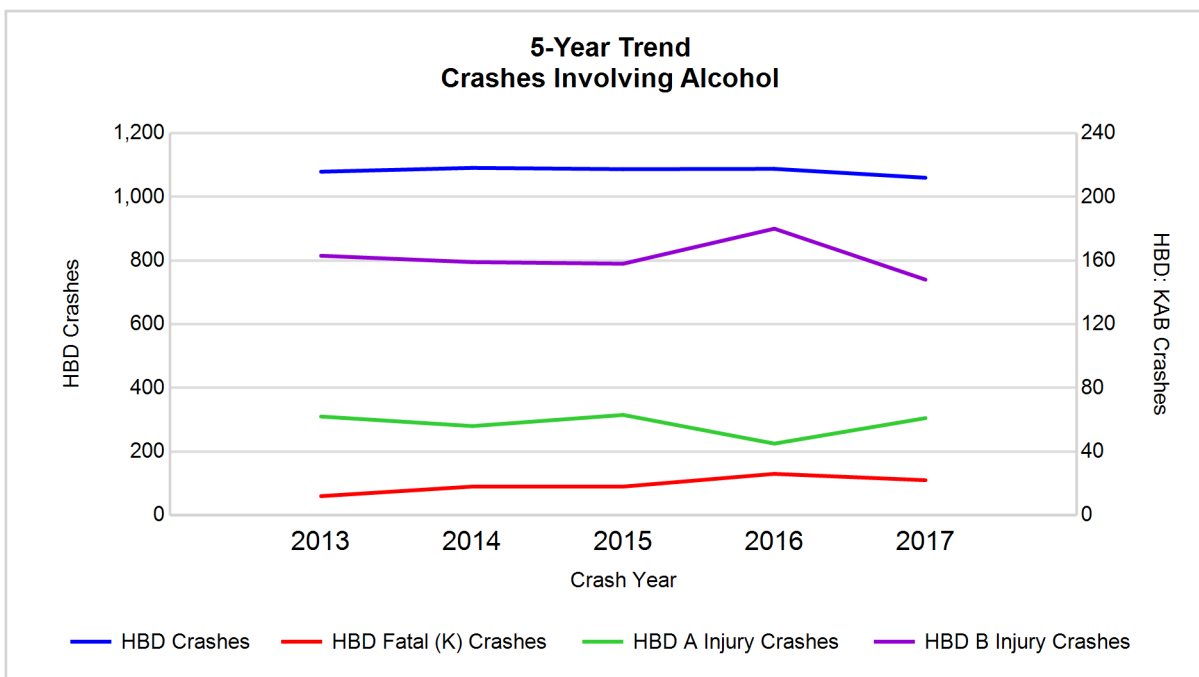
- 511 (48.9%) of the 1,044 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 243 (47.6%) of the 511 drivers had a BAC at or above 0.17 g/dL.
- 933 (89.4%) of the 1,044 drivers were coded as had-been-drinking and were tested for alcohol consumption.

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	37,283	1,079	2.9	54	12	22.2	434	62	14.3	1,863	163	8.7
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*

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)

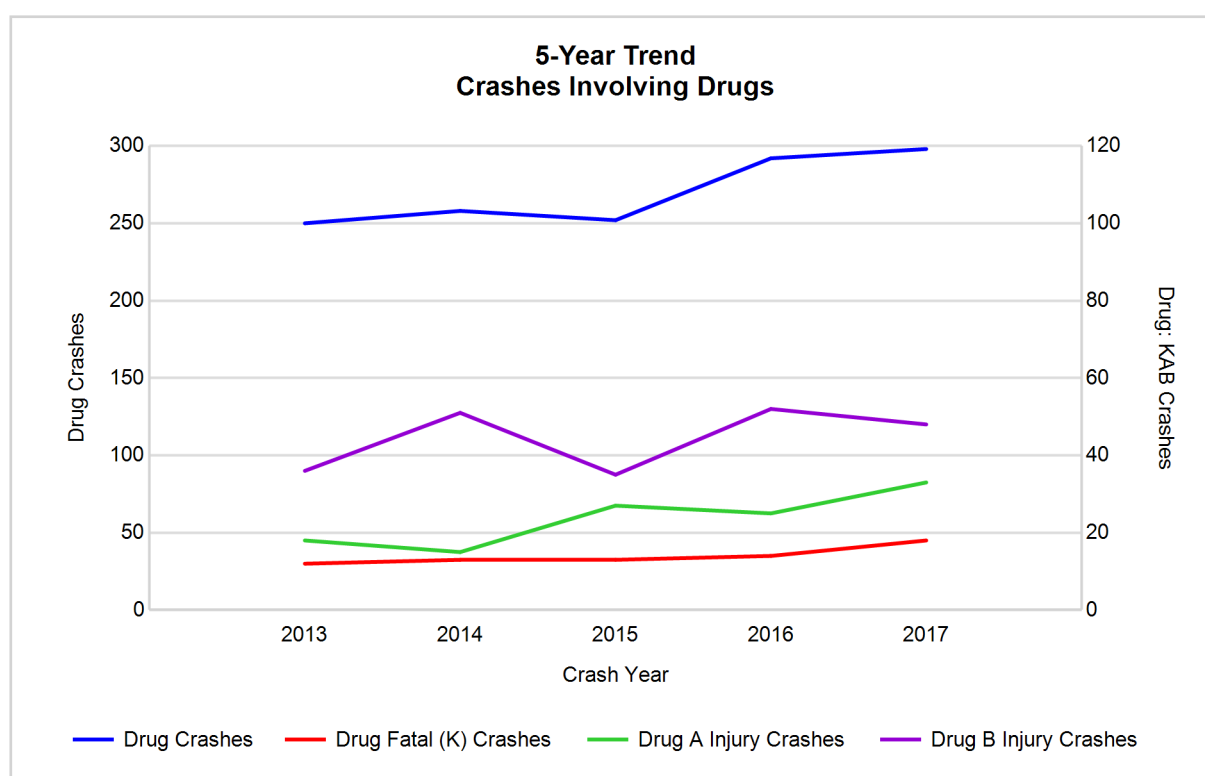
Traffic Safety Network Oakland County/TIA Early Birds (continued)

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
2013	37,283	250	0.7	54	12	22.2	434	18	4.1	1,863	36	1.9
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

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



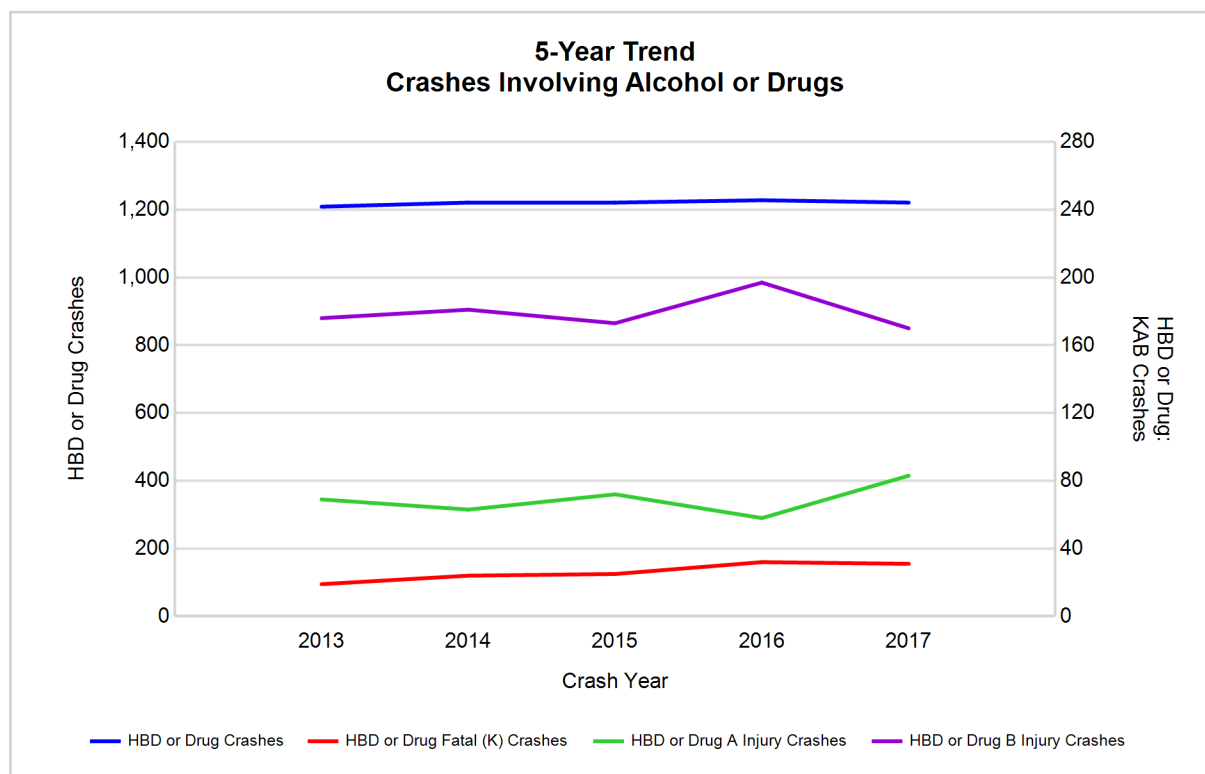
Safety Network Oakland County/TIA Early Birds (continued)

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	37,283	1,209	3.2	54	19	35.2	434	69	15.9	1,863	176	9.4
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*

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 Oakland County/TIA Early Birds (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	72,868	67,207	92.2	35	20	57.1	277	232	83.8	2,607	2,464	94.5	6,497	6,323	97.3	59,188	58,168	98.3
Motor home	75	68	90.7	0	0	0.0	0	0	0.0	2	2	100.0	8	5	62.5	62	61	98.4
Pickup truck	6,588	5,877	89.2	4	3	75.0	23	17	73.9	147	134	91.2	339	320	94.4	5,512	5,403	98.0
Small truck under 10,000 lbs. GVWR	425	378	88.9	0	0	0.0	1	1	100.0	8	6	75.0	16	16	100.0	366	355	97.0
Motorcycle	289	204	70.6	7	4	57.1	54	31	57.4	106	83	78.3	45	38	84.4	71	48	67.6
Moped / goped	16	4	25.0	1	0	0.0	5	0	0.0	5	1	20.0	4	2	50.0	1	1	100.0
Go-cart / golf cart	12	4	33.3	0	0	0.0	1	1	100.0	2	0	0.0	1	1	100.0	7	2	28.6
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	10	4	40.0	0	0	0.0	0	0	0.0	3	2	66.7	4	1	25.0	1	1	100.0
Other	209	143	68.4	1	0	0.0	1	1	100.0	5	3	60.0	9	7	77.8	148	132	89.2
Truck/bus over 10,000 lbs.	1,703	1,528	89.7	0	0	0.0	6	5	83.3	19	16	84.2	64	21	32.8	1,514	1,486	98.2
Unknown	860	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Total	83,055	75,417	90.8	48	27	56.3	368	288	78.3	2,904	2,711	93.4	6,987	6,734	96.4	66,870	65,657	98.2

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.

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	677	598	88.3	0	0	0.0	7	4	57.1	78	66	84.6	494	439	88.9	95	89	93.7
16 - 20	8,775	8,556	97.5	5	2	40.0	36	25	69.4	348	327	94.0	667	634	95.1	7,687	7,568	98.5
21 - 24	7,612	7,368	96.8	4	3	75.0	48	38	79.2	293	264	90.1	624	598	95.8	6,607	6,465	97.9
25 - 64	52,128	50,767	97.4	27	14	51.9	238	187	78.6	1,802	1,685	93.5	4,337	4,213	97.1	45,505	44,668	98.2
65 +	8,283	8,125	98.1	12	8	66.7	39	34	87.2	383	369	96.3	864	849	98.3	6,972	6,865	98.5
Unknown	5,580	3	0.1	0	0	0.0	0	0	0.0	0	0	0.0	1	1	100.0	4	2	50.0
Total	83,055	75,417	90.8	48	27	56.3	368	288	78.3	2,904	2,711	93.4	6,987	6,734	96.4	66,870	65,657	98.2

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.

Safety Network Oakland County/TIA Early Birds (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	33	1	10	35	0	5	26	0	4	31	0	6	32	1	2
Shoulder belt only used	29	0	3	4	0	0	4	0	1	59	0	7	49	0	7
Lap belt only used	42	0	5	31	0	4	27	0	5	29	0	4	33	0	4
Both lap & shoulder belts used	65,042	18	7,082	69,634	16	7,281	69,940	18	7,525	75,247	15	8,147	73,288	20	7,733
No belts used	249	10	124	259	11	119	259	13	118	246	11	114	210	13	115
Child restraint used	0	0	0	1	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	4	0	3	2	0	1	1	0	0	3	0	0	1	0	0
Restraint use unknown	5,178	3	117	5,821	1	101	5,906	3	132	5,924	2	113	5,286	3	124
Helmet worn	218	4	157	197	5	142	204	4	151	240	10	168	200	4	146
Helmet not worn	57	3	45	70	3	50	71	2	54	83	4	62	76	3	55
Helmet use unknown	7	0	4	7	0	5	14	0	8	13	2	7	12	0	7
Uncoded & errors	414	0	0	489	0	1	475	0	0	863	0	0	1,798	0	0
Total	71,273	39	7,550	76,550	36	7,709	76,927	40	7,998	82,738	44	8,628	80,985	44	8,193

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	7	0	6	0	0	0	1	0	0	0	0	0	0	0	0
Shoulder belt only used	1	0	0	0	0	0	1	0	1	3	0	1	0	0	0
Lap belt only used	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
Both lap & shoulder belts used	864	4	212	877	1	201	879	2	195	866	2	220	864	3	201
No belts used	50	1	30	56	4	40	56	5	34	57	5	37	37	4	25
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	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Restraint use unknown	124	0	42	125	0	28	123	2	34	128	1	29	124	0	37
Helmet worn	7	0	6	10	2	7	9	1	5	7	2	5	6	1	4
Helmet not worn	7	0	6	6	1	4	7	1	4	9	2	7	12	1	10
Helmet use unknown	1	0	1	1	0	1	1	0	0	1	1	0	1	0	1
Uncoded & errors	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Total	1,062	5	304	1,075	8	281	1,078	11	273	1,072	13	300	1,044	9	278

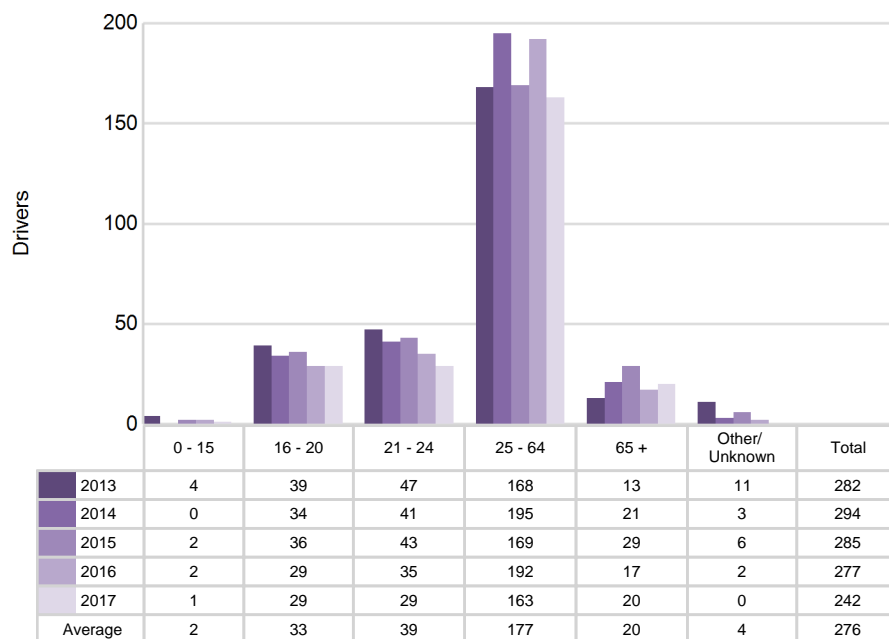
Traffic Safety Network Oakland County/TIA Early Birds (continued)

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	4	0	0	0	0	0	2	0	0	2	0	1	1	0	0
16 - 20	39	2	23	34	0	20	36	1	16	29	0	15	29	3	15
21 - 24	47	1	31	41	1	18	43	3	23	35	4	21	29	1	16
25 - 64	168	7	72	195	8	77	169	8	69	192	5	78	163	6	77
65 +	13	1	7	21	2	9	29	1	14	17	2	5	20	4	9
Unknown	11	0	1	3	0	0	6	0	0	2	0	0	0	0	0
Total	282	11	134	294	11	124	285	13	122	277	11	120	242	14	117

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

5-Year Trend Driver Seatbelt Not Used



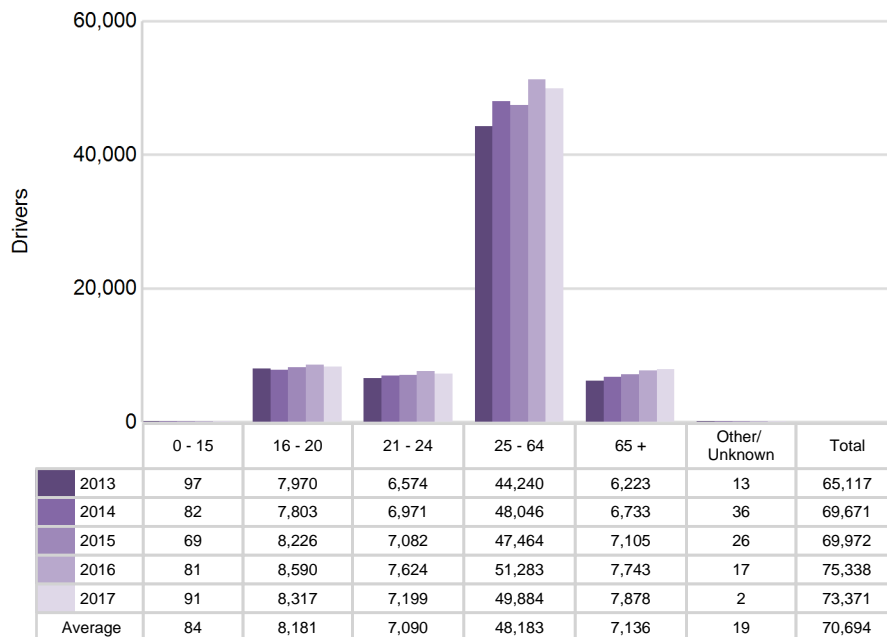
Safety Network Oakland County/TIA Early Birds (continued)

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	97	0	5	82	0	5	69	0	7	81	0	4	91	0	2
16 - 20	7,970	0	731	7,803	0	694	8,226	1	741	8,590	0	765	8,317	2	752
21 - 24	6,574	0	676	6,971	2	691	7,082	1	705	7,624	2	809	7,199	2	741
25 - 64	44,240	14	4,820	48,046	7	5,089	47,464	9	5,146	51,283	9	5,564	49,884	10	5,240
65 +	6,223	4	861	6,733	7	806	7,105	7	932	7,743	4	1,016	7,878	6	1,009
Unknown	13	0	0	36	0	1	26	0	0	17	0	0	2	0	0
Total	65,117	18	7,093	69,671	16	7,286	69,972	18	7,531	75,338	15	8,158	73,371	20	7,744

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

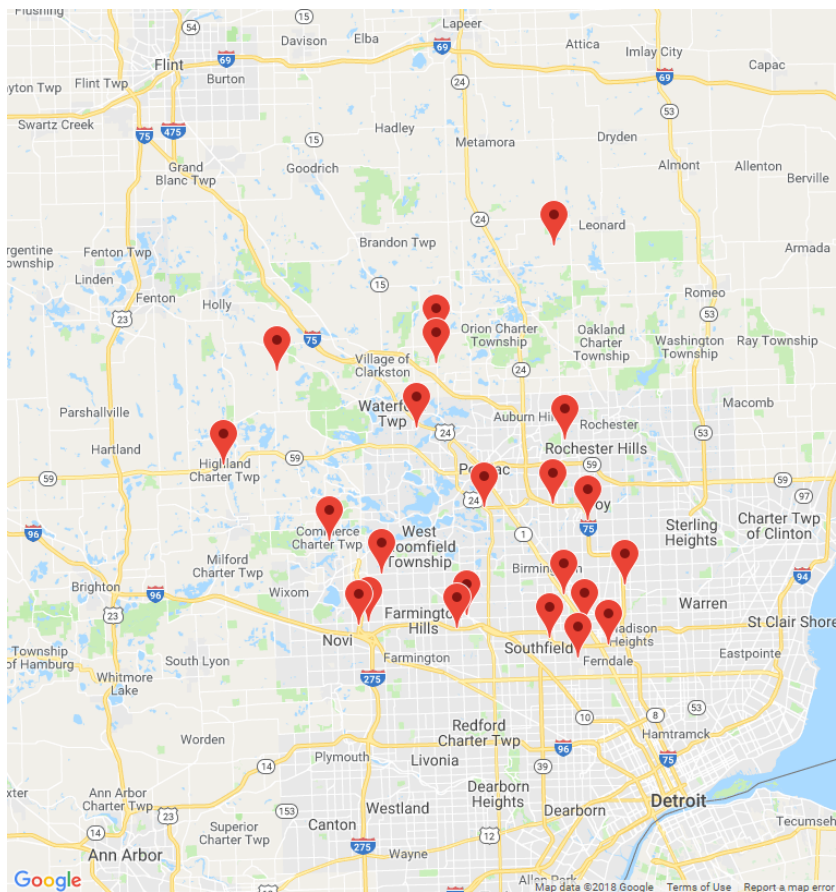


Traffic Safety Network Oakland County/TIA Early Birds (continued)

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	34,373	47	36,689	41	37,373	59	40,123	53	39,218	67
Speed too fast	2,709	7	3,252	8	2,438	4	2,688	9	2,455	7
Speed too slow	15	0	13	0	13	0	10	0	11	0
Failed to yield	6,582	9	6,757	3	6,950	7	7,285	6	7,356	7
Disregard traffic control	1,032	1	1,090	3	1,148	8	1,306	6	1,252	2
Drove wrong way	25	0	29	1	39	0	32	1	41	1
Drove left of center	322	3	388	6	335	4	359	4	332	9
Improper passing	219	0	300	1	284	1	306	0	319	0
Improper lane use	1,800	0	1,867	0	2,077	0	2,383	0	2,388	0
Improper turn	478	0	549	1	623	0	751	1	735	0
Improper/no signal	76	0	64	0	56	0	45	0	63	0
Improper backing	836	0	963	1	915	0	998	0	969	0
Unable to stop in assured clear distance	14,187	4	15,134	4	15,623	4	16,973	6	16,500	7
Other	2,216	6	2,527	6	2,340	11	2,463	10	2,412	7
Unknown	3,491	9	3,771	9	3,712	3	3,904	24	4,109	12
Reckless driving	223	6	224	4	236	5	243	4	251	3
Careless/negligent driving	1,203	4	1,220	6	1,379	7	1,456	4	1,238	3
Uncoded & errors	1,486	2	1,713	5	1,386	1	1,413	1	1,336	1
Total	71,273	98	76,550	99	76,927	114	82,738	129	80,985	126

Safety Network Oakland County/TIA Early Birds (continued)



The picture above represents all 2017 alcohol-involved fatal crashes in TSN Oakland County/TIA Early Birds.

In 2017, there were 1,060 alcohol-involved crashes in TSN Oakland County/TIA Early Birds:

22 K - Fatal Crashes

61 A - Suspected Serious Injury Crashes

148 B - Suspected Minor Injury Crashes

170 C - Possible Injury Crashes

659 O - Property Damage Only/No Injury Crashes

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