



2021

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

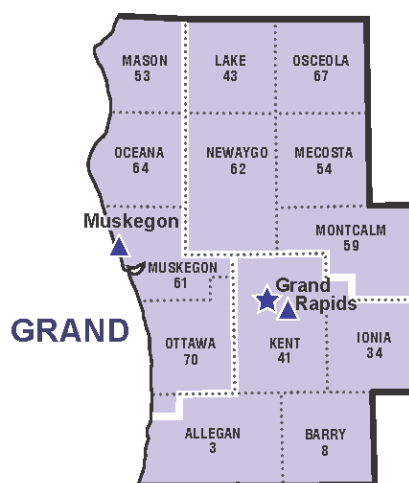
Property Damage Only (PDO)



MDOT Region - Grand

2021 Traffic Crash Data & 2017-2021 5-Year Trends

Beginning October 2015, MDOT Region - Grand is comprised of Allegan, Barry, Ionia, Kent, Lake, Mason, Mecosta, Montcalm, Muskegon, Newaygo, Oceana, Osceola and Ottawa 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.

2021 - Crashes and Injury by Month

Month	Crashes				People	
	Total	Fatal	Injury	Property Damage Only (PDO)	Fatalities	Injuries
January	3,907	7	569	3,331	7	763
February	4,010	10	525	3,475	10	667
March	3,001	13	519	2,469	14	715
April	2,976	14	569	2,393	17	789
May	3,781	16	683	3,082	18	936
June	4,031	8	791	3,232	8	1,099
July	3,680	18	749	2,913	18	1,030
August	3,784	21	792	2,971	24	1,104
September	4,039	27	822	3,190	28	1,112
October	5,040	11	780	4,249	12	1,062
November	5,409	10	760	4,639	10	1,059
December	4,522	13	666	3,843	14	847
Total	48,180	168	8,225	39,787	180	11,183

2021 - Driver Statistics

Age Group	MDOT Region - Grand			Driver Rates	
	2019 Population*	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	331,339	9,462	165	5.0	174.4
16 - 20	109,795	76,594	9,599	874.3	1,253.2
21 - 24	88,818	74,279	7,835	882.1	1,054.8
25 - 64	823,029	757,667	46,089	560.0	608.3
65 +	260,943	260,183	7,657	293.4	294.3
Unknown	0	0	6,948	--	--
Total	1,613,924	1,178,185	78,293	485.1	664.5

*2021 Population of Michigan Counties (by single-year of age) not yet available from U.S. Census Bureau.

2021 - 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	62,649	80.0	182	67.4	12,030	50,437
Motor Home	197	0.3	0	0.0	33	164
Pickup Truck	9,578	12.2	32	11.9	1,632	7,914
Small Truck Under 10,000 lbs. GVWR	337	0.4	0	0.0	54	283
Motorcycle	580	0.7	32	11.9	416	132
Moped/Goped	93	0.1	0	0.0	76	17
Go-Cart/Golf Cart	5	0.0	0	0.0	4	1
Snowmobile	9	0.0	1	0.4	2	6
Off-Road Vehicle (ORV)/All-Terrain Vehicle (ATV)	54	0.1	0	0.0	38	16
Other (non-registered farm equipment, construction equipment, snow plows, etc.)	295	0.4	4	1.5	64	227
Truck/Bus (over 10,000 lbs. GVWR/8+ occupants/hazmat placard)	2,430	3.1	17	6.3	422	1,991
Uncoded & Errors	2,066	2.6	2	0.7	150	1,914
Total	78,293	100.0	270	100.0	14,921	63,102

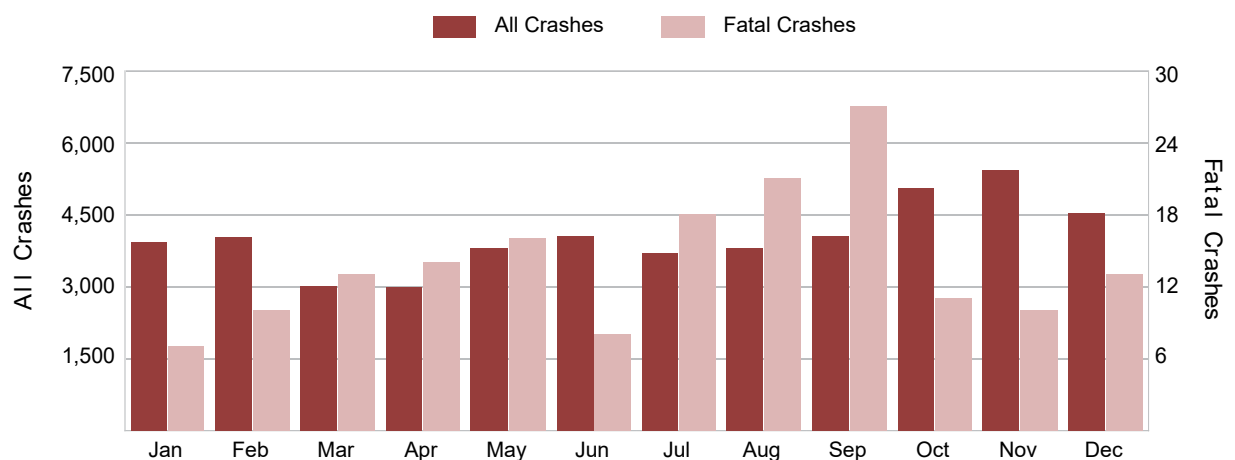
5-Year Trend - Crashes by Month

Month	2017		2018		2019		2020		2021	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
January	4,878	10	4,991	12	5,762	7	4,273	11	3,907	7
February	3,367	12	4,186	9	4,632	6	4,124	15	4,010	10
March	3,815	17	3,586	6	3,957	9	2,294	6	3,001	13
April	3,309	12	3,930	13	3,701	10	1,574	4	2,976	14
May	3,980	13	3,824	18	3,887	19	2,576	22	3,781	16
June	4,181	17	3,961	9	4,020	14	3,537	21	4,031	8
July	3,797	14	3,738	17	3,758	22	3,513	23	3,680	18
August	3,702	18	3,823	25	3,852	19	3,432	24	3,784	21
September	3,980	19	3,935	21	3,907	19	3,809	18	4,039	27
October	5,338	18	5,393	12	5,603	18	4,884	16	5,040	11
November	5,098	20	5,983	9	5,987	14	4,559	13	5,409	10
December	7,033	11	4,566	14	4,950	9	3,851	11	4,522	13
Total	52,478	181	51,916	165	54,016	166	42,426	184	48,180	168

5-Year Trend - Crashes by Day of Week

Day	2017		2018		2019		2020		2021	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Monday	7,502	15	7,845	21	7,850	21	5,868	23	7,049	24
Tuesday	7,691	23	8,055	18	8,885	14	6,013	26	7,271	19
Wednesday	7,901	32	8,028	21	8,574	21	6,417	24	6,854	20
Thursday	8,192	32	7,460	19	7,987	24	6,695	27	7,269	26
Friday	8,904	25	8,635	22	8,624	30	6,852	25	8,046	23
Saturday	6,974	27	6,673	25	6,323	31	5,868	32	6,460	25
Sunday	5,314	27	5,220	39	5,773	25	4,713	27	5,231	31
Total	52,478	181	51,916	165	54,016	166	42,426	184	48,180	168

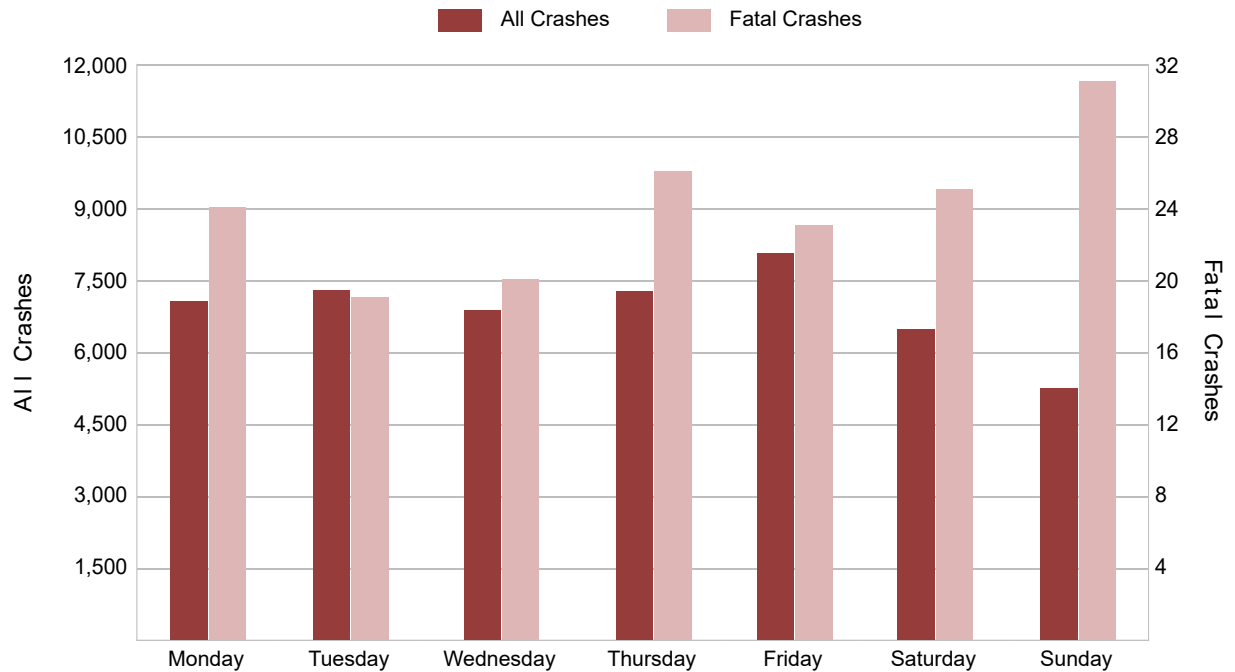
2021 Crashes by Month



2021 - Crashes by Day of Week

Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Fatal	% of Fatal	A	B	C	Number
Monday	7,049	14.6	24	14.3	129	346	718	5,832
Tuesday	7,271	15.1	19	11.3	101	349	746	6,056
Wednesday	6,854	14.2	20	11.9	118	329	708	5,679
Thursday	7,269	15.1	26	15.5	119	338	742	6,044
Friday	8,046	16.7	23	13.7	166	413	806	6,638
Saturday	6,460	13.4	25	14.9	159	381	634	5,261
Sunday	5,231	10.9	31	18.5	122	324	477	4,277
Total	48,180	100.0	168	100.0	914	2,480	4,831	39,787

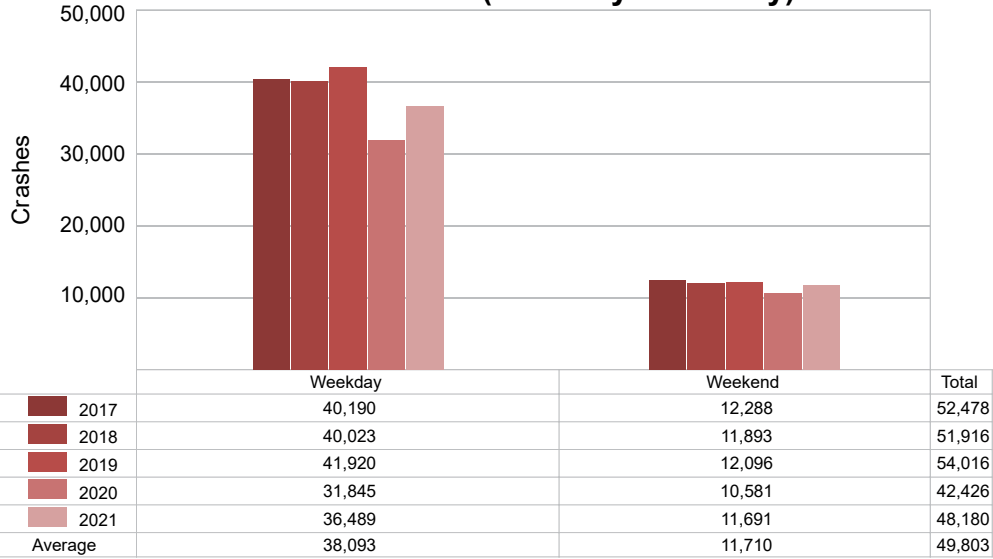
2021 Day of Week and Severity



5-Year Trend - Crashes by Weekday and Weekend

Portion of Week	2017		2018		2019		2020		2021	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Weekday	40,190	127	40,023	101	41,920	110	31,845	125	36,489	112
Weekend	12,288	54	11,893	64	12,096	56	10,581	59	11,691	56
Total	52,478	181	51,916	165	54,016	166	42,426	184	48,180	168

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

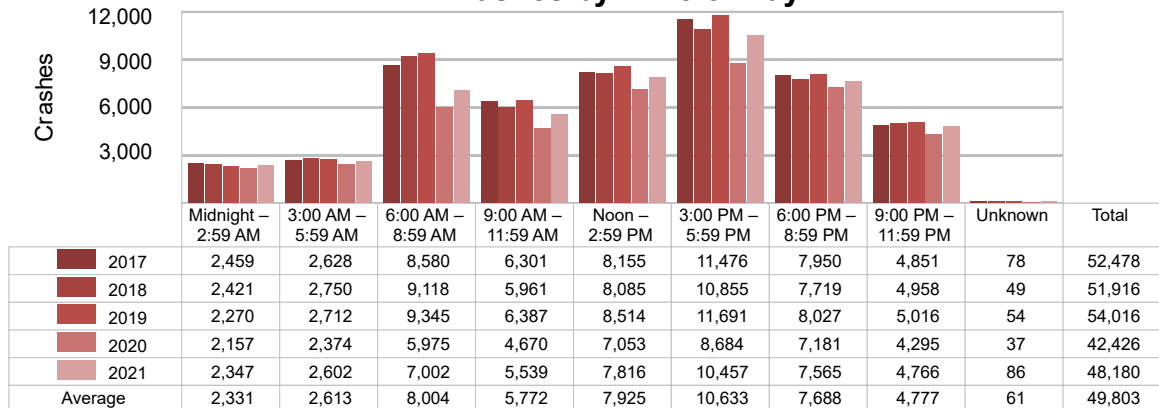


5-Year Trend - Crashes by Time of Day

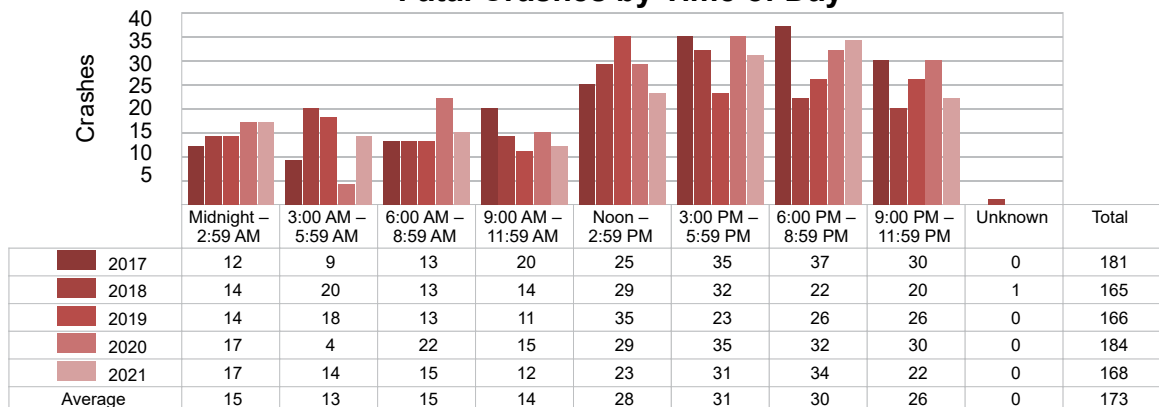
Time of Day	2017		2018		2019		2020		2021	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight – 2:59 AM	2,459	12	2,421	14	2,270	14	2,157	17	2,347	17
3:00 AM – 5:59 AM	2,628	9	2,750	20	2,712	18	2,374	4	2,602	14
6:00 AM – 8:59 AM	8,580	13	9,118	13	9,345	13	5,975	22	7,002	15
9:00 AM – 11:59 AM	6,301	20	5,961	14	6,387	11	4,670	15	5,539	12
Noon – 2:59 PM	8,155	25	8,085	29	8,514	35	7,053	29	7,816	23
3:00 PM – 5:59 PM	11,476 †	35	10,855 †	32	11,691 †	23	8,684 †	35	10,457 †	31
6:00 PM – 8:59 PM	7,950	37	7,719	22	8,027	26	7,181	32	7,565	34
9:00 PM – 11:59 PM	4,851	30	4,958	20	5,016	26	4,295	30	4,766	22
Unknown	78	0	49	1	54	0	37	0	86	0
Total	52,478	181	51,916	165	54,016	166	42,426	184	48,180	168

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

5-Year Trend Crashes by Time of Day

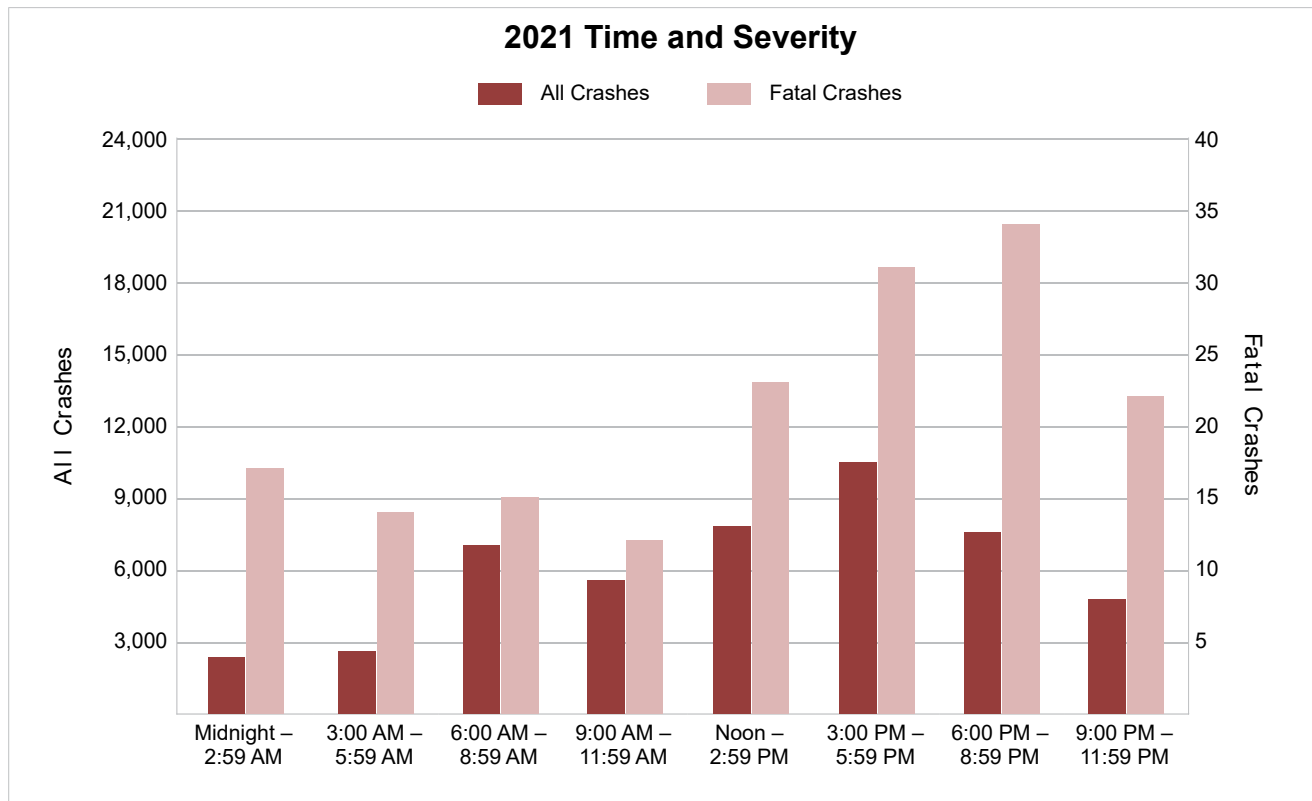


5-Year Trend Fatal Crashes by Time of Day



2021 - Time and Severity

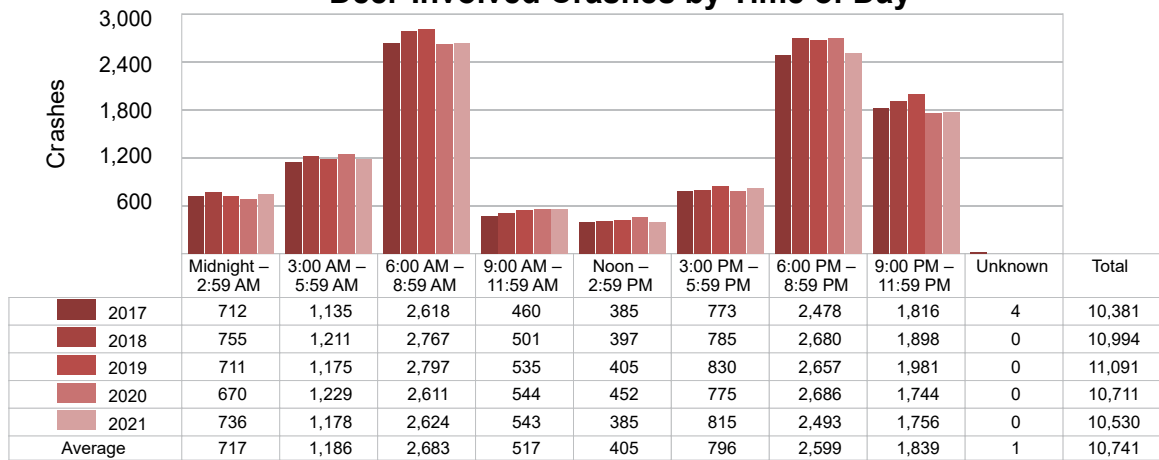
Time of Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Midnight – 2:59 AM	2,347	4.9	17	10.1	60	150	194	1,926
3:00 AM – 5:59 AM	2,602	5.4	14	8.3	46	110	172	2,260
6:00 AM – 8:59 AM	7,002	14.5	15	8.9	74	275	543	6,095
9:00 AM – 11:59 AM	5,539	11.5	12	7.1	102	317	590	4,518
Noon – 2:59 PM	7,816	16.2	23	13.7	155	469	993	6,176
3:00 PM – 5:59 PM	10,457	21.7	31	18.5	190	619	1,274	8,343
6:00 PM – 8:59 PM	7,565	15.7	34	20.2	154	336	659	6,382
9:00 PM – 11:59 PM	4,766	9.9	22	13.1	131	204	404	4,005
Unknown	86	0.2	0	0.0	2	0	2	82
Total	48,180	100.0	168	100.0	914	2,480	4,831	39,787



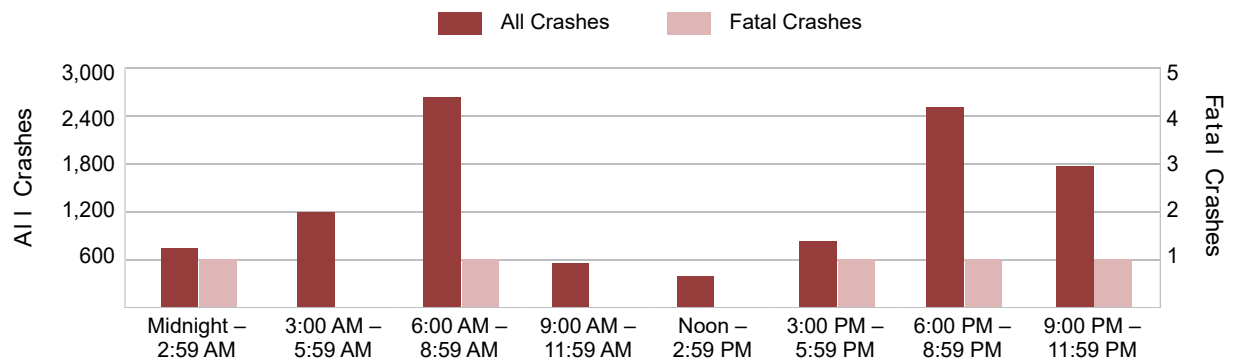
5-Year Trend - Deer-Involved Crashes by Time of Day

Time of Day	2017		2018		2019		2020		2021	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight – 2:59 AM	712	0	755	0	711	0	670	1	736	1
3:00 AM – 5:59 AM	1,135	0	1,211	1	1,175	0	1,229	0	1,178	0
6:00 AM – 8:59 AM	2,618	1	2,767	2	2,797	0	2,611	0	2,624	1
9:00 AM – 11:59 AM	460	0	501	0	535	0	544	0	543	0
Noon – 2:59 PM	385	0	397	0	405	0	452	0	385	0
3:00 PM – 5:59 PM	773	1	785	1	830	1	775	0	815	1
6:00 PM – 8:59 PM	2,478	2	2,680	0	2,657	1	2,686	0	2,493	1
9:00 PM – 11:59 PM	1,816	0	1,898	0	1,981	2	1,744	0	1,756	1
Unknown	4	0	0	0	0	0	0	0	0	0
Total	10,381	4	10,994	4	11,091	4	10,711	1	10,530	5

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

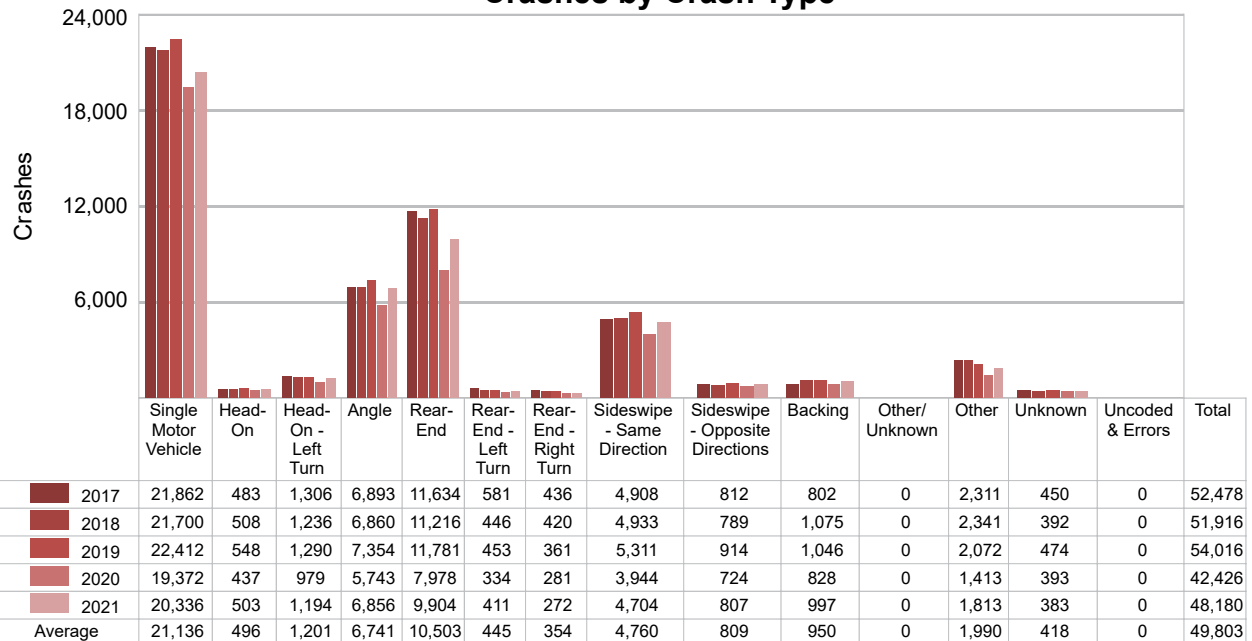


2021 Time and Severity of Deer-Involved Crashes



5-Year Trend - Crashes by Crash Type

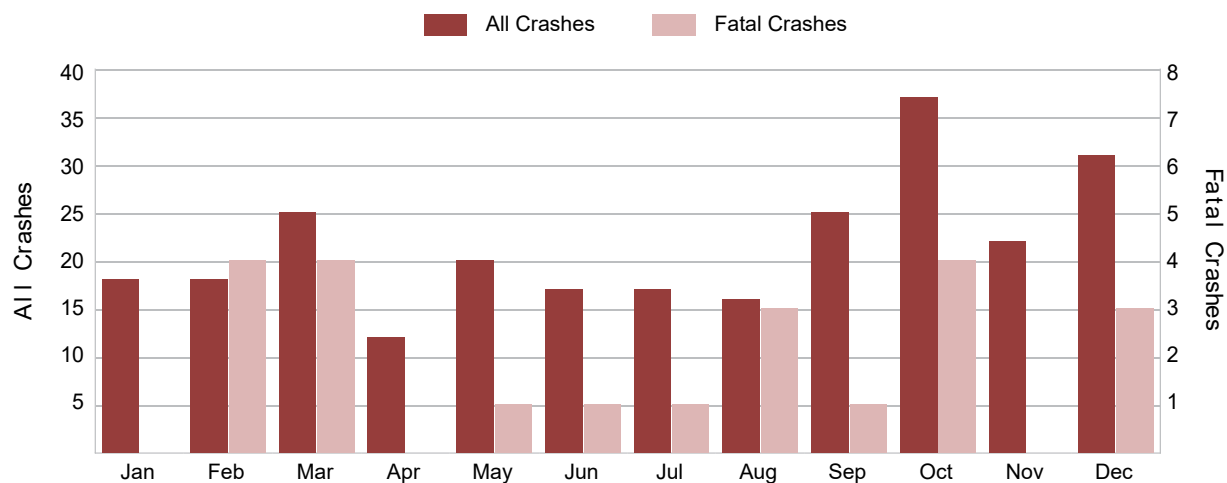
Crash Type	2017		2018		2019		2020		2021	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Single Motor Vehicle	21,862	85	21,700	78	22,412	83	19,372	81	20,336	86
Head-On	483	16	508	19	548	22	437	27	503	17
Head-On - Left Turn	1,306	8	1,236	7	1,290	7	979	12	1,194	9
Angle	6,893	39	6,860	36	7,354	27	5,743	41	6,856	32
Rear-End	11,634	13	11,216	15	11,781	15	7,978	14	9,904	10
Rear-End - Left Turn	581	2	446	3	453	0	334	2	411	1
Rear-End - Right Turn	436	0	420	0	361	0	281	0	272	0
Sideswipe - Same Direction	4,908	5	4,933	1	5,311	1	3,944	1	4,704	4
Sideswipe - Opposite Directions	812	2	789	0	914	3	724	2	807	2
Backing	802	0	1,075	0	1,046	0	828	0	997	0
Other/Unknown	0	0	0	0	0	0	0	0	0	0
Other	2,311	11	2,341	6	2,072	8	1,413	4	1,813	7
Unknown	450	0	392	0	474	0	393	0	383	0
Uncoded & Errors	0	0	0	0	0	0	0	0	0	0
Total	52,478	181	51,916	165	54,016	166	42,426	184	48,180	168

5-Year Trend
Crashes by Crash Type


5-Year Trend - Pedestrian-Involved Crashes by Month

Month	2017		2018		2019		2020		2021	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
January	32	2	23	2	31	0	21	1	18	0
February	37	2	21	1	15	0	23	1	18	4
March	25	4	28	1	12	0	11	0	25	4
April	17	1	18	1	25	1	8	1	12	0
May	18	2	24	3	24	1	9	0	20	1
June	24	2	23	1	26	3	11	1	17	1
July	27	0	24	1	27	1	29	4	17	1
August	28	2	24	2	30	3	36	5	16	3
September	49	1	23	2	27	0	32	4	25	1
October	56	4	31	1	46	5	23	3	37	4
November	25	3	34	1	26	2	27	0	22	0
December	28	2	29	4	42	4	26	1	31	3
Total	366	25	302	20	331	20	256	21	258	22

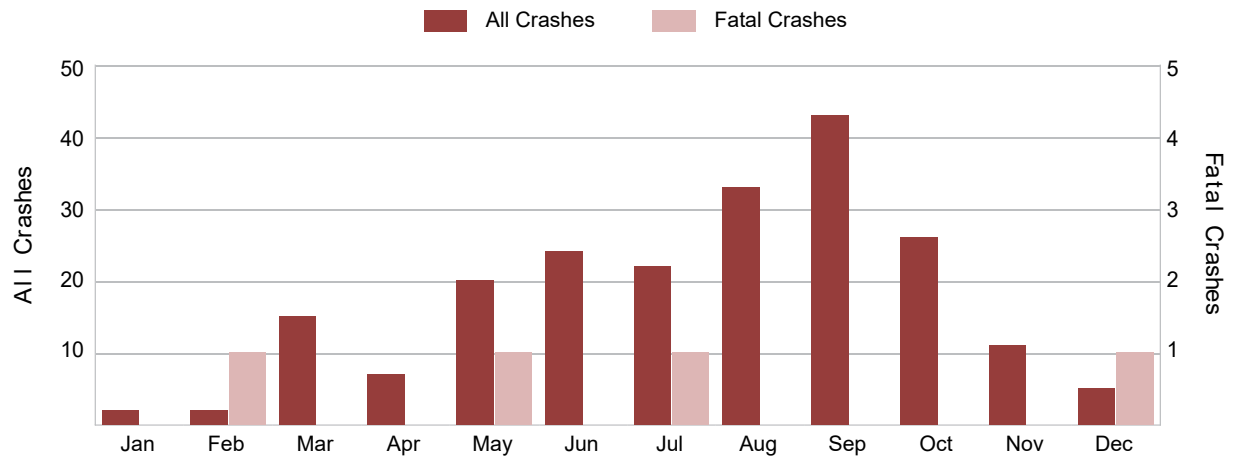
2021 Pedestrian-Involved Crashes by Month



5-Year Trend - Bicyclist-Involved Crashes by Month

Month	2017		2018		2019		2020		2021	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
January	4	0	1	1	5	0	5	0	2	0
February	9	0	3	0	1	0	2	0	2	1
March	8	0	8	0	7	0	6	0	15	0
April	16	0	19	0	10	0	11	1	7	0
May	36	0	22	0	32	1	16	0	20	1
June	53	2	41	1	32	1	30	1	24	0
July	40	1	39	1	48	1	30	0	22	1
August	41	1	44	1	37	2	37	0	33	0
September	48	1	36	1	44	1	23	0	43	0
October	38	0	19	0	19	0	18	1	26	0
November	13	0	10	0	8	0	12	0	11	0
December	9	1	9	0	4	0	6	1	5	1
Total	315	6	251	5	247	6	196	4	210	4

2021 Bicyclist-Involved Crashes by Month



2021 - Reported Motor Vehicle Crashes by County

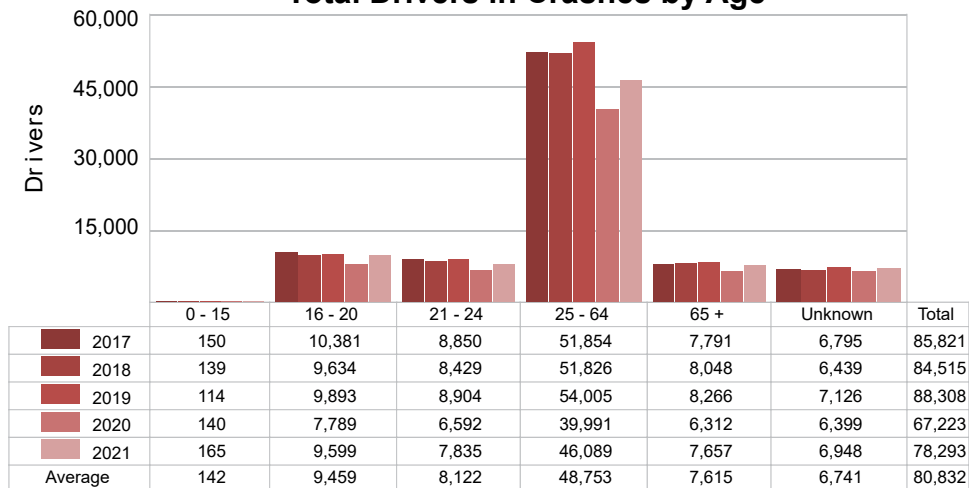
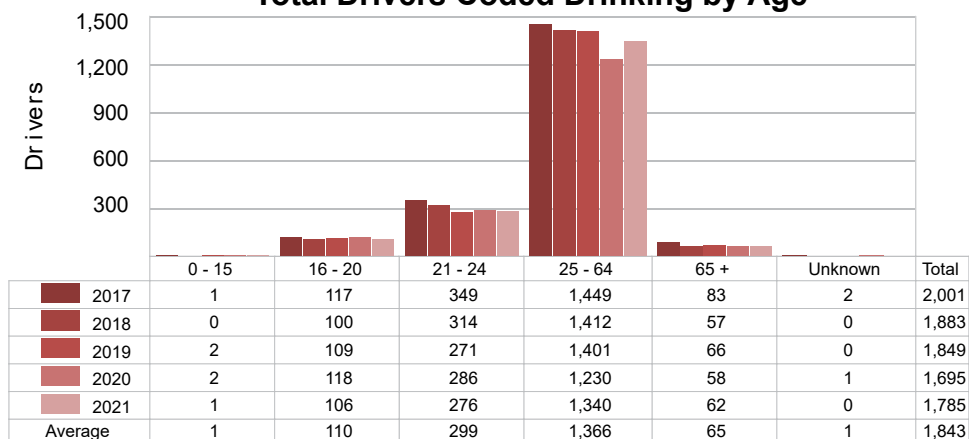
County	Crashes												
	Total	Fatal	Injury	Property Damage	Inter-State	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Pedestrian-Involved	Bicyclist-Involved
Allegan	3,900	14	540	3,346	344	491	699	2,363	154	30	1,288	10	11
Barry	1,525	6	209	1,310	0	0	616	907	59	16	720	5	4
Ionia	1,740	12	270	1,458	364	0	539	836	57	19	533	9	0
Kent	20,091	61	3,944	16,086	1,395	1,520	4,135	13,035	786	195	1,810	166	114
Lake	309	0	37	272	0	86	42	180	9	1	160	0	1
Mason	1,193	4	110	1,079	0	470	21	702	31	18	646	4	2
Mecosta	1,765	5	220	1,540	0	206	704	851	48	9	790	5	5
Montcalm	1,877	13	297	1,567	0	137	683	1,054	66	30	758	7	3
Muskegon	4,673	17	840	3,816	87	794	589	3,189	172	71	663	23	18
Nawaygo	1,460	6	223	1,231	0	0	528	930	68	22	661	2	1
Oceana	957	2	111	844	0	226	102	627	43	11	553	1	2
Osceola	1,039	1	131	907	0	394	134	511	35	6	557	2	1
Ottawa	7,651	27	1,293	6,331	683	872	790	5,299	283	85	1,391	24	48
Total	48,180	168	8,225	39,787	2,873	5,196	9,582	30,484	1,811	513	10,530	258	210

2021 - People in Reported Motor Vehicle Crashes by County

County	People					
	Fatalities	Suspected Serious Injuries	Suspected Minor Injuries	Possible Injuries	No Injuries	Uncoded & Errors
Allegan	14	148	444	655	5,416	206
Barry	6	96	184	179	2,058	46
Ionia	13	84	192	340	2,471	142
Kent	66	917	2,760	6,483	32,692	4,780
Lake	0	12	46	39	443	5
Mason	6	54	78	128	1,531	47
Mecosta	5	68	161	254	2,331	80
Montcalm	13	104	220	371	2,650	87
Muskegon	19	176	694	1,117	7,425	529
Nawaygo	6	94	238	150	1,905	37
Oceana	2	49	98	104	1,175	23
Osceola	1	75	86	114	1,343	31
Ottawa	29	225	904	2,116	12,679	746
Total	180	2,102	6,105	12,050	74,119	6,759

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

Driver Age	2017		2018		2019		2020		2021	
	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	150	1	139	0	114	2	140	2	165	1
16 - 20	10,381	117	9,634	100	9,893	109	7,789	118	9,599	106
21 - 24	8,850	349	8,429	314	8,904	271	6,592	286	7,835	276
25 - 64	51,854	1,449	51,826	1,412	54,005	1,401	39,991	1,230	46,089	1,340
65 +	7,791	83	8,048	57	8,266	66	6,312	58	7,657	62
Unknown	6,795	2	6,439	0	7,126	0	6,399	1	6,948	0
Total	85,821	2,001	84,515	1,883	88,308	1,849	67,223	1,695	78,293	1,785

5-Year Trend
Total Drivers in Crashes by Age

5-Year Trend
Total Drivers Coded Drinking by Age


2021 - 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	1	1	1	1	0	0	0	0	1
16 - 20	162	157	94	106	0	15	38	19	34
21 - 24	350	315	242	276	0	19	93	65	99
25 - 64	1,753	1,441	1,097	1,340	1	82	307	375	575
65 +	120	95	55	62	0	12	22	10	18
Unknown	212	0	0	0	0	0	0	0	0
Total	2,598	2,009	1,489	1,785	1	128	460	469	727

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).

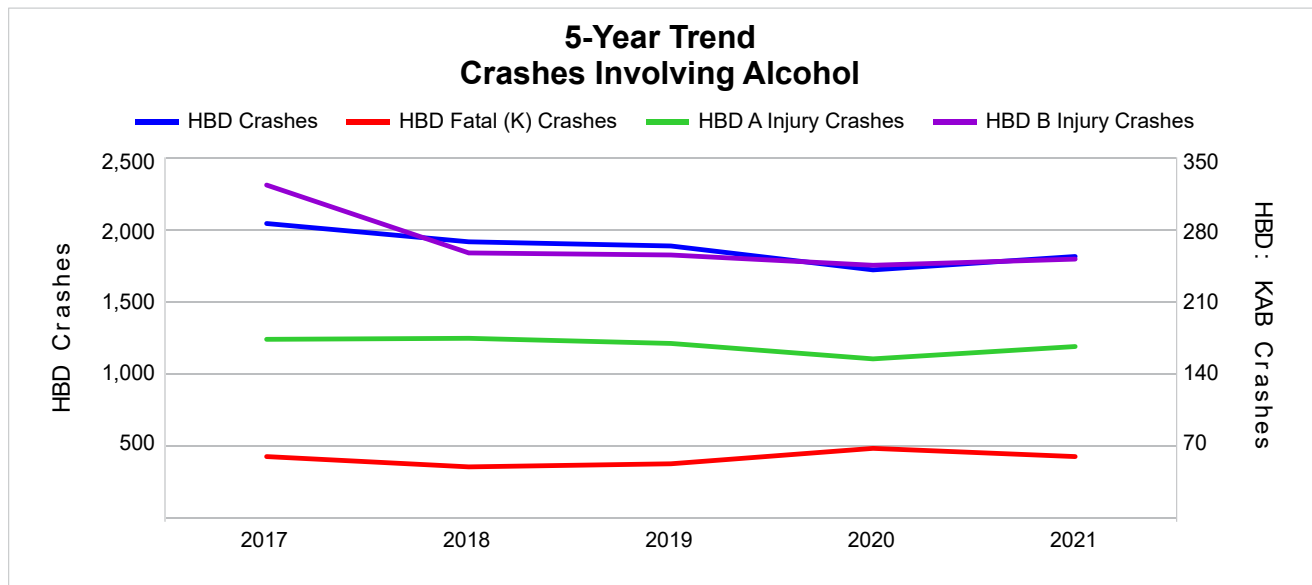
A driver may be coded by the officer as drinking even though no test is administered.

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
2017	52,478	2,040	3.9	181	59	32.6	962	173	18.0	2,465	323	13.1
2018	51,916	1,913	3.7	165	49	29.7	918	174	19.0	2,421	257	10.6
2019	54,016	1,884	3.5	166	52	31.3	882	169	19.2	2,265	255	11.3
2020	42,426	1,718	4.0	184	67	36.4	808	154	19.1	2,116	245	11.6
2021	48,180	1,811	3.8	168	59	35.1	914	166	18.2	2,480 **	251	10.1 *

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.



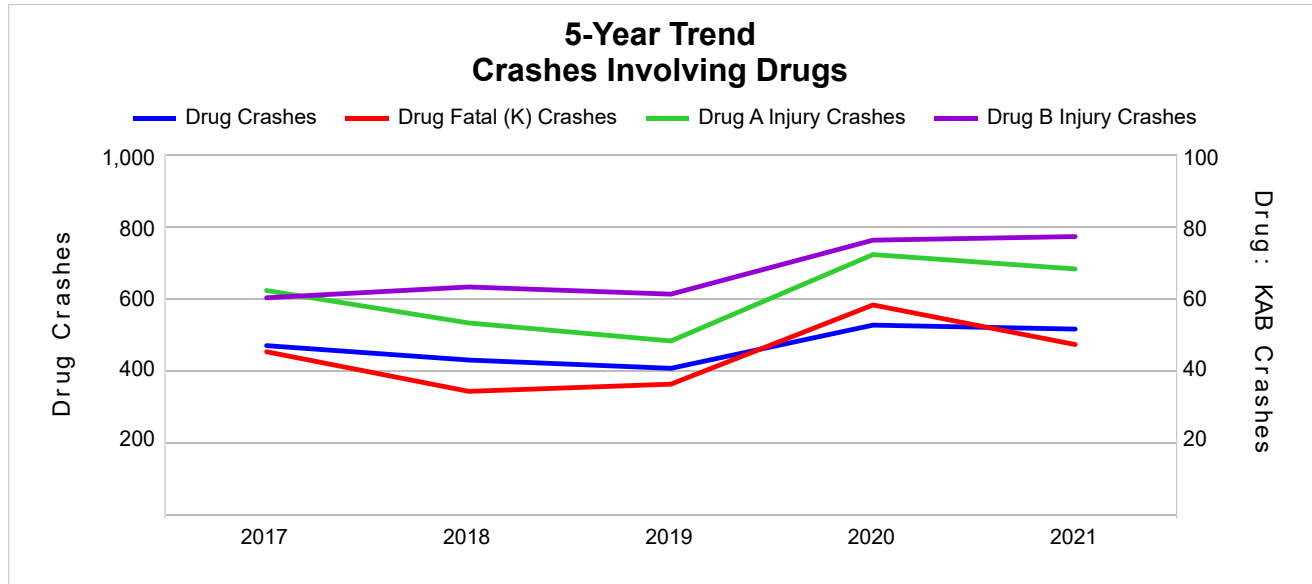
Note: Had-Been-Drinking (HBD)

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
2017	52,478	467	0.9	181	45	24.9	962	62	6.4	2,465	60	2.4
2018	51,916	427	0.8	165	34	20.6	918	53	5.8	2,421	63	2.6
2019	54,016	404	0.7	166	36	21.7	882	48	5.4	2,265	61	2.7
2020	42,426	524	1.2	184	58	31.5	808	72	8.9	2,116	76	3.6
2021	48,180	513	1.1	168	47	28.0	914	68	7.4	2,480**	77**	3.1

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.

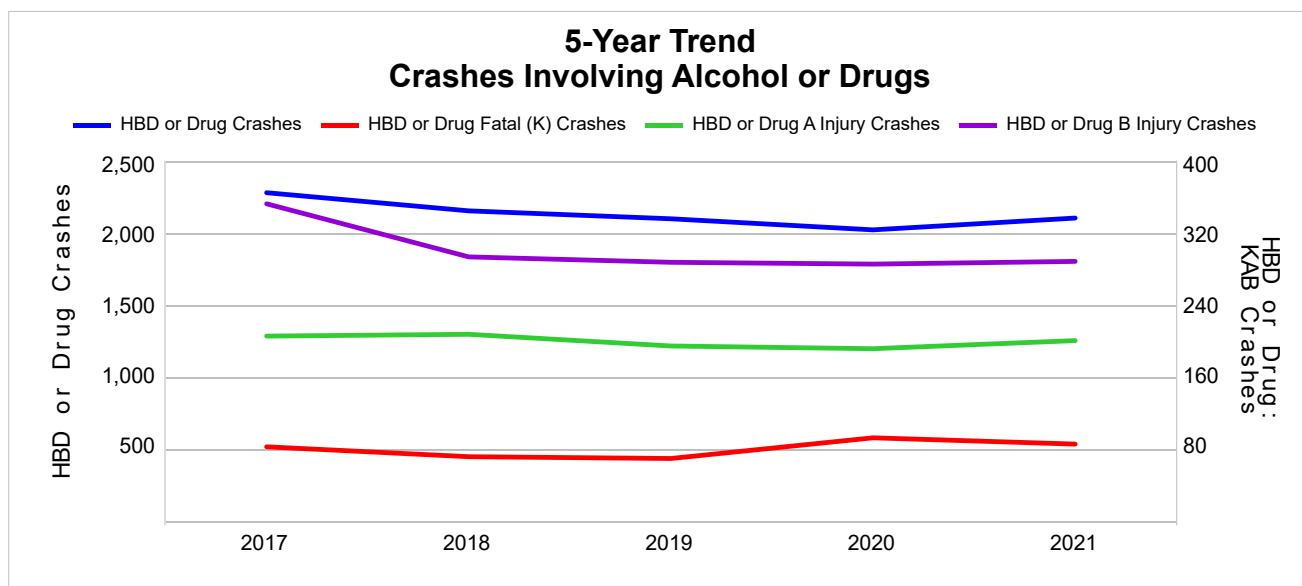


5-Year Trend - Crashes Involving Alcohol or Drugs

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
2017	52,478	2,277	4.3	181	82	45.3	962	205	21.3	2,465	352	14.3
2018	51,916	2,151	4.1	165	71	43.0	918	207	22.5	2,421	293	12.1
2019	54,016	2,096	3.9	166	69	41.6	882	194	22.0	2,265	287	12.7
2020	42,426	2,019	4.8	184	92	50.0	808	191	23.6	2,116	285	13.5
2021	48,180	2,101	4.4	168	85	50.6 **	914	200	21.9	2,480 **	288	11.6 *

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)

2021 - 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	64,926	57,380	88.4	95	53	55.8	687	517	75.3	2,345	2,091	89.2	6,010	5,647	94.0	51,805	49,072	94.7
Motor Home	207	181	87.4	0	0	0.0	1	1	100.0	9	6	66.7	17	17	100.0	167	157	94.0
Pickup Truck	9,816	8,757	89.2	22	10	45.5	136	73	53.7	313	275	87.9	527	497	94.3	8,285	7,902	95.4
Small Truck Under 10,000 lbs. GVWR	342	291	85.1	0	0	0.0	1	1	100.0	7	6	85.7	23	21	91.3	283	263	92.9
Motorcycle	628	358	57.0	30	13	43.3	149	83	55.7	211	123	58.3	84	55	65.5	130	84	64.6
Moped/Goped	96	38	39.6	0	0	0.0	18	3	16.7	33	14	42.4	25	12	48.0	17	9	52.9
Go-Cart/Golf Cart	7	0	0.0	0	0	0.0	1	0	0.0	3	0	0.0	0	0	0.0	3	0	0.0
Snowmobile	9	5	55.6	1	0	0.0	1	1	100.0	0	0	0.0	1	1	100.0	5	3	60.0
Off-Road Vehicle (ORV)/All-Terrain Vehicle (ATV)	63	17	27.0	0	0	0.0	18	4	22.2	15	2	13.3	9	1	11.1	19	10	52.6
Other (non-registered farm equipment, construction equipment, snow plows, etc.)	300	154	51.3	4	0	0.0	6	1	16.7	8	5	62.5	15	5	33.3	214	143	66.8
Truck/Bus (over 10,000 lbs. GVWR/8+ occupants/hazmat placard)	2,457	2,273	92.5	2	0	0.0	11	9	81.8	33	29	87.9	84	66	78.6	2,246	2,169	96.6
Uncoded & Errors	2,066	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	41	0	0.0
Total	80,917	69,454	85.8	154	76	49.4	1,029	693	67.3	2,977	2,551	85.7	6,795	6,322	93.0	63,215	59,812	94.6

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.

2021 - 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	870	743	85.4	2	0	0.0	53	27	50.9	202	168	83.2	488	450	92.2	124	98	79.0
16 - 20	10,053	9,513	94.6	18	6	33.3	145	88	60.7	460	401	87.2	949	880	92.7	8,470	8,138	96.1
21 - 24	8,047	7,565	94.0	13	11	84.6	90	56	62.2	333	280	84.1	709	657	92.7	6,878	6,561	95.4
25 - 64	47,074	44,062	93.6	90	35	38.9	611	409	66.9	1,622	1,373	84.6	3,879	3,604	92.9	40,720	38,641	94.9
65 +	7,924	7,567	95.5	31	24	77.4	129	113	87.6	360	329	91.4	764	730	95.5	6,629	6,371	96.1
Unknown	6,949	4	0.1	0	0	0.0	1	0	0.0	0	0	0.0	6	1	16.7	394	3	0.8
Total	80,917	69,454	85.8	154	76	49.4	1,029	693	67.3	2,977	2,551	85.7	6,795	6,322	93.0	63,215	59,812	94.6

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	2017			2018			2019			2020			2021		
	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	132	0	20	155	0	23	149	2	20	138	0	24	168	3	32
Shoulder Belt Only Used	370	0	54	333	0	45	403	1	45	342	0	44	326	0	43
Lap Belt Only Used	276	0	37	198	0	32	173	0	14	118	0	8	107	0	13
Both Lap & Shoulder Belt Used	74,411	67	7,357	73,890	60	7,460	76,767	59	7,055	56,908	62	5,667	66,359	49	6,992
No Belts Used	503	26	188	416	22	187	407	23	182	373	34	192	453	33	231
Child Restraint Used - Forward Facing	4	0	0	2	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
Child Restraint Used - Rear Facing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Child Restraint Used - Booster Seat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Restraint Failure	39	0	8	35	0	3	28	0	4	20	0	4	17	0	0
Restraint Use Unknown	9,269	13	254	8,800	8	271	9,724	11	259	8,632	12	294	10,186	13	401
Helmet Worn	395	16	269	385	19	282	375	8	260	385	16	283	381	12	269
Helmet Not Worn	221	14	167	196	8	152	215	19	161	269	10	218	260	14	204
Helmet Use Unknown	34	0	17	25	0	18	29	0	18	32	4	19	33	3	19
Uncoded & Errors	167	0	0	80	0	0	38	0	0	6	0	0	3	0	0
Total	85,821	136	8,371	84,515	117	8,473	88,308	123	8,018	67,223	138	6,753	78,293	127	8,204

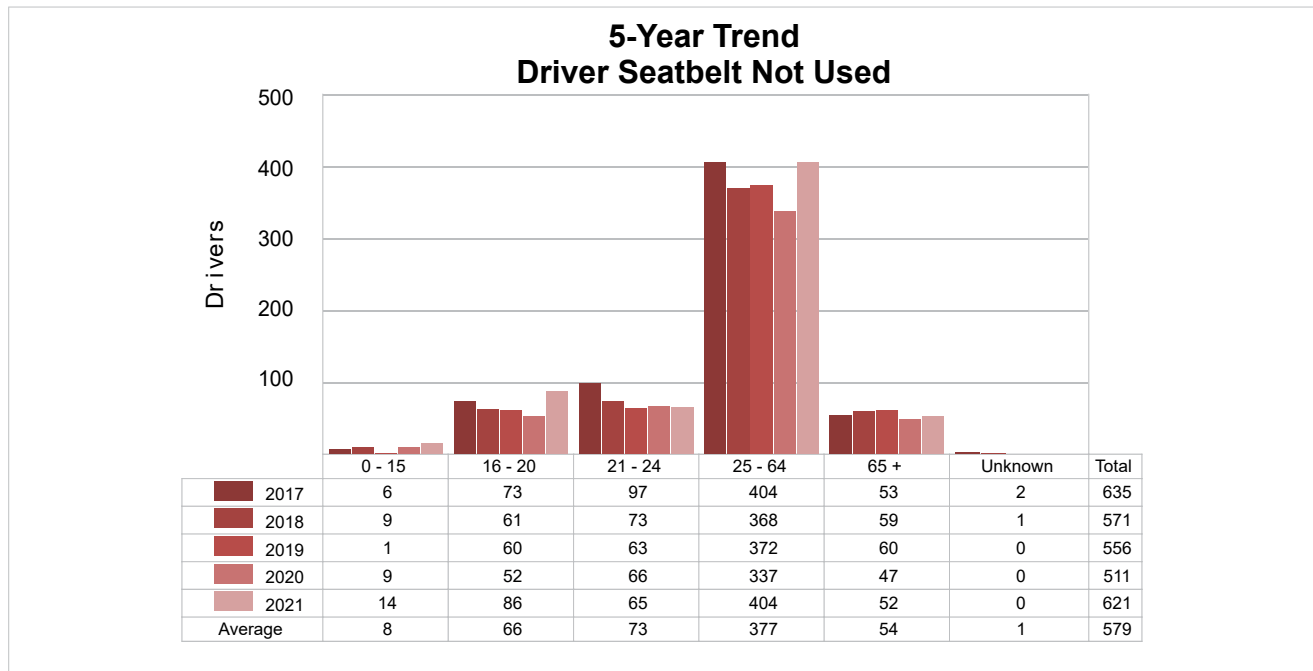
5-Year Trend - Restraint Use Among Drivers Coded Drinking

Restraint Use	2017			2018			2019			2020			2021		
	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	10	0	7	2	0	0	2	0	1	6	0	3	7	0	7
Shoulder Belt Only Used	9	0	7	5	0	1	7	0	1	7	0	1	10	0	4
Lap Belt Only Used	5	0	0	2	0	1	1	0	1	2	0	0	4	0	2
Both Lap & Shoulder Belt Used	1,447	12	385	1,382	10	368	1,324	9	309	1,141	9	303	1,268	9	338
No Belts Used	104	16	62	74	10	49	79	10	56	99	14	67	105	17	64
Child Restraint Used - Forward Facing	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
Child Restraint Used - Rear Facing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Child Restraint Used - Booster Seat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Restraint Failure	1	0	0	4	0	1	2	0	0	2	0	0	1	0	0
Restraint Use Unknown	359	4	77	358	2	88	362	7	84	372	7	112	327	4	102
Helmet Worn	19	3	13	23	3	15	18	1	15	19	2	13	23	1	18
Helmet Not Worn	45	5	37	29	2	26	47	8	36	42	3	30	36	5	25
Helmet Use Unknown	2	0	2	3	0	3	7	0	4	5	2	1	4	0	3
Uncoded & Errors	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Total	2,001	40	590	1,883	27	552	1,849	35	507	1,695	37	530	1,785	36	563

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

Age Group	2017			2018			2019			2020			2021		
	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	6	0	2	9	0	1	1	0	0	9	0	1	14	0	6
16 - 20	73	3	31	61	1	34	60	0	23	52	2	28	86	5	41
21 - 24	97	5	37	73	3	28	63	2	29	66	2	37	65	0	34
25 - 64	404	16	123	368	16	135	372	18	126	337	25	137	404	27	165
65 +	53	2	15	59	2	12	60	5	24	47	5	13	52	4	17
Unknown	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Total	635	26	208	571	22	210	556	25	202	511	34	216	621	36	263

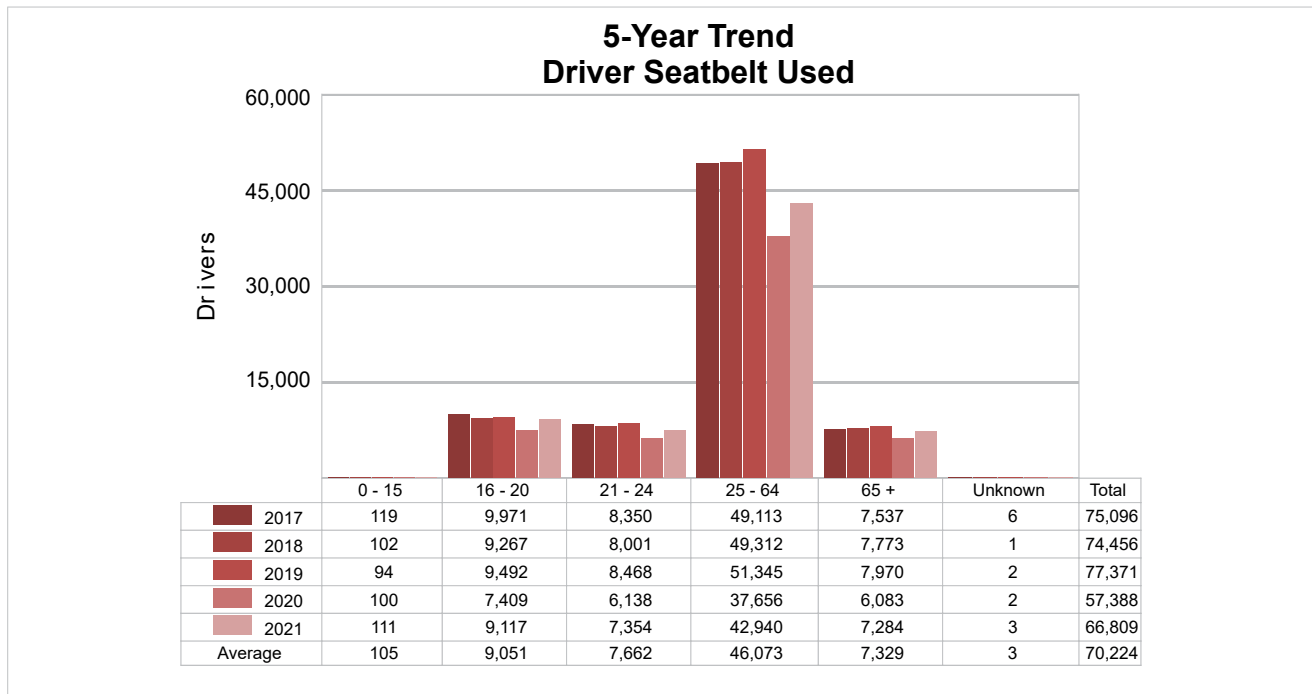
Note: Seatbelt Not Used includes no belts available or no belts used.



5-Year Trend - Seatbelt Used Among Drivers by Age

Age Group	2017			2018			2019			2020			2021		
	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	119	0	15	102	0	6	94	0	11	100	0	15	111	0	15
16 - 20	9,971	9	1,054	9,267	3	928	9,492	7	872	7,409	2	780	9,117	6	978
21 - 24	8,350	4	761	8,001	8	802	8,468	3	755	6,138	9	577	7,354	6	798
25 - 64	49,113	32	4,754	49,312	37	4,881	51,345	31	4,614	37,656	38	3,605	42,940	22	4,347
65 +	7,537	22	872	7,773	12	923	7,970	19	866	6,083	13	746	7,284	15	910
Unknown	6	0	0	1	0	0	2	0	0	2	0	0	3	0	0
Total	75,096	67	7,456	74,456	60	7,540	77,371	60	7,118	57,388	62	5,723	66,809	49	7,048

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



5-Year Trend - Drivers in Crashes by Hazardous Action

Hazardous Action	2017		2018		2019		2020		2021	
	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	45,184	138	44,785	116	46,693	106	36,918	138	42,138	116
Speed Too Fast	6,711	30	6,418	31	7,379	39	4,356	33	5,283	24
Speed Too Slow	55	2	56	0	53	1	25	0	29	0
Failed to Yield	7,360	24	7,495	24	7,759	26	5,753	20	7,089	18
Disregard Traffic Control	1,643	18	1,662	9	1,658	10	1,543	19	1,743	15
Drove Wrong Way	54	3	40	0	38	0	40	1	45	0
Drove Left of Center	392	12	367	6	426	16	353	13	427	10
Improper Passing	477	1	450	1	432	0	391	2	447	3
Improper Lane Use	1,823	3	1,986	2	2,036	0	1,597	4	2,040	3
Improper Turn	758	1	749	0	827	0	692	3	758	2
Improper/No Signal	86	0	78	0	66	0	48	0	65	0
Improper Backing	1,238	0	1,130	0	1,119	0	829	0	908	0
Unable to Stop in Assured Clear Distance	11,080	15	10,621	12	11,186	11	7,430	9	9,172	7
Other	2,844	8	2,655	9	2,784	11	2,117	12	2,357	11
Unknown	3,363	16	3,467	35	3,568	23	3,053	26	3,556	28
Reckless Driving	420	12	357	10	357	6	436	15	438	13
Careless/Negligent Driving	2,048	12	2,145	12	1,896	15	1,641	18	1,798	20
Uncoded & Errors	285	1	54	1	31	1	1	0	0	0
Total	85,821	296	84,515	268	88,308	265	67,223	313	78,293	270

Office of Highway Safety Planning

Physical Address:
7150 Harris Drive
Dimondale, Michigan 48821

Mailing Address:
P.O. Box 30634
Lansing, Michigan 48909

Find us on the web:
MichiganTrafficCrashFacts.org
mtcf-info@umich.edu

