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2022

Statewide Traffic Crash Data Year End Report



This 2022 annual report contains statewide traffic crash statistics compiled by the Michigan State Police, Criminal Justice Information Center.

Section 1 Introduction

Section 2 Statewide Crash Totals

Section 3 Reports by Crash Indicators

Section 4 Additional Crash Publications

Section 5 Appendices

The Traffic Crash Reporting System	Page 3
Traffic Crash Reporting Flowchart	Page 4
Statewide Crash Summary	Page 5
Crash Totals for Month and Day of Week	Page 6
Crash Totals for Time of Day	Page 7
Zero Traffic Fatality Days for Michigan in 2022	Page 7
Traffic Crash Fatality and Injury Statistics	Page 8
Crash Type	Page 10
Hazardous Action	Page 11
Trafficway	Page 12
Roadway Surface Condition	Page 12
Vehicle Type	Page 13
Crash Statistics by County	Page 14
2022 Alcohol Involved Crashes	Page 17
2022 Drug Involved Crashes	Page 21
2022 Distracted Driver Involved Crashes	Page 25
2022 Bicycle Involved Crashes	Page 30
2022 Pedestrian Involved Crashes	Page 34
2022 Motorcycle Involved Crashes	Page 38
2022 Off Road Vehicle (ORV) Involved Crashes	Page 42
2022 Snowmobile Involved Crashes	Page 46
2022 Deer Involved Crashes	Page 49
2022 Truck / Bus Involved Crashes	Page 53
2022 School Bus Involved Crashes	Page 57
2022 Train Involved Crashes	Page 60
2022 Work Zone Involved Crashes	Page 62
2022 Police-Ambulance-Fire Involved Crashes	Page 65
2022 Fleeing Police Involved Crashes	Page 69
2022 Farm Equipment Involved Crashes	Page 72
Michigan Traffic Crash Decade – At – A – Glance	Page 75
Michigan Holiday Traffic Crash Fatalities	Page 77
UD-10 Traffic Crash Report Images	Page 85
UD-10 Traffic Crash Report User Guide	Page 87
Fatality Analysis Reporting System (FARS)	Page 91
Injury Code Index	Page 93
The Michigan Motor Vehicle Code	Page 94
Glossary	Page 97



Section 1: The Traffic Crash Reporting System (TCRS)

Traffic Crash Reporting – Collection of Crash Data

The Traffic Crash Reporting Unit (TCRU) is responsible for the complete, accurate, and timely collection, processing, and compilations of statewide traffic crash data. The TCRU maintains the TCRS database that serves as the central repository for all traffic crash data for the State of Michigan as well as the Michigan Crash Analysis Tool (Mi-CAT). By law, all law enforcement agencies are required to submit qualifying crash reports to the Michigan State Police (MSP).

The crash program has been in existence since Public Act 300 of 1949. All law enforcement agencies in Michigan submit crash data to the MSP Criminal Justice Information Center (CJIC) utilizing the State of Michigan Traffic Crash Report (UD-10) format.

The TCRU receives and processes approximately 315,000 crashes annually. The data collected from the crash reports is used extensively by federal, state, and local traffic safety partners to identify traffic safety problems and support the state's efforts to reduce crashes, fatalities, and injuries. Traffic crash data is geo located using the Traffic Crash Mapping System (TCMS) and is supplied to the Michigan Department of Transportation (MDOT) for analysis of high crash locations. The Michigan Department of Natural Resources (MDNR) also receives data for analysis of snowmobile, off-road vehicle (ORV), and car/deer crashes.

Traffic crash reports are processed and sent to the Michigan Department of State (MDOS) to be applied to individual driving records. Fatal records are maintained on both the state system and the federal Fatality Analysis Reporting System (FARS) which is supported by the National Highway Traffic Safety Administration (NHTSA).

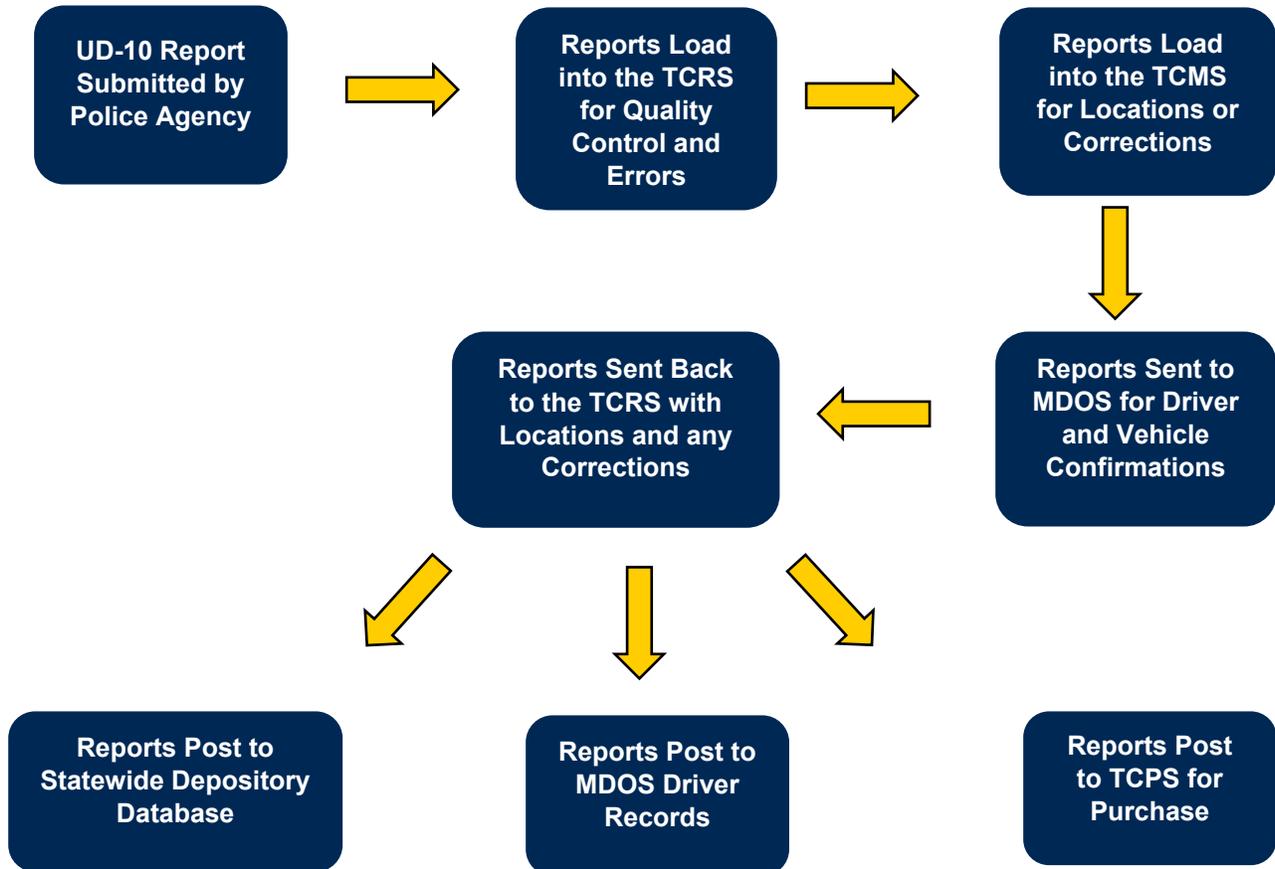
The UD-10 is used to report all traffic related motor vehicle crashes. The criteria for a reportable traffic crash involves a motor vehicle that was in transport and on the roadway, which resulted in death, injury, or property damage of \$1,000, or more. The UD-10 is also used to record any crash involving a snowmobile or ORV, whether traffic or non-traffic related. The property damage criteria for a snowmobile or ORV crash is \$100 or more.

Exclusions include deliberate intent (i.e., self-inflicted injury, road rage, insurance fraud) or legal intervention (i.e., pit-maneuver, deliberate acts engaged by law enforcement).

Individual UD-10s can be accessed by involved parties and their representatives through the Traffic Crash Purchasing System (TCPS) website. Specific search criteria are required to purchase a copy of a UD-10.

Each year, the TCRS database is "frozen" on a specific date to allow for publishing of the annual traffic crash statistics. This frozen dataset was created on April 24, 2023, for the 2022 annual report. Questions regarding this report can be directed to the TCRU at CrashTCRS@michigan.gov.

Section 1: UD-10 Reporting Flow Chart



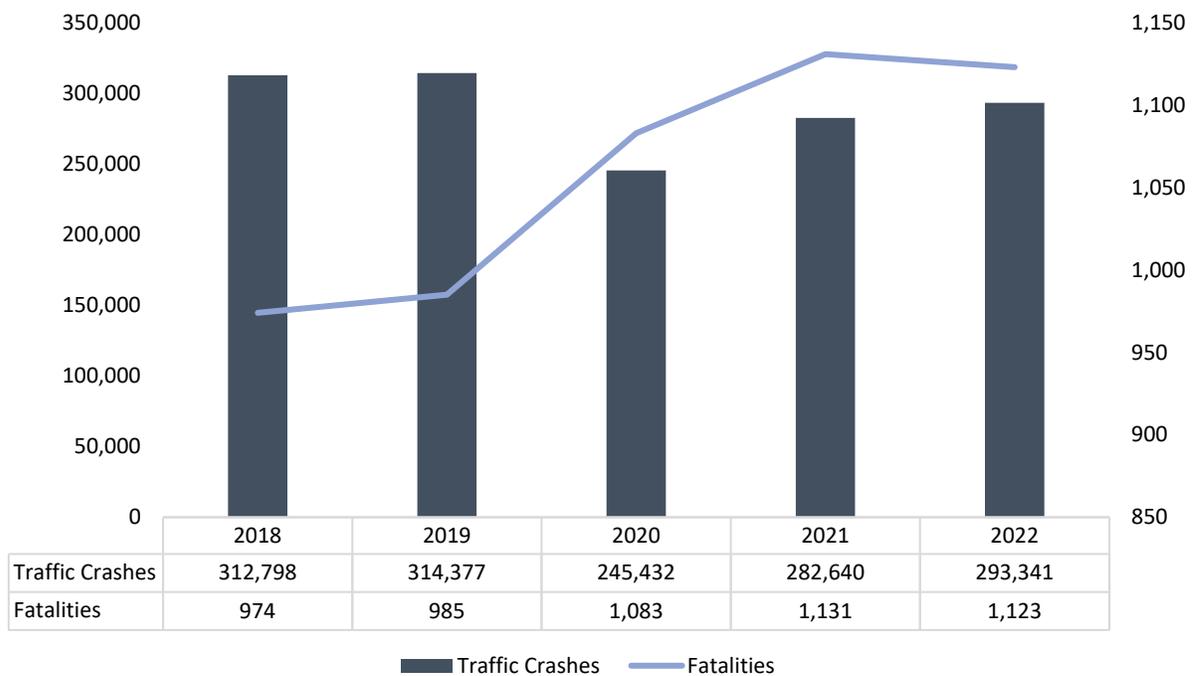
Section 2: Statewide Crash Summary

2022 Summary:

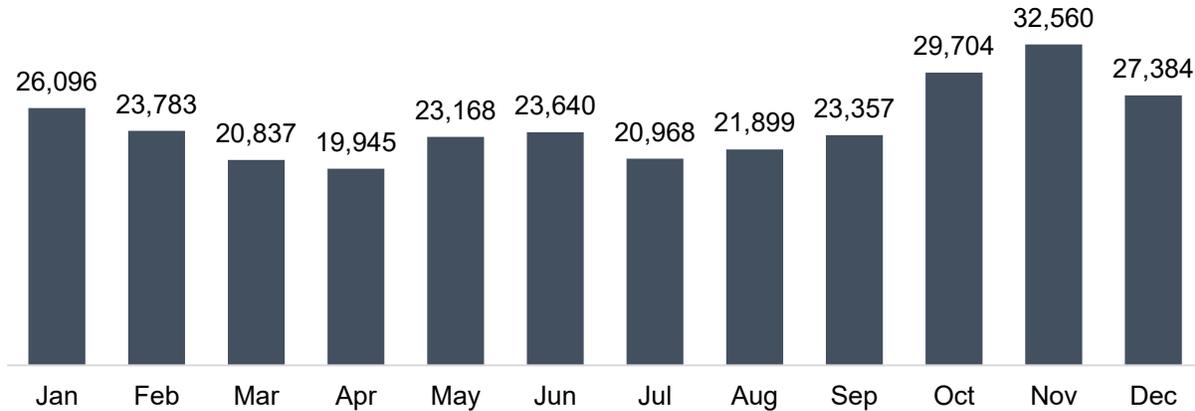
- Traffic crashes increased four percent from 282,640 in 2021, to 293,341 in 2022 in Michigan.
- Fatalities decreased one percent from 1,131 in 2021, to 1,123 in 2022.
- Injury crashes decreased one percent from 51,666 in 2021, to 51,066 in 2022.
- The majority of traffic crashes occurred in November with 32,560 crashes.
- June had the largest number of fatal crashes with 114 reported crashes.
- The majority of traffic crashes occurred on Fridays with 50,097 crashes.
- Saturdays had the largest number of fatalities reported.
- Most of the traffic crashes occurred between 3 p.m. - 5:59 p.m.

Michigan Traffic Crash Statistics for 2018-2022

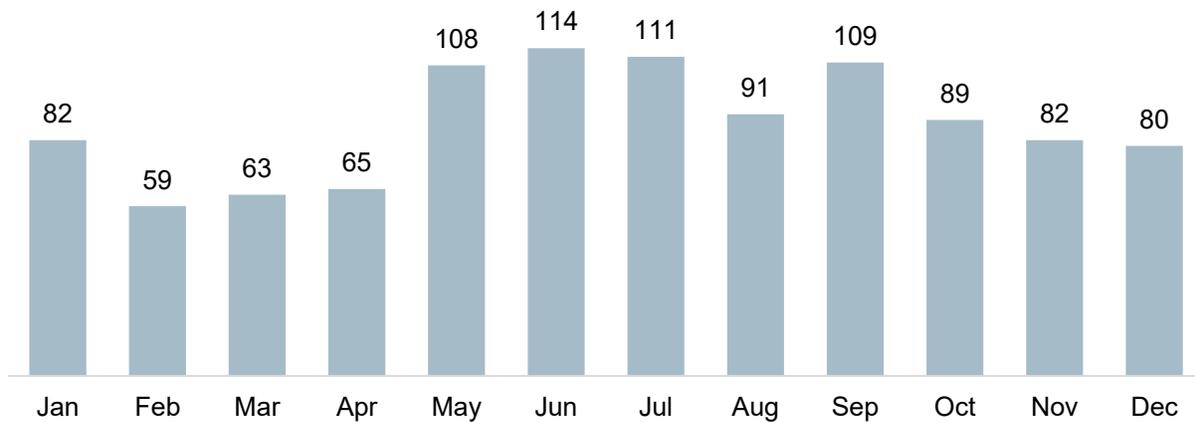
	2018	2019	2020	2021	2022
Total Crashes	312,798	314,377	245,432	282,640	293,341
Total Fatal Crashes	905	902	1,010	1,068	1,053
Total Fatalities	974	985	1,083	1,131	1,123
Total Injury Crashes	55,340	54,539	44,417	51,666	51,066
Total Injuries	75,838	74,963	60,986	71,246	70,281
Total Property Damage Crashes	256,553	258,936	200,005	229,906	241,222



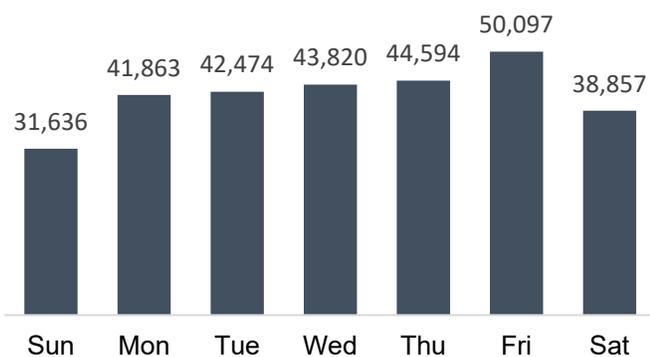
Traffic Crashes by Month



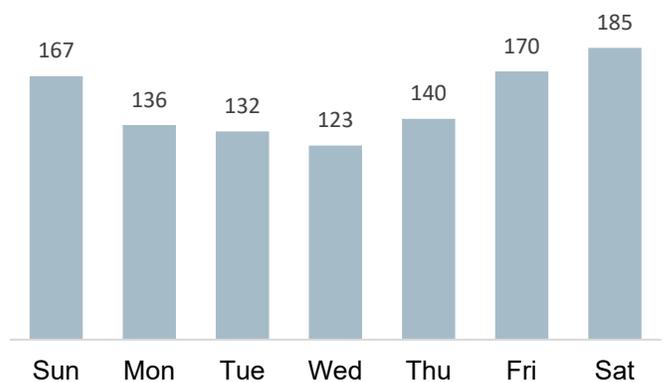
Fatal Traffic Crashes by Month



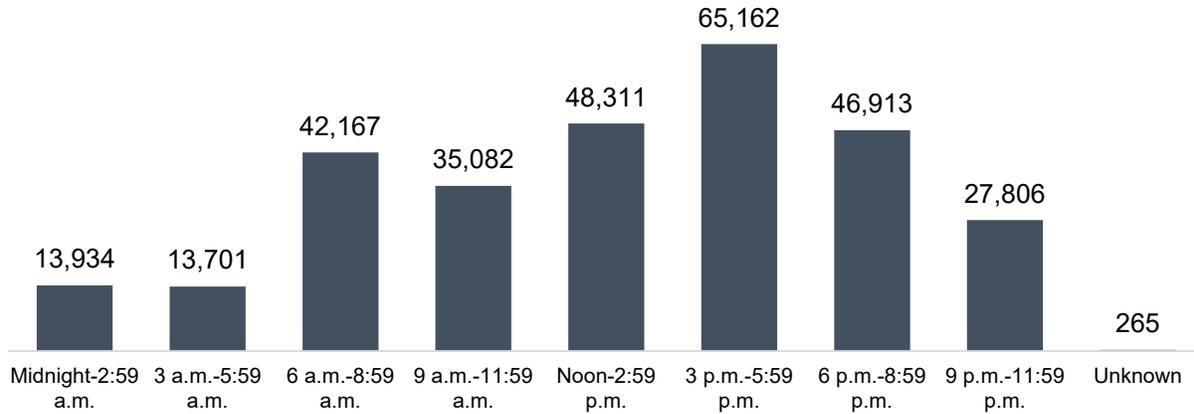
Traffic Crashes by Day of Week



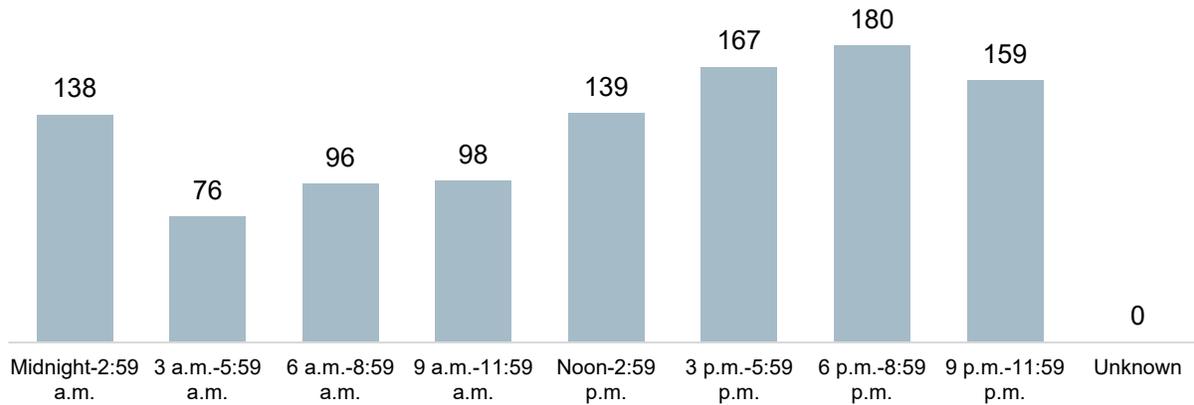
Fatal Traffic Crashes by Day of Week



Crashes by Time of Day



Fatal Crashes by Time of Day



Zero Traffic Fatality Days for Michigan in 2022				
January 2 nd	January 19 th	February 14 th	February 18 th	February 21 st
February 28 th	March 5 th	March 7 th	March 9 th	April 3 rd
April 21 st	April 29 th	May 24 th	July 18 th	August 1 st
August 18 th	August 23 rd	September 18 th	October 6 th	October 12 th
November 7 th	November 20 th	December 14 th		

Traffic Crash Fatality and Injury Statistics

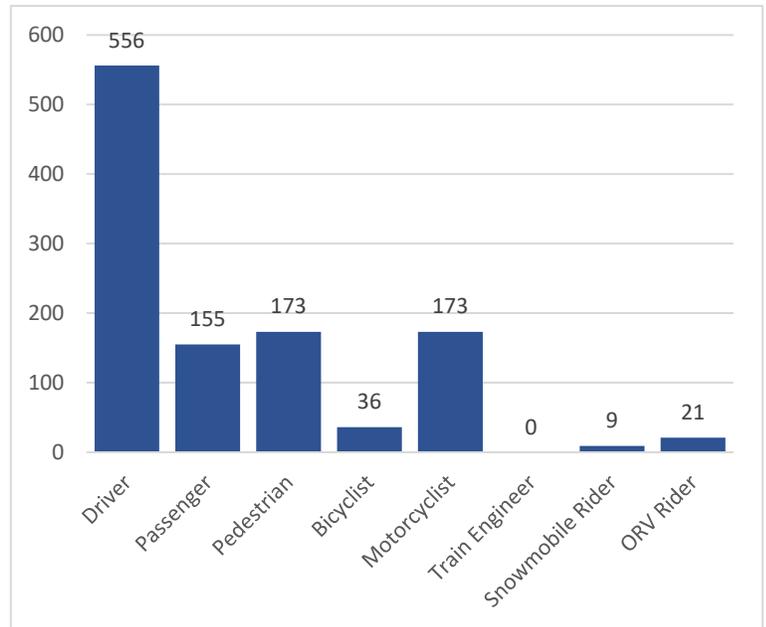
2022 Fatality Summary:

- 1,123 traffic crash fatalities were reported in Michigan.
- 72.66 percent were male and 27.34 percent were female.
- 16.30 percent of fatalities were in age group 25-34.
- 49.51 percent of fatalities were reported as the driver.

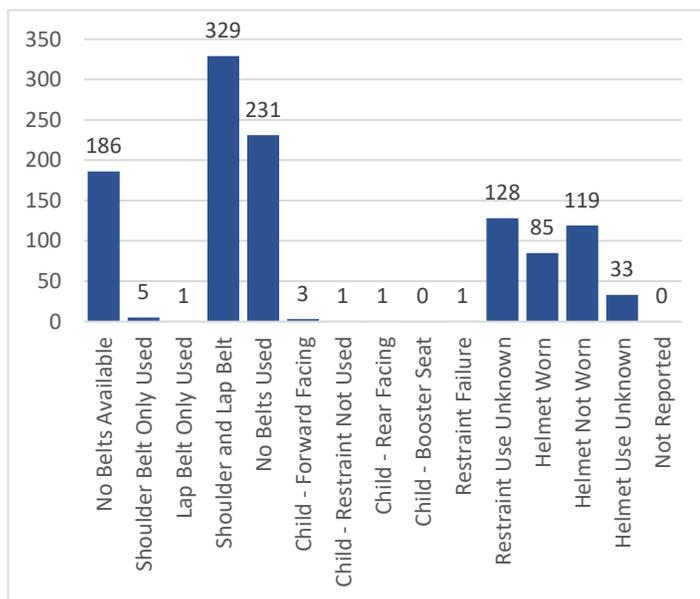
Fatalities by Age and Gender

Age Range	Total	Male	Female	Non-Binary
< 1	1	1	0	0
1-3	4	3	1	0
4-10	10	7	3	0
11-15	15	10	5	0
16-20	70	52	18	0
21-24	79	54	25	0
25-34	183	130	53	0
35-44	174	133	41	0
45-54	169	123	46	0
55-64	172	133	39	0
65-74	133	95	38	0
75-84	84	62	22	0
85-94	27	13	14	0
> 95	2	0	2	0
Not Reported	0	0	0	0
Total:	1,123	816	307	0
Percentage:		72.66%	27.34%	0.00%

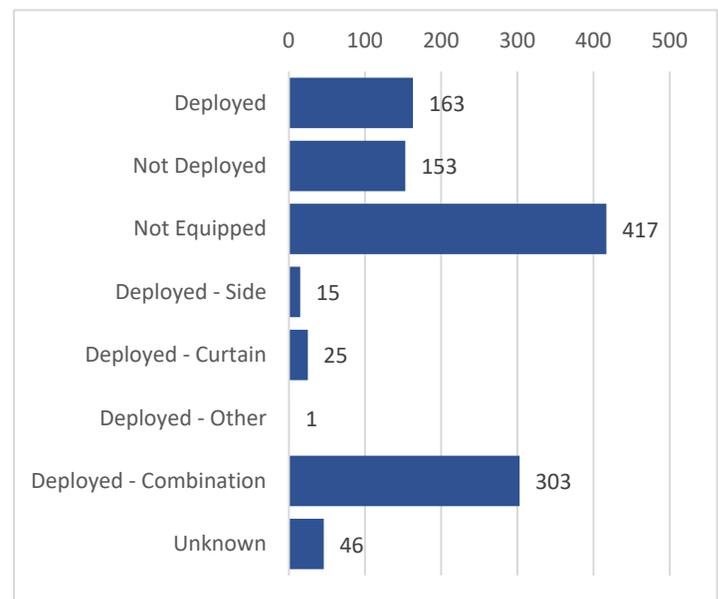
Fatalities by Party Type



Fatality Restraint Use



Fatality Airbag Information



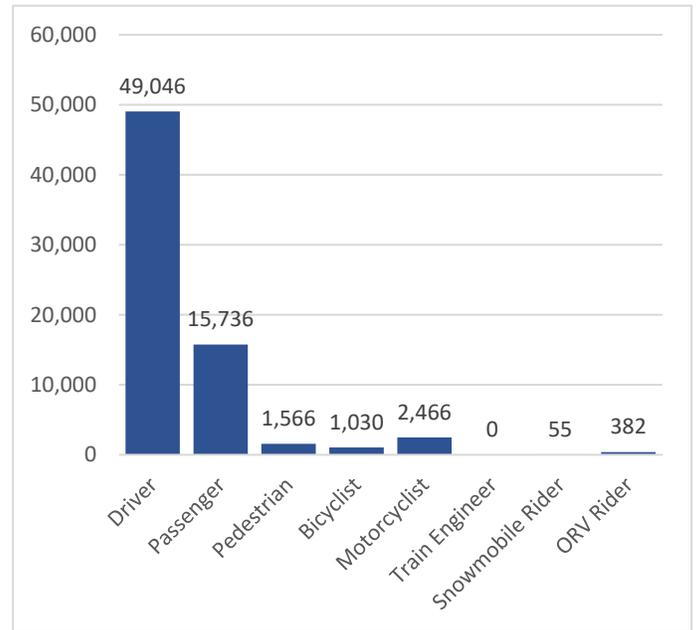
2022 Injury Summary:

- 70,281 traffic crash injuries were reported in Michigan.
- 48.55 percent were male, 51.38 percent were female, and 0.01 percent were non-binary.
- 20.54 percent of injuries were in age group 25-34.
- 69.79 percent of injuries were reported as the driver.

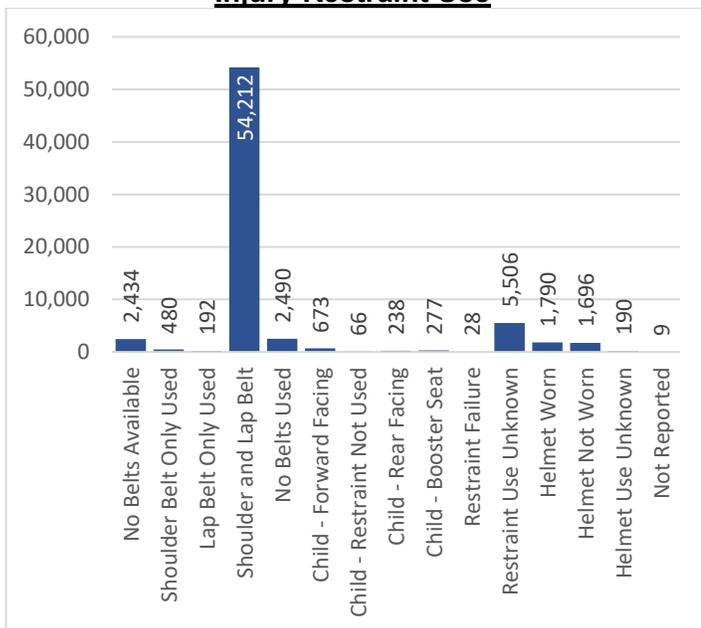
Injuries by Age and Gender

Age Range	Total	Male	Female	Non-Binary	Unknown
< 1	190	94	96	0	0
1-3	563	273	289	0	1
4-10	1,938	935	1,001	0	2
11-15	2,056	958	1,095	0	3
16-20	7,946	3,827	4,114	1	4
21-24	6,575	3,203	3,371	0	1
25-34	14,438	7,200	7,230	3	5
35-44	10,402	5,063	5,334	0	5
45-54	8,946	4,338	4,604	0	4
55-64	8,406	4,160	4,243	0	3
65-74	5,473	2,524	2,949	0	0
75-84	2,658	1,220	1,436	0	2
85-94	626	302	324	0	0
> 95	31	13	18	0	0
Not Reported	33	10	9	0	14
Total:	70,281	34,120	36,113	4	44
Percentage:		48.55%	51.38%	0.01%	0.06%

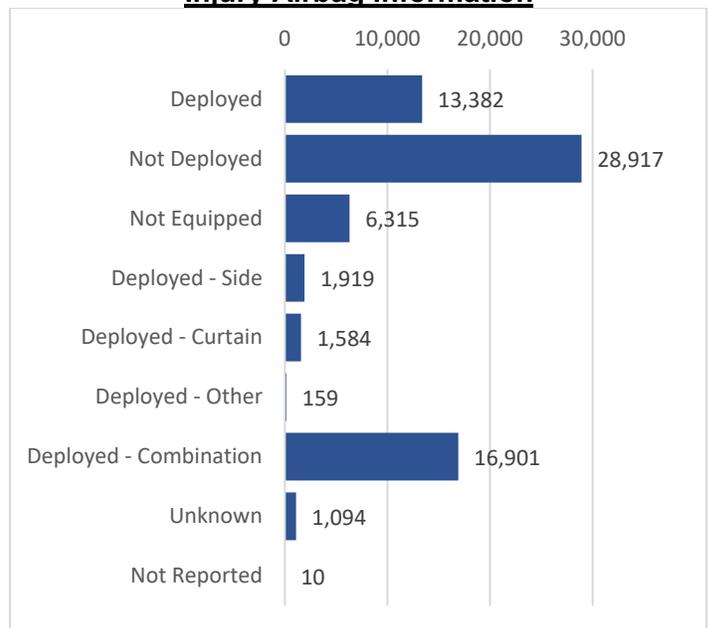
Injuries by Party Type



Injury Restraint Use



Injury Airbag Information

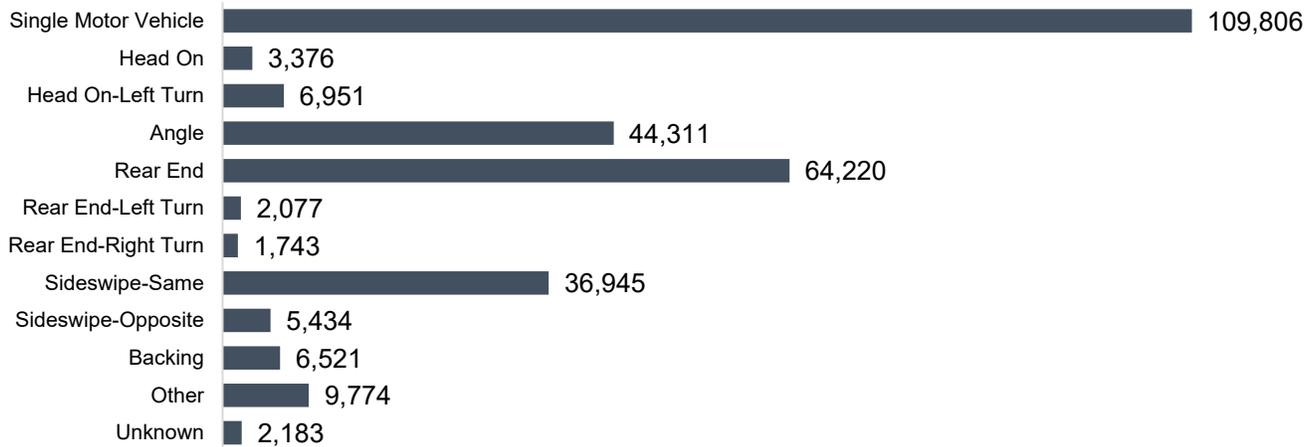


Crash Type

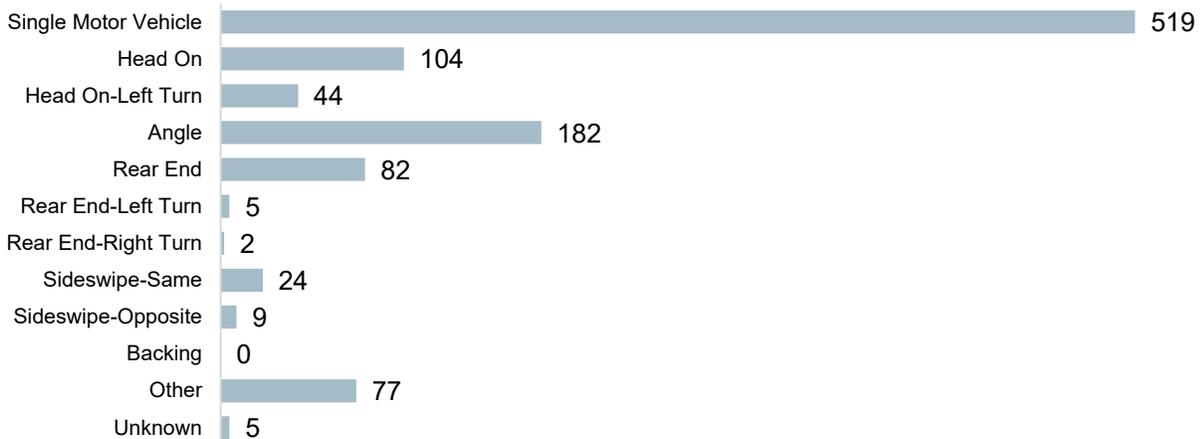
Description: The Crash Type describes how the vehicles involved in the crash contacted the other unit(s). For multiple impact crashes, only the first Crash Type is recorded.

Note: Crash Type is based on the direction of travel prior to impact, regardless of the point(s) of impact or direction the vehicles ultimately face after the crash. Damaged area on the vehicle alone does not determine the Crash Type.

Traffic Crashes by Crash Type



Fatal Traffic Crashes by Crash Type



Hazardous Action

Description: The Hazardous Action field indicates if, in the investigating officer's opinion, a person is "at fault" in any way, i.e., did the person's actions contribute to the crash? The officer is instructed to choose the most significant Hazardous Action that applies. If a Hazardous Action does not exist, NONE can be selected. Crashes involving more than one driver can result in multiple Hazardous Actions reported. The totals listed below are counting reported Hazardous Actions for the drivers and not total crashes.

Note: Since Hazardous Action and Citation Issued are completely independent of each other, an entry can be made for Hazardous Action even if no tickets were issued or no physical arrest was made. Citation Issued is used to record what tickets were issued to the driver and Hazardous Action is used to record the driver's actions that contributed to or caused the crash.

Hazardous Action Reported for Traffic Crashes

Hazardous Action	Total
None	253,381
Speed Too Fast	26,996
Speed Too Slow	118
Failed to Yield	44,481
Disregard Traffic Control	10,500
Drove Wrong Way	407
Drove Left of Center	2,372
Improper Passing	3,228
Improper Lane Use	13,645
Improper Turn	5,492
Improper / No Signal	504
Improper Backing	6,176
Unable to Stop	58,940
Other	14,587
Unknown	29,721
Reckless Driving	2,491
Careless Driving	11,156
Not Reported	6,430
Total:	490,625

Hazardous Action Reported for Fatal Traffic Crashes

Hazardous Action	Total
None	663
Speed Too Fast	209
Speed Too Slow	0
Failed to Yield	107
Disregard Traffic Control	73
Drove Wrong Way	10
Drove Left of Center	47
Improper Passing	9
Improper Lane Use	23
Improper Turn	3
Improper / No Signal	0
Improper Backing	0
Unable to Stop	64
Other	71
Unknown	221
Reckless Driving	93
Careless Driving	82
Not Reported	9
Total:	1,684

Both charts include driver and engineer (train) party types for Hazardous Action. The Hazardous Action Reported for Fatal Traffic Crashes chart includes totals for drivers and engineers (trains) involved in a fatal crash.

Trafficway

Description: The trafficway is used to indicate if a roadway is divided and whether it serves one-way or two-way traffic.

Crash Totals by Trafficway

Road Condition	Crashes
Interstate Route	26,977
US Route	23,304
M Route	59,735
Interstate Business Loop	3,857
US Business Route	2,334
M Business Route	63
Connector	514
Road, City Street or Unknown	176,297
Not Reported	260
Total:	293,341

Fatal Crash Totals by Trafficway

Road Condition	Crashes
Interstate Route	86
US Route	97
M Route	246
Interstate Business Loop	13
US Business Route	8
M Business Route	1
Connector	3
Road, City Street or Unknown	597
Not Reported	2
Total:	1,053

Road Surface Condition

Description: Even though several road surface conditions can exist simultaneously in Michigan, the single most significant road surface condition that describes the crash scene is selected.

Crash Totals by Road Surface Condition

Road Condition	Crashes
Dry	208,806
Wet	38,574
Ice	14,831
Snow	22,105
Mud, Dirt, Gravel	2,102
Slush	2,478
Debris	66
Water (Standing/Moving)	114
Sand	46
Oily	182
Other	113
Unknown	3,924
Not Reported	0
Total:	293,341

Fatal Crash Totals by Road Surface Condition

Road Condition	Crashes
Dry	812
Wet	126
Ice	42
Snow	34
Mud, Dirt, Gravel	21
Slush	11
Debris	0
Water (Standing/Moving)	0
Sand	0
Oily	0
Other	0
Unknown	7
Not Reported	0
Total:	1,053

Vehicle Type

Description: The type of vehicle involved in the crash is captured for each applicable unit. A Truck / Bus unit is defined as any of the following:

- A commercial truck or truck/trailer having a Gross Vehicle Weight Rating (GVWR) or Gross Combined Weight Rating (GCWR) of 10,001 pounds or more, whichever is greater.
- Any vehicle designed or used to transport more than eight passengers including the driver. This can include city buses, school buses, limousines, and courtesy vans.
- Any vehicle displaying or requiring a hazardous material (HM) placard, regardless of weight. This can include automobiles, sport utility vehicles (SUV), vans, and pick-up trucks.

Vehicle Type Involved in Traffic Crashes

Vehicle Type	Total
Passenger Car, SUV, Van	393,437
Motor Home	817
Pickup Truck	57,245
Small Truck – Under 10,000	2,358
Motorcycle	3,267
Moped / Goped	404
Go-Cart / Golf Cart	49
Snowmobile	102
ORV	473
Truck / Bus	16,714
Other	2,054
Not Reported	17,082
Total:	494,002

Truck / Bus – Vehicle Configurations Involved in Traffic Crashes

Vehicle Configuration	Total
Passenger Car (HM)	6
Light Truck (HM)	16
Bus 9-15	342
Bus 16+	1,435
Single-Unit 2 Axles	4,833
Single-Unit 3+ Axles	1,521
Truck / Trailer	2,032
Truck Tractor (Bobtail)	224
Tractor / Semi-Trailer	5,009
Tractor / Doubles	456
Tractor / Triples	0
Unknown Heavy Truck	841
Total:	16,715

Vehicle Type Involved in Fatal Traffic Crashes

Vehicle Type	Total
Passenger Car, SUV, Van	1,100
Motor Home	3
Pickup Truck	219
Small Truck – Under 10,000	4
Motorcycle	180
Moped / Goped	4
Go-Cart / Golf Cart	1
Snowmobile	9
ORV	21
Truck / Bus	105
Other	13
Not Reported	249
Total:	1,908

Truck / Bus – Vehicle Configurations Involved in Fatal Crashes

Vehicle Configuration	Total
Passenger Car (HM)	0
Light Truck (HM)	0
Bus 9-15	1
Bus 16+	1
Single-Unit 2 Axles	27
Single-Unit 3+ Axles	7
Truck / Trailer	4
Truck Tractor (Bobtail)	0
Tractor / Semi-Trailer	56
Tractor / Doubles	9
Tractor / Triples	0
Unknown Heavy Truck	0
Total:	105

Total Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Alcona County	624	3	3	42	52	579
Alger County	288	2	2	46	71	240
Allegan County	4,281	22	22	566	786	3,693
Alpena County	781	2	2	112	147	667
Antrim County	931	4	4	109	151	818
Arenac County	793	4	4	83	115	706
Baraga County	306	3	3	27	44	276
Barry County	1,689	11	11	199	285	1,479
Bay County	2,913	15	17	508	704	2,390
Benzie County	607	2	2	67	94	538
Berrien County	4,795	13	13	856	1,155	3,926
Branch County	1,646	6	9	146	209	1,494
Calhoun County	4,231	20	23	506	654	3,705
Cass County	1,704	14	15	255	359	1,435
Charlevoix County	1,055	2	2	113	162	940
Cheboygan County	1,178	8	8	122	163	1,048
Chippewa County	925	2	2	124	152	799
Clare County	1,029	9	9	114	156	906
Clinton County	2,274	6	6	248	326	2,020
Crawford County	598	2	2	80	115	516
Delta County	1,135	3	3	102	144	1,030
Dickinson County	898	3	5	103	152	792
Eaton County	2,790	11	13	436	569	2,343
Emmet County	1,327	6	6	125	166	1,196
Genesee County	10,181	50	50	2,120	2,980	8,011
Gladwin County	838	1	1	77	110	760
Gogebic County	267	0	0	41	59	226
Grand Traverse County	3,467	14	15	563	795	2,890
Gratiot County	1,583	5	5	162	218	1,416
Hillsdale County	1,829	3	3	233	320	1,593
Houghton County	867	2	3	104	131	761
Huron County	1,614	6	6	163	216	1,445
Ingham County	8,284	27	27	1,539	2,114	6,718
Ionia County	1,771	7	8	242	349	1,522
Iosco County	729	4	4	104	146	621
Iron County	457	1	1	33	39	423
Isabella County	2,498	10	11	320	476	2,168
Jackson County	5,267	28	30	751	1,036	4,488

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Kalamazoo County	8,728	31	32	1,407	1,844	7,290
Kalkaska County	688	4	4	98	133	586
Kent County	20,150	50	55	3,768	5,094	16,332
Keweenaw County	66	1	1	9	12	56
Lake County	435	1	1	83	101	351
Lapeer County	2,925	9	9	401	545	2,515
Leelanau County	707	3	4	81	112	623
Lenawee County	2,461	10	10	460	662	1,991
Livingston County	4,800	19	23	669	927	4,112
Luce County	177	2	2	31	50	144
Mackinac County	491	4	4	58	78	429
Macomb County	22,628	55	59	4,879	6,626	17,694
Manistee County	961	1	1	74	104	886
Marquette County	1,657	5	5	203	261	1,449
Mason County	1,280	7	7	123	181	1,150
Mecosta County	1,787	10	12	206	285	1,571
Menominee County	338	2	2	82	105	254
Midland County	2,545	6	6	350	492	2,189
Missaukee County	704	1	1	70	89	633
Monroe County	3,515	15	16	686	979	2,814
Montcalm County	1,918	15	17	274	396	1,629
Montmorency County	408	0	0	37	51	371
Muskegon County	4,730	17	18	778	1,114	3,935
Newaygo County	1,549	7	7	233	322	1,309
Oakland County	34,185	76	79	6,490	8,924	27,619
Oceana County	1,110	3	3	134	174	973
Ogemaw County	827	5	5	125	173	697
Ontonagon County	307	2	2	20	26	285
Osceola County	1,148	3	3	121	161	1,024
Oscoda County	258	5	5	21	23	232
Otsego County	918	5	6	118	154	795
Ottawa County	8,275	21	23	1,336	1,821	6,918
Presque Isle County	624	2	2	47	55	575
Roscommon County	787	6	6	132	205	649
Saginaw County	5,347	18	19	956	1,333	4,373
Sanilac County	1,568	5	6	148	216	1,415
Schoolcraft County	392	2	2	48	56	342
Shiawassee County	2,164	8	8	254	344	1,902
St. Clair County	3,737	31	33	613	866	3,093

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
St. Joseph County	1,904	12	13	317	422	1,575
Tuscola County	1,955	9	10	220	291	1,726
Van Buren County	2,435	10	10	348	468	2,077
Washtenaw County	9,259	21	24	1,573	2,140	7,665
Wayne County	50,697	201	216	11,248	15,682	39,248
Wexford County	1,346	2	2	196	264	1,148
Total:	293,341	1,053	1,123	51,066	70,281	241,222

Section 3: Reports by Crash Indicators

2022 Alcohol Involved Crashes

Description: The UD-10 captures alcohol information for all drivers, pedestrians, bicyclists, and train engineers. Law enforcement officials document if alcohol is suspected and if it was a contributing factor to the crash. They will also document the test type, test results, and interlock system, if applicable.

2022 Summary:

- Alcohol involved fatalities decreased 10 percent, from 357 in 2021, to 322 in 2022.
- October had the highest number of alcohol involved crashes with 856 total crashes.
- Saturdays had the highest number of alcohol involved crashes.
- The majority of alcohol involved crashes occurred between 9 p.m. and 11:59 p.m.

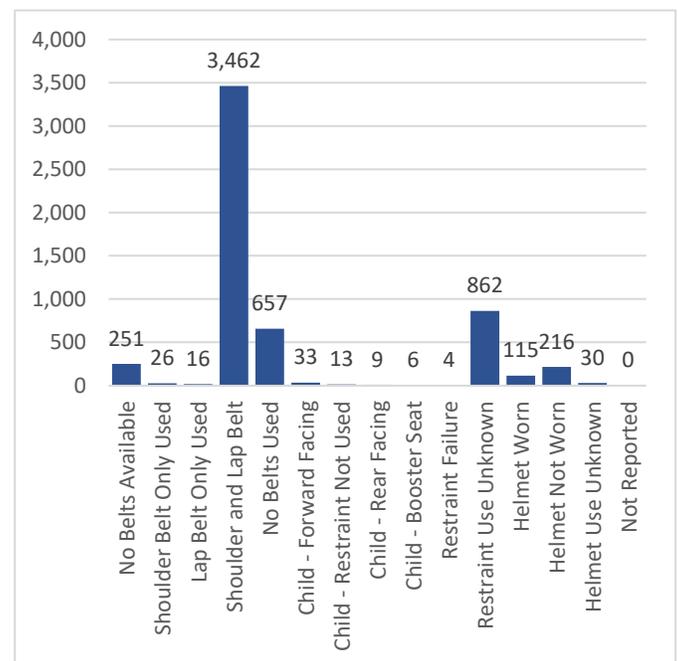
Alcohol Involved Traffic Crash Statistics for 2018-2022

	2018	2019	2020	2021	2022
Total Alcohol Involved Crashes	9,786	9,787	9,078	9,557	9,331
Total Alcohol Involved Fatal Crashes	287	226	303	336	301
Total Alcohol Involved Fatalities	315	295	326	357	322

Age and Gender for Alcohol Involved Crashes

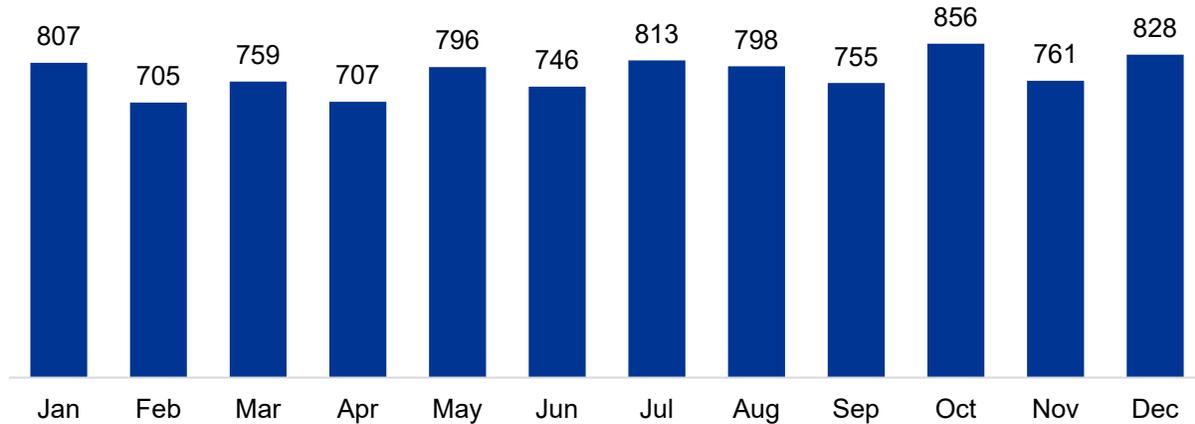
Age Range	Total	Male	Female	Non-Binary	Unknown
< 1	46	24	20	0	2
1-3	157	75	81	0	1
4-10	373	188	185	0	0
11-15	239	104	135	0	0
16-20	1,248	749	499	0	0
21-24	1,968	1,246	721	0	1
25-34	4,391	2,823	1,564	1	3
35-44	2,953	1,934	1,019	0	0
45-54	2,158	1,442	716	0	0
55-64	1,716	1,189	527	0	0
65-74	724	507	216	0	1
75-84	219	149	70	0	0
85-94	29	15	14	0	0
> 95	4	4	0	0	0
Not Reported	1,141	29	7	0	1,105
Total:	17,366	10,478	5,774	1	1,113
Percentage:		60.33%	33.25%	0.01%	6.41%

Restraint Use for Alcohol Involved Crashes

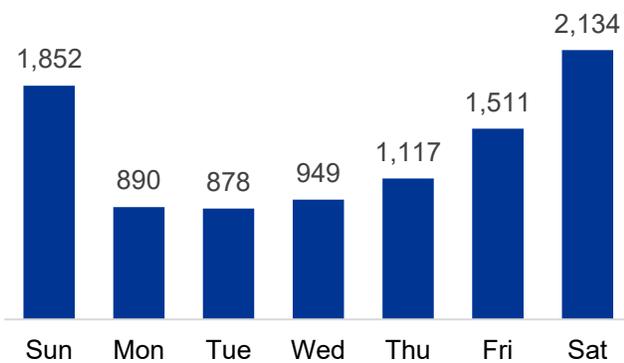


Both charts include all party types involved in an alcohol involved crash (driver, passenger, pedestrian, bicyclist or engineer (train)). Only fatal and injured persons are included in the restraint use statistics.

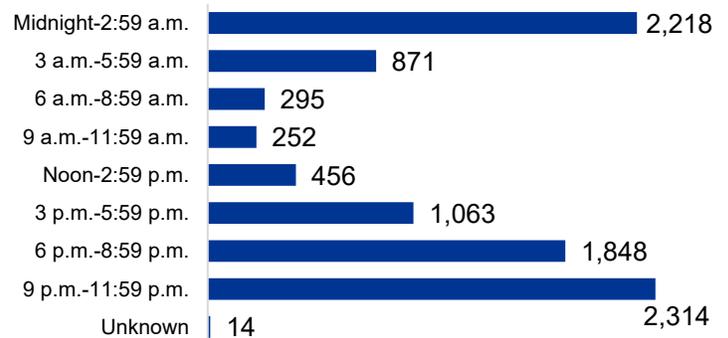
Alcohol Involved Traffic Crashes by Month



Alcohol Involved Traffic Crashes by Day of Week



Alcohol Involved Traffic Crashes by Time of Day



Alcohol Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Alcona County	10	3	3	3	6	4
Alger County	14	2	2	9	13	3
Allegan County	160	4	4	65	76	91
Alpena County	39	0	0	16	18	23
Antrim County	27	1	1	13	16	13
Arenac County	22	0	0	10	14	12
Baraga County	10	2	2	2	5	6
Barry County	53	3	3	21	31	29
Bay County	105	4	4	43	60	58
Benzie County	42	0	0	13	16	29
Berrien County	152	7	7	71	87	74

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Branch County	32	1	1	17	26	14
Calhoun County	115	7	8	52	75	56
Cass County	48	2	2	18	26	28
Charlevoix County	36	0	0	20	25	16
Cheboygan County	25	2	2	11	15	12
Chippewa County	37	0	0	20	30	17
Clare County	18	1	1	9	14	8
Clinton County	62	1	1	24	28	37
Crawford County	22	0	0	13	16	9
Delta County	31	0	0	6	8	25
Dickinson County	30	1	1	11	22	18
Eaton County	100	2	3	45	55	53
Emmet County	42	0	0	15	19	27
Genesee County	370	17	17	172	250	181
Gladwin County	22	1	1	5	13	16
Gogebic County	11	0	0	4	4	7
Grand Traverse County	141	9	10	50	80	82
Gratiot County	34	0	0	17	17	17
Hillsdale County	41	1	1	23	32	17
Houghton County	40	1	2	15	20	24
Huron County	27	2	2	16	20	9
Ingham County	204	7	7	88	129	109
Ionia County	58	2	2	21	32	35
Iosco County	34	0	0	17	20	17
Iron County	13	1	1	3	3	9
Isabella County	81	2	2	39	56	40
Jackson County	177	8	10	72	85	97
Kalamazoo County	264	12	13	102	140	150
Kalkaska County	15	0	0	9	13	6
Kent County	785	13	13	321	446	451
Keweenaw County	7	1	1	2	2	4
Lake County	22	0	0	15	19	7
Lapeer County	80	3	3	40	49	37
Leelanau County	34	1	1	8	9	25
Lenawee County	89	2	2	44	57	43
Livingston County	177	8	10	85	108	84
Luce County	13	1	1	6	11	6
Mackinac County	16	2	2	6	9	8

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Macomb County	615	16	17	241	332	358
Manistee County	23	1	1	10	10	12
Marquette County	67	1	1	15	17	51
Mason County	21	2	2	9	16	10
Mecosta County	54	3	5	19	27	32
Menominee County	23	1	1	14	18	8
Midland County	64	2	2	29	34	33
Missaukee County	20	1	1	6	6	13
Monroe County	224	5	6	86	107	133
Montcalm County	68	3	4	29	33	36
Montmorency County	8	0	0	5	5	3
Muskegon County	180	8	9	75	105	97
Newaygo County	62	2	2	32	41	28
Oakland County	972	23	24	397	558	552
Oceana County	33	0	0	9	10	24
Ogemaw County	22	1	1	15	16	6
Ontonagon County	9	1	1	3	6	5
Osceola County	44	1	1	18	22	25
Oscoda County	7	3	3	2	2	2
Otsego County	34	1	1	15	20	18
Ottawa County	265	7	7	100	141	158
Presque Isle County	22	1	1	8	11	13
Roscommon County	34	3	3	14	20	17
Saginaw County	202	6	7	86	123	110
Sanilac County	37	1	1	18	23	18
Schoolcraft County	17	0	0	8	8	9
Shiawassee County	69	3	3	31	37	35
St. Clair County	145	8	8	63	96	74
St. Joseph County	69	4	4	28	42	37
Tuscola County	73	2	2	29	36	42
Van Buren County	101	2	2	37	51	62
Washtenaw County	295	5	5	139	201	151
Wayne County	1,420	47	51	578	852	795
Wexford County	45	0	0	20	27	25
Total:	9,331	301	322	3,895	5,378	5,135

2022 Drug Involved Crashes

Description: The UD-10 captures drug information for all drivers, pedestrians, bicyclists, and train engineers. Law enforcement officials document if drugs are suspected and if they were a contributing factor to the crash. They will also document the test type and test result if administered in response to the crash.

2022 Summary:

- Drug involved fatalities decreased nine percent, from 275 in 2021, to 249 in 2022.
- May had the highest number of drug involved crashes with 227 total crashes.
- Saturdays had the highest number of drug involved crashes.
- The majority of drug involved crashes occurred between 6 p.m. and 8:59 p.m.

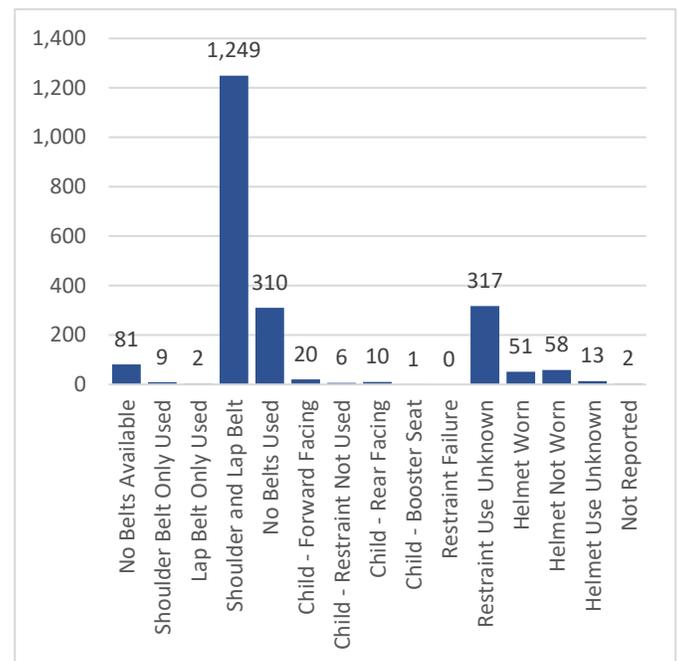
Drug Involved Traffic Crash Statistics for 2018-2022

	2018	2019	2020	2021	2022
Total Drug Involved Crashes	2,636	2,598	3,040	2,999	2,452
Total Drug Involved Fatal Crashes	220	214	250	259	229
Total Drug Involved Fatalities	247	237	267	275	249

Age and Gender for Drug Involved Crashes

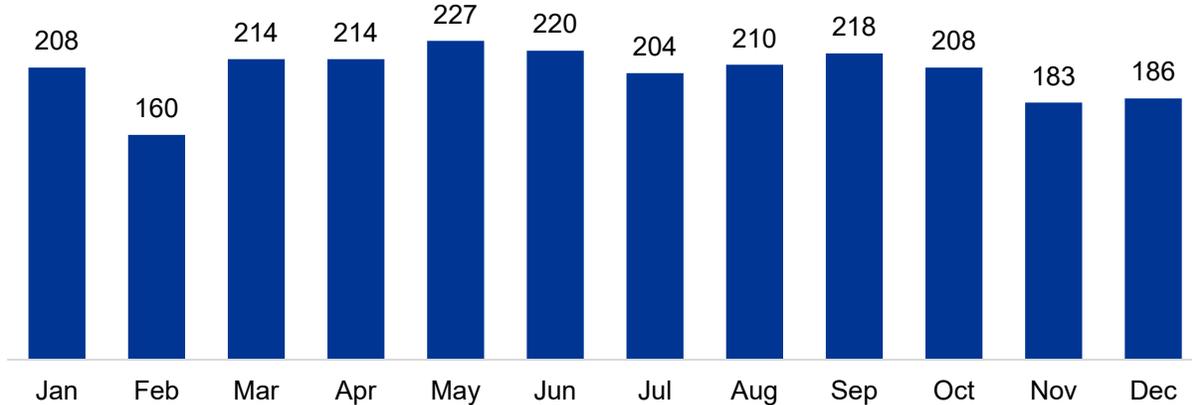
Age Range	Total	Male	Female	Non-Binary	Unknown
< 1	23	12	11	0	0
1-3	58	30	28	0	0
4-10	137	71	66	0	0
11-15	83	31	52	0	0
16-20	366	233	133	0	0
21-24	488	322	165	0	1
25-34	1,195	793	401	1	0
35-44	877	549	328	0	0
45-54	562	357	204	0	1
55-64	466	294	171	0	1
65-74	231	145	86	0	0
75-84	70	41	29	0	0
85-94	11	7	4	0	0
> 95	1	0	1	0	0
Not Reported	220	9	3	0	208
Total:	4,788	2,894	1,682	1	211
Percentage:		60.44%	35.13%	0.02%	4.41%

Restraint Use for Drug Involved Crashes

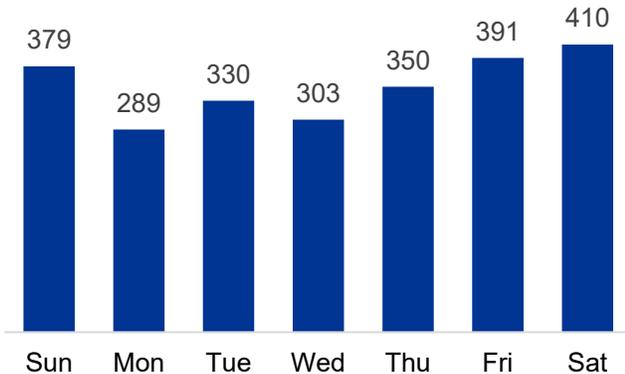


Both charts include all party types involved in a drug involved crash (driver, passenger, pedestrian, bicyclist or engineer (train)). Only fatal and injured persons are included in the restraint use statistics.

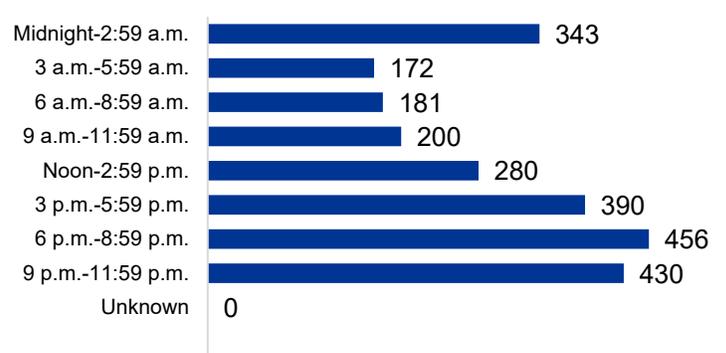
Drug Involved Traffic Crashes by Month



Drug Involved Traffic Crashes by Day of Week



Drug Involved Traffic Crashes by Time of Day



Drug Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Alcona County	3	0	0	3	3	0
Alger County	4	0	0	3	7	1
Allegan County	18	6	6	7	10	5
Alpena County	9	0	0	4	8	5
Antrim County	5	1	1	2	4	2
Arenac County	7	0	0	4	7	3
Baraga County	3	0	0	1	1	2
Barry County	13	3	3	3	7	7
Bay County	20	1	1	6	9	13
Benzie County	4	0	0	3	3	1

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Berrien County	49	6	6	27	36	16
Branch County	9	3	6	5	11	1
Calhoun County	37	10	12	17	35	10
Cass County	7	1	1	5	11	1
Charlevoix County	18	1	1	12	13	5
Cheboygan County	10	0	0	7	9	3
Chippewa County	14	0	0	10	17	4
Clare County	7	1	1	4	4	2
Clinton County	15	1	1	7	9	7
Crawford County	4	0	0	1	1	3
Delta County	8	1	1	0	1	7
Dickinson County	16	1	1	8	14	7
Eaton County	31	0	0	18	19	13
Emmet County	15	1	1	8	13	6
Genesee County	103	8	8	49	78	46
Gladwin County	3	1	1	1	5	1
Gogebic County	5	0	0	4	5	1
Grand Traverse County	55	5	6	24	38	26
Gratiot County	22	1	1	15	19	6
Hillsdale County	12	2	2	5	13	5
Houghton County	8	2	3	2	5	4
Huron County	12	2	2	4	8	6
Ingham County	46	1	1	29	50	16
Ionia County	21	4	5	7	16	10
Iosco County	5	1	1	4	6	0
Iron County	3	1	1	1	2	1
Isabella County	12	1	1	6	12	5
Jackson County	49	5	5	19	27	25
Kalamazoo County	61	10	10	30	45	21
Kalkaska County	7	1	1	3	3	3
Kent County	130	8	9	65	102	57
Keweenaw County	2	0	0	0	0	2
Lake County	5	1	1	2	2	2
Lapeer County	18	1	1	9	14	8
Leelanau County	9	0	0	3	5	6
Lenawee County	17	0	0	12	19	5
Livingston County	64	9	11	26	42	29
Luce County	4	1	1	2	5	1

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Mackinac County	5	0	0	2	2	3
Macomb County	155	12	13	77	110	66
Manistee County	4	0	0	1	1	3
Marquette County	34	0	0	9	14	25
Mason County	10	3	3	3	7	4
Mecosta County	7	3	5	1	1	3
Menominee County	5	0	0	3	4	2
Midland County	14	1	1	10	11	3
Missaukee County	2	0	0	1	1	1
Monroe County	73	3	3	31	45	39
Montcalm County	27	5	6	11	19	11
Montmorency County	2	0	0	1	1	1
Muskegon County	56	9	10	27	49	20
Newaygo County	12	1	1	4	5	7
Oakland County	239	11	12	128	185	100
Oceana County	12	1	1	7	8	4
Ogemaw County	5	0	0	3	3	2
Ontonagon County	2	1	1	1	4	0
Osceola County	13	1	1	6	9	6
Oscoda County	2	2	2	0	0	0
Otsego County	12	1	1	4	7	7
Ottawa County	65	7	9	35	58	23
Presque Isle County	4	0	0	2	2	2
Roscommon County	17	2	2	8	25	7
Saginaw County	64	5	5	36	59	23
Sanilac County	6	2	2	3	10	1
Schoolcraft County	2	0	0	1	1	1
Shiawassee County	16	2	2	6	12	8
St. Clair County	50	11	11	24	44	15
St. Joseph County	23	2	2	11	15	10
Tuscola County	27	0	0	13	15	14
Van Buren County	26	2	2	6	7	18
Washtenaw County	103	9	10	51	81	43
Wayne County	349	30	30	172	279	147
Wexford County	10	1	1	7	13	2
Total:	2,452	229	249	1,192	1,880	1,031

2022 Distracted Driver Involved Crashes

Description: Distractions are actions or sources that may have influenced driver or non-motorist performance. The distraction that is documented on the UD-10 is either determined or observed by the responding law enforcement official. Crashes involving more than one driver can result in multiple driver distractions reported. The totals listed below are counting reported driver distractions and not total crashes.

2022 Summary:

- Distracted driver involved fatalities decreased three percent, from 59 in 2021, to 57 in 2022.
- October had the highest number of distracted driver involved crashes with 1,625 total crashes.
- Fridays had the highest number of distracted driver involved crashes.
- The majority of distracted driver involved crashes occurred between 3 p.m. and 5:59 p.m.

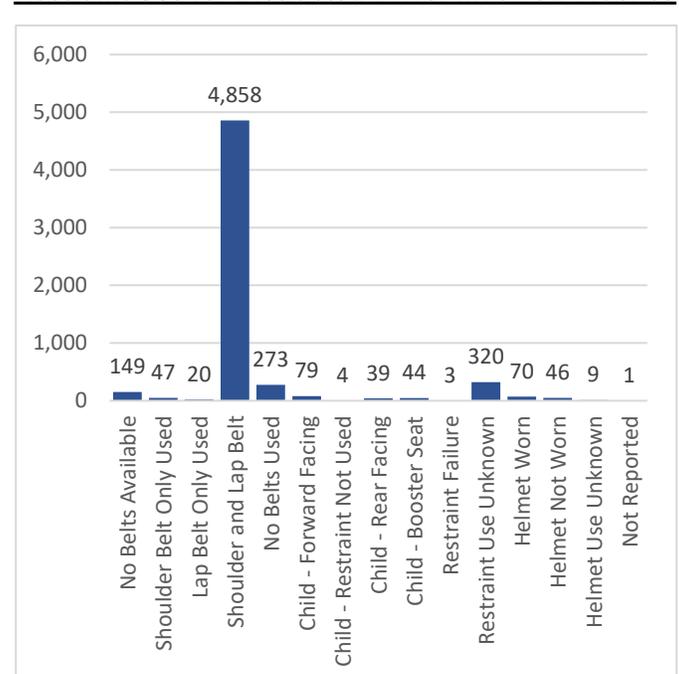
Distracted Driver Involved Traffic Crash Statistics for 2018-2022

	2018	2019	2020	2021	2022
Total Distracted Driver Involved Crashes	18,927	18,096	14,326	16,543	15,441
Total Distracted Driver Involved Fatal Crashes	67	65	48	59	53
Total Distracted Driver Involved Fatalities	77	70	52	59	57

Age and Gender for Distracted Driver Involved Crashes

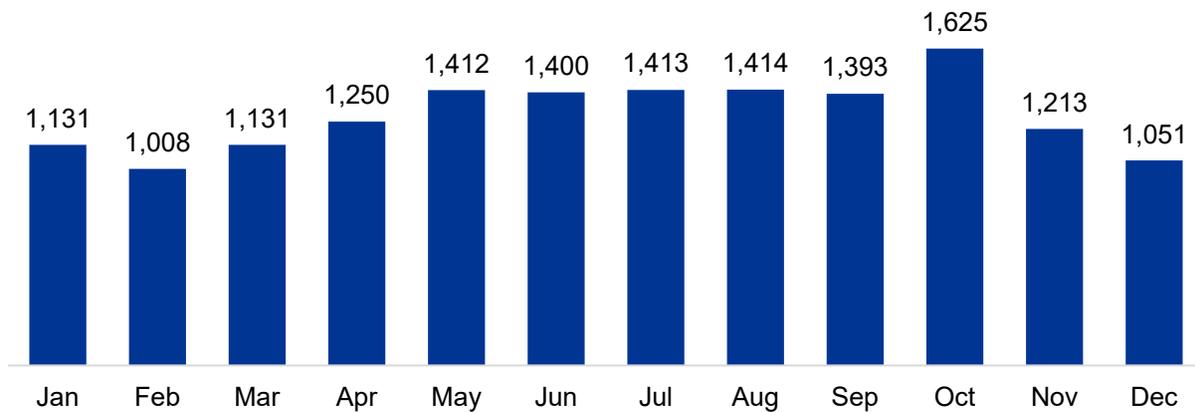
Age Range	Total	Male	Female	Non-Binary	Unknown
< 1	171	78	91	0	2
1-3	582	309	273	0	0
4-10	1,093	550	542	0	1
11-15	830	396	431	0	3
16-20	4,214	2,313	1,898	0	3
21-24	3,463	1,848	1,610	3	2
25-34	7,126	3,898	3,224	0	4
35-44	5,236	2,795	2,439	0	2
45-54	4,203	2,375	1,826	0	2
55-64	3,902	2,153	1,747	0	2
65-74	2,378	1,254	1,124	0	0
75-84	1,025	540	485	0	0
85-94	178	95	83	0	0
> 95	4	3	1	0	0
Not Reported	1,886	102	73	0	1,711
Total:	36,291	18,709	15,847	3	1,732
Percentage:		51.55%	43.67%	0.01%	4.77%

Restraint Use for Distracted Driver Involved Crashes

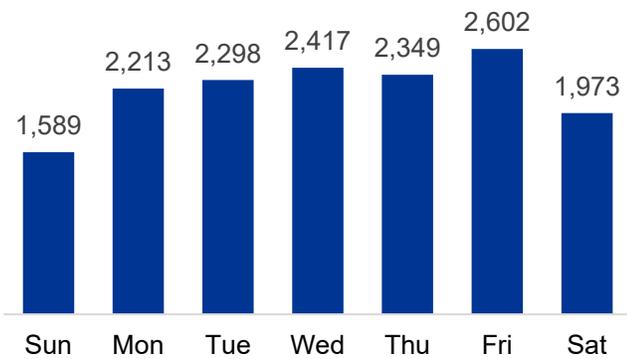


Both charts include all party types involved in a driver distracted involved crash (driver, passenger, pedestrian, bicyclist or engineer (train)). Only fatal and injured persons are included in the restraint use statistics.

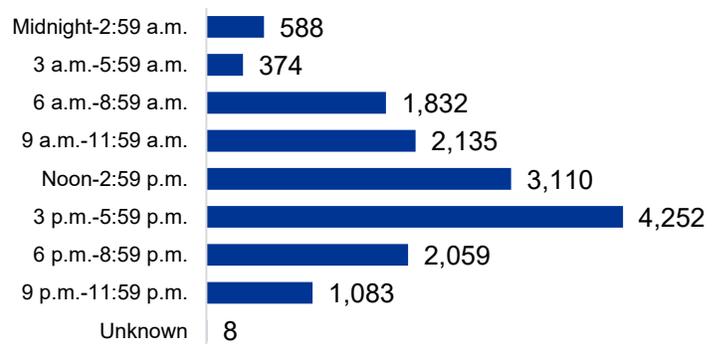
Distracted Driver Involved Traffic Crashes by Month



Distracted Driver Involved Traffic Crashes by Day of Week



Distracted Driver Involved Traffic Crashes by Time of Day



Driver Distractions Reported in Traffic Crashes

Driver Distraction	Total
Not Distracted	12,324
Communication Device (Text, Type, Dial)	1,823
Hands-Free Device (Talk)	161
Hands-Held Device (Talk)	398
Electronic Device – Other	1,727
Passenger	849
Other Activity Inside Vehicle	5,683
Activity Outside Vehicle	4,959
Unknown	1,820
Not Reported	9
Total:	29,753

Driver Distractions Reported in Fatal Traffic Crashes

Driver Distraction	Total
Not Distracted	27
Communication Device (Text, Type, Dial)	5
Hands-Free Device (Talk)	2
Hands-Held Device (Talk)	1
Electronic Device – Other	3
Passenger	7
Other Activity Inside Vehicle	11
Activity Outside Vehicle	24
Unknown	12
Not Reported	0
Total:	92

Distracted Driver Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Alcona County	9	1	1	3	5	5
Alger County	18	0	0	4	7	14
Allegan County	207	2	2	51	64	154
Alpena County	39	0	0	14	21	25
Antrim County	34	0	0	5	7	29
Arenac County	23	0	0	8	14	15
Baraga County	14	1	1	3	5	10
Barry County	62	1	1	14	27	47
Bay County	188	1	1	50	58	137
Benzie County	15	0	0	5	5	10
Berrien County	224	1	1	61	96	162
Branch County	43	0	0	13	21	30
Calhoun County	120	0	0	34	43	86
Cass County	69	1	1	18	29	50
Charlevoix County	32	0	0	15	23	17
Cheboygan County	19	0	0	6	10	13
Chippewa County	52	0	0	14	19	38
Clare County	42	0	0	10	18	32
Clinton County	75	0	0	17	22	58
Crawford County	15	1	1	5	5	9
Delta County	47	0	0	13	21	34
Dickinson County	25	0	0	5	6	20
Eaton County	127	1	2	35	45	91
Emmet County	50	0	0	11	12	39
Genesee County	554	0	0	160	237	394
Gladwin County	35	0	0	7	11	28
Gogebic County	12	0	0	1	3	11
Grand Traverse County	212	0	0	43	63	169
Gratiot County	49	1	1	21	26	27
Hillsdale County	57	1	1	16	21	40
Houghton County	28	0	0	3	4	25
Huron County	40	0	0	14	19	26
Ingham County	475	0	0	123	179	352
Ionia County	86	1	1	19	34	66
Iosco County	27	0	0	8	17	19
Iron County	13	0	0	1	2	12

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Isabella County	96	1	1	29	49	66
Jackson County	264	1	1	75	108	188
Kalamazoo County	551	1	1	120	158	430
Kalkaska County	18	0	0	4	7	14
Kent County	1,353	3	3	340	481	1,010
Keweenaw County	3	0	0	0	0	3
Lake County	17	0	0	7	13	10
Lapeer County	113	0	0	39	59	74
Leelanau County	36	0	0	12	18	24
Lenawee County	110	0	0	33	53	77
Livingston County	255	0	0	61	96	194
Luce County	9	0	0	4	6	5
Mackinac County	15	0	0	2	2	13
Macomb County	1,692	3	3	472	680	1,217
Manistee County	37	0	0	10	15	27
Marquette County	89	0	0	11	13	78
Mason County	37	0	0	8	17	29
Mecosta County	65	0	0	16	23	49
Menominee County	20	0	0	8	9	12
Midland County	131	1	1	31	47	99
Missaukee County	24	0	0	9	15	15
Monroe County	220	0	0	61	84	159
Montcalm County	79	0	0	31	43	48
Montmorency County	6	0	0	1	1	5
Muskegon County	205	0	0	44	64	161
Newaygo County	57	1	1	21	31	35
Oakland County	2,163	10	11	553	783	1,600
Oceana County	25	0	0	14	18	11
Ogemaw County	28	0	0	12	22	16
Ontonagon County	8	0	0	2	3	6
Osceola County	30	0	0	11	14	19
Oscoda County	4	0	0	0	0	4
Otsego County	32	1	1	10	13	21
Ottawa County	617	0	0	171	234	446
Presque Isle County	9	0	0	3	3	6
Roscommon County	45	0	0	12	27	33
Saginaw County	278	1	1	95	136	182
Sanilac County	43	1	1	18	25	24

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Schoolcraft County	11	0	0	4	4	7
Shiawassee County	109	0	0	29	46	80
St. Clair County	164	1	1	43	55	120
St. Joseph County	86	1	1	26	30	59
Tuscola County	60	0	0	12	13	48
Van Buren County	94	0	0	36	55	58
Washtenaw County	597	2	2	163	237	432
Wayne County	2,347	12	14	610	870	1,725
Wexford County	52	0	0	15	26	37
Total:	15,441	53	57	4,118	5,905	11,270

2022 Bicycle Involved Crashes

Description: A bicycle is defined as a non-motorized unit propelled by pedaling, regardless of the number of wheels, which can include tricycles, unicycles, and pedal cars. When involved in a traffic crash, bicycles are recorded on the UD-10 as a separate unit.

2022 Summary:

- Bicyclist fatalities increased 24 percent, from 29 in 2021, to 36 in 2022.
- 97.22 percent of bicyclist fatalities were reported as males.
- August had the highest number of bicycle involved crashes with 218 total crashes.
- Wednesdays had the highest number of bicycle involved crashes.
- The majority of bicycle involved crashes occurred between 3 p.m. and 5:59 p.m.

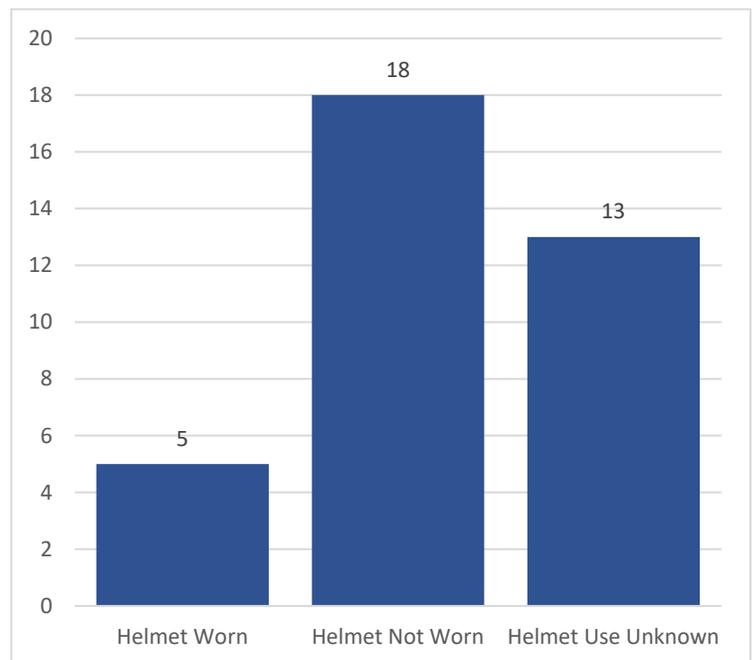
Bicycle Involved Traffic Crash Statistics for 2018-2022

	2018	2019	2020	2021	2022
Total Bicycle Involved Crashes	1,546	1,492	1,224	1,248	1,340
Total Bicycle Involved Fatal Crashes	23	21	37	29	35
Total Bicyclist Fatalities	21	21	38	29	36

Age and Gender for Bicyclist Fatalities

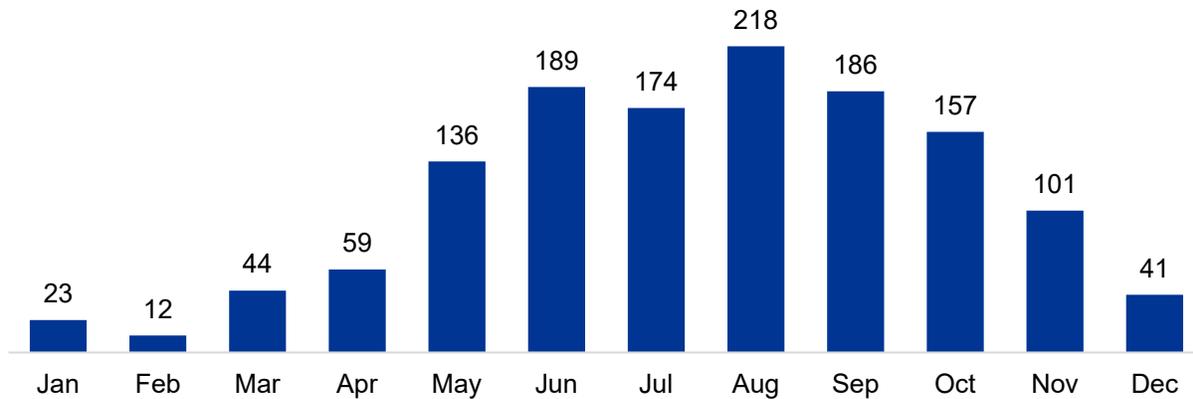
Age Range	Total	Male	Female	Non-Binary
< 1	0	0	0	0
1-3	0	0	0	0
4-10	1	1	0	0
11-15	2	2	0	0
16-20	0	0	0	0
21-24	2	2	0	0
25-34	3	3	0	0
35-44	3	3	0	0
45-54	4	4	0	0
55-64	14	13	1	0
65-74	4	4	0	0
75-84	3	3	0	0
85-94	0	0	0	0
> 95	0	0	0	0
Not Reported	0	0	0	0
Total:	36	35	1	0
Percentage:		97.22%	2.78%	0.00%

Helmet Use for Bicyclist Fatalities

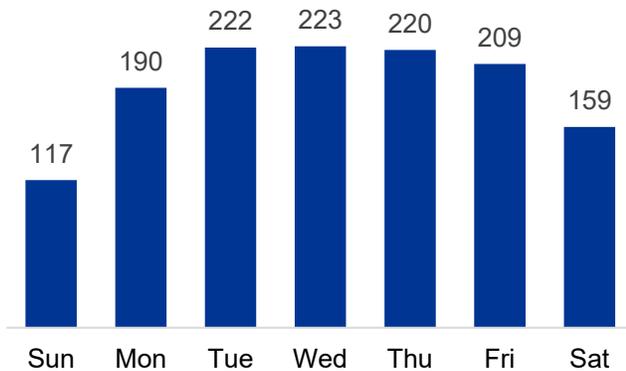


Both charts include only bicyclist fatality totals.

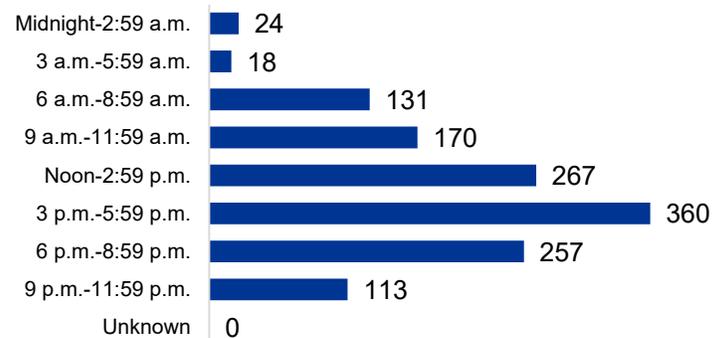
Bicycle Involved Traffic Crashes by Month



Bicycle Involved Traffic Crashes by Day of Week



Bicycle Involved Traffic Crashes by Time of Day



Bicycle Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Allegan County	14	2	2	8	10	4
Alpena County	5	0	0	4	4	1
Barry County	3	0	0	3	3	0
Bay County	15	0	0	10	10	5
Benzie County	3	0	0	2	2	1
Berrien County	12	0	0	10	10	2
Branch County	5	0	0	5	5	0
Calhoun County	12	0	0	10	13	2

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Cass County	4	0	0	2	2	2
Charlevoix County	1	0	0	0	0	1
Cheboygan County	1	0	0	1	1	0
Chippewa County	1	0	0	1	1	0
Clinton County	2	0	0	2	2	0
Delta County	1	0	0	1	1	0
Dickinson County	1	0	0	0	0	1
Eaton County	13	0	0	10	10	3
Emmet County	3	0	0	3	3	0
Genesee County	30	2	2	21	22	7
Gladwin County	2	0	0	2	3	0
Grand Traverse County	21	1	1	13	13	7
Gratiot County	2	0	0	1	1	1
Hillsdale County	1	0	0	0	0	1
Houghton County	3	0	0	3	3	0
Ingham County	67	0	0	56	56	11
Ionia County	3	1	2	2	5	0
Iosco County	5	0	0	3	3	2
Isabella County	8	0	0	7	7	1
Jackson County	18	0	0	15	15	3
Kalamazoo County	40	0	0	27	28	13
Kalkaska County	1	0	0	1	1	0
Kent County	135	3	3	102	105	30
Lake County	1	0	0	1	1	0
Lapeer County	5	0	0	5	6	0
Leelanau County	2	0	0	2	2	0
Lenawee County	11	1	1	9	9	1
Livingston County	13	1	1	10	11	2
Mackinac County	1	0	0	1	1	0
Macomb County	131	4	4	111	113	16
Manistee County	1	0	0	1	1	0
Marquette County	13	0	0	10	10	3
Mason County	4	0	0	3	3	1
Mecosta County	2	0	0	2	2	0
Menominee County	2	0	0	2	2	0
Midland County	9	0	0	9	9	0
Missaukee County	1	0	0	1	1	0
Monroe County	15	1	1	11	11	3

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Montcalm County	5	0	0	3	3	2
Muskegon County	24	1	1	21	21	2
Newaygo County	3	0	0	3	3	0
Oakland County	158	3	3	119	124	36
Oceana County	1	0	0	1	1	0
Otsego County	1	0	0	1	1	0
Ottawa County	64	0	0	48	48	16
Roscommon County	3	0	0	3	3	0
Saginaw County	26	0	0	19	21	7
Sanilac County	1	0	0	1	1	0
Shiawassee County	5	0	0	3	3	2
St. Clair County	20	1	1	14	15	5
St. Joseph County	4	0	0	3	4	1
Tuscola County	3	0	0	1	1	2
Van Buren County	8	0	0	7	7	1
Washtenaw County	75	1	1	56	56	18
Wayne County	294	13	13	219	225	62
Wexford County	2	0	0	1	1	1
Total:	1,340	35	36	1,026	1,059	279

2022 Pedestrian Involved Crashes

Description: Each of the following scenarios are documented as pedestrian involved crashes on the UD-10: a person on foot; person on skis, skates, or roller blades; rider of a horse; horse and buggy (each occupant, including the driver, will be listed as a separate pedestrian unit); and, a non-motorized wheelchair.

2022 Summary:

- Pedestrian fatalities decreased five percent, from 183 in 2021, to 173 in 2022.
- There was one driver who also received fatal injuries in a pedestrian involved crash in 2022.
- 69.94 percent of pedestrian fatalities were reported as males.
- October had the highest number of pedestrian involved crashes with 236 total crashes.
- Thursdays had the highest number of pedestrian involved crashes.
- The majority of pedestrian involved crashes occurred between 6 p.m. and 8:59 p.m.

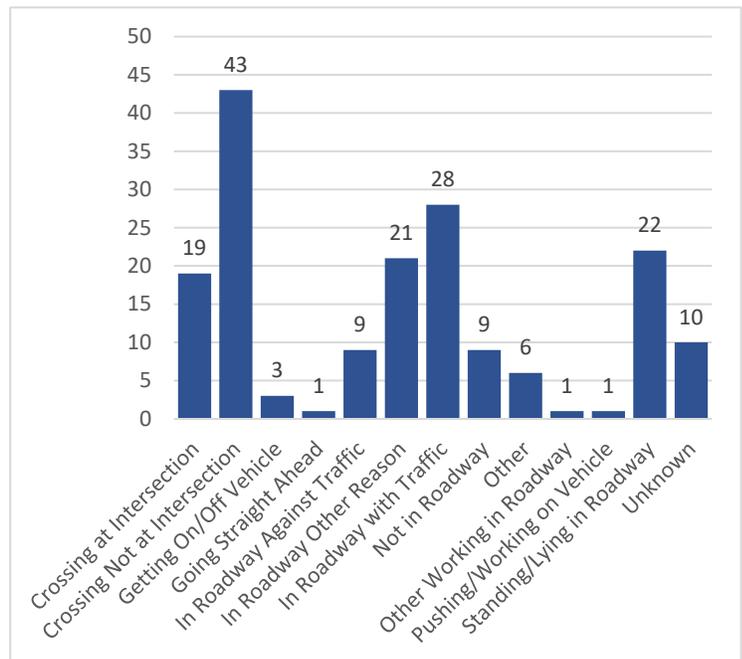
Pedestrian Involved Traffic Crash Statistics for 2018-2022

	2018	2019	2020	2021	2022
Total Pedestrian Involved Crashes	2,203	2,260	1,682	1,790	1,897
Total Pedestrian Involved Fatal Crashes	145	143	173	182	172
Total Pedestrian Fatalities	145	149	175	183	173

Age and Gender for Pedestrian Fatalities

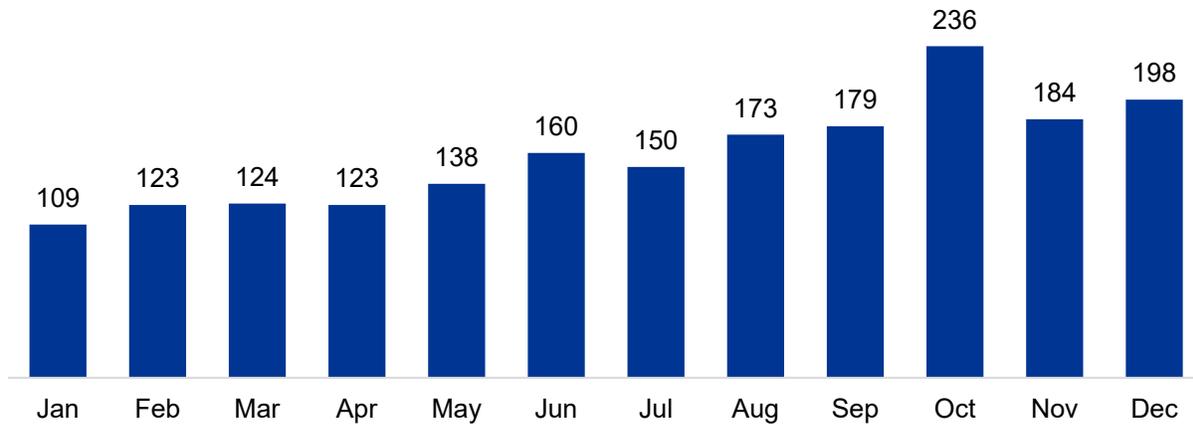
Age Range	Total	Male	Female	Non-Binary
< 1	0	0	0	0
1-3	0	0	0	0
4-10	1	1	0	0
11-15	2	1	1	0
16-20	3	3	0	0
21-24	10	4	6	0
25-34	22	14	8	0
35-44	34	23	11	0
45-54	23	16	7	0
55-64	37	29	8	0
65-74	27	21	6	0
75-84	10	7	3	0
85-94	3	2	1	0
> 95	1	0	1	0
Not Reported	0	0	0	0
Total:	173	121	52	0
Percentage:		69.94%	30.06%	0.00%

Action Prior for Pedestrian Fatalities

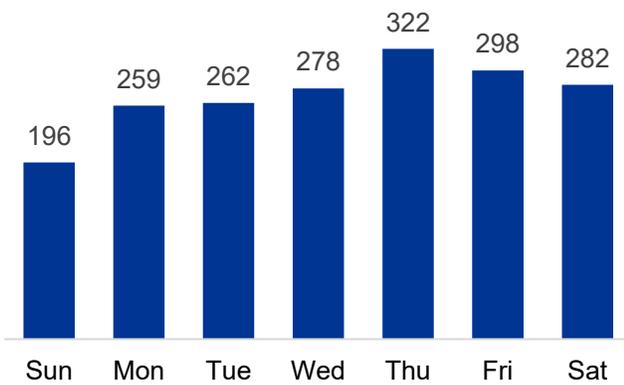


Both charts include only pedestrian fatality totals.

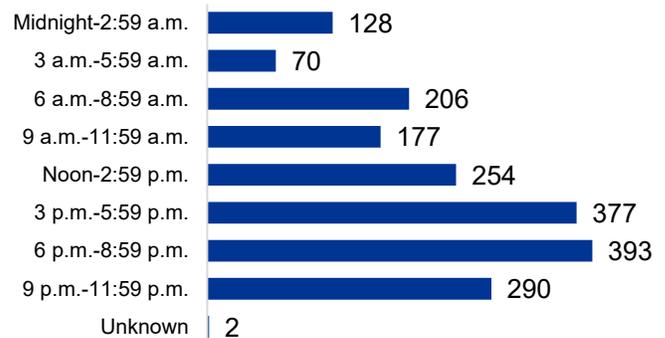
Pedestrian Involved Traffic Crashes by Month



Pedestrian Involved Traffic Crashes by Day of Week



Pedestrian Involved Traffic Crashes by Time of Day



Pedestrian Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Alcona County	2	1	1	0	1	1
Alger County	1	0	0	1	1	0
Allegan County	7	2	2	5	5	0
Antrim County	2	1	1	1	1	0
Arenac County	1	0	0	1	1	0
Baraga County	1	1	1	0	1	0
Barry County	2	2	2	0	0	0
Bay County	18	4	4	13	14	1

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Benzie County	2	0	0	1	1	1
Berrien County	25	6	6	18	20	1
Branch County	5	0	0	5	6	0
Calhoun County	27	4	4	21	24	2
Cass County	1	0	0	1	1	0
Charlevoix County	4	0	0	4	5	0
Cheboygan County	2	0	0	2	2	0
Chippewa County	2	0	0	2	2	0
Clare County	3	0	0	3	3	0
Clinton County	7	1	1	6	9	0
Crawford County	2	0	0	2	2	0
Delta County	2	0	0	1	1	1
Dickinson County	1	0	0	1	1	0
Eaton County	16	1	1	12	13	3
Emmet County	2	0	0	2	2	0
Genesee County	78	14	14	63	74	1
Gladwin County	4	0	0	2	8	2
Gogebic County	2	0	0	1	2	1
Grand Traverse County	19	2	2	13	13	4
Graiot County	7	0	0	6	6	1
Hillsdale County	8	0	0	8	10	0
Huron County	2	0	0	2	2	0
Ingham County	80	6	6	67	74	7
Ionia County	6	0	0	5	5	1
Iosco County	3	0	0	3	3	0
Isabella County	16	4	4	10	17	2
Jackson County	35	3	3	24	25	8
Kalamazoo County	75	4	4	64	71	7
Kalkaska County	1	1	1	0	0	0
Kent County	163	6	6	135	150	22
Lapeer County	6	2	2	4	4	0
Leelanau County	3	1	1	2	2	0
Lenawee County	12	2	2	8	9	2
Livingston County	12	1	1	10	13	1
Mackinac County	2	0	0	1	1	1
Macomb County	134	11	11	112	126	11
Manistee County	1	0	0	1	1	0
Marquette County	9	2	2	6	7	1

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Mason County	5	2	2	2	2	1
Mecosta County	11	0	0	5	5	6
Menominee County	2	0	0	2	2	0
Midland County	5	0	0	5	5	0
Missaukee County	2	0	0	2	2	0
Monroe County	24	2	2	20	25	2
Montcalm County	14	2	3	10	13	2
Montmorency County	1	0	0	1	1	0
Muskegon County	20	1	1	15	18	4
Newaygo County	3	0	0	3	3	0
Oakland County	163	14	14	136	152	13
Oceana County	2	0	0	2	2	0
Ogemaw County	3	0	0	3	5	0
Ontonagon County	1	0	0	1	1	0
Osceola County	2	0	0	2	2	0
Oscoda County	2	1	1	1	1	0
Otsego County	2	0	0	2	2	0
Ottawa County	31	2	2	26	29	3
Presque Isle County	1	0	0	1	1	0
Saginaw County	26	3	3	21	24	2
Sanilac County	4	1	1	3	6	0
Schoolcraft County	1	0	0	1	1	0
Shiawassee County	4	1	1	2	2	1
St. Clair County	13	4	4	9	12	0
St. Joseph County	17	0	0	15	17	2
Tuscola County	5	1	1	2	2	2
Van Buren County	6	2	2	4	4	0
Washtenaw County	79	1	1	66	70	12
Wayne County	632	53	54	473	526	106
Wexford County	3	0	0	3	3	0
Total:	1,897	172	174	1,487	1,677	238

Note: Fatality and injury totals above can include any party type who was killed or received an injury in a pedestrian involved crash. One driver also received fatal injuries in a pedestrian involved crash in 2022.

2022 Motorcycle Involved Crashes

Description: A motorcycle is defined as every motor vehicle having a saddle or seat for the use of the rider and designed to travel on not more than three wheels in contact with the ground but excluding a tractor. It is recorded as its own unit on a UD-10.

2022 Summary:

- Motorcyclist fatalities increased four percent, from 166 in 2021, to 173 in 2022.
- There were one pedestrian, one driver, and one passenger who also received fatal injuries in a motorcycle involved crash in 2022.
- 93.06 percent of motorcyclist fatalities were reported as males.
- June had the highest number of motorcycle involved crashes with 578 total crashes.
- Saturdays had the highest number of motorcycle involved crashes.
- The majority of motorcycle involved crashes occurred between 3 p.m. and 5:59 p.m.

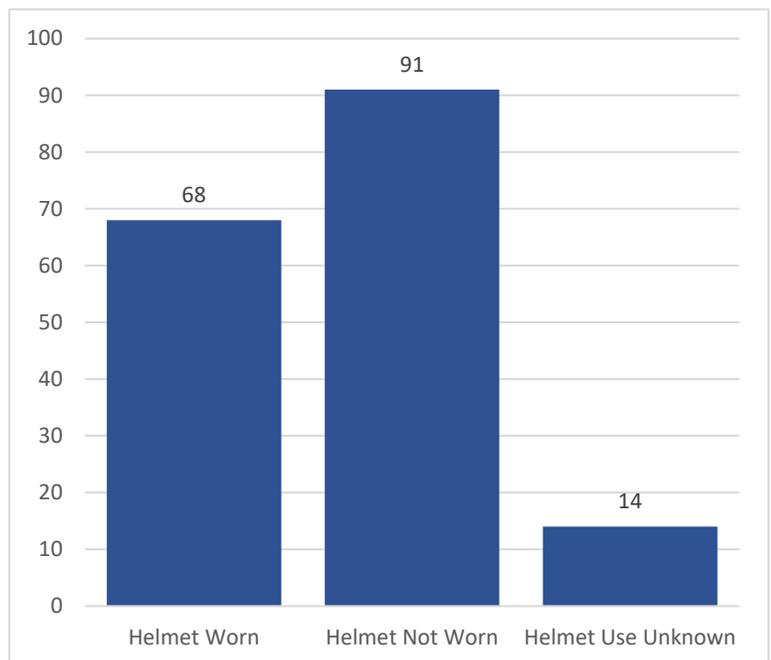
Motorcycle Involved Traffic Crash Statistics for 2018-2022

	2018	2019	2020	2021	2022
Total Motorcycle Involved Crashes	2,648	2,723	2,988	3,175	3,158
Total Motorcycle Involved Fatal Crashes	126	116	150	166	168
Total Motorcyclist Fatalities	134	122	152	166	173

Age and Gender for Motorcyclist Fatalities

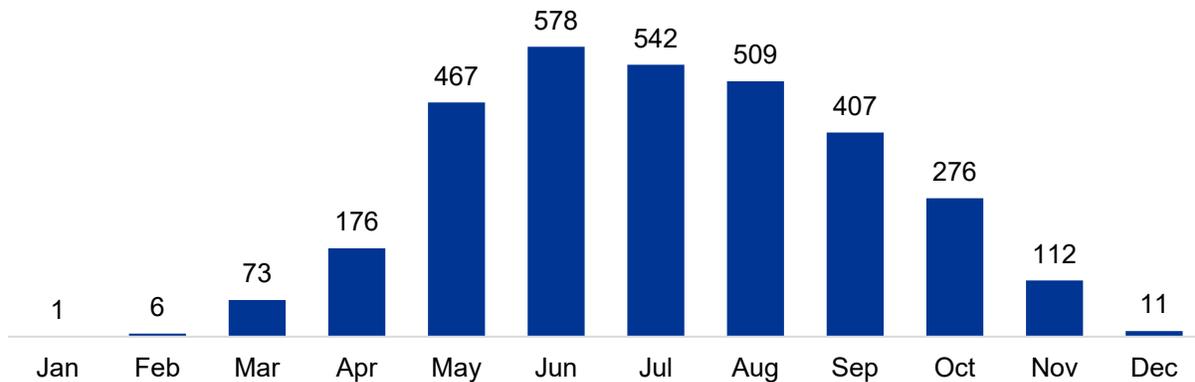
Age Range	Total	Male	Female	Non-Binary
< 1	0	0	0	0
1-3	0	0	0	0
4-10	0	0	0	0
11-15	0	0	0	0
16-20	7	7	0	0
21-24	15	14	1	0
25-34	29	26	3	0
35-44	35	32	3	0
45-54	33	31	2	0
55-64	32	30	2	0
65-74	14	13	1	0
75-84	6	6	0	0
85-94	2	2	0	0
> 95	0	0	0	0
Not Reported	0	0	0	0
Total:	173	161	12	0
Percentage:		93.06%	6.94%	0%

Helmet Use for Motorcyclist Fatalities

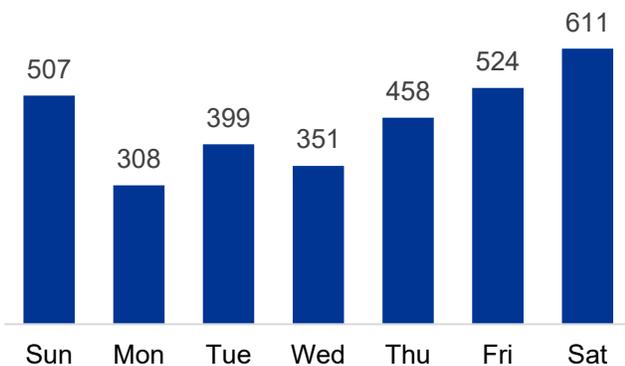


Both charts include only motorcyclist fatality totals.

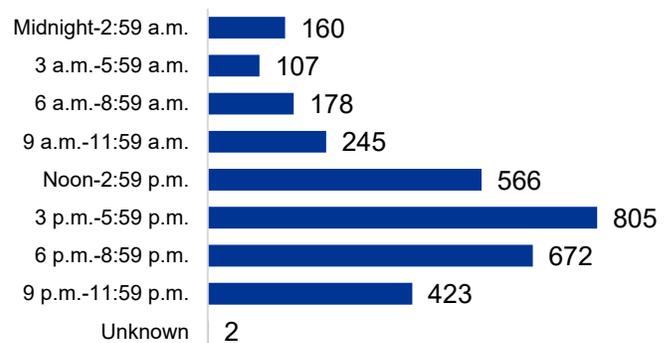
Motorcycle Involved Traffic Crashes by Month



Motorcycle Involved Traffic Crashes by Day of Week



Motorcycle Involved Traffic Crashes by Time of Day



Motorcycle Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Alcona County	3	0	0	1	1	2
Alger County	8	0	0	7	8	1
Allegan County	70	5	5	42	49	23
Alpena County	7	0	0	7	7	0
Antrim County	13	0	0	12	14	1
Arenac County	5	1	1	3	5	1
Baraga County	3	0	0	2	2	1
Barry County	21	3	3	14	17	4
Bay County	38	3	3	26	28	9
Benzie County	6	0	0	3	3	3

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Berrien County	61	1	1	49	52	11
Branch County	24	2	2	15	19	7
Calhoun County	67	3	3	50	58	14
Cass County	31	2	3	22	26	7
Charlevoix County	7	0	0	5	7	2
Cheboygan County	14	0	0	14	15	0
Chippewa County	7	0	0	7	8	0
Clare County	12	1	1	9	12	2
Clinton County	22	1	1	18	21	3
Crawford County	7	0	0	4	5	3
Delta County	9	0	0	7	7	2
Dickinson County	12	1	1	7	7	4
Eaton County	36	2	2	27	29	7
Emmet County	17	0	0	14	16	3
Genesee County	133	6	6	99	123	28
Gladwin County	7	0	0	4	5	3
Gogebic County	3	0	0	3	3	0
Grand Traverse County	31	3	3	22	24	6
Gratiot County	11	0	0	6	8	5
Hillsdale County	35	1	1	27	33	7
Houghton County	10	0	0	8	8	2
Huron County	15	1	1	14	17	0
Ingham County	71	7	7	51	64	13
Ionia County	24	2	2	16	21	6
Iosco County	12	3	3	5	7	4
Iron County	3	0	0	2	2	1
Isabella County	18	1	1	11	13	6
Jackson County	69	9	9	46	55	14
Kalamazoo County	99	5	6	72	80	22
Kalkaska County	10	1	1	7	8	2
Kent County	195	3	4	147	157	45
Keweenaw County	2	1	1	1	1	0
Lake County	13	1	1	11	12	1
Lapeer County	27	1	1	18	22	8
Leelanau County	10	0	0	9	11	1
Lenawee County	41	2	2	29	40	10
Livingston County	60	3	3	42	47	15
Luce County	7	0	0	6	7	1
Mackinac County	2	0	0	2	3	0
Macomb County	230	7	7	169	186	54

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Manistee County	8	0	0	4	4	4
Marquette County	16	0	0	7	8	9
Mason County	15	1	1	11	12	3
Mecosta County	15	2	2	11	14	2
Menominee County	11	0	0	7	8	4
Midland County	23	1	1	15	16	7
Missaukee County	10	0	0	9	10	1
Monroe County	48	2	2	34	41	12
Montcalm County	24	3	3	19	22	2
Montmorency County	6	0	0	5	6	1
Muskegon County	75	4	4	54	59	17
Newaygo County	37	1	1	26	32	10
Oakland County	255	14	14	180	207	61
Oceana County	10	1	1	9	9	0
Ogemaw County	7	0	0	6	6	1
Ontonagon County	1	0	0	1	1	0
Osceola County	8	0	0	7	10	1
Oscoda County	4	2	2	1	1	1
Otsego County	11	1	1	9	10	1
Ottawa County	77	4	4	58	67	15
Presque Isle County	7	1	1	5	6	1
Roscommon County	7	1	1	3	3	3
Saginaw County	48	2	2	31	35	15
Sanilac County	19	3	4	12	17	4
Schoolcraft County	3	0	0	3	3	0
Shiawassee County	18	1	1	13	17	4
St. Clair County	69	4	4	55	65	10
St. Joseph County	37	0	0	30	31	7
Tuscola County	20	0	0	17	19	3
Van Buren County	36	4	4	26	33	6
Washtenaw County	83	2	3	53	59	28
Wayne County	499	31	34	351	405	117
Wexford County	13	1	1	7	8	5
Total:	3,158	168	176	2,271	2,617	719

Note: Fatality and injury totals above can include any party type who was killed or received an injury in a motorcycle involved crash. One pedestrian, one driver, and one passenger also received fatal injuries in a motorcycle involved crash in 2022.

2022 ORV Involved Crashes

Description: An ORV is defined as a motor-driven, off-road recreation vehicle capable of cross-country travel without benefit of a road or trail, on or immediately over land, snow, ice, marsh, swampland, or other natural terrain. An all-terrain vehicle, commonly referred to as an ATV, is an ORV. The State of Michigan requires that both traffic crashes and non-traffic crashes involving snowmobiles and ORVs be reported. This requirement applies whenever an ORV or snowmobile is involved in a crash resulting in a fatality, personal injury, or property damage of \$100 or more.

2022 Summary:

- ORV fatalities remained the same with 21 in 2021, and 21 in 2022.
- 90.48 percent of ORV rider fatalities were reported as males.
- July had the highest number of ORV involved crashes with 85 total crashes.
- Saturdays had the highest number of ORV involved crashes.
- The majority of ORV involved crashes occurred between 3 p.m. and 8:59 p.m.

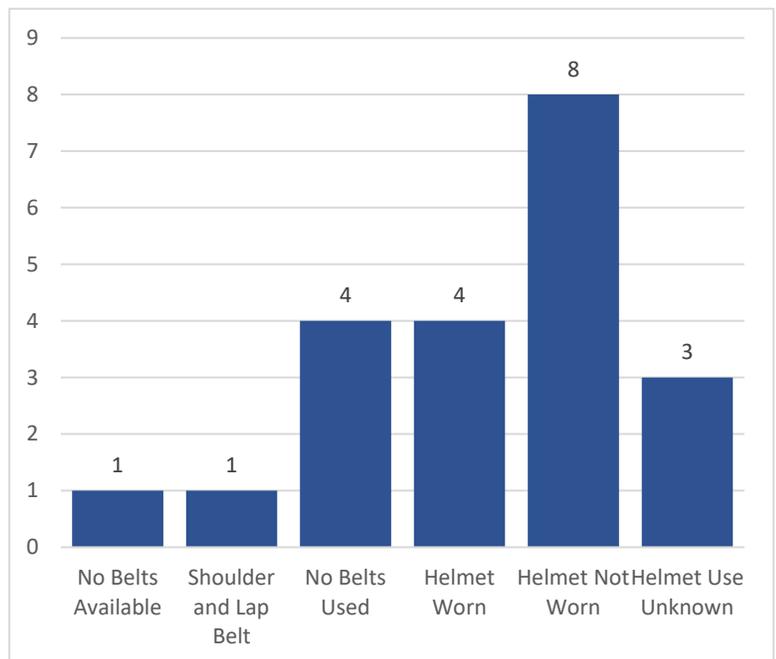
ORV Involved Traffic Crash Statistics for 2018-2022

	2018	2019	2020	2021	2022
Total ORV Involved Crashes	277	284	442	436	460
Total ORV Involved Fatal Crashes	15	7	15	21	21
Total ORV Rider Fatalities	15	7	15	21	21

Age and Gender for ORV Rider Fatalities

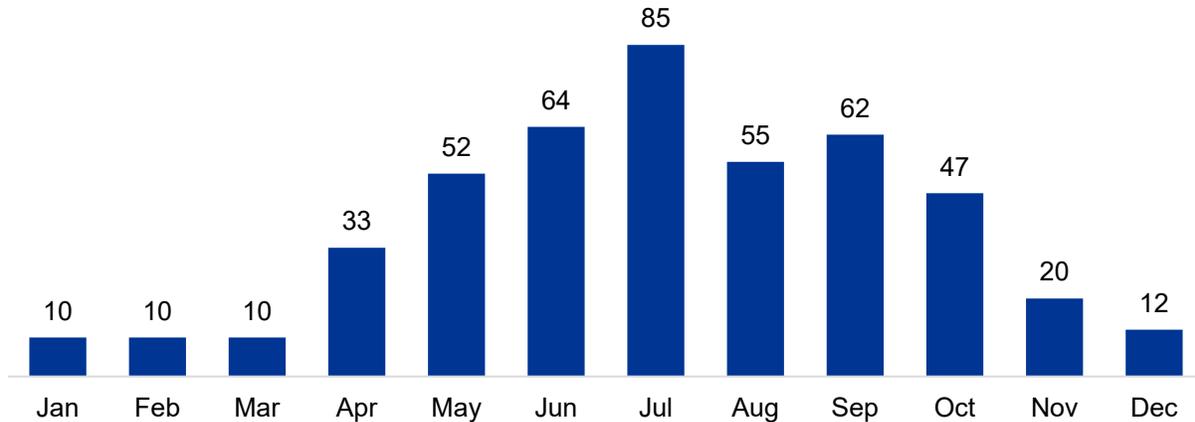
Age Range	Total	Male	Female	Non-Binary
< 1	0	0	0	0
1-3	0	0	0	0
4-10	0	0	0	0
11-15	1	0	1	0
16-20	4	4	0	0
21-24	0	0	0	0
25-34	2	2	0	0
35-44	3	3	0	0
45-54	3	3	0	0
55-64	2	2	0	0
65-74	4	3	1	0
75-84	2	2	0	0
85-94	0	0	0	0
> 95	0	0	0	0
Not Reported	0	0	0	0
Total:	21	19	2	0
Percentage:		90.48%	9.52%	0.00%

Restraint Use for ORV Rider Fatalities

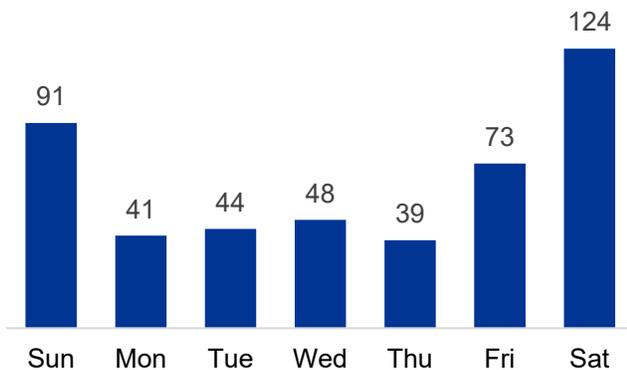


Both charts include only ORV rider fatality totals.

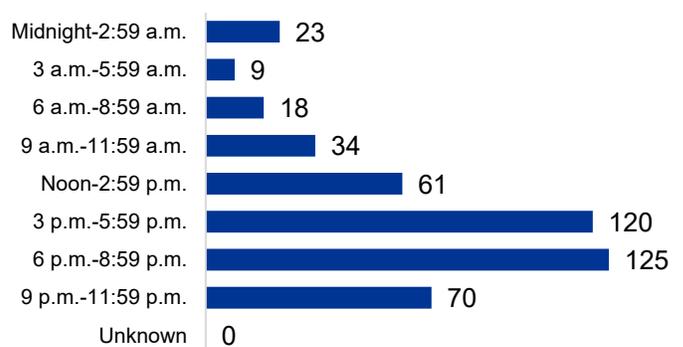
ORV Involved Traffic Crashes by Month



ORV Involved Traffic Crashes by Day of Week



ORV Involved Traffic Crashes by Time of Day



ORV Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Alcona County	3	0	0	3	4	0
Alger County	3	0	0	1	1	2
Allegan County	4	1	1	3	4	0
Alpena County	4	0	0	3	7	1
Antrim County	7	0	0	5	5	2
Arenac County	2	0	0	1	1	1
Baraga County	3	0	0	3	5	0
Barry County	4	0	0	4	6	0
Bay County	2	0	0	1	2	1
Benzie County	2	0	0	1	1	1

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Berrien County	4	0	0	3	3	1
Branch County	2	0	0	1	1	1
Calhoun County	1	0	0	1	1	0
Cass County	2	0	0	2	2	0
Charlevoix County	2	0	0	2	2	0
Cheboygan County	12	2	2	10	14	0
Chippewa County	5	0	0	4	7	1
Clare County	10	0	0	9	13	1
Clinton County	5	0	0	4	6	1
Crawford County	6	0	0	6	7	0
Delta County	5	1	1	2	3	2
Dickinson County	4	0	0	3	3	1
Eaton County	1	0	0	0	0	1
Emmet County	1	1	1	0	0	0
Genesee County	14	2	2	8	12	4
Gladwin County	7	1	1	5	8	1
Gogebic County	3	0	0	2	3	1
Grand Traverse County	4	0	0	2	2	2
Gratiot County	2	0	0	2	2	0
Hillsdale County	3	0	0	3	4	0
Houghton County	7	0	0	3	4	4
Huron County	5	0	0	3	3	2
Ingham County	2	0	0	1	1	1
Ionia County	7	1	1	3	4	3
Iosco County	1	0	0	0	0	1
Iron County	5	0	0	4	5	1
Isabella County	5	0	0	4	4	1
Jackson County	4	0	0	2	2	2
Kalamazoo County	6	0	0	1	1	5
Kalkaska County	12	0	0	7	7	5
Kent County	13	0	0	8	11	5
Keweenaw County	1	0	0	1	1	0
Lake County	9	0	0	6	8	3
Lapeer County	9	0	0	5	8	4
Leelanau County	1	0	0	1	1	0
Lenawee County	3	0	0	2	2	1
Livingston County	6	0	0	6	7	0
Luce County	8	0	0	4	5	4

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Mackinac County	1	0	0	1	1	0
Macomb County	14	1	1	8	8	5
Manistee County	3	0	0	2	3	1
Marquette County	6	0	0	3	4	3
Mason County	5	0	0	5	6	0
Mecosta County	5	1	1	3	4	1
Menominee County	2	1	1	1	2	0
Midland County	3	1	1	1	2	1
Missaukee County	4	0	0	3	3	1
Monroe County	7	0	0	5	5	2
Montcalm County	7	0	0	7	8	0
Montmorency County	1	0	0	1	1	0
Muskegon County	3	0	0	3	3	0
Newaygo County	5	0	0	3	3	2
Oakland County	9	1	1	7	10	1
Oceana County	3	0	0	3	4	0
Ogemaw County	3	1	1	2	3	0
Ontonagon County	4	0	0	4	4	0
Osceola County	6	1	1	4	5	1
Oscoda County	4	1	1	1	1	2
Otsego County	2	0	0	2	4	0
Ottawa County	5	0	0	3	6	2
Presque Isle County	8	0	0	8	8	0
Roscommon County	14	1	1	11	12	2
Saginaw County	12	1	1	5	8	6
Sanilac County	17	0	0	9	13	8
Schoolcraft County	4	1	1	3	3	0
Shiawassee County	2	0	0	2	2	0
St. Clair County	13	0	0	13	16	0
St. Joseph County	3	0	0	2	3	1
Tuscola County	7	1	1	4	6	2
Van Buren County	2	0	0	1	1	1
Washtenaw County	4	0	0	3	4	1
Wayne County	38	0	0	29	31	9
Wexford County	3	0	0	3	4	0
Total:	460	21	21	320	404	119

2022 Snowmobile Involved Crashes

Description: A snowmobile is defined as any motor driven vehicle designed for travel primarily on snow or ice of a type which utilizes sled runners or skis, or an endless belt tread or any combination of these or other similar means of contact with the surface upon which it is operated; but is not a vehicle which must be registered under Act No. 300 of the Public Acts of 1949, as amended, being section 257.1 to 257.923 of the Michigan Compiled Laws (MCL 324.82101).

2022 Summary:

- Snowmobile involved fatalities increased 80 percent, from 5 in 2021, to 9 in 2022.
- 77.78 percent of snowmobile rider fatalities were reported as males.
- January had the highest number of snowmobile involved crashes with 40 total crashes.
- Saturdays had the highest number of snowmobile involved crashes.
- The majority of snowmobile involved crashes occurred between noon and 2:59 p.m.

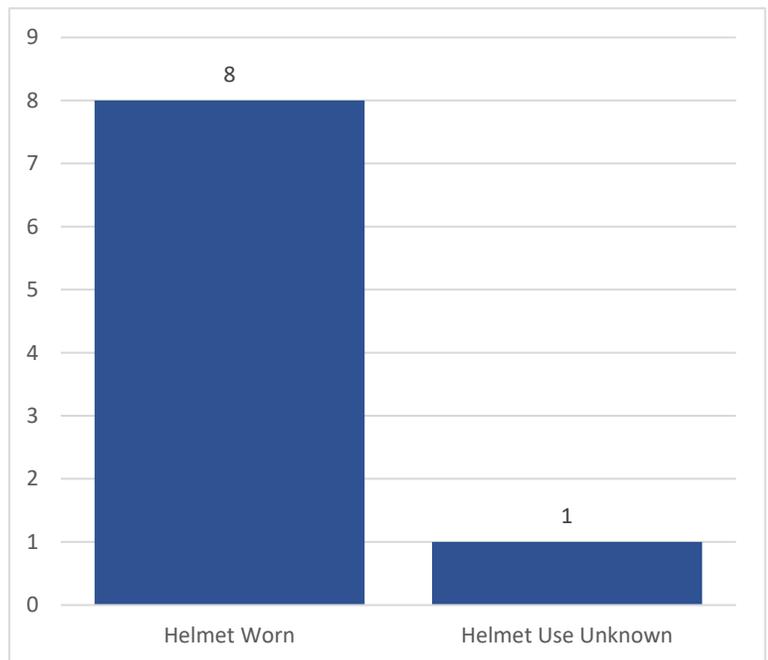
Snowmobile Involved Traffic Crash Statistics for 2018-2022

	2018	2019	2020	2021	2022
Total Snowmobile Involved Crashes	74	132	89	97	95
Total Snowmobile Involved Fatal Crashes	0	7	2	5	9
Total Snowmobile Rider Fatalities	0	8	2	5	9

Age and Gender for Snowmobile Rider Fatalities

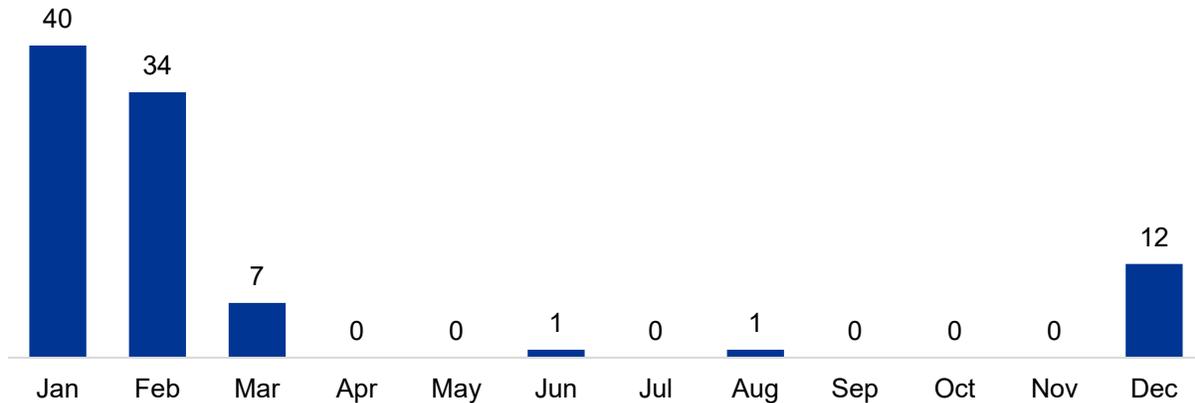
Age Range	Total	Male	Female	Non-Binary
< 1	0	0	0	0
1-3	0	0	0	0
4-10	0	0	0	0
11-15	0	0	0	0
16-20	0	0	0	0
21-24	0	0	0	0
25-34	0	0	0	0
35-44	1	1	0	0
45-54	3	2	1	0
55-64	5	4	1	0
65-74	0	0	0	0
75-84	0	0	0	0
85-94	0	0	0	0
> 95	0	0	0	0
Not Reported	0	0	0	0
Total:	9	7	2	0
Percentage:		77.78%	22.22%	0.00%

Helmet Use for Snowmobile Rider Fatalities

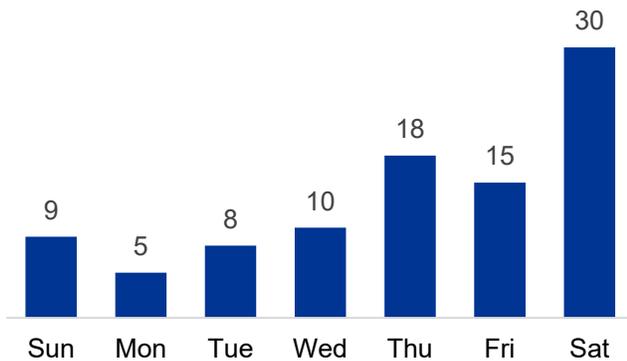


Both charts include only snowmobile rider fatality totals.

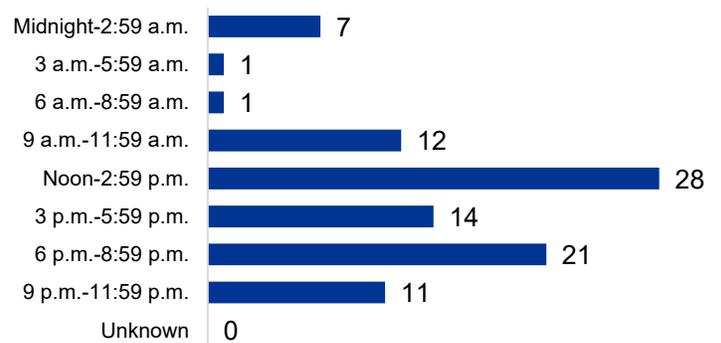
Snowmobile Involved Traffic Crashes by Month



Snowmobile Involved Traffic Crashes by Day of Week



Snowmobile Involved Traffic Crashes by Time of Day



Snowmobile Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Alcona County	1	1	1	0	0	0
Alger County	20	1	1	5	5	14
Allegan County	2	0	0	2	2	0
Baraga County	1	0	0	0	0	1
Calhoun County	1	1	1	0	1	0
Cass County	1	0	0	1	2	0
Charlevoix County	3	0	0	2	2	1
Cheboygan County	2	0	0	1	1	1

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Chippewa County	9	0	0	6	6	3
Crawford County	2	0	0	2	2	0
Emmet County	1	0	0	0	0	1
Genesee County	1	0	0	1	1	0
Grand Traverse County	1	1	1	0	0	0
Houghton County	3	0	0	2	2	1
Huron County	2	0	0	2	2	0
Kalkaska County	3	0	0	1	1	2
Kent County	2	1	1	1	1	0
Lake County	2	0	0	2	2	0
Livingston County	1	0	0	0	0	1
Luce County	3	1	1	2	3	0
Mackinac County	4	1	1	2	2	1
Marquette County	3	0	0	1	1	2
Mason County	1	0	0	1	1	0
Missaukee County	1	0	0	1	1	0
Monroe County	1	0	0	1	1	0
Montcalm County	1	0	0	1	1	0
Oakland County	1	0	0	0	0	1
Oceana County	1	0	0	0	0	1
Ontonagon County	5	0	0	3	3	2
Otsego County	2	0	0	2	2	0
Presque Isle County	1	0	0	0	0	1
Roscommon County	3	0	0	3	3	0
Saginaw County	2	1	1	1	1	0
Schoolcraft County	5	0	0	5	5	0
Shiawassee County	1	0	0	1	1	0
St. Clair County	1	0	0	1	1	0
Tuscola County	1	1	1	0	0	0
Total:	95	9	9	53	56	33

Note: Only counties that reported snowmobile traffic crashes in 2022 are listed above. Non-traffic snowmobile crashes are not included in this table.

2022 Deer Involved Crashes

Description: If a deer is involved in a crash or is a contributing factor in a crash, the responding Law Enforcement Official must report the deer involved in the crash. This includes a deer making physical contact with the motor vehicle or a driver causing a collision due to avoidance of a deer within the roadway.

2022 Summary:

- Deer involved fatalities increased 10 percent, from 10 in 2021, to 11 in 2022.
- November had the highest number of deer involved crashes with 10,923 total crashes.
- Tuesdays had the highest number of deer involved crashes.
- There were 58,984 total deer involved crashes in 2022, and only 65,830 total individuals involved in these crashes, indicating that most deer involved crashes involved single occupant vehicles.
- The majority of deer involved crashes occurred between 6 p.m. and 8:59 p.m.

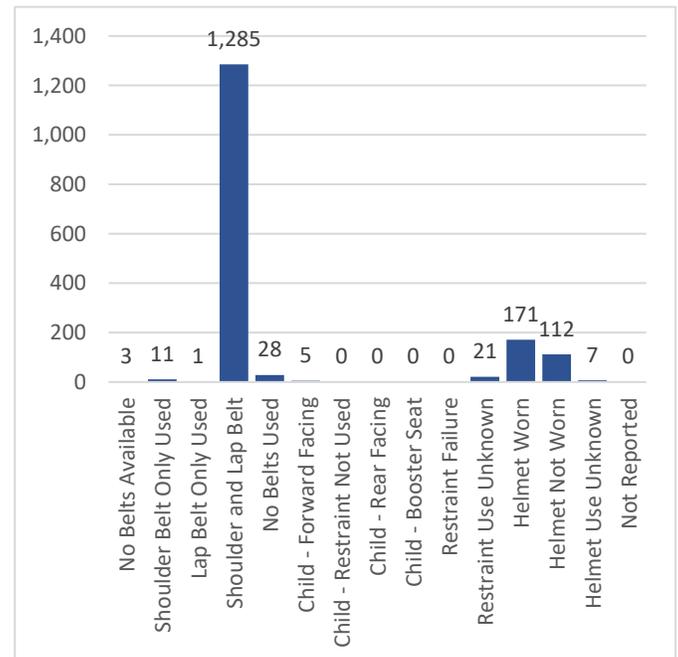
Deer Involved Traffic Crash Statistics for 2018-2022

	2018	2019	2020	2021	2022
Total Deer Involved Crashes	53,464	55,531	51,103	52,218	58,984
Total Deer Involved Fatal Crashes	14	12	5	10	11
Total Deer Involved Fatalities	14	12	5	10	11

Age and Gender for Deer Involved Crashes

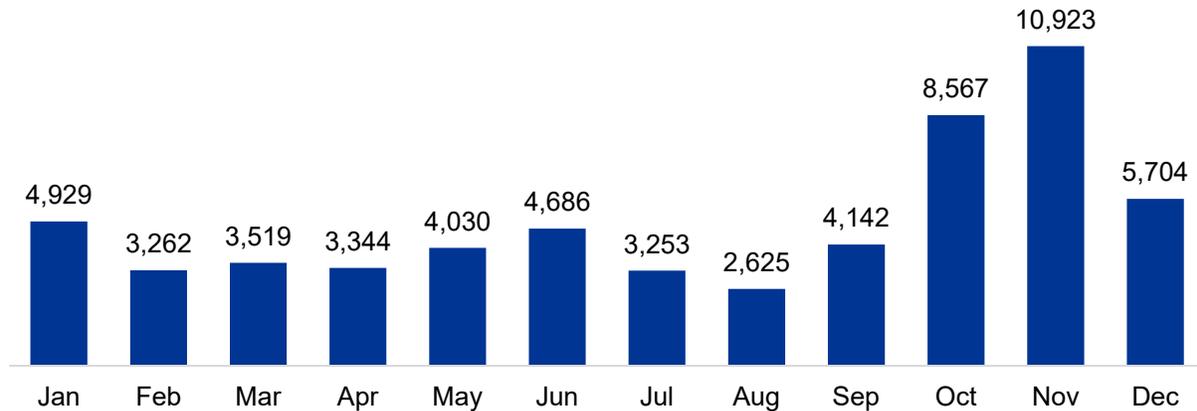
Age Range	Total	Male	Female	Non-Binary	Unknown
< 1	85	42	43	0	0
1-3	329	173	155	0	1
4-10	681	346	335	0	0
11-15	730	361	367	0	2
16-20	4,798	2,655	2,141	1	1
21-24	4,914	2,782	2,128	3	1
25-34	12,429	6,959	5,468	1	1
35-44	11,990	6,383	5,607	0	0
45-54	11,468	6,341	5,126	0	1
55-64	10,498	5,839	4,656	1	2
65-74	5,734	3,454	2,278	0	2
75-84	1,909	1,194	714	0	1
85-94	210	135	75	0	0
> 95	9	6	3	0	0
Not Reported	46	3	2	0	41
Total:	65,830	36,673	29,098	6	53
Percentage:		55.71%	44.20%	0.01%	0.08%

Restraint Use for Deer Involved Crashes

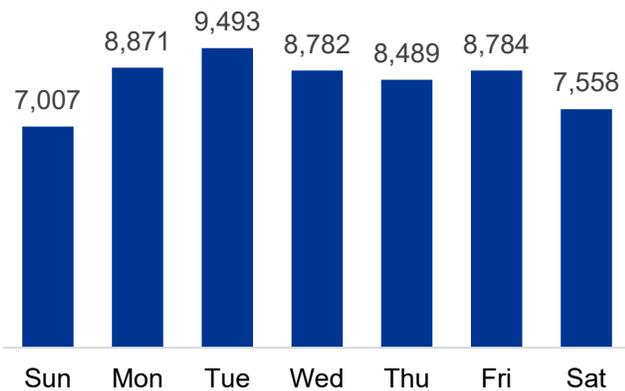


Both charts include all party types involved in a deer involved crash (driver, passenger, pedestrian, bicyclist or engineer (train)). Only fatal and injured persons are included in the restraint use statistics.

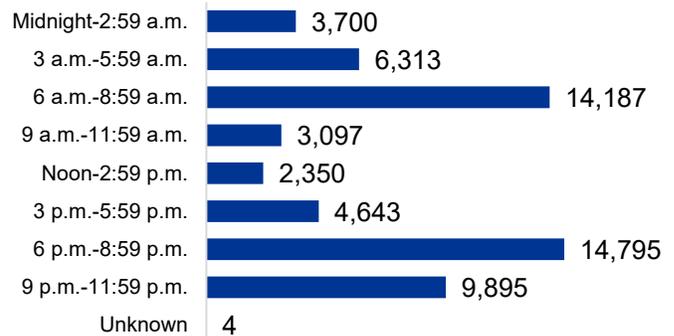
Deer Involved Traffic Crashes by Month



Deer Involved Traffic Crashes by Day of Week



Deer Involved Traffic Crashes by Time of Day



Deer Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Alcona County	470	0	0	8	8	462
Alger County	100	0	0	3	3	97
Allegan County	1,491	0	0	31	35	1,460
Alpena County	334	0	0	13	14	321
Antrim County	513	0	0	5	6	508
Arenac County	452	0	0	14	14	438
Baraga County	181	0	0	1	1	180
Barry County	817	0	0	12	13	805

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Bay County	629	0	0	13	15	616
Benzie County	293	0	0	3	3	290
Berrien County	1,045	0	0	45	53	1,000
Branch County	952	0	0	26	29	926
Calhoun County	1,267	0	0	32	36	1,235
Cass County	629	0	0	13	16	616
Charlevoix County	607	0	0	5	6	602
Cheboygan County	678	0	0	16	19	662
Chippewa County	319	0	0	6	6	313
Clare County	544	0	0	13	13	531
Clinton County	1,147	0	0	22	25	1,125
Crawford County	301	0	0	11	16	290
Delta County	568	1	1	7	8	560
Dickinson County	452	0	0	10	13	442
Eaton County	734	0	0	31	33	703
Emmet County	542	1	1	10	10	531
Genesee County	1,459	0	0	48	53	1,411
Gladwin County	534	0	0	6	6	528
Gogebic County	87	0	0	2	2	85
Grand Traverse County	735	0	0	9	10	726
Gratiot County	955	0	0	19	20	936
Hillsdale County	1,082	0	0	27	32	1,055
Houghton County	214	0	0	6	7	208
Huron County	1,168	1	1	22	26	1,145
Ingham County	968	0	0	52	60	916
Ionia County	612	0	0	13	13	599
Iosco County	363	1	1	9	9	353
Iron County	302	0	0	6	6	296
Isabella County	1,089	0	0	16	17	1,073
Jackson County	1,652	3	3	41	48	1,608
Kalamazoo County	1,160	0	0	46	50	1,114
Kalkaska County	293	0	0	9	10	284
Kent County	2,250	0	0	67	74	2,183
Keweenaw County	15	0	0	0	0	15
Lake County	204	0	0	9	9	195
Lapeer County	1,500	0	0	23	27	1,477
Leelanau County	355	0	0	4	5	351
Lenawee County	851	0	0	30	32	821
Livingston County	1,024	0	0	42	46	982
Luce County	78	0	0	2	2	76

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Mackinac County	242	0	0	2	4	240
Macomb County	659	0	0	20	21	639
Manistee County	545	0	0	2	2	543
Marquette County	458	0	0	10	10	448
Mason County	726	1	1	18	22	707
Mecosta County	887	0	0	18	18	869
Menominee County	61	0	0	11	12	50
Midland County	1,080	1	1	29	32	1,050
Missaukee County	440	0	0	4	4	436
Monroe County	533	0	0	15	16	518
Montcalm County	815	0	0	21	23	794
Montmorency County	268	0	0	7	9	261
Muskegon County	763	0	0	18	20	745
Newaygo County	753	0	0	13	15	740
Oakland County	2,009	1	1	78	90	1,930
Oceana County	652	0	0	22	24	630
Ogemaw County	453	0	0	16	20	437
Ontonagon County	201	0	0	3	3	198
Osceola County	654	0	0	12	14	642
Oscoda County	159	1	1	1	1	157
Otsego County	358	0	0	7	7	351
Ottawa County	1,511	0	0	35	37	1,476
Presque Isle County	465	0	0	8	8	457
Roscommon County	311	0	0	3	3	308
Saginaw County	1,301	0	0	19	23	1,282
Sanilac County	1,145	0	0	19	21	1,126
Schoolcraft County	224	0	0	11	12	213
Shiawassee County	1,086	0	0	23	29	1,063
St. Clair County	1,190	0	0	27	31	1,163
St. Joseph County	640	0	0	24	24	616
Tuscola County	1,164	0	0	16	17	1,148
Van Buren County	893	0	0	28	31	865
Washtenaw County	1,279	0	0	36	39	1,243
Wayne County	547	0	0	19	19	528
Wexford County	497	0	0	13	13	484
Total:	58,984	11	11	1,466	1,633	57,507

2022 Truck / Bus Involved Crashes

Description: A Truck / Bus unit is reported on the UD-10 when any of the following are involved in the crash:

- A commercial truck or truck/trailer having a GVWR or GCWR of 10,001 pounds or more, whichever is greater.
- Any vehicle designed or used to transport more than eight passengers including the driver. This can include city buses, school buses, limousines, and courtesy vans.
- Any vehicle displaying or requiring a hazardous material placard, regardless of weight. This can include automobiles, vans, and pick-up trucks.

2022 Summary:

- Truck / Bus involved fatalities increased two percent, from 103 in 2021, to 105 in 2022.
- November had the highest number of Truck / Bus involved crashes with 1,513 total crashes.
- Fridays had the highest number of Truck / Bus involved crashes.
- The majority of Truck / Bus involved crashes occurred between noon and 2:59 p.m.

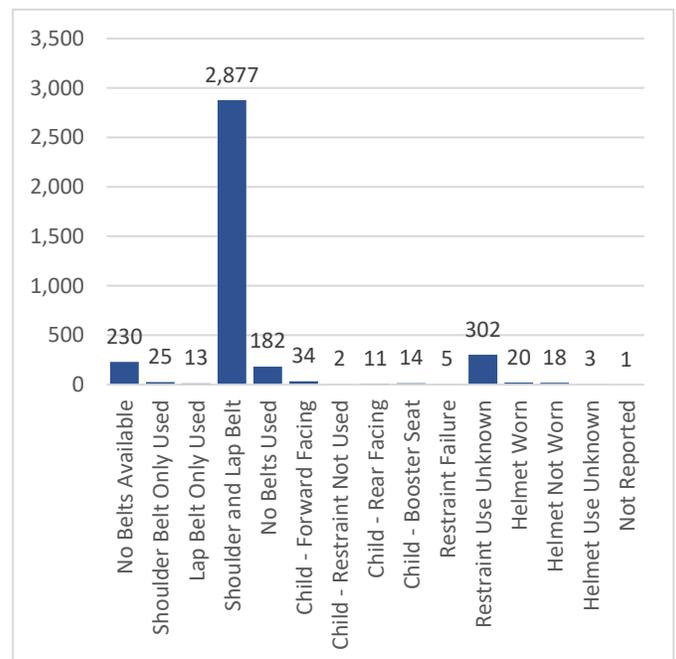
Truck / Bus Involved Traffic Crash Statistics for 2018-2022

	2018	2019	2020	2021	2022
Total Truck / Bus Involved Crashes	14,803	15,799	11,344	14,293	15,802
Total Truck / Bus Involved Fatal Crashes	102	98	77	93	96
Total Truck / Bus Involved Fatalities	112	106	78	103	105

Age and Gender for Truck / Bus Involved Crashes

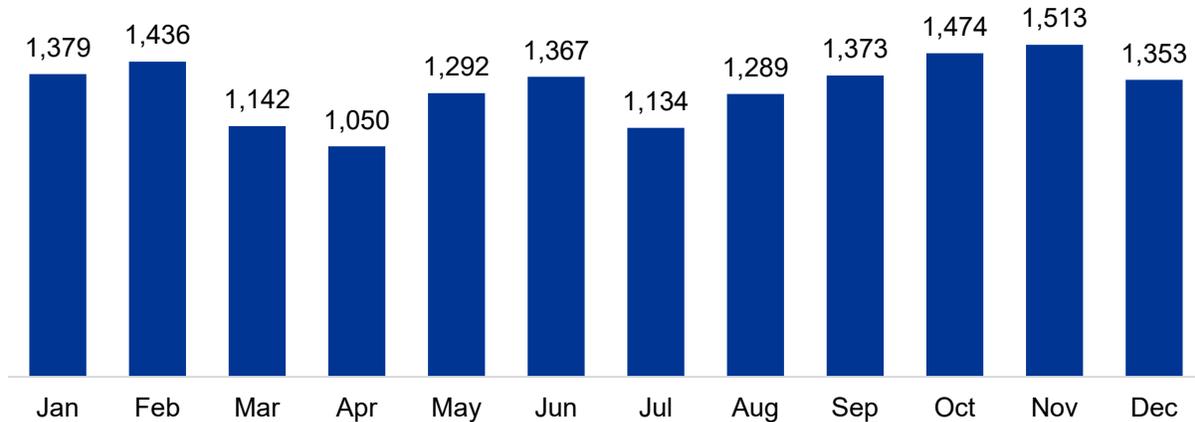
Age Range	Total	Male	Female	Non-Binary	Unknown
< 1	124	75	49	0	0
1-3	184	92	92	0	0
4-10	735	385	346	0	4
11-15	757	406	349	0	2
16-20	2,034	1,223	811	0	0
21-24	2,543	1,764	769	1	9
25-34	6,843	5,137	1,699	1	6
35-44	5,774	4,390	1,383	0	1
45-54	5,726	4,431	1,291	0	4
55-64	5,360	4,122	1,235	0	3
65-74	2,318	1,596	722	0	0
75-84	742	440	302	0	0
85-94	149	78	70	0	1
> 95	8	3	3	0	2
Not Reported	2,401	112	34	0	2,255
Total:	35,698	24,254	9,155	2	2,287
Percentage:		67.94%	25.65%	0.01%	6.41%

Restraint Use for Truck / Bus Involved Crashes

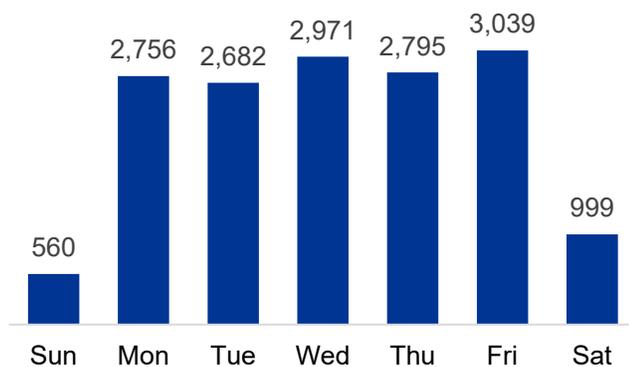


Both charts include all party types involved in a Truck / Bus involved crash (driver, passenger, pedestrian, bicyclist or engineer (train)). Only fatal and injured persons are included in the restraint use statistics.

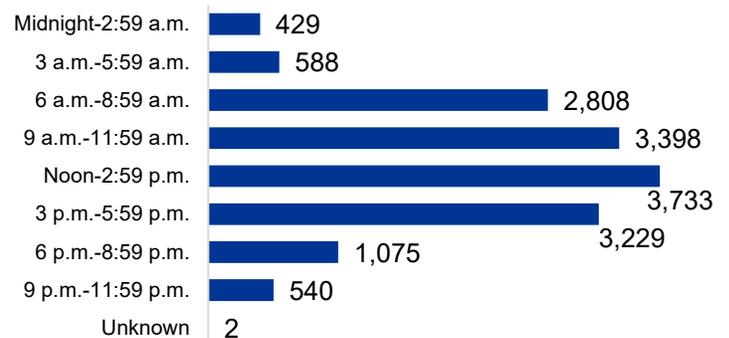
Truck / Bus Involved Traffic Crashes by Month



Truck / Bus Involved Traffic Crashes by Day of Week



Truck / Bus Involved Traffic Crashes by Time of Day



Truck / Bus Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Alcona County	15	0	0	1	1	14
Alger County	11	0	0	0	0	11
Allegan County	306	3	3	48	73	255
Alpena County	25	1	1	6	7	18
Antrim County	34	0	0	5	6	29
Arenac County	28	1	1	3	5	24
Baraga County	10	1	1	2	3	7
Barry County	65	2	2	13	21	50

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Bay County	113	3	5	19	31	91
Benzie County	15	0	0	0	0	15
Berrien County	373	0	0	66	81	307
Branch County	51	0	0	6	11	45
Calhoun County	282	2	2	38	58	242
Cass County	79	2	2	22	35	55
Charlevoix County	31	1	1	10	18	20
Cheboygan County	29	0	0	3	3	26
Chippewa County	35	2	2	5	7	28
Clare County	29	1	1	5	7	23
Clinton County	131	1	1	14	19	116
Crawford County	21	0	0	4	4	17
Delta County	42	0	0	9	9	33
Dickinson County	22	0	0	7	9	15
Eaton County	173	2	2	29	38	142
Emmet County	37	0	0	6	9	31
Genesee County	457	1	1	90	124	366
Gladwin County	19	0	0	1	1	18
Gogebic County	13	0	0	3	5	10
Grand Traverse County	160	3	3	33	52	124
Gratiot County	57	1	1	8	11	48
Hillsdale County	53	0	0	12	19	41
Houghton County	45	0	0	6	6	39
Huron County	40	1	1	8	9	31
Ingham County	374	1	1	59	81	314
Ionia County	100	1	1	15	20	84
Iosco County	22	0	0	2	2	20
Iron County	9	0	0	0	0	9
Isabella County	60	1	1	6	27	53
Jackson County	288	1	1	53	76	234
Kalamazoo County	508	3	3	61	88	444
Kalkaska County	20	0	0	2	2	18
Kent County	1,194	7	8	184	241	1,003
Keweenaw County	2	0	0	0	0	2
Lake County	12	0	0	1	1	11
Lapeer County	103	1	1	25	29	77
Leelanau County	27	0	0	4	5	23
Lenawee County	103	0	0	21	35	82
Livingston County	296	1	2	42	56	253
Luce County	7	0	0	3	5	4

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Mackinac County	24	1	1	6	8	17
Macomb County	1,353	3	3	230	308	1,120
Manistee County	30	0	0	4	5	26
Marquette County	73	2	2	8	14	63
Mason County	35	0	0	2	3	33
Mecosta County	51	2	2	7	11	42
Menominee County	29	0	0	6	7	23
Midland County	82	0	0	12	15	70
Missaukee County	30	0	0	6	11	24
Monroe County	375	3	3	73	98	299
Montcalm County	67	2	2	18	23	47
Montmorency County	8	0	0	0	0	8
Muskegon County	150	3	3	24	33	123
Newaygo County	36	0	0	6	8	30
Oakland County	1,871	6	7	295	398	1,570
Oceana County	30	0	0	4	6	26
Ogemaw County	28	0	0	7	9	21
Ontonagon County	6	0	0	0	0	6
Osceola County	45	1	1	12	16	32
Oscoda County	1	0	0	1	1	0
Otsego County	38	0	0	4	4	34
Ottawa County	510	4	4	84	103	422
Presque Isle County	5	0	0	0	0	5
Roscommon County	24	0	0	1	2	23
Saginaw County	207	2	2	34	45	171
Sanilac County	39	0	0	8	18	31
Schoolcraft County	19	0	0	4	4	15
Shiawassee County	87	0	0	17	21	70
St. Clair County	163	0	0	15	20	148
St. Joseph County	109	3	4	22	31	84
Tuscola County	64	1	2	12	13	51
Van Buren County	161	1	1	34	45	126
Washtenaw County	588	3	4	88	121	497
Wayne County	3,474	14	15	590	868	2,870
Wexford County	64	1	1	10	13	53
Total:	15,802	96	105	2,604	3,632	13,102

2022 School Bus Involved Crashes

Description: A school bus crash is documented on the UD-10 in situations where a school bus is related to the crash in any way. This includes where the school bus was a contact vehicle or where other units crash due to the presence and influence of a school bus, even though the bus itself was not a contact unit.

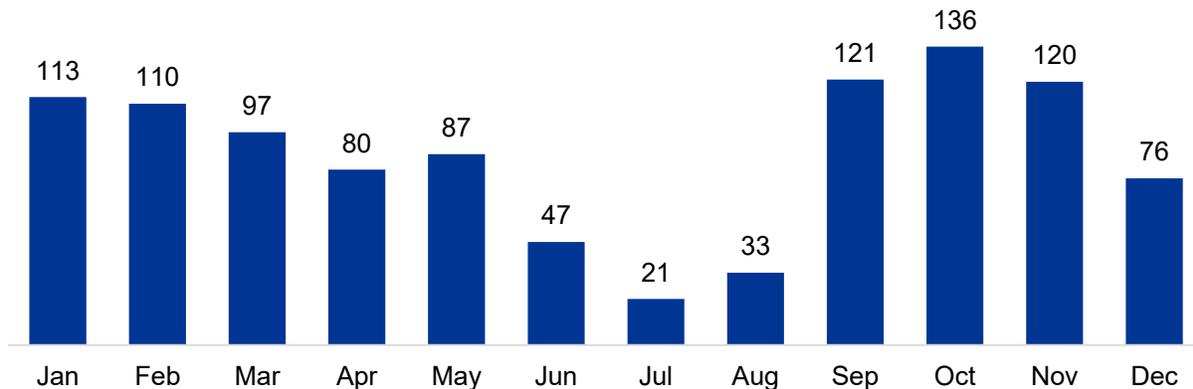
2022 Summary:

- School bus involved crashes increased 33 percent, from 785 in 2021, to 1,041 in 2022.
- Fatalities involving a school bus decreased by 50 percent, from four in 2021 to two in 2022.
- October had the highest number of school bus involved crashes with 136.
- Mondays had the highest number of school bus involved crashes.
- The majority of school bus involved crashes occurred between 6 a.m. and 8:59 a.m.

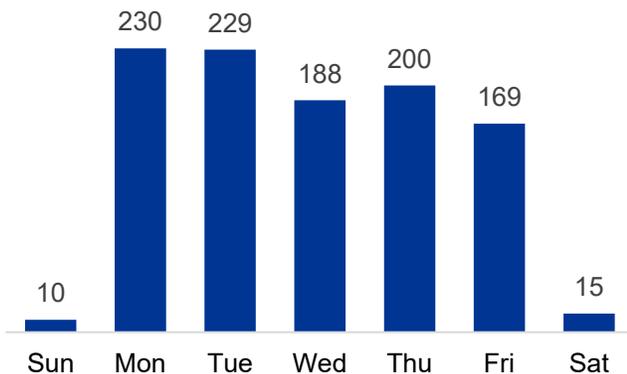
School Bus Involved Traffic Crash Statistics for 2018-2022

	2018	2019	2020	2021	2022
Total School Bus Involved Crashes	1,073	1,197	461	785	1,041
Total School Bus Involved Fatal Crashes	4	6	0	4	2
Total School Bus Involved Fatalities	5	6	0	4	2

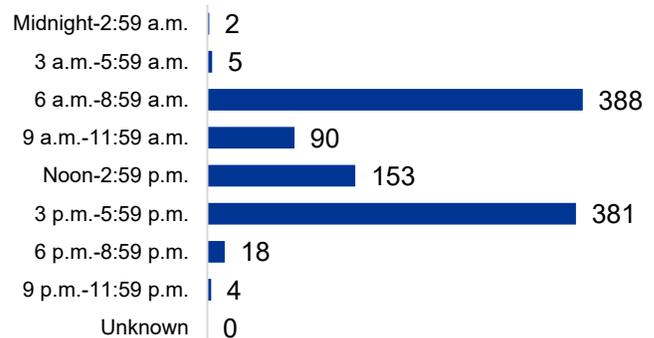
School Bus Involved Traffic Crashes by Month



School Bus Involved Traffic Crashes by Day of Week



School Bus Involved Traffic Crashes by Time of Day



School Bus Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Alcona County	2	0	0	0	0	2
Allegan County	17	0	0	4	10	13
Alpena County	5	0	0	2	2	3
Antrim County	3	0	0	3	4	0
Arenac County	1	0	0	0	0	1
Barry County	9	0	0	2	4	7
Bay County	10	0	0	3	7	7
Berrien County	17	0	0	2	2	15
Branch County	7	0	0	1	3	6
Calhoun County	12	0	0	3	8	9
Cass County	8	0	0	3	5	5
Charlevoix County	3	0	0	1	4	2
Chippewa County	3	0	0	0	0	3
Clare County	2	0	0	1	1	1
Clinton County	7	0	0	1	1	6
Crawford County	1	0	0	0	0	1
Delta County	4	0	0	0	0	4
Eaton County	8	0	0	1	1	7
Emmet County	2	0	0	0	0	2
Genesee County	51	0	0	6	7	45
Gladwin County	2	0	0	0	0	2
Gogebic County	2	0	0	1	3	1
Grand Traverse County	13	0	0	2	3	11
Hillsdale County	5	0	0	1	1	4
Houghton County	6	0	0	0	0	6
Huron County	2	0	0	0	0	2
Ingham County	24	0	0	4	8	20
Ionia County	3	0	0	1	1	2
Isabella County	7	0	0	3	22	4
Jackson County	18	0	0	5	9	13
Kalamazoo County	39	0	0	3	4	36
Kalkaska County	1	0	0	0	0	1
Kent County	70	0	0	10	14	60
Lake County	1	0	0	0	0	1
Lapeer County	9	0	0	2	2	7
Leelanau County	3	0	0	1	2	2

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Lenawee County	10	0	0	1	9	9
Livingston County	21	0	0	3	3	18
Macomb County	122	0	0	10	18	112
Manistee County	3	0	0	1	1	2
Marquette County	6	0	0	1	2	5
Mason County	3	0	0	0	0	3
Midland County	10	0	0	4	6	6
Missaukee County	1	0	0	1	1	0
Monroe County	19	0	0	1	1	18
Montcalm County	2	0	0	0	0	2
Montmorency County	3	0	0	0	0	3
Muskegon County	19	0	0	6	10	13
Newaygo County	5	0	0	2	4	3
Oakland County	115	0	0	11	19	104
Oceana County	1	0	0	0	0	1
Ogemaw County	1	0	0	1	1	0
Osceola County	2	0	0	0	0	2
Otsego County	2	0	0	0	0	2
Ottawa County	32	1	1	4	8	27
Saginaw County	13	0	0	2	6	11
Sanilac County	3	0	0	1	8	2
Schoolcraft County	1	0	0	0	0	1
Shiawassee County	9	0	0	4	7	5
St. Clair County	16	0	0	1	3	15
St. Joseph County	5	0	0	0	0	5
Tuscola County	1	0	0	0	0	1
Van Buren County	11	0	0	2	2	9
Washtenaw County	21	0	0	1	1	20
Wayne County	203	1	1	27	50	175
Wexford County	4	0	0	0	0	4
Total:	1,041	2	2	150	288	889

2022 Train Involved Crashes

Description: The State of Michigan requires that all crashes involving a train and other motor vehicles be reported on a UD-10. The Michigan Department of Transportation reported that there are currently 29 railroads operating either wholly or partially in Michigan.

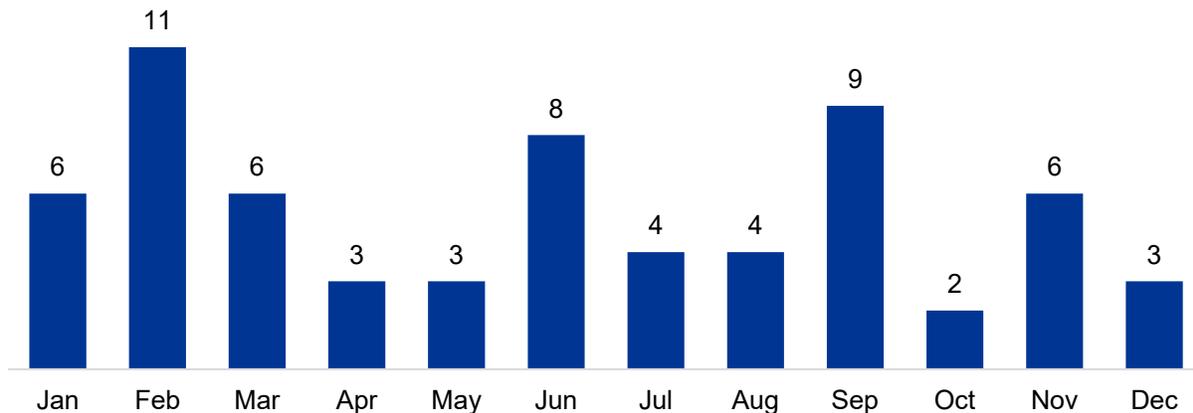
2022 Summary:

- Train involved crashes increased 16 percent, from 56 in 2021, to 65 in 2022.
- Fatalities involving a train also increased 33 percent, from three in 2021, to four in 2022.
- There were three traffic crashes involving the Q-LINE (streetcar) in 2021, and nine Q-LINE (streetcar) crashes in 2022.
- Wednesdays had the highest number of train involved crashes.
- The majority of train involved crashes occurred between 9 a.m. and 11:59 a.m.

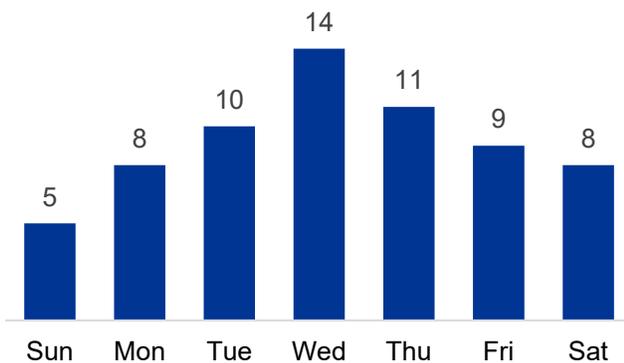
Train Involved Traffic Crash Statistics for 2018-2022

	2018	2019	2020	2021	2022
Total Train Involved Crashes	72	53	35	56	65
Total Train Involved Fatal Crashes	0	4	0	3	3
Total Train Involved Fatalities	0	7	0	3	4

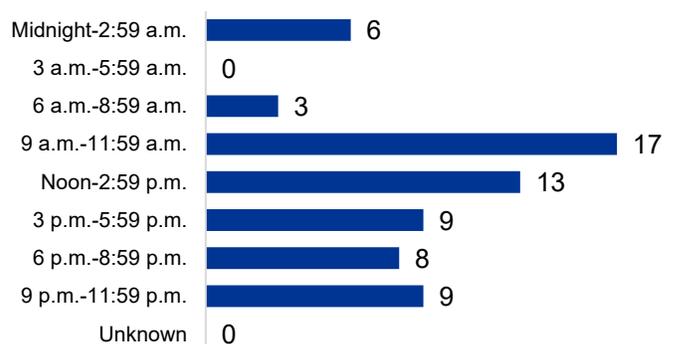
Train Involved Traffic Crashes by Month



Train Involved Traffic Crashes by Day of Week



Train Involved Traffic Crashes by Time of Day



Train Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Allegan County	2	0	0	0	0	2
Alpena County	1	0	0	0	0	1
Bay County	1	0	0	0	0	1
Calhoun County	1	0	0	0	0	1
Dickinson County	3	0	0	2	3	1
Eaton County	1	0	0	0	0	1
Genesee County	2	0	0	2	2	0
Gratiot County	3	0	0	3	4	0
Ingham County	1	0	0	0	0	1
Kalamazoo County	2	0	0	0	0	2
Lenawee County	2	0	0	1	1	1
Livingston County	1	0	0	1	1	0
Mackinac County	1	0	0	1	1	0
Macomb County	2	0	0	0	0	2
Menominee County	1	0	0	0	0	1
Monroe County	1	0	0	1	1	0
Newaygo County	1	0	0	1	1	0
Oakland County	3	1	1	1	1	1
Ottawa County	1	0	0	1	1	0
Saginaw County	2	0	0	2	4	0
St. Clair County	1	0	0	0	0	1
St. Joseph County	1	0	0	0	0	1
Tuscola County	1	0	0	0	0	1
Washtenaw County	1	0	0	0	0	1
Wayne County	29	2	3	2	3	25
Total:	65	3	4	18	23	44

2022 Work Zone Involved Crashes

Description: This is used to capture the type of work zone that the crash occurred in, if constructions workers were present, the type of activity that was being performed within the work zone such as lane closures, shoulder work, etc., and where, within the work zone, the crash occurred.

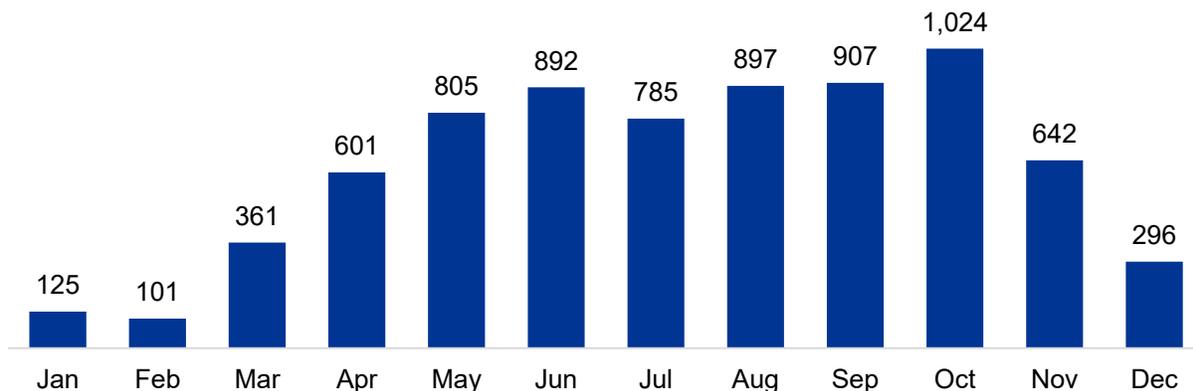
2022 Summary:

- There was a 28 percent increase, from 5,814 in 2021, to 7,436 in 2022, for all work zone involved crashes.
- Work zone involved fatalities increased 15 percent, from 20 in 2021, to 23 in 2022.
- October had the highest number of work zone involved crashes with 1,024 crashes.
- Fridays had the highest number of work zone involved crashes.
- The majority of work zone involved crashes occurred between 3 p.m. and 5:59 p.m.

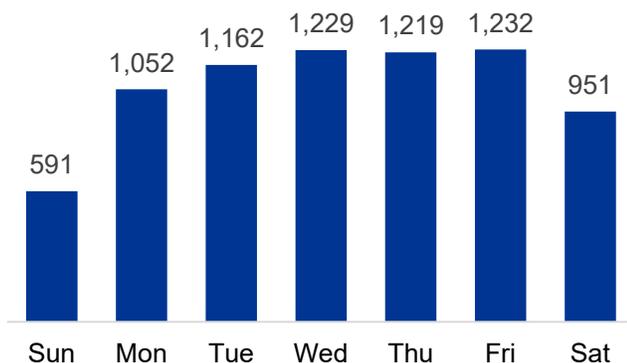
Work Zone Involved Traffic Crash Statistics for 2018-2022

	2018	2019	2020	2021	2022
Total Work Zone Involved Crashes	4,926	5,808	4,035	5,814	7,436
Total Work Zone Involved Fatal Crashes	15	16	11	19	22
Total Work Zone Involved Fatalities	16	17	14	20	23

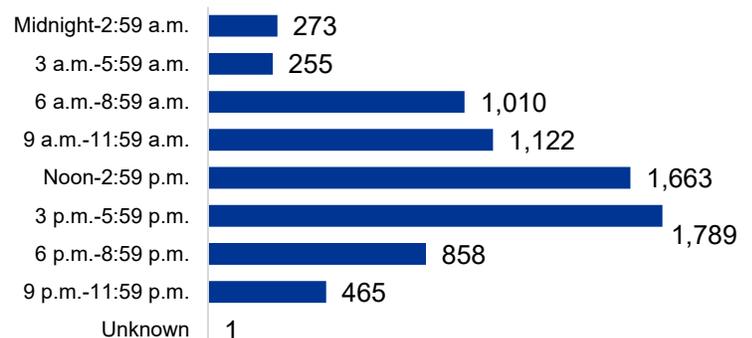
Work Zone Involved Traffic Crashes by Month



Work Zone Involved Traffic Crashes by Day of Week



Work Zone Involved Traffic Crashes by Time of Day



Work Zone Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Alcona County	3	0	0	1	2	2
Alger County	8	0	0	2	5	6
Allegan County	71	1	1	15	23	55
Alpena County	4	0	0	0	0	4
Antrim County	5	0	0	0	0	5
Arenac County	36	0	0	4	6	32
Baraga County	4	0	0	0	0	4
Barry County	4	0	0	2	2	2
Bay County	27	0	0	5	8	22
Benzie County	2	0	0	1	1	1
Berrien County	165	0	0	34	40	131
Branch County	2	0	0	0	0	2
Calhoun County	99	1	1	12	19	86
Cass County	3	0	0	1	3	2
Cheboygan County	12	0	0	0	0	12
Chippewa County	8	0	0	0	0	8
Clare County	6	0	0	1	1	5
Clinton County	85	0	0	19	22	66
Crawford County	5	0	0	3	4	2
Delta County	13	0	0	3	4	10
Dickinson County	2	0	0	0	0	2
Eaton County	60	0	0	10	15	50
Emmet County	7	0	0	0	0	7
Genesee County	262	0	0	54	71	208
Gogebic County	5	0	0	2	3	3
Grand Traverse County	26	0	0	6	9	20
Gratiot County	21	0	0	1	2	20
Hillsdale County	6	0	0	1	1	5
Houghton County	3	0	0	1	3	2
Huron County	2	0	0	1	1	1
Ingham County	365	2	2	67	92	296
Ionia County	10	0	0	1	1	9
Iosco County	5	0	0	1	1	4
Iron County	2	0	0	0	0	2
Isabella County	7	0	0	2	4	5
Jackson County	273	0	0	47	70	226
Kalamazoo County	317	0	0	40	49	277
Kalkaska County	1	0	0	0	0	1

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Kent County	443	1	1	89	124	353
Lapeer County	33	0	0	6	6	27
Lenawee County	8	0	0	4	7	4
Livingston County	118	0	0	18	29	100
Mackinac County	2	0	0	0	0	2
Macomb County	1,130	1	1	223	307	906
Manistee County	6	0	0	1	3	5
Marquette County	23	0	0	1	1	22
Mason County	4	0	0	0	0	4
Mecosta County	12	1	1	3	4	8
Menominee County	5	0	0	0	0	5
Midland County	27	1	1	4	6	22
Monroe County	100	0	0	14	19	86
Montcalm County	2	0	0	1	1	1
Muskegon County	33	0	0	3	6	30
Newaygo County	1	0	0	0	0	1
Oakland County	1,234	5	6	279	392	950
Oceana County	4	0	0	2	3	2
Ogemaw County	1	0	0	0	0	1
Ontonagon County	2	0	0	0	0	2
Osceola County	2	0	0	1	1	1
Otsego County	3	0	0	0	0	3
Ottawa County	242	1	1	22	26	219
Roscommon County	3	0	0	0	0	3
Saginaw County	36	0	0	9	14	27
Sanilac County	8	0	0	3	3	5
Schoolcraft County	4	0	0	0	0	4
Shiawassee County	12	0	0	2	2	10
St. Clair County	49	0	0	7	9	42
St. Joseph County	8	0	0	4	5	4
Tuscola County	3	0	0	0	0	3
Van Buren County	16	0	0	0	0	16
Washtenaw County	99	1	1	16	23	82
Wayne County	1,826	7	7	385	512	1,434
Wexford County	1	0	0	1	1	0
Total:	7,436	22	23	1,435	1,966	5,979

2022 Police–Ambulance–Fire Involved Crashes

Description: Police, Ambulance and Fire vehicles are entered as special vehicles on the UD-10. Police is selected if the vehicle is owned by a government law enforcement agency and in all cases where the vehicle is being used for routine patrol, in pursuit of a fleeing vehicle, or responding to an emergency call. Fire is selected only when the vehicle is owned by a fire department (including volunteer fire department) and ambulance is selected when the vehicle is a privately or publicly owned ambulance.

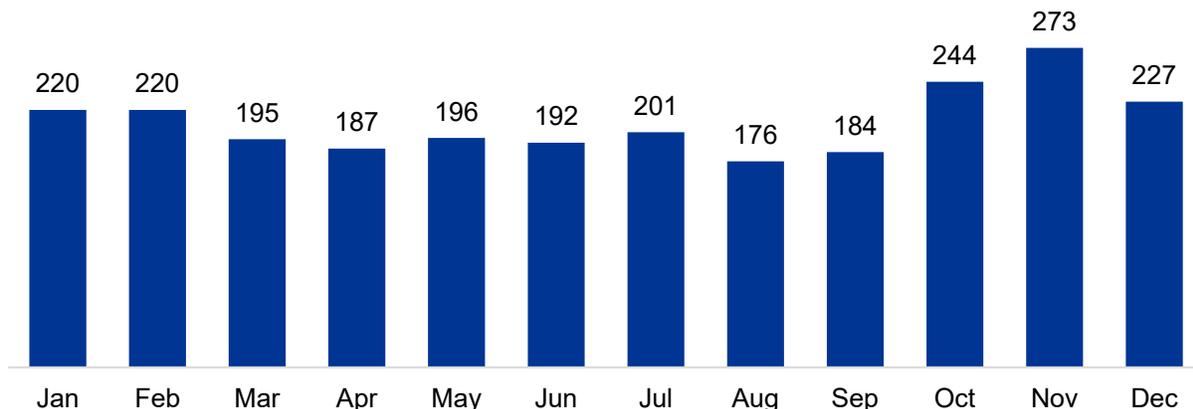
2022 Summary:

- Police-Ambulance-Fire involved fatalities increased 400 percent, from two in 2021, to 10 in 2022.
- November had the highest number of Police-Ambulance-Fire involved crashes with 273 crashes.
- Fridays had the highest number of Police-Ambulance-Fire involved crashes.
- The majority of Police-Ambulance-Fire involved crashes occurred between 6 p.m. and 8:59 p.m.

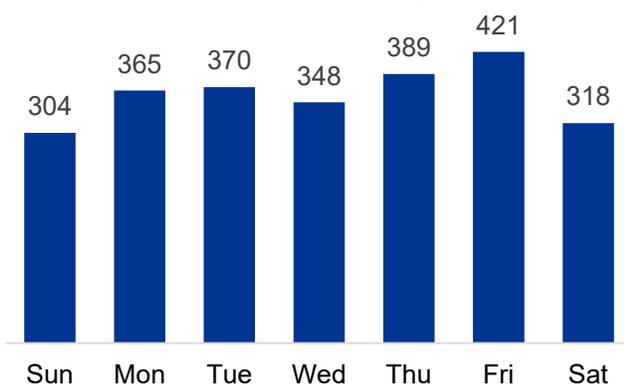
Police – Ambulance – Fire Involved Traffic Crash Statistics for 2018-2022

	2018	2019	2020	2021	2022
Total Police-Ambulance-Fire Involved Crashes	2,525	2,486	2,245	2,379	2,515
Total Police-Ambulance-Fire Involved Fatal Crashes	6	3	4	2	9
Total Police-Ambulance-Fire Involved Fatalities	6	4	4	2	10

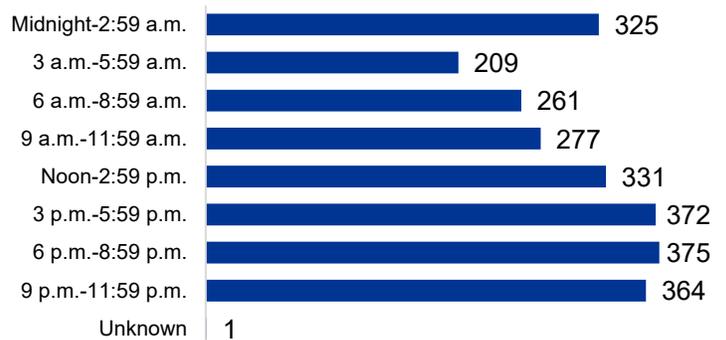
Police-Ambulance-Fire Involved Traffic Crashes by Month



Police-Ambulance-Fire Involved Traffic Crashes by Day of Week



Police-Ambulance-Fire Involved Traffic Crashes by Time of Day



Police-Ambulance-Fire Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Alcona County	11	0	0	0	0	11
Alger County	4	0	0	0	0	4
Allegan County	37	1	1	2	6	34
Alpena County	13	0	0	2	2	11
Antrim County	12	0	0	1	2	11
Arenac County	8	0	0	1	1	7
Baraga County	8	0	0	0	0	8
Barry County	15	0	0	1	2	14
Bay County	16	0	0	3	4	13
Benzie County	6	0	0	0	0	6
Berrien County	55	0	0	5	5	50
Branch County	16	0	0	0	0	16
Calhoun County	30	0	0	1	1	29
Cass County	17	0	0	3	5	14
Charlevoix County	12	0	0	1	2	11
Cheboygan County	7	0	0	1	1	6
Chippewa County	11	0	0	1	2	10
Clare County	9	1	1	1	3	7
Clinton County	12	0	0	0	0	12
Crawford County	7	0	0	1	1	6
Delta County	12	0	0	0	0	12
Dickinson County	9	0	0	0	0	9
Eaton County	26	0	0	4	5	22
Emmet County	6	0	0	0	0	6
Genesee County	97	0	0	11	19	86
Gladwin County	5	0	0	0	0	5
Gogebic County	2	0	0	0	0	2
Grand Traverse County	28	0	0	0	0	28
Gratiot County	11	1	1	1	3	9
Hillsdale County	19	0	0	1	2	18
Houghton County	5	0	0	0	0	5
Huron County	6	0	0	0	0	6
Ingham County	95	0	0	10	11	85
Ionia County	16	0	0	0	0	16
Iosco County	14	0	0	0	0	14
Iron County	11	0	0	1	1	10

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Isabella County	18	0	0	3	3	15
Jackson County	51	0	0	2	4	49
Kalamazoo County	74	0	0	16	20	58
Kalkaska County	6	0	0	1	2	5
Kent County	126	2	3	15	27	109
Keweenaw County	1	0	0	0	0	1
Lake County	5	0	0	2	3	3
Lapeer County	23	0	0	2	2	21
Leelanau County	6	0	0	0	0	6
Lenawee County	17	0	0	3	4	14
Livingston County	29	0	0	6	8	23
Luce County	1	0	0	0	0	1
Mackinac County	9	0	0	0	0	9
Macomb County	105	0	0	18	28	87
Manistee County	9	0	0	0	0	9
Marquette County	17	0	0	0	0	17
Mason County	11	0	0	0	0	11
Mecosta County	13	1	1	0	1	12
Menominee County	8	0	0	1	2	7
Midland County	23	0	0	1	1	22
Missaukee County	5	0	0	0	0	5
Monroe County	26	0	0	2	2	24
Montcalm County	20	0	0	1	2	19
Montmorency County	7	0	0	1	2	6
Muskegon County	48	0	0	5	7	43
Newaygo County	20	0	0	2	4	18
Oakland County	229	0	0	33	56	196
Oceana County	12	0	0	0	0	12
Ogemaw County	11	0	0	1	1	10
Ontonagon County	5	0	0	0	0	5
Osceola County	7	0	0	1	2	6
Oscoda County	2	0	0	1	1	1
Otsego County	12	0	0	0	0	12
Ottawa County	56	0	0	6	6	50
Presque Isle County	1	0	0	0	0	1
Roscommon County	14	0	0	2	2	12
Saginaw County	63	0	0	9	15	54
Sanilac County	9	0	0	2	3	7

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Schoolcraft County	6	0	0	1	1	5
Shiawassee County	18	0	0	2	2	16
St. Clair County	24	0	0	3	7	21
St. Joseph County	33	0	0	4	5	29
Tuscola County	17	0	0	0	0	17
Van Buren County	33	0	0	9	15	24
Washtenaw County	71	0	0	12	18	59
Wayne County	540	3	3	103	173	434
Wexford County	6	0	0	2	2	4
Total:	2,515	9	10	324	509	2,182

2022 Fleeing the Police Involved Crashes

Description: If a police pursuit situation causes a traffic crash, it is documented on the UD-10 as fleeing the police. Examples of fleeing that are documented on the UD-10 are a patrol car colliding with the vehicle it is pursuing, the pursued vehicle colliding with another vehicle, the pursued vehicle causing two vehicles unrelated to the pursuit to collide, etc.

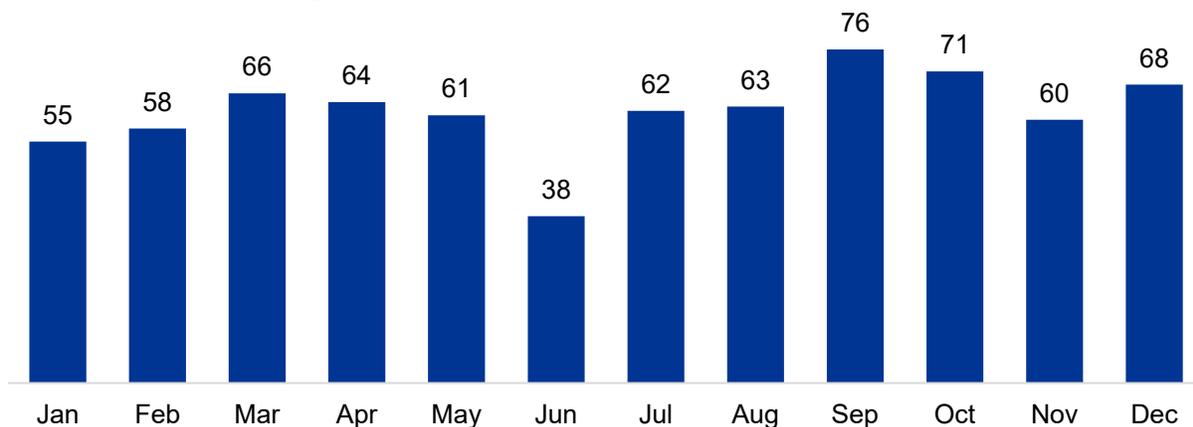
2022 Summary:

- Fleeing police involved fatalities increased 167 percent, from nine in 2021, to 24 in 2022.
- September had the highest number of fleeing police involved crashes with 76 crashes.
- Fridays had the highest number of fleeing police involved crashes.
- The majority of fleeing police involved crashes occurred between midnight and 2:59 a.m.

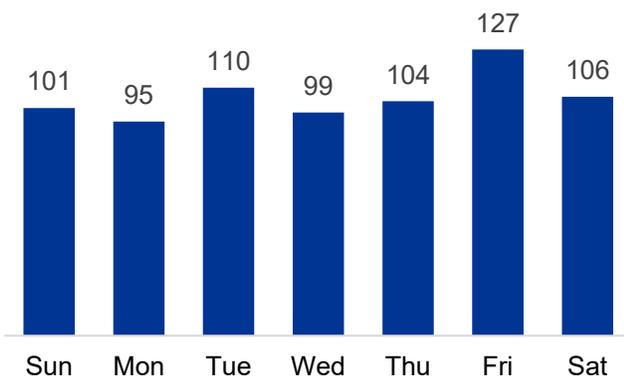
Fleeing Police Involved Traffic Crash Statistics for 2018-2022

	2018	2019	2020	2021	2022
Total Fleeing Police Involved Crashes	576	550	682	808	742
Total Fleeing Police Involved Fatal Crashes	12	8	15	9	21
Total Fleeing Police Involved Fatalities	14	11	15	9	24

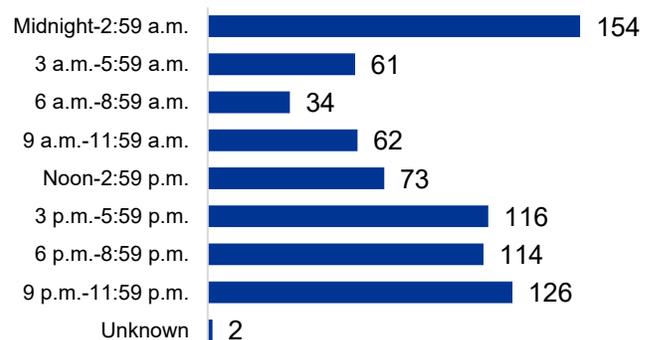
Fleeing Police Involved Traffic Crashes by Month



Fleeing Police Involved Traffic Crashes by Day of Week



Fleeing Police Involved Traffic Crashes by Time of Day



Fleeing Police Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Allegan County	12	0	0	5	8	7
Alpena County	1	0	0	0	0	1
Antrim County	2	0	0	1	1	1
Arenac County	1	0	0	0	0	1
Barry County	1	0	0	1	4	0
Bay County	1	0	0	0	0	1
Benzie County	1	0	0	1	1	0
Berrien County	26	2	2	8	12	16
Branch County	8	0	0	1	2	7
Calhoun County	9	0	0	2	2	7
Cass County	4	0	0	2	3	2
Charlevoix County	1	0	0	0	0	1
Chippewa County	1	0	0	0	0	1
Clare County	2	0	0	1	4	1
Clinton County	4	0	0	3	3	1
Crawford County	1	0	0	1	2	0
Delta County	1	0	0	0	0	1
Dickinson County	2	0	0	0	0	2
Eaton County	6	0	0	0	0	6
Genesee County	42	2	2	20	33	20
Gladwin County	1	0	0	1	3	0
Grand Traverse County	5	0	0	2	2	3
Gratiot County	6	0	0	2	2	4
Hillsdale County	4	0	0	3	4	1
Ingham County	24	0	0	14	24	10
Ionia County	5	0	0	1	1	4
Isabella County	5	0	0	0	0	5
Jackson County	13	0	0	3	5	10
Kalamazoo County	35	1	1	13	22	21
Kent County	43	0	0	9	18	34
Lake County	1	0	0	0	0	1
Lapeer County	5	0	0	3	3	2
Lenawee County	5	0	0	3	3	2
Livingston County	8	0	0	3	6	5
Luce County	2	0	0	2	3	0
Macomb County	64	3	4	24	43	37

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Manistee County	2	0	0	1	1	1
Marquette County	1	0	0	0	0	1
Mecosta County	1	0	0	0	0	1
Menominee County	1	0	0	0	0	1
Midland County	2	0	0	0	0	2
Missaukee County	2	0	0	0	0	2
Monroe County	9	1	2	3	5	5
Montcalm County	2	0	0	0	0	2
Muskegon County	18	0	0	11	15	7
Newaygo County	4	1	1	1	1	2
Oakland County	57	2	2	20	29	35
Oceana County	1	0	0	1	1	0
Osceola County	1	0	0	0	0	1
Ottawa County	14	0	0	7	12	7
Presque Isle County	2	0	0	1	1	1
Roscommon County	5	0	0	2	4	3
Saginaw County	17	1	1	5	12	11
Sanilac County	1	0	0	1	1	0
Shiawassee County	4	0	0	1	2	3
St. Clair County	6	0	0	3	3	3
St. Joseph County	9	0	0	4	4	5
Tuscola County	3	0	0	1	1	2
Van Buren County	6	0	0	4	7	2
Washtenaw County	19	1	1	5	12	13
Wayne County	200	7	8	69	115	124
Wexford County	3	0	0	1	3	2
Total:	742	21	24	270	443	451

2022 Farm Equipment Involved Crashes

Description: Farm Equipment is considered a special vehicle when involved in a crash and documented on the UD-10. Farm Equipment is selected if the vehicle is an implement of husbandry that cannot be registered with the Secretary of State (i.e., farm tractors and combines). Implement of husbandry includes a farm tractor, self-propelled application-type vehicle, farm wagon, farm trailer, a vehicle or trailer adapted for lifting or carrying another implement of husbandry, or any substantially similar equipment used to transport products necessary for agriculture production.

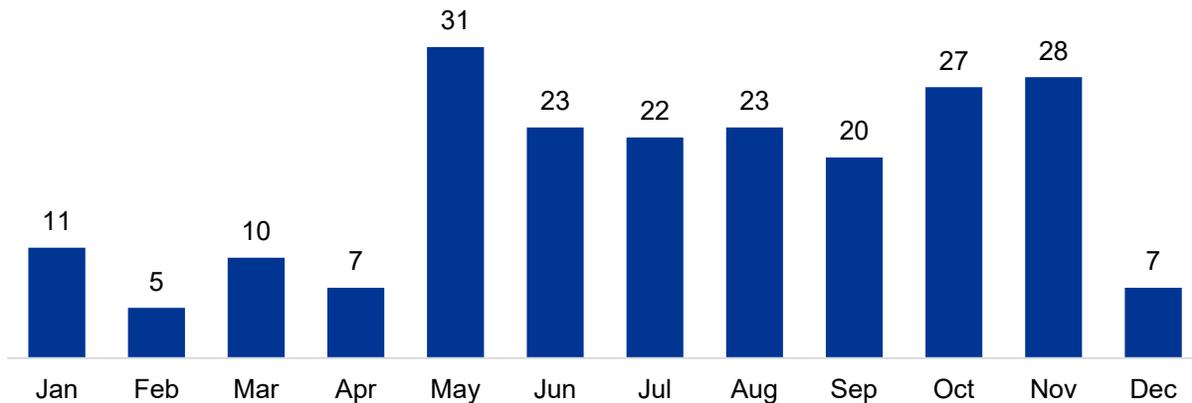
2022 Summary:

- Farm equipment involved fatalities decreased 20 percent, from five in 2021, to four in 2022.
- May had the highest number of farm equipment involved crashes with 31 crashes.
- Fridays had the highest number of farm equipment involved crashes.
- The majority of farm equipment involved crashes occurred between 3 p.m. and 5:59 p.m.

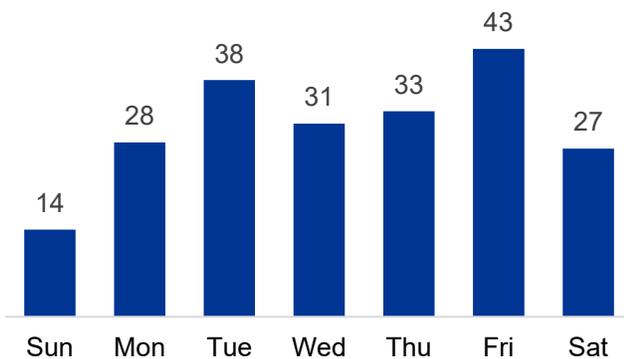
Farm Equipment Involved Traffic Crash Statistics for 2018-2022

	2018	2019	2020	2021	2022
Total Farm Equipment Involved Crashes	206	232	181	195	214
Total Farm Equipment Involved Fatal Crashes	2	5	5	5	4
Total Farm Equipment Involved Fatalities	2	6	5	5	4

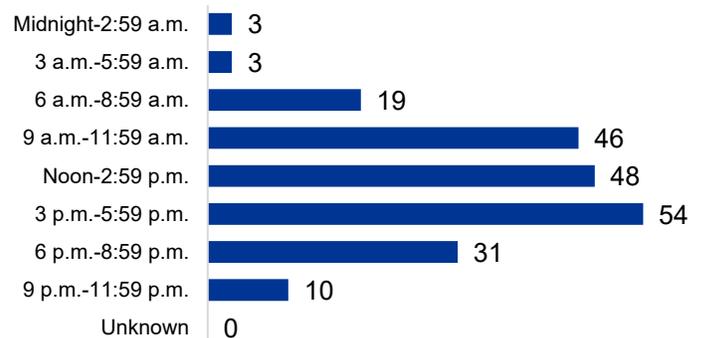
Farm Equipment Involved Traffic Crashes by Month



Farm Equipment Involved Traffic Crashes by Day of Week



Farm Equipment Involved Traffic Crashes by Time of Day



Farm Equipment Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Alcona County	1	0	0	0	0	1
Allegan County	8	0	0	2	2	6
Alpena County	2	0	0	0	0	2
Antrim County	2	0	0	0	0	2
Arenac County	3	0	0	0	0	3
Baraga County	1	0	0	1	1	0
Barry County	4	0	0	0	0	4
Bay County	6	0	0	2	2	4
Berrien County	2	0	0	2	2	0
Branch County	23	0	0	4	4	19
Calhoun County	6	0	0	2	3	4
Cass County	4	0	0	1	1	3
Chippewa County	1	0	0	0	0	1
Clinton County	4	1	1	2	4	1
Delta County	2	0	0	0	0	2
Eaton County	6	0	0	0	0	6
Emmet County	1	0	0	0	0	1
Genesee County	5	0	0	2	2	3
Grand Traverse County	2	0	0	1	2	1
Gratiot County	6	0	0	1	1	5
Hillsdale County	2	0	0	0	0	2
Huron County	2	0	0	1	1	1
Ingham County	4	0	0	0	0	4
Ionia County	3	0	0	1	1	2
Iosco County	1	0	0	0	0	1
Isabella County	3	0	0	1	1	2
Jackson County	2	0	0	1	1	1
Kalamazoo County	3	0	0	1	1	2
Kent County	6	1	1	2	3	3
Lapeer County	3	0	0	1	1	2
Leelanau County	2	0	0	0	0	2
Lenawee County	4	0	0	1	1	3
Livingston County	1	0	0	0	0	1
Mackinac County	1	0	0	0	0	1
Macomb County	3	0	0	0	0	3
Marquette County	2	0	0	1	2	1

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Mason County	3	1	1	0	0	2
Mecosta County	3	0	0	1	1	2
Midland County	6	0	0	3	4	3
Missaukee County	2	0	0	1	1	1
Monroe County	4	0	0	0	0	4
Montcalm County	3	0	0	0	0	3
Muskegon County	3	0	0	2	2	1
Newaygo County	9	0	0	1	1	8
Oceana County	2	1	1	0	0	1
Osceola County	2	0	0	0	0	2
Ottawa County	9	0	0	4	5	5
Saginaw County	10	0	0	0	0	10
Sanilac County	1	0	0	1	2	0
Shiawassee County	3	0	0	1	1	2
St. Clair County	3	0	0	2	3	1
St. Joseph County	2	0	0	1	1	1
Tuscola County	6	0	0	1	1	5
Van Buren County	1	0	0	0	0	1
Washtenaw County	5	0	0	1	1	4
Wayne County	5	0	0	0	0	5
Wexford County	1	0	0	1	1	0
Total:	214	4	4	50	60	160



Michigan Traffic Crash Decade-At-A-Glance

Produced by the Traffic Crash Reporting Unit

	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Total Crashes	293,341	282,640	245,432	314,377	312,798	314,921	312,172	297,023	298,699	289,061	273,891
Total Injuries	70,281	71,246	60,986	74,963	75,838	78,394	79,724	74,157	71,378	71,031	70,519
Total A Injuries	5,782	5,979	5,433	5,629	5,586	6,084	5,634	4,865	4,909	5,283	5,676
Total Fatalities	1,123	1,131	1,083	985	974	1,028	1,064	963	876	951	936
Fatal Crashes	1,053	1,068	1,010	902	905	937	980	893	806	881	870
Fatality Rate per 100m VMT**		1.2	1.3	1.0	1.0	1.0	1.1	1.0	0.9	1.0	1.0
Fatal Crash Rate per 100m VMT**		1.1	1.2	0.9	0.9	0.9	1.0	0.9	0.8	0.9	0.9
Fatality Restraint Use*	47.8%	45.3%	43.2%	51.7%	54.7%	53.0%	52.3%	52.5%	50.7%	53.3%	50.3%
Alc/Drug-Inv Fatal Crashes	420	475	422	378	394	421	378	346	291	316	314
% of Alc/Drug-Inv Fatal Crashes to total fatal crashes	39.9%	44.5%	41.8%	41.9%	43.5%	44.9%	38.6%	38.7%	36.1%	35.9%	36.1%
Alcohol/Drug-Inv Fatalities	454	505	453	419	434	470	412	384	319	354	342
% of Alc/Drug-Inv Fatalities to total fatalities	40.4%	44.7%	41.8%	42.5%	44.6%	45.7%	38.7%	39.9%	36.4%	37.2%	36.5%
Alcohol Inv Fatal Crashes	301	336	303	266	287	320	251	271	222	257	260
Alcohol Inv Fatalities	322	357	326	295	315	359	271	303	236	284	281
Drug Inv Fatal Crashes	229	259	250	214	220	221	213	159	131	142	119
Drug Inv Fatalities	249	275	267	237	247	246	236	179	150	165	135
OUIL Arrests (all agencies)	26,707	27,506	25,820	30,626	31,856	32,474	32,610	33,720	35,060	35,823	37,182
Regtd Vehicles (Millions)	9.39	9.54	9.00	9.10	8.43	8.48	8.38	8.26	8.19	8.11	8.05
MVMT (Billions)**		96.7	86.3	102.1	102.3	101.7	99	98.1	98.1	95.1	94.3
Population (Millions)	10.12	10.05	9.99	9.99	9.99	9.96	9.93	9.92	9.9	9.88	9.87

*Restraint use by deceased occupants of motor vehicles equipped with safety belts.

**2013 - VMT, Fatality Rate, and Fatal Crash Rate were updated for all years, using the corresponding year's VMT. The current year VMT will be updated after July when it is published.

Date Created: 4/28/2023

For questions, please contact the Traffic Crash Reporting Unit at 517-241-1699.



Michigan Traffic Crash Fatalities by Year

Produced by the Traffic Crash Reporting Unit

Year	Crashes	Fatalities	Crashes Per Fatal	Year	Crashes	Fatalities	Crashes Per Fatal	Year	Crashes	Fatalities	Crashes Per Fatal	Year	Crashes	Fatalities	Crashes Per Fatal
1943	71,450	992	72	1965	310,598	2,136	145	1987	397,224	1,632	243	2009	290,978	871	334
1944	72,013	1,034	70	1966	302,880	2,298	132	1988	410,437	1,704	241	2010	282,075	937	301
1945	83,160	1,150	72	1967	299,004	2,137	140	1989	417,252	1,630	256	2011	284,049	889	320
1946	110,631	1,470	75	1968	305,495	2,392	128	1990	387,180	1,563	248	2012	273,891	936	293
1947	137,619	1,447	95	1969	331,223	2,487	133	1991	364,847	1,425	256	2013	289,061	951	304
1948	140,172	1,512	93	1970	313,715	2,177	144	1992	344,942	1,300	265	2014	298,699	876	341
1949	143,197	1,441	99	1971	314,015	2,152	146	1993	363,639	1,414	257	2015	297,023	963	308
1950	161,750	1,605	101	1972	359,745	2,258	159	1994	398,080	1,419	281	2016	312,172	1,064	293
1951	176,587	1,640	108	1973	350,864	2,213	159	1995	421,073	1,537	274	2017	314,921	1,028	306
1952	160,829	1,736	93	1974	324,763	1,875	173	1996	435,477	1,505	289	2018	312,798	974	321
1953	184,174	1,905	97	1975	333,560	1,811	184	1997	425,793	1,446	294	2019	314,377	985	319
1954	185,534	1,793	103	1976	365,600	1,955	187	1998	403,766	1,367	295	2020	245,432	1,083	227
1955	196,812	2,016	98	1977	374,751	1,950	192	1999	415,675	1,386	300	2021	282,640	1,131	250
1956	197,995	1,746	113	1978	389,193	2,076	187	2000	424,867	1,382	307	2022	293,341	1,123	261
1957	191,915	1,548	124	1979	366,435	1,849	198	2001	400,813	1,328	302				
1958	177,934	1,382	129	1980	314,594	1,774	177	2002	395,515	1,279	309				
1959	198,771	1,473	135	1981	302,831	1,589	191	2003	391,486	1,283	305				
1960	209,724	1,604	131	1982	294,971	1,417	208	2004	373,028	1,159	322				
1961	199,973	1,567	128	1983	300,797	1,331	226	2005	350,838	1,129	311				
1962	233,078	1,574	148	1984	335,193	1,556	215	2006	315,322	1,084	291				
1963	261,794	1,887	139	1985	386,904	1,569	247	2007	324,174	1,084	299				
1964	284,444	2,122	134	1986	400,694	1,632	246	2008	316,057	980	323				

MICHIGAN STATE POLICE
CRIMINAL JUSTICE INFORMATION CENTER



2022 MICHIGAN HOLIDAY TRAFFIC FATALITIES

Prepared by:
Traffic Crash Reporting Unit

Year	Memorial Day		July 4th		Labor Day		Thanksgiving		Christmas		New Year's*	
	Days	Fatalities	Days	Fatalities	Days	Fatalities	Days	Fatalities	Days	Fatalities	Days	Fatalities
1972	3	20	4	48	3	33	4	28	3	26	3	23
1973	3	26	1	13	3	28	4	18	4	13	4	24
1974	3	20	4	34	3	25	4	26	1	9	1	3
1975	3	28	3	27	3	25	4	16	4	17	4	22
1976	3	34	3	19	3	31	4	29	3	17	3	13
1977	3	32	3	34	3	18	4	32	3	14	3	15
1978	3	25	4	23	3	31	4	29	3	31	3	7
1979	3	17	1	12	3	31	4	27	4	29	4	27
1980	3	23	3	25	3	26	4	32	4	23	4	21
1981	3	12	3	22	3	17	4	13	3	15	3	17
1982	3	9	3	30	3	21	4	27	3	19	3	10
1983	3	13	3	22	3	17	4	12	3	5	3	8
1984	3	18	1	8	3	19	4	19	4	20	4	25
1985	3	23	4	17	3	17	4	23	2	9	2	5
1986	3	16	3	23	3	21	4	17	2	9	2	8
1987	3	16	3	18	3	32	4	26	4	8	4	18
1988	3	22	3	20	3	17	4	24	3	14	3	14
1989	3	15	4	23	3	29	4	14	3	27	3	3
1990	3	16	1	10	3	16	4	19	4	18	4	15
1991	3	20	4	20	3	23	4	16	2	6	2	7
1992	3	18	3	20	3	20	4	19	4	20	4	22
1993	3	23	3	14	3	7	4	29	3	9	3	19
1994	3	13	3	19	3	10	4	21	3	23	3	16
1995	3	12	4	19	3	30	4	12	3	16	3	14
1996	3	11	4	27	3	27	4	23	1	6	1	5
1997	3	16	3	16	3	19	4	20	4	13	4	21
1998	3	21	3	16	3	22	4	22	3	8	3	12
1999	3	17	3	15	3	21	4	22	3	16	3	22
2000	3	18	4	21	3	27	4	12	3	11	3	13
2001	3	18	1	10	3	21	4	12	4	10	4	11
2002	3	14	4	30	3	13	4	20	1	0	1	4
2003	3	10	3	15	3	15	4	20	4	9	4	6
2004	3	12	3	14	3	15	4	11	3	11	3	8
2005	3	14	3	20	3	15	4	18	3	7	3	11
2006	3	19	4	15	3	7	4	23	3	2	3	5
2007	3	13	1	4	3	16	4	11	4	11	4	9
2008	3	11	3	14	3	12	4	13	4	14	4	15
2009	3	11	3	1	3	16	4	11	3	3	3	8
2010	3	15	3	8	3	21	4	10	3	6	3	5
2011	3	9	4	8	3	12	4	7	4	8	4	14
2012	3	10	1	4	3	8	4	9	4	9	4	15
2013	3	15	4	19	3	10	4	12	1	3	1	3
2014	3	20	3	12	3	6	4	6	4	10	4	17
2015	3	8	3	12	3	15	4	11	3	6	3	11
2016	3	6	3	13	3	10	4	10	3	6	3	11
2017	3	10	4	14	3	15	4	11	3	11	3	12
2018	3	19	1	7	3	12	4	11	4	13	4	9
2019	3	13	4	19	3	10	4	7	2	4	2	4
2020	3	12	3	17	3	15	4	17	3	4	3	12
2021	3	14	3	27	3	11	4	14	3	5	3	6
2022	3	13	3	13	3	11	4	15	3	6	3	2
Daily Avg	3	16	3	18	3	19	4	18	3	12	3	12

To remain consistent with other states, Michigan relies on the National Safety Council to determine number of days within each holiday.

Holiday periods (in days) may differ from year to year, please keep this in mind when doing data analysis.

Although holiday data is usually fairly static, it is subject to change as more data becomes available.

*All New Year's holiday information is recorded in the year in which it began.

Updated: 04/26/23

Fatality Report for the Memorial Day Holiday Period

4/26/2023

Fatal Crashes 21 Fatalities 21

This report covers dates ranging from 5/27/2022 at 6:00:00PM to 5/30/2022 at 11:59:00PM

Crash Date	County	Victim	Alcohol	Restraint	Age
May 30, 2022	Allegan	Driver	No	No Belts Used	62
May 30, 2022	Eaton	Motorcyclist	No	Helmet Not Worn	49
May 30, 2022	Genesee	Motorcyclist	No	Helmet Worn	52
May 27, 2022	Hillsdale	Motorcyclist	Yes	Helmet Not Worn	69
May 29, 2022	Iosco	Motorcyclist	No	Helmet Worn	69
May 30, 2022	Kalamazoo	Driver	Yes	No Belts Used	25
May 29, 2022	Lapeer	Motorcyclist	Yes	Helmet Not Worn	40
May 30, 2022	Lenawee	Driver	No	Restraint Use Unknown	42
May 29, 2022	Macomb	Pedestrian	No	No Belts Available	61
May 30, 2022	Mecosta	Driver	Yes	No Belts Used	34
May 28, 2022	Muskegon	Motorcyclist	Yes	Helmet Not Worn	26
May 30, 2022	Muskegon	Motorcyclist	No	Helmet Use Unknown	55
May 30, 2022	St. Clair	Motorcyclist	No	Helmet Not Worn	51
May 28, 2022	Wayne	Motorcyclist	No	Helmet Use Unknown	44
May 28, 2022	Wayne	Motorcyclist	No	Helmet Not Worn	46
May 29, 2022	Wayne	Pedestrian	No	No Belts Available	61
May 29, 2022	Wayne	Pedestrian	No	No Belts Available	46
May 30, 2022	Wayne	Bicyclist	No	Helmet Use Unknown	60

May 30, 2022	Wayne	Passenger	Unknown	No Belts Used	17
May 30, 2022	Wayne	Driver	Yes	Shoulder and Lap Belt	39
May 30, 2022	Wayne	Passenger	Unknown	Shoulder and Lap Belt	14

Total crashes that had alcohol involved: 5 . **

** Alcohol involved crashes are defined as crashes where there was at least one person in the crash that had been drinking.

Fatality Report for the Independence Day Holiday Period

4/26/2023

Fatal Crashes 13 Fatalities 13

This report covers dates ranging from 7/1/2022 at 6:00:00PM to 7/4/2022 at 11:59:00PM

Crash Date	County	Victim	Alcohol	Restraint	Age
July 04, 2022	Bay	Motorcyclist	Yes	Helmet Not Worn	31
July 04, 2022	Genesee	Motorcyclist	No	Helmet Worn	66
July 02, 2022	Ingham	Pedestrian	No	No Belts Available	62
July 04, 2022	Iosco	Motorcyclist	No	Helmet Worn	87
July 04, 2022	Kalamazoo	Driver	Yes	Shoulder and Lap Belt	20
July 03, 2022	Livingston	Driver	Yes	No Belts Used	29
July 02, 2022	Mecosta	Orv Person	No	Helmet Not Worn	58
July 02, 2022	Oakland	Driver	Yes	No Belts Used	31
July 02, 2022	Washtenaw	Passenger	Unknown	Shoulder and Lap Belt	96
July 03, 2022	Washtenaw	Motorcyclist	No	Helmet Worn	56
July 01, 2022	Wayne	Motorcyclist	No	Helmet Not Worn	39
July 03, 2022	Wayne	Driver	No	Shoulder and Lap Belt	46
July 03, 2022	Wayne	Driver	No	Restraint Use Unknown	34

Total crashes that had alcohol involved: 4 . **

** Alcohol involved crashes are defined as crashes where there was at least one person in the crash that had been drinking.

Fatality Report for the Labor Day Holiday Period

4/26/2023

Fatal Crashes 11 Fatalities 11

This report covers dates ranging from 9/2/2022 at 6:00:00PM to 9/5/2022 at 11:59:00PM

Crash Date	County	Victim	Alcohol	Restraint	Age
September 04, 2022	Barry	Motorcyclist	No	Helmet Worn	32
September 04, 2022	Huron	Driver	Yes	No Belts Used	26
September 03, 2022	Kent	Driver	No	Restraint Use Unknown	45
September 03, 2022	Kent	Driver	No	No Belts Used	22
September 04, 2022	Macomb	Driver	Yes	Shoulder and Lap Belt	28
September 04, 2022	Oakland	Driver	No	Shoulder and Lap Belt	31
September 04, 2022	Oakland	Driver	Yes	No Belts Used	20
September 02, 2022	Saginaw	Pedestrian	No	No Belts Available	61
September 04, 2022	Saginaw	Driver	Yes	Restraint Use Unknown	42
September 04, 2022	Wayne	Driver	No	No Belts Used	46
September 05, 2022	Wayne	Pedestrian	Yes	No Belts Available	26

Total crashes that had alcohol involved: 5 . **

** Alcohol involved crashes are defined as crashes where there was at least one person in the crash that had been drinking.

Fatality Report for the Thanksgiving Day Holiday Period

4/26/2023

Fatal Crashes 13 Fatalities 15

This report covers dates ranging from 11/23/2022 at 6:00:00PM to 11/27/2022 at 11:59:00PM

Crash Date	County	Victim	Alcohol	Restraint	Age
November 26, 2022	Allegan	Driver	No	Shoulder and Lap Belt	56
November 26, 2022	Allegan	Driver	No	Shoulder and Lap Belt	51
November 24, 2022	Genesee	Driver	Yes	No Belts Used	28
November 26, 2022	Kent	Driver	Yes	No Belts Used	47
November 27, 2022	Livingston	Driver	No	No Belts Used	31
November 24, 2022	Macomb	Driver	No	No Belts Used	36
November 24, 2022	Macomb	Driver	No	Shoulder and Lap Belt	56
November 23, 2022	Marquette	Pedestrian	No	No Belts Available	31
November 26, 2022	Muskegon	Bicyclist	No	Helmet Use Unknown	59
November 25, 2022	Oakland	Driver	Yes	Restraint Use Unknown	35
November 25, 2022	Tuscola	Driver	No	Shoulder and Lap Belt	46
November 24, 2022	Wayne	Driver	No	Shoulder and Lap Belt	28
November 24, 2022	Wayne	Driver	No	Shoulder and Lap Belt	44
November 25, 2022	Wayne	Passenger	Unknown	Restraint Use Unknown	30
November 26, 2022	Wayne	Driver	No	Shoulder and Lap Belt	22

Total crashes that had alcohol involved: 4 . **

** Alcohol involved crashes are defined as crashes where there was at least one person in the crash that had been drinking.

Fatality Report for the Christmas Day Holiday Period

4/26/2023

Fatal Crashes 6 Fatalities 6

This report covers dates ranging from 12/23/2022 at 6:00:00PM to 12/26/2022 at 11:59:00PM

Crash Date	County	Victim	Alcohol	Restraint	Age
December 26, 2022	Kalkaska	Driver	No	Shoulder and Lap Belt	37
December 26, 2022	Oakland	Driver	No	Shoulder and Lap Belt	19
December 23, 2022	Wayne	Pedestrian	No	No Belts Available	43
December 24, 2022	Wayne	Passenger	Unknown	Restraint Use Unknown	50
December 25, 2022	Wayne	Driver	No	Shoulder and Lap Belt	37
December 26, 2022	Wayne	Driver	No	Restraint Use Unknown	61

Total crashes that had alcohol involved: 0 . **

** Alcohol involved crashes are defined as crashes where there was at least one person in the crash that had been drinking.

Fatality Report for the New Year's Day Holiday Period

4/26/2023

Fatal Crashes 2 Fatalities 2

This report covers dates ranging from 12/30/2022 at 6:00:00PM to 12/31/2022 at 11:59:00PM

Crash Date	County	Victim	Alcohol	Restraint	Age
December 31, 2022	Cass	Passenger	Unknown	No Belts Available	18
December 31, 2022	Genesee	Pedestrian	No	No Belts Available	45

Total crashes that had alcohol involved: 0 . **

** Alcohol involved crashes are defined as crashes where there was at least one person in the crash that had been drinking.

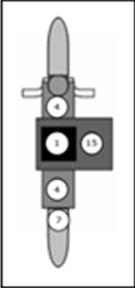
Section 5: UD-10 Images

Authority: 1949 PA 300, Sec. 257.622 Compliance: Required MSP UD-10E Penalty: \$100 and/or 90 days (Rev. 01/2016)		External #	Crash ID	Page 01 of 01	
STATE OF MICHIGAN TRAFFIC CRASH REPORT					
ORI		Department Name			File Class
Crash Date		Crash Time	No. of Units	Crash Type	Incident #
Country		Traffic Control	Relation to Roadway	Weather	Reviewer
City/Twp		Contributing Circumstances		Light	Road Surface Condition
Work Zone (if applicable)		Workers Present	Activity	Location	Special Checks
Prefix		Primary Road Name	Road Type	Suffix	Divided Roadway
Distance / Direction		Trafficway			
Prefix		Intersecting Road Name	Road Type	Suffix	Divided Roadway
Unit Number	Unit Known	State	Driver License Number	Date of Birth (Age)	License Type
Unit Type	Driver Information		Driver is Owner	Injury	Position
Driver Condition at Time of Crash		Driver Distracted By		Ejected	Trapped
Hospital		Ambulance			
Alcohol Suspected	Contributing Factor	Alcohol Test Type		Alcohol Test Results	Interlock Device
Drug Suspected	Contributing Factor	Drug Test Type		Drug Test Results	Citation Issued
Vehicle Registration	State	Vehicle Description	Year	Make	Model
VIN	Vehicle Type	Special Vehicles	Private Trailer Type	Vehicle Defect	
Automation System(s) in Vehicle		Automation System Level in Vehicle		Automation System Level Engaged at Time of Crash	
Insurance Company		Insurance Policy #		Towed By	Towed To
Location of Greatest Damage	First Impact	Extent of Damage (Power Unit and/or Trailers)	Vehicle Direction	Vehicle Use	Action Prior
Sequence of Events		Second	Third	Fourth	
Passenger Information		Date of Birth (Age)	Sex	Position	Restraint
Hospital		Ambulance			
Passenger Information		Date of Birth (Age)	Sex	Position	Restraint
Hospital		Ambulance			
Camion Information		USDOT		MC	MPSC
GVWR/GCWR		Vehicle Configuration		Cargo Body Type	Medical Card
Owner Information		Owner Information			
Damaged Property		Public	Owner & Phone		

UNIT DRIVER	Unit Number	Unit Known	State	Driver License Number	Date of Birth (Age)	License Type <input type="checkbox"/> Operator <input type="checkbox"/> Chauffeur <input type="checkbox"/> Moped	Endorsements <input type="checkbox"/> Cycle <input type="checkbox"/> Farm <input type="checkbox"/> Recreation	Sex	Total Occupants	Hazardous Action		
	Unit Type	Driver Information				Driver is Owner	Injury	Position	Restraint			
	Driver Condition at Time of Crash				1st	2nd	Driver Distracted By		Ejected	Trapped	Airbag Deployed	
	Hospital					Ambulance						
	Alcohol Suspected	Contributing Factor	Alcohol Test Type <input type="checkbox"/> Breath <input type="checkbox"/> Blood <input type="checkbox"/> Urine <input type="checkbox"/> Field <input type="checkbox"/> PBT <input type="checkbox"/> Refused <input type="checkbox"/> Not Offered			Alcohol Test Results <input type="checkbox"/> Pending		Test Results:	Interlock Device			
	Drug Suspected	Contributing Factor	Drug Test Type <input type="checkbox"/> Blood <input type="checkbox"/> Urine <input type="checkbox"/> Field <input type="checkbox"/> Refused <input type="checkbox"/> Not Offered			Drug Test Results <input type="checkbox"/> Pending		Test Results:	Citation Issued <input type="checkbox"/> Hazardous <input type="checkbox"/> Other			
	Vehicle Registration	State	Vehicle Description	Year	Make	Model	Color					
	VIN	Vehicle Type	Special Vehicles			Private Trailer Type	Vehicle Defect					
	Automation System(s) in Vehicle	Automation System Level in Vehicle				Automation System Level Engaged at Time of Crash						
	Insurance Company			Insurance Policy #			Towed By			Towed To		
	Location of Greatest Damage	First Impact	Extent of Damage (Power Unit and/or Trailers)			Vehicle Direction	Vehicle Use			Action Prior		
	Sequence of Events (● indicates MOST harmful event)				First	Second	Third	Fourth				
	PASSENGERS	Passenger Information				Date of Birth (Age)	Sex	Position	Restraint			
						Injury	Ejected	Trapped	Airbag Deployed			
Hospital					Ambulance							
Passenger Information				Date of Birth (Age)	Sex	Position	Restraint					
				Injury	Ejected	Trapped	Airbag Deployed					
Hospital					Ambulance							
TRUCK/BUS	Carrier Information					USDOT	MC	MPSC				
						Driver's CDL Type	Endorsements <input type="checkbox"/> H <input type="checkbox"/> P <input type="checkbox"/> T <input type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> X	CDL Exempt <input type="checkbox"/> Farm <input type="checkbox"/> Other				
GVWR/GCWR <input type="checkbox"/> 10,000 lbs. or Less <input type="checkbox"/> 10,001 - 26,000 lbs. <input type="checkbox"/> Greater than 26,000 lbs.				Vehicle Configuration		Cargo Body Type	Medical Card	Hazardous Material <input type="checkbox"/> Placard <input type="checkbox"/> Cargo Spill		ID #	Class #	
OWNERS	Owner Information					Owner Information						
WITNESSES	Witness Information					Witness Information						
Investigated at Scene	Reported Date (Time)	1st Investigator Name (Badge)			2nd Investigator Name (Badge)			Photos				
Narrative						Diagram						

Section 5: UD-10 Traffic Crash Report User Guide

MICHIGAN STATE POLICE														
<p>UD-10 Traffic Crash Report User Guide</p> <p>Revised 2021</p> <p>Phone: 517-241-1699 Website: www.michigan.gov/crash Email: CrashTCRS@michigan.gov</p> <p><i>A PROUD tradition of SERVICE through EXCELLENCE, INTEGRITY, and COURTESY</i></p>														
Crash Type														
Animal	Road Surface Condition													
<ol style="list-style-type: none"> Deer Turkey Elk Moose Bear 97. Animal (Other) 98. Animal (Unknown) 	<ol style="list-style-type: none"> Dry Wet Ice Snow Mud, Dirt, Gravel Slush Debris Water (Standing / Moving) Sand Oily 97. Other 98. Unknown 													
Weather	Contributing Circumstances													
<ol style="list-style-type: none"> Clear Cloudy Fog Rain Snow Severe Crosswinds Sleet / Hail Blowing Snow Blowing Sand, Soil, Dirt Smoke 98. Unknown 	<ol style="list-style-type: none"> Prior Crash Backup Due to Regular Congestion Backup Due to Other Incident Glare Traffic Control Device Inoperative, Missing or Obscured Shoulders (None, Low, Soft, High) 96. None 97. Other 98. Unknown 													
Light	Relation to Roadway													
<ol style="list-style-type: none"> Daylight Dawn Dusk Dark-Lighted Dark-Unlighted 97. Other 98. Unknown 	<ol style="list-style-type: none"> On the Road Median Shoulder Outside of Shoulder / Curb Gore On-Street Parking Off Roadway (Non-Traffic) Sidewalk Bicycle Lane 98. Unknown 													
Traffic Control	Area													
<ol style="list-style-type: none"> Signal Stop Sign Stop Sign with Flashing Beacon Yield Sign 96. None 	<p>Freeway</p> <ol style="list-style-type: none"> Entrance / Exit Ramp Related Authorized Median Crossover Related Transition Area / Increase or Decrease in Travel Lanes Rest Area Related Scale / Weigh Station Related All Other Freeway Areas 20. Curved Roadway <p>Intersection</p> <ol style="list-style-type: none"> Within Intersection Driveway Related within 150 ft. of Nearest Edge of Intersection Intersection Related-Other 21. Roundabout <p>Other Non-Freeway Areas</p> <ol style="list-style-type: none"> Straight Roadway Not Related to Other Selections Curved Roadway Not Related to Other Selections Driveway Related Not within 150 ft. of Intersection Parking Related Legal Roadside 14. Transition Area / Increase or Decrease in Travel Lanes 15. Median Crossing Related 16. Railroad Crossing Related 17. Rest Area Related 18. Scale / Weigh Station Related 19. Non-Traffic Area 97. Other 98. Unknown 													
Work Zone - Activity	Work Zone - Location													
<ol style="list-style-type: none"> Lane Closure Lane Shift / Crossover Work on Shoulder or Median Intermittent or Moving Work 97. Other 	<ol style="list-style-type: none"> Before the First Work Zone Warning Sign Between the First and Last Work Zone Warning Sign No Warning Signs 													
Trafficway	Unit Type													
<ol style="list-style-type: none"> Not Physically Divided (Two-Way Traffic) Divided Highway without Traffic Barrier Divided Highway with Traffic Barrier One-Way Traffic Non-Traffic Two-Way, Not Divided, with a Continuous Left Turn Lane 	<table border="1"> <tr> <td>MV</td> <td>Motor Vehicle</td> </tr> <tr> <td>B</td> <td>Bike</td> </tr> <tr> <td>P</td> <td>Pedestrian</td> </tr> <tr> <td>E</td> <td>Engineer (Train)</td> </tr> </table>	MV	Motor Vehicle	B	Bike	P	Pedestrian	E	Engineer (Train)					
MV	Motor Vehicle													
B	Bike													
P	Pedestrian													
E	Engineer (Train)													
Race														
<table border="1"> <tr> <td>I</td> <td>American Indian/Alaskan</td> </tr> <tr> <td>A</td> <td>Asian</td> </tr> <tr> <td>B</td> <td>Black/African American</td> </tr> <tr> <td>H</td> <td>Hispanic/Latino</td> </tr> <tr> <td>P</td> <td>Native Hawaiian or Other Pacific Islander</td> </tr> <tr> <td>W</td> <td>White</td> </tr> <tr> <td>U</td> <td>Unknown</td> </tr> </table>	I	American Indian/Alaskan	A	Asian	B	Black/African American	H	Hispanic/Latino	P	Native Hawaiian or Other Pacific Islander	W	White	U	Unknown
I	American Indian/Alaskan													
A	Asian													
B	Black/African American													
H	Hispanic/Latino													
P	Native Hawaiian or Other Pacific Islander													
W	White													
U	Unknown													

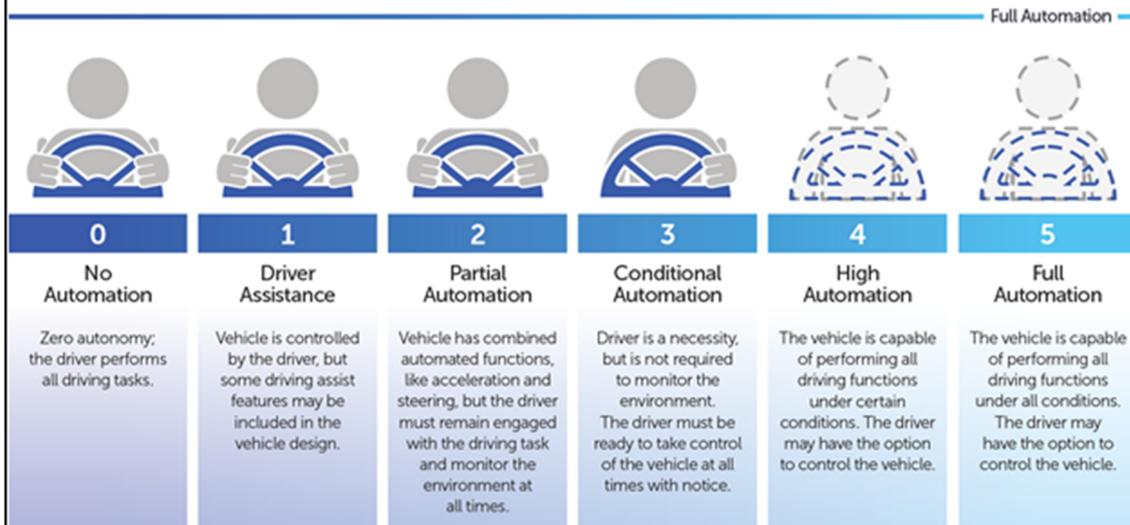
Driver Distracted By	Restraint Use	Injury	Sequence of Events
<ol style="list-style-type: none"> 1. Not Distracted 2. Manually Operating an Electronic Communications Device (Texting, Typing, Dialing) 3. Talking on Hands-Free Electronic Device 4. Talking on Hand-Held Electronic Device 5. Other Activity, Electronic Device (Book Player, Navigation Aid) 6. Passenger 7. Other Activity Inside the Vehicle (Eating, Personal Hygiene) 8. Outside the Vehicle (Includes Unspecified External Distractions) 98. Unknown 	<ol style="list-style-type: none"> 1. No Belts Available 2. Shoulder Belt Only Used 3. Lap Belt Only 4. Shoulder and Lap Belt 5. No Belts Used 6. Child Restraint System – Forward Facing 7. Child Restraint Not Used or Improperly Used 8. Child Restraint System – Rear Facing 9. Child Restraint System – Booster Seat 10. Restraint Failure 11. Restraint Use Unknown 12. Helmet Worn 13. Helmet Not Worn 14. Helmet Use Unknown 	<p>K - Fatal Injury: Any injury which results in death</p> <p>A - Suspected Serious Injury: Any injury other than fatal which prevents normal activities and generally requires hospitalization</p> <p>B - Suspected Minor Injury: Any minor injury that is evident to others at the scene</p> <p>C - Possible Injury: Any possible injury that is reported or claimed</p> <p>O - No Injury: No indication of injury</p>	<p style="text-decoration: underline;">Non-Collision</p> <ol style="list-style-type: none"> 1. Loss of Control 2. Cross Centerline 3. Ran Off Roadway - Left 4. Ran Off Roadway - Right 5. Re-enter Roadway 6. Overturn 7. Separation of Units 8. Fire / Explosion 9. Immersion 10. Jackknife 11. Downhill Runaway 12. Cargo Loss / Shift 13. Individual Fell from Vehicle 14. Other Non-Collision 46. Cross Median 47. Equipment Failure (Blown Tire, Brake Failure, Etc.)
<p style="text-align: center; background-color: #4b0082; color: white; margin: 0;">Position</p> <p>B Bicyclist P Pedestrian E Engineer (Railroad / Train)</p>  <ol style="list-style-type: none"> 13. Sleeper Section 14. Other Enclosed Passenger / Cargo Area 15. Other Unenclosed Passenger / Cargo Area 16. Riding In / On Trailing Unit 17. Riding On Vehicle Exterior 98. Unknown 	<p style="text-align: center; background-color: #4b0082; color: white; margin: 0;">Hazardous Action</p> <ol style="list-style-type: none"> 0. None 1. Speed Too Fast 2. Speed Too Slow 3. Failed to Yield 4. Disregard Traffic Control 5. Drove Wrong Way 6. Drove Left of Center 7. Improper Passing 8. Improper Lane Use 9. Improper Turn 10. Improper / No Signal 11. Improper Backing 12. Unable to Stop in Assured Clear Distance 13. Other 14. Unknown 15. Reckless Driving 16. Careless Driving 	<p style="text-align: center; background-color: #4b0082; color: white; margin: 0;">Action Prior to Crash</p> <p style="text-align: center; background-color: #4b0082; color: white; margin: 0;"><u>Driver Action</u></p> <ol style="list-style-type: none"> 1. Going Straight Ahead 2. Turning Left 3. Turning Right 4. Stopped on Roadway 5. Involved in Prior Crash at Same Location 6. Changing Lanes 7. Backing 8. Slowing / Stopping on Roadway 9. Slowing / Stopping Other Area 10. Starting Up on Roadway 11. Starting Up in Other Area 12. Entering Parking 13. Leaving Parking 14. Entering Roadway 15. Leaving Roadway 16. Making U-Turn 17. Overtaking or Passing 18. Avoiding Object 19. Avoiding Pedestrian 20. Avoiding Vehicle (Front / Back) 21. Avoiding Vehicle (Angle) 22. Driverless Moving 23. Parked 35. Other 36. Unknown 37. Avoiding Animal 38. Negotiating a Curve <p style="text-align: center; background-color: #4b0082; color: white; margin: 0;"><u>Pedestrian Action</u></p> <ol style="list-style-type: none"> 24. Crossing at Intersection 25. Crossing Not at Intersection 26. Getting On / Off Vehicle 27. In Roadway with Traffic 28. In Roadway Against Traffic 29. Standing / Lying in Roadway 30. Pushing / Working on Vehicle 31. Other Working in Roadway 32. Playing in Roadway 33. In Roadway Other Reason 34. Not in Roadway 35. Other 36. Unknown 	<p style="text-decoration: underline;">Collision with Non-Fixed Object</p> <ol style="list-style-type: none"> 15. Pedestrian 16. Bicyclist 17. Motor Vehicle in Transport* 18. Parked Motor Vehicle 19. Engineer (Railroad / Train) 20. Animal 21. Other Non-Fixed Object 48. Work Zone / Maintenance Equipment 49. Cargo Falling / Shifting / or Anything Set in Motion (SIM) By a Motor Vehicle <p style="font-size: small; margin-top: 10px;">* In transport means a motor vehicle in motion or on a roadway.</p> <p style="text-decoration: underline;">Collision with Fixed Object</p> <ol style="list-style-type: none"> 22. Bridge Pier / Support 24. Bridge Rail 25. Guardrail Face 26. Guardrail End 27. Concrete Barrier 28. Traffic Sign / Post 29. Traffic Signal Equipment 30. Utility Pole / Light Support 32. Other Post / Pole / Support 33. Culvert 34. Curb 35. Ditch 36. Embankment 37. Fence 38. Mailbox 39. Tree 40. Railroad Crossing Signal 41. Building 42. Traffic Island 43. Fire Hydrant 44. Impact Attenuator / Crash Cushion 45. Other Fixed Object 50. Bridge Overhead Structure 51. Cable Barrier
<p style="text-align: center; background-color: #4b0082; color: white; margin: 0;">Motorcycles, Snowmobiles, Etc. (In-Line Seating)</p>  <ol style="list-style-type: none"> 1. Driver 4. Passenger One 7. Passenger Two 15. Other Unenclosed Passenger / Cargo Area 	<p style="text-align: center; background-color: #4b0082; color: white; margin: 0;">Airbag</p> <ol style="list-style-type: none"> 1. Deployed-Front 2. Not Deployed 3. Not Equipped 4. Deployed-Side 5. Deployed-Curtain 6. Deployed-Other (Knee, Air Belt, Etc.) 7. Deployed-Combination 98. Unknown 		
	<p style="text-align: center; background-color: #4b0082; color: white; margin: 0;">Condition at Time of Crash</p> <ol style="list-style-type: none"> 1. Appeared Normal 4. Sick 5. Fatigued or Asleep 7. Medication 10. Physically Disabled 11. Emotional 97. Other 99. Unknown 		

<p>Location of Greatest Damage / First Impact</p> <p>9. Undercarriage 10. Multiple 11. None 98. Unknown</p>	<p>Vehicle Use</p> <ol style="list-style-type: none"> Private Commercial (Business) In Pursuit / On Emergency Farm School / Education Club / Church Military Other Government Utility Road Construction / Other Maintenance Other 	<p>Special Vehicles</p> <ol style="list-style-type: none"> Police Fire Bus Ambulance Farm Equipment Construction / Maintenance Equipment Tow Truck / Wrecker 	<p>Extent of Damage</p> <ol style="list-style-type: none"> No Damage Minor Damage Functional Damage Disabling Damage 98. Unknown 																
<p>Vehicle Type</p> <ol style="list-style-type: none"> Passenger Car, SUV, Van Motor Home Pickup Truck Small Truck (Under 10,000 lbs) Motorcycle Moped / Goped Go-Cart / Golf Cart Snowmobile Off Road Vehicle (ATV Type) Other Truck / Bus 	<p>Vehicle Direction</p> <table> <tr><td>N</td><td>North</td></tr> <tr><td>NE</td><td>Northeast</td></tr> <tr><td>NW</td><td>Northwest</td></tr> <tr><td>S</td><td>South</td></tr> <tr><td>SE</td><td>Southeast</td></tr> <tr><td>SW</td><td>Southwest</td></tr> <tr><td>W</td><td>West</td></tr> <tr><td>E</td><td>East</td></tr> </table>	N	North	NE	Northeast	NW	Northwest	S	South	SE	Southeast	SW	Southwest	W	West	E	East	<p>Vehicle Defects</p> <ol style="list-style-type: none"> Brakes Lights Steering Tires / Rims Windows / Windshield Truck Coupling / Trailer Hitch / Safety Chains 97. Other 	<p>Automation System Level in Vehicle</p> <ol style="list-style-type: none"> No Automation Driver Assistance Partial Automation Conditional Automation High Automation Full Automation Automation Level Unknown 98. Unknown
N	North																		
NE	Northeast																		
NW	Northwest																		
S	South																		
SE	Southeast																		
SW	Southwest																		
W	West																		
E	East																		
		<p>Private Trailer Type</p> <ol style="list-style-type: none"> Utility Travel Trailer Boat Trailer Farm Equipment Towed Auto Recreational Double Other 	<p>Automation System Level Engaged at Time of Crash</p> <ol style="list-style-type: none"> No Automation Driver Assistance Partial Automation Conditional Automation High Automation Full Automation Automation Level Unknown 98. Unknown 																

While many of the vehicles on the road today are not automated, some levels of automation do exist on newer vehicles. Common Level 1 (Driver Assistance) Systems can include:

Lane Keeping Assist	Adaptive Cruise Control
Parking Assist	Automatic Emergency Braking

SAE AUTOMATION LEVELS



Truck and Bus Crashes Reportable to FMCSA

REPORT A TRAFFIC CRASH IF IT INVOLVES...

Any truck that has a gross vehicle weight rating (GVWR) of more than 10,000 pounds or a gross combination weight rating (GCWR) of more than 10,000 pounds used on public highways

OR

Any motor vehicle with seating to transport nine (9) or more people, including the driver's seat

OR

Any motor vehicle displaying a hazardous materials placard (regardless of weight)

...AND RESULTS IN

A fatality: any person(s) killed in or outside of any vehicle (truck, bus, car, etc.) involved in the crash or who dies within 30 days of the crash as a result of an injury sustained in the crash

OR

An injury: any person(s) injured as a result of the crash who immediately receives medical treatment away from the crash scene

OR

A tow-away: any motor vehicle (truck, bus, car, etc.) disabled as a result of the crash and transported away from the scene by a tow truck or other vehicle

Revised 06/05

Federal Motor Carrier Safety Administration

U.S. Department of Transportation
www.fmcsa.dot.gov

Vehicle Configuration

1 Passenger Car (Only if Vehicle Has HM Placard) 	7 Truck/Trailer (Single-Unit Truck Pulling a Trailer)
2 Light Truck (Only if Vehicle Has HM Placard) 	8 Truck Tractor (Bobtail)
3 Bus (9-15 Seats, Including Driver) 	9 Tractor / Semi Trailer (One Trailer)
4 Bus (16 or More Seats, Including Driver) 	10 Truck Tractor / Double (Two Trailers)
5 Single-Unit (2 Axles, 6 Tires) 	11 Truck Tractor / Triple (Three Trailers)
6 Single-Unit (3 or More Axles) 	99 Unknown Heavy Truck > 10,000 lbs - Unclassified (Not Listed Above)

Cargo Body Type

1 Van / Enclosed Box 	6 Auto Transporter 	11 Log
2 Cargo Tank 	7 Garbage / Refuse 	12 Vehicle Towing Motor Vehicle
3 Flat Bed 	8 Grains, Chips, Gravel 	13 Bus (9-15 Seats, Including Driver)
4 Dump 	9 Pole 	14 Bus (16 or More Seats, Including Driver)
5 Concrete Mixer 	10 Intermodal Chassis 	15 No Cargo Body
		97 Other

CDL Endorsements

H Hazardous P Passenger
T Double/Triple S School Bus
N Tank X Tank and Hazardous

CDL-Class A

Any combination of vehicles with a GCWR of 26,001 pounds or more, provided the GVWR of any towed vehicles is 10,001 pounds or more.

CDL-Class B

Any single vehicle with a GVWR of 26,001 pounds or more, or any such vehicle towing a vehicle with a GVWR of 10,000 pounds or less.

CDL-Class C

Any single vehicle or combination of vehicles that do not meet the definition of Class A or Class B, but are designed to transport 16+ passengers including the driver, or is used to transport hazardous materials requiring a placard.

Section 5: Fatality Analysis Reporting System (FARS)

The Fatality Analysis Reporting System (FARS) gathers data on the most severe traffic crashes that occur each year - those that result in loss of human life.

The system was conceived, designed, and developed by the National Center for Statistics and Analysis (NCSA) of the National Highway Traffic Safety Administration (NHTSA) to provide an overall measure of highway safety, to help identify traffic safety problems, to suggest solutions, and to help provide an objective basis on which to evaluate the effectiveness of motor vehicle safety standards and highway safety programs.

FARS became operational in 1975 and contains data on fatal traffic crashes within 50 States, the District of Columbia, and Puerto Rico. To be included in FARS, a crash must involve a motor vehicle traveling on a trafficway open to the public and must result in the death of a person (vehicle occupants or non-motorist). Any fatal crash involving a snowmobile or ORV shall be submitted to FARS, regardless of where it occurred.

The FARS file contains descriptions, in a standard format, of each fatal crash reported. Each crash has more than 100 different coded data elements that characterize the crash, the vehicles, and the people involved. The specific data elements may be modified slightly each year to conform to changing user needs, vehicle characteristics, and highway safety emphasis areas. The FARS analyst reviews the UD-10 to complete all data elements reported on five forms:

- The **Crash Form** contains specific information such as the time and location of the crash, the first harmful event, the number of vehicles and people involved, and the weather conditions.
- The **Vehicle Form** contains data on each vehicle involved in the crash. Specific data includes the vehicle type, role in the crash, initial and principal impact points, the most harmful event, whether it is a hit-and-run crash, and whether a school bus was involved.
- The **Driver Form** contains driver's record and license status including mandated Commercial Drivers License information.
- The **Person Form** contains data on each person involved in the crash: his or her age and sex, role in the crash (i.e., driver, passenger, non-motorist), alcohol and drug involvement, injury severity, and restraint use.
- The **Pre-Crash Form** contains data describing roadway attributes, driver's actions, and details prior to the first harmful event.

The data collected within FARS do not include any personal identifying information such as names, addresses, or social security numbers. Thus, any data kept in FARS files are made available to the public to fully conform to the Privacy Act laws. An overview of FARS data is published in various fact sheets and in an annual report. These are all available to the public. The annual report contains a comprehensive analysis of the year's data and includes some past year's data with comparative analyses.

Michigan has participated in the FARS program since its inception. The FARS analyst gathers, translates, and enters data directly into NHTSA's central computer data file. Data is automatically checked when entered for acceptable range values and for consistency.

FARS data is used extensively within NHTSA; and, requests are received from sources such as state and local governments, research organizations, private citizens, the auto and insurance industries, Congress, and the media. Specific FARS data uses include the evaluation of:

- Alcohol related legislation
- Motorcycle helmet legislation
- Restraint usage legislation
- Speed limit laws
- Vehicle safety designs
- Large truck safety
- Air bag effectiveness

FARS data can be accessed at the state level by the FARS analyst to respond to state safety issues. Users may request specific data from the NCSA at no charge for most requests, generally within two weeks (allowing more time for complex or lengthy reports). Also, users can obtain a file on computer tape in one of several formats amenable to analysis. The FARS website address is: www-fars.nhtsa.dot.gov.

Section 5: Injury Code Index

An injury selection must be made for each driver/person that is recorded as a unit. The injury recorded should be based on the latest information available at the time the report was completed.

- K Fatal Injury (K)** – A fatal injury is any injury that results in death within 30 days after the motor vehicle crash in which the injury occurred.
- A Suspected Serious Injury (A)** – A suspected serious injury is any injury other than fatal which results in one or more of the following:
- Severe laceration resulting in exposure of underlying tissues/muscle/organs
 - Resulting in significant loss of blood
 - Broken or distorted extremity (arm or leg)
 - Crush injuries
 - Suspected skull, chest, or abdominal injury other than bruises or minor lacerations
 - Significant burns (second and third degree burns over 10 percent or more of the body)
 - Unconsciousness when taken from the crash scene
 - Paralysis
- B Suspected Minor Injury (B)** – A minor injury is any injury that is evident at the scene of the crash, other than fatal or serious injuries. Examples include lump on the head, abrasions, bruises, minor lacerations (cuts on the skin surface with minimal bleeding and no exposure of deeper tissue/muscle).
- C Possible Injury (C)** – A possible injury is any injury reported or claimed which is not a fatal, suspected serious or suspected minor injury. Examples include: momentary loss of consciousness, claim of injury, limping, or complaint of pain or nausea. Possible injuries are those that are reported by the person or are indicated by his/her behavior, but no wounds or injuries are readily evident.
- O No Apparent Injury (O)** – No apparent injury is a situation where there is no reason to believe that the person received any bodily harm from the motor vehicle crash. There is no physical evidence of injury, and the person does not report any change in normal function.

Section 5: The Michigan Motor Vehicle Code

Sections of the Motor Vehicle Code Pertaining to Traffic Crash Reporting

Please note that the department referenced in the statute sections listed below is the Michigan Department of Natural Resources.

257.617 Accident resulting in serious impairment of body function or death; stopping required; reporting to police agency or officer; violation as felony; penalty.

(1) The driver of a vehicle who knows or who has reason to believe that he or she has been involved in an accident upon public or private property that is open to travel by the public shall immediately stop his or her vehicle at the scene of the accident and shall remain there until the requirements of section 619 are fulfilled or immediately report the accident to the nearest or most convenient police agency or officer to fulfill the requirements of section 619(a) and (b) if there is a reasonable and honest belief that remaining at the scene will result in further harm. The stop shall be made without obstructing traffic more than is necessary.

(2) Except as provided in subsection (3), if the individual violates subsection (1) and the accident results in serious impairment of a body function or death, the individual is guilty of a felony punishable by imprisonment for not more than 5 years or by a fine of not more than \$5,000.00, or both.

(3) If the individual violates subsection (1) following an accident caused by that individual and the accident results in the death of another individual, the individual is guilty of a felony punishable by imprisonment for not more than 15 years or a fine of not more than \$10,000.00, or both.

257.617a Accident; personal injury; reporting to police agency or officer; stopping required; penalty; suspension of license.

(1) The driver of a vehicle who knows or who has reason to believe that he has been involved in an accident upon public or private property that is open to travel by the public shall immediately stop his or her vehicle at the scene of the accident and shall remain there until the requirements of section 619 are fulfilled or immediately report the accident to the nearest or most convenient police agency or officer to fulfill the requirements of section 619(a) and (b) if there is a reasonable and honest belief that remaining at the scene will result in further harm. The stop shall be made without obstructing traffic more than is necessary.

(2) If an individual violates subsection (1) and the accident results in injury to any individual, the individual is guilty of a misdemeanor punishable by imprisonment for not more than 1 year or a fine of not more than \$1,000.00, or both.

(3) The secretary of state shall suspend the operator's or chauffeur's license of an individual convicted of violating this section as provided in section 319.

257.618 Accidents; damage to vehicles; stopping required; reporting to police agency or officer; penalty.

(1) The driver of a vehicle who knows or who has reason to believe that he has been involved in an accident upon public or private property that is open to travel by the public shall immediately stop his or her vehicle at the scene of the accident and shall remain there until the requirements of section 619 are fulfilled or immediately report the accident to the nearest or most convenient police agency or officer to fulfill the requirements of section 619(a) and (b) if there is a reasonable and honest belief that remaining

at the scene will result in further harm. The stop shall be made without obstructing traffic more than is necessary.

(2) If an individual violates the requirements of subsection (1) and the accident results in damage to a vehicle operated by or attended by any individual, the individual is guilty of a misdemeanor punishable by imprisonment for not more than 90 days or a fine of not more than \$100.00, or both.

257.620 Accidents; attended or unattended vehicle; stopping; report.

The driver of any vehicle which collides upon either public or private property with any vehicle which is attended or unattended shall immediately stop and shall then and there either locate and notify the operator or owner of such vehicle of the name and address of the driver and owner of the vehicle striking the vehicle or, if such owner cannot be located, shall forthwith report it to the nearest or most convenient police officer.

257.621 Accidents; fixtures on or adjacent to highway; notification of owner; exhibition of driver's license; reports.

(a) The driver of any vehicle involved in an accident resulting only in damage to fixtures legally upon or adjacent to a highway shall take reasonable steps to locate and notify the owner or person in charge of such property of such accident and of his name and address and of the registration number of the vehicle he is driving and shall upon request exhibit his operator's or chauffeur's license and, if such owner cannot be found, shall forthwith report such accident to the nearest or most convenient police officer.

(b) The officer receiving such report, or his commanding officer shall forward each individual report to the director of state police on forms prescribed by him which shall be completed in full by the investigating officer. The director of state police shall analyze each report relative to the cause of the reported accident and shall prepare for public use the information compiled from the reports.

257.622 Report of accidents resulting in death, personal injury, or property damage; forms; analysis; use; retention.

The driver of a motor vehicle involved in an accident that injures or kills any person, or that damages property to an apparent extent totaling \$1,000.00 or more, shall immediately report that accident at the nearest or most convenient police station, or to the nearest or most convenient police officer. The officer receiving the report, or his or her commanding officer, shall immediately forward each report to the director of the department of state police on forms prescribed by the director of the department of state police. The forms shall be completed in full by the investigating officer. The director of the department of state police shall analyze each report relative to the cause of the reported accident and shall prepare information compiled from reports filed under this section for public use. A copy of the report under this section and copies of reports required under section 621, shall be retained for at least three years at the local police department, sheriff's department, or local state police post making the report.

324.82132 Accidents; notice; reports.

The operator of a snowmobile involved in an accident resulting in injuries to or the death of any person or property damage in an estimated amount of \$100.00 or more shall immediately by the quickest means of communication notify a state police officer or officers, the sheriff's office of the county in which the accident occurred, or the office of the police department of the local unit of government in which the accident occurred. The police agency receiving the notice shall complete a report of the accident on forms prescribed by the director of the department of state police and forward the report to the department of state police within 14 days after the date of the accident. The department of state police

shall forward a copy of all snowmobile accident reports to the department within 14 days after receipt of the accident report.

324.81143 Accident resulting in injury, death, or property damage; notice; report; report by medical facility; collection and evaluation of information; duties of operator.

(1) The operator of a vehicle involved in an accident resulting in injuries to, or the death of, a person, or resulting in property damage in an estimated amount of \$100.00 or more, shall immediately, by the quickest available means of communication, notify a state police officer, or the sheriff's office of the county in which the accident occurred. The police agency receiving the notice shall complete a report of the accident on forms prescribed by the director of the department of state police and forward the report to the department of state police and the department.

(2) A medical facility to which a person injured in an accident involving an ORV is transported shall report the accident to the department of state police.

(3) The department of state police, in cooperation with the department, shall collect and evaluate information concerning accidents involving ORVs.

(4) The operator of a vehicle involved in an accident upon public or private property resulting in injury to or the death of a person shall immediately stop at the scene of an accident and shall render to any person injured in the accident reasonable assistance in securing medical aid or transportation.

Section 5: Glossary

Some definitions given are for purposes of UD-10 completion only and should not be used for enforcement or prosecution purposes.

A	<p>Adult – The definition differs under federal and Michigan law. Federal law states an adult is a person who is 18 years of age or older. Michigan law states, an adult is a person who is 17 years of age or older. <i>(In this report, the definition follows Michigan law.)</i></p> <p>At-intersection crash – A traffic crash in which the first harmful event occurs within the limits of an intersection.</p>
B	<p>Bicycle – A non-motorized unit propelled by pedaling, regardless of the number of wheels, which can include tricycles, unicycles, and pedal cars.</p> <p>Bus – Any passenger-carrying vehicle used for hire and used to transport nine or more passengers, including the driver.</p>
C	<p>Commercial Motor Vehicle – Any motor vehicle used for the transportation of goods, property, or people in interstate or intrastate commerce.</p> <p>Contributing Circumstances – These are apparent external (out of the vehicle) conditions that may have contributed to the crash.</p> <p>Crash – An un-stabilized situation which includes at least one harmful event.</p>
D	<p>Distracted Driving – Distractions are actions or sources that may have influenced driver or non-motorist performance. There is no burden of proof needed when selecting a driver distraction. It is simply the officer's decision based upon their personal observations while investigating the traffic crash.</p> <p>Driving Under the Influence – The driving or operating of any vehicle while under the influence of liquor or drugs.</p>
F	<p>Farm tractor – Farm tractor means every motor vehicle designed and used primarily as a farm implement for drawing plows, mowing machines, and other implements of husbandry. MCL 257.16</p>
G	<p>Gross Combination Weight Rating (GCWR) – The value specified by the manufacturer as the maximum loaded weight of a combination vehicle. In the absence of a label, the GCWR can be calculated by adding the GVWR of the power unit to the GVWR of the vehicle(s) or trailer(s) being towed.</p> <p>Gross Vehicle Weight Rating (GVWR) – The maximum rated loaded weight in pounds of a single vehicle. Vehicle manufacturers specify the GVWR, and this can be found on the vehicle certification label.</p>
H	<p>Harmful event – An occurrence of injury or damage</p> <p>Highway or street – Highway or street means the entire width between the boundary lines of every way publicly maintained when any part of, thereof, is open to the use of the public for purposes of vehicular travel. MCL 257.20</p>

I	<p>Ignition Interlock Devices – Ignition Interlock device means an alcohol concentration measuring device that prevents a motor vehicle from being started at any time without first determining through a deep lung sample the operator’s breath alcohol level. MCL 257.625L</p> <p>Implement of husbandry – Implement of husbandry means a vehicle or trailer in use for the exclusive function of serving agriculture, horticulture, or livestock operations. Implement of husbandry includes a farm tractor, self-propelled application-type vehicle, farm wagon, farm trailer, a vehicle or trailer adapted for lifting or carrying another implement of husbandry, or any substantially similar equipment used to transport products necessary for agricultural production. MCL 257.21</p>
	<p>Moped – A Moped is a 2- or 3-wheeled vehicle to which both of the following apply:</p> <ul style="list-style-type: none"> (a) It is equipped with a motor that does not exceed 100 cubic centimeters piston displacement and cannot propel the vehicle at a speed greater than 30 miles per hour on a level surface. (A) Its power drive system does not require the operator to shift gears. MCL 257.32b <p>M Motorcycle – Motorcycle means every motor vehicle having a saddle or seat for the use of the rider and designed to travel on not more than three wheels in contact with the ground but excluding a tractor. MCL 257.31</p> <p>Motor home – Motor home means a motor vehicle constructed or altered to provide living quarters, including permanently installed cooking and sleeping facilities, and is used for recreation, camping, or other non-commercial use. MCL 257.32a</p> <p>Motor vehicle – Motor vehicle is <u>any</u> motorized road vehicle not operated on rails.</p>
N	<p>Non-traffic area – An area not designed for purposes of through vehicular travel. Generally, an area with roadways that is not part of the state, county, or local road system. Non-traffic areas include shopping center parking areas and service-access roads, parking ramps, parklands, and school properties.</p>
O	<p>ORV – ORV is a motor-driven, off-road recreation vehicle capable of cross-country travel without benefit of a road or trail, on or immediately over land, snow, ice, marsh, swampland, or other natural terrain.</p> <p>A multi-track or multi-wheel drive vehicle, a motorcycle or related two-wheel vehicle, a vehicle with three or more wheels, an amphibious machine, a ground effect air cushion vehicle, or other means of transportation may be an ORV. An ATV is an ORV.</p> <p>ORV or vehicle does not include a registered snowmobile, a farm vehicle being used for farming, a vehicle used for military, fire, emergency, or law enforcement purposes, a vehicle owned and operated by a utility company or an oil or gas company when performing maintenance on its facilities or on property over which it has an easement, a construction or logging vehicle used in performance of its common function, or a registered aircraft. MCL 324.81101</p>

P	Pedestrian – Person on foot; person on skis, skates, or roller blades; rider of a horse; horse and buggy (each occupant, including the driver, will be listed as a separate pedestrian unit); and, non-motorized wheelchair.
R	Roadway – Roadway means that part of a trafficway designed, improved, and ordinarily used for motor vehicle travel or, where various classes of motor vehicles are segregated, that part of a trafficway used by a particular class. Separate roadways may be provided for opposing directions of traffic for trucks and automobiles. ANSI D.16
S	<p>School bus – School bus means every motor vehicle, except station wagons, with a manufacturers’ rated seating capacity of 16 or more passengers, including the driver, owned by a public, private, or governmental agency and operated for the transportation of children to or from school, or privately owned and operated for compensation for the transportation of children to or from school.</p> <p>School bus does not include buses operated by a municipally owned transportation system or by a common passenger carrier certificated by the state transportation department. MCL 257.57</p> <p>Semi-trailer – Semi-trailer means every vehicle with or without motive power, other than a pole-trailer, designed for carrying persons or property and for being drawn by a motor vehicle and so constructed that some part of its weight and that of its load rests upon or is carried by another vehicle. Semi-trailer does not include any implement of husbandry. MCL 257.59</p> <p>Snowmobile – Snowmobile means any motor driven vehicle designed for travel primarily on snow or ice of a type which utilizes sled runners or skis, or an endless belt tread or any combination of these or other similar means of contact with the surface upon which it is operated; but is not a vehicle which must be registered under Act No. 300 of the Public Acts of 1949, as amended, being sections 257.1 to 257.923 of the Michigan Compiled Laws. MCL 324.82101</p>
T	<p>Traffic crash – A road vehicle crash in which the un-stabilized situation originates on a trafficway, or a harmful event occurs on a trafficway. ANSI D.16</p> <p>Trailer – Trailer means every vehicle with or without motive power, other than a pole-trailer, designed for carrying property or persons and for being drawn by a motor vehicle and so constructed that no part of its weight rests upon the towing vehicle. Trailer does not include any implement of husbandry. MCL 257.73</p> <p>Truck – Truck means every motor vehicle designed, used, or maintained primarily for the transportation of property. MCL 257.75</p> <p>Truck / Bus Unit – A commercial truck or truck/trailer having a GVWR or GCWR of 10,001 pounds or more, any vehicle displaying or requiring a hazardous material placard, or any vehicle designed or used to transport more than eight passengers including the driver.</p> <p>Truck Tractor – Truck tractor means every motor vehicle designed and used primarily for drawing other vehicles, and not so constructed as to carry a load other than a part of the weight of the vehicle and load so drawn, except that a truck tractor and semi-trailer</p>

engaged in the transportation of automobiles may transport motor vehicles on part of the power unit. MCL 257.77

V

Vehicle – Vehicle means every device in, upon, or by which any person or property is or may be transported or drawn upon a highway, except devices exclusively moved by human power or used exclusively upon stationary rails or tracks and except a mobile home. MCL 257.79