MICHIGAN STATE POLICE

TCRS

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2023
Statewide Traffic Crash Data
Year End Report

This 2023 annual report contains statewide traffic crash statistics compiled by the Michigan State Police, Criminal Justice Information Center.

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 25, 2024, for the 2023 annual report. Questions regarding this report can be directed to the TCRU at CrashTCRS@michigan.gov.

Section 1:
UD-10 Reporting Flow Chart

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┌─────────────────┐      ┌─────────────────┐      ┌─────────────────┐
│  UD-10 Report   │      │  Reports Load   │      │  Reports Load   │
│  Submitted by   │ ───► │ into the TCRS   │ ───► │ into the TCMS   │
│  Police Agency  │      │  for Quality    │      │ for Locations or│
│                 │      │   Control and   │      │   Corrections   │
│                 │      │     Errors      │      │                 │
└─────────────────┘      └─────────────────┘      └─────────────────┘
                                                           │
                                                           ▼
┌─────────────────┐      ┌─────────────────┐      ┌─────────────────┐
│ Reports Sent Back│     │                 │      │ Reports Sent to │
│ to the TCRS with │ ◄── │                 │ ◄── │ MDOS for Driver │
│ Locations and any│     │                 │      │  and Vehicle    │
│   Corrections    │     │                 │      │  Confirmations  │
└─────────────────┘      └─────────────────┘      └─────────────────┘
    │         │        │
    ▼         ▼        ▼
┌─────────┐ ┌─────────┐ ┌─────────┐
│ Reports │ │ Reports │ │ Reports │
│ Post to │ │ Post to │ │ Post to │
│Statewide│ │  MDOS   │ │TCPS for │
│Depository│ │ Driver  │ │Purchase │
│Database │ │ Records │ │         │
└─────────┘ └─────────┘ └─────────┘
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Section 2:
Statewide Crash Summary

2023 Summary:

- Traffic crashes decreased two percent from to 293,341 in 2022, to 287,953 in 2023 in Michigan.
- Fatalities decreased two percent from 1,123 in 2022, to 1,095 in 2023.
- Injuries increased one percent from 70,281 in 2022, to 71,085 in 2023.
- The majority of traffic crashes occurred in October and November.
- August had the largest number of fatal crashes with 113 reported crashes.
- The majority of traffic crashes occurred on Fridays with 47,235 crashes.
- Sundays 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 2019-2023

	2019	2020	2021	2022	2023
Total Crashes	314,377	245,432	282,640	293,341	287,953
Total Fatal Crashes	902	1,010	1,068	1,053	1,021
Total Fatalities	985	1,083	1,131	1,123	1,095
Total Injury Crashes	54,539	44,417	51,666	51,066	51,097
Total Injuries	74,963	60,986	71,246	70,281	71,085
Total Property Damage Crashes	258,936	200,005	229,906	241,222	235,835

	2019	2020	2021	2022	2023
Traffic Crashes	314,377	245,432	282,640	293,341	287,953
Fatalities	985	1,083	1,131	1,123	1,095

Traffic Crashes ■ Fatalities ──

Traffic Crashes by Month

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
24,555	20,552	22,976	20,092	23,740	23,938	21,780	22,934	22,313	30,350	30,993	23,730

Fatal Traffic Crashes by Month

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
75	59	54	87	88	110	105	113	94	90	79	67

Traffic Crashes by Day of Week

Sun	Mon	Tue	Wed	Thu	Fri	Sat
31,627	40,668	43,473	43,920	44,685	47,235	36,345

Fatal Traffic Crashes by Day of Week

Sun	Mon	Tue	Wed	Thu	Fri	Sat
168	133	128	137	130	162	163

Crashes by Time of Day

Time	Crashes
Midnight-2:59 a.m.	13,469
3 a.m.-5:59 a.m.	13,302
6 a.m.-8:59 a.m.	42,962
9 a.m.-11:59 a.m.	33,884
Noon-2:59 p.m.	47,046
3 p.m.-5:59 p.m.	64,600
6 p.m.-8:59 p.m.	45,764
9 p.m.-11:59 p.m.	26,718
Unknown	208

Fatal Crashes by Time of Day

Time	Fatal Crashes
Midnight-2:59 a.m.	109
3 a.m.-5:59 a.m.	79
6 a.m.-8:59 a.m.	96
9 a.m.-11:59 a.m.	100
Noon-2:59 p.m.	142
3 p.m.-5:59 p.m.	163
6 p.m.-8:59 p.m.	168
9 p.m.-11:59 p.m.	163
Unknown	1

Zero Traffic Fatality Days for Michigan in 2023				
January 3rd	January 5th	January 12th	February 1st	February 15th
February 28th	March 5th	March 6th	March 17th	March 18th
March 27th	March 29th	April 6th	April 24th	April 26th
May 23rd	July 19th	August 16th	September 17th	October 7th
October 8th	October 9th	November 7th	November 21st	November 28th
December 2nd	December 7th	December 12th	December 22nd	December 30th

Traffic Crash Fatality and Injury Statistics

2023 Fatality Summary:
- 1,095 traffic crash fatalities were reported in Michigan.
- 71.05 percent were male and 28.95 percent were female.
- 16.89 percent of fatalities were in age group 25-34.
- 49.04 percent of fatalities were reported as the driver.

Fatalities by Age and Gender

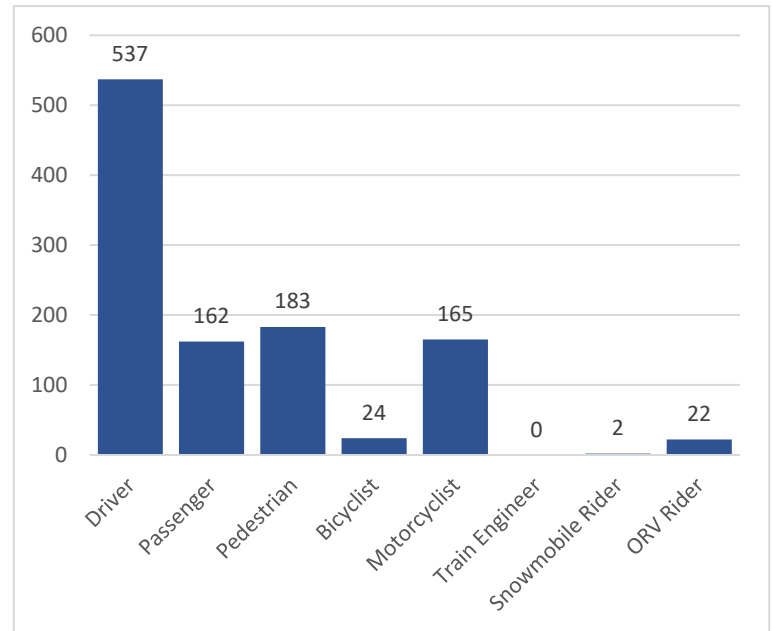| Age Range	Total	Male	Female	Non-Binary
< 1	1	1	0	0
1-3	3	0	3	0
4-10	9	5	4	0
11-15	15	13	2	0
16-20	75	55	20	0
21-24	88	67	21	0
25-34	185	122	63	0
35-44	169	132	37	0
45-54	131	95	36	0
55-64	152	120	32	0
65-74	148	100	48	0
75-84	80	44	36	0
85-94	39	24	15	0
> 95	0	0	0	0
Not Reported	0	0	0	0
Total:	**1,095**	**778**	**317**	**0**
Percentage:		**71.05%**	**28.95%**	**0.00%**

Fatalities by Party Type

Driver: 537, Passenger: 162, Pedestrian: 183, Bicyclist: 24, Motorcyclist: 165, Train Engineer: 0, Snowmobile Rider: 2, ORV Rider: 22

Fatality Restraint Use

No Belts Available: 191, Shoulder Belt Only Used: 1, Lap Belt Only Used: 4, Shoulder and Lap Belt: 335, No Belts Used: 216, Child - Forward Facing: 5, Child - Restraint Not Used: 1, Child - Rear Facing: 0, Child - Booster Seat: 1, Restraint Failure: 2, Restraint Use Unknown: 118, Helmet Worn: 84, Helmet Not Worn: 99, Helmet Use Unknown: 38, Not Reported: 0

Fatality Airbag Information

Deployed: 160, Not Deployed: 118, Not Equipped: 406, Deployed - Side: 19, Deployed - Curtain: 18, Deployed - Other: 1, Deployed - Combination: 321, Unknown: 52
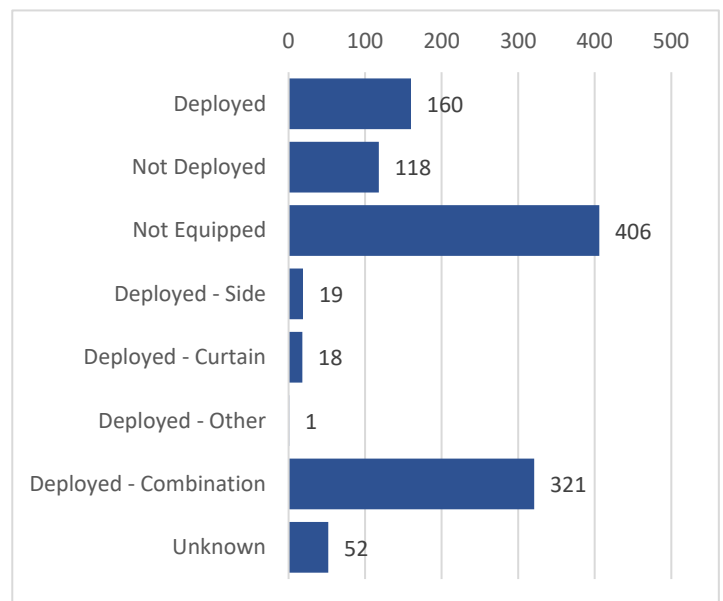
2023 Injury Summary:

- 71,085 traffic crash injuries were reported in Michigan.
- 48.83 percent were male, 51.08 percent were female, and 0.03 percent were non-binary.
- 20.44 percent of injuries were in age group 25-34.
- 69.11 percent of injuries were reported as the driver.

Injuries by Age and Gender

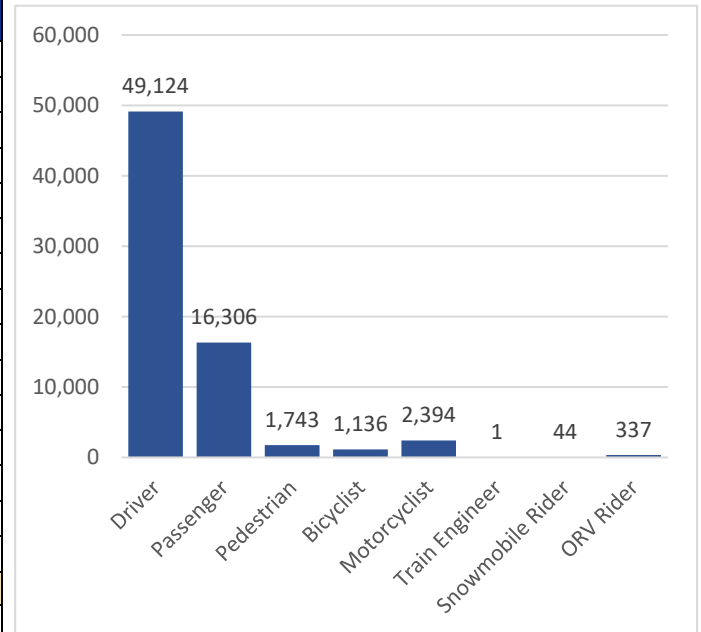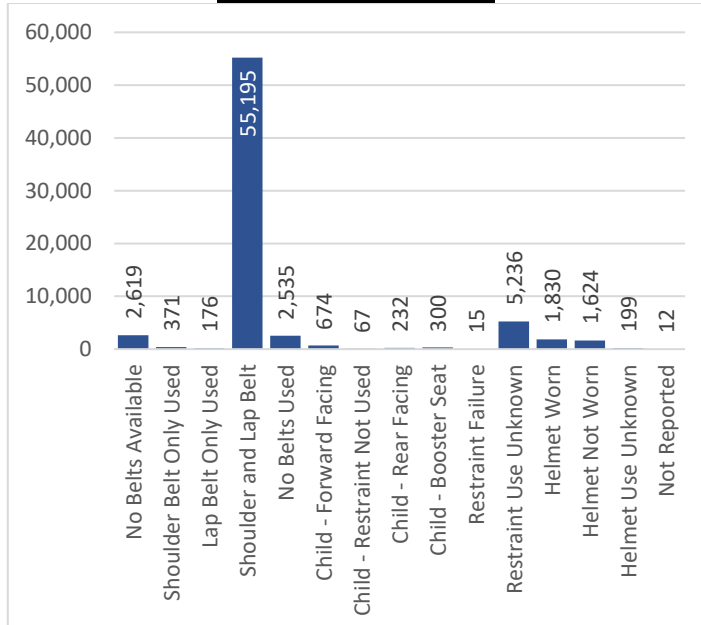| Age Range	Total	Male	Female	Non-Binary	Unknown
< 1	168	83	83	0	2
1-3	519	234	285	0	0
4-10	2,109	1,044	1,060	0	5
11-15	2,163	1,095	1,067	0	1
16-20	7,953	3,980	3,961	7	5
21-24	6,546	3,214	3,325	3	4
25-34	14,527	7,161	7,353	6	7
35-44	10,452	5,112	5,336	1	3
45-54	8,814	4,224	4,586	1	3
55-64	8,395	4,124	4,270	1	0
65-74	5,730	2,761	2,968	0	1
75-84	2,938	1,317	1,621	0	0
85-94	703	333	370	0	0
> 95	30	14	16	0	0
Not Reported	38	13	9	0	16
Total:	**71,085**	**34,709**	**36,310**	**19**	**47**
Percentage:		**48.83%**	**51.08%**	**0.03%**	**0.07%**

Injuries by Party Type

Driver: 49,124; Passenger: 16,306; Pedestrian: 1,743; Bicyclist: 1,136; Motorcyclist: 2,394; Train Engineer: 1; Snowmobile Rider: 44; ORV Rider: 337

Injury Restraint Use

No Belts Available: 2,619; Shoulder Belt Only Used: 371; Lap Belt Only Used: 176; Shoulder and Lap Belt: 55,195; No Belts Used: 2,535; Child - Forward Facing: 674; Child - Restraint Not Used: 67; Child - Rear Facing: 232; Child - Booster Seat: 300; Restraint Failure: 15; Restraint Use Unknown: 5,236; Helmet Worn: 1,830; Helmet Not Worn: 1,624; Helmet Use Unknown: 199; Not Reported: 12

Injury Airbag Information

Deployed: 12,741; Not Deployed: 28,692; Not Equipped: 6,373; Deployed - Side: 1,789; Deployed - Curtain: 1,733; Deployed - Other: 174; Deployed - Combination: 18,556; Unknown: 1,015; Not Reported: 12

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

Crash Type	Count
Single Motor Vehicle	104,722
Head On	3,100
Head On-Left Turn	7,017
Angle	44,567
Rear End	63,291
Rear End-Left Turn	1,926
Rear End-Right Turn	1,727
Sideswipe-Same	38,200
Sideswipe-Opposite	5,111
Backing	6,638
Other	9,560
Unknown	2,094

Fatal Traffic Crashes by Crash Type

Crash Type	Count
Single Motor Vehicle	476
Head On	120
Head On-Left Turn	41
Angle	189
Rear End	76
Rear End-Left Turn	3
Rear End-Right Turn	2
Sideswipe-Same	25
Sideswipe-Opposite	9
Backing	0
Other	76
Unknown	4

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	252,399
Speed Too Fast	21,535
Speed Too Slow	146
Failed to Yield	46,434
Disregard Traffic Control	10,806
Drove Wrong Way	420
Drove Left of Center	2,395
Improper Passing	3,261
Improper Lane Use	14,579
Improper Turn	5,875
Improper / No Signal	440
Improper Backing	6,195
Unable to Stop	57,513
Other	14,060
Unknown	28,593
Reckless Driving	2,594
Careless Driving	10,792
Not Reported	6,320
Total:	**484,357**

Hazardous Action Reported for Fatal Traffic Crashes

Hazardous Action	Total
None	686
Speed Too Fast	195
Speed Too Slow	1
Failed to Yield	117
Disregard Traffic Control	64
Drove Wrong Way	19
Drove Left of Center	61
Improper Passing	10
Improper Lane Use	16
Improper Turn	10
Improper / No Signal	1
Improper Backing	3
Unable to Stop	46
Other	62
Unknown	179
Reckless Driving	102
Careless Driving	77
Not Reported	14
Total:	**1,663**

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

Trafficway	Crashes
Interstate Route	32,313
US Route	24,580
M Route	60,028
Interstate Business Loop	4,091
US Business Route	2,372
M Business Route	74
Connector	536
Road, City Street or Unknown	163,702
Not Reported	257
Total:	**287,953**

Fatal Crash Totals by Trafficway

Trafficway	Crashes
Interstate Route	103
US Route	93
M Route	231
Interstate Business Loop	12
US Business Route	7
M Business Route	0
Connector	1
Road, City Street or Unknown	573
Not Reported	1
Total:	**1,021**

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	211,248
Wet	47,680
Ice	8,742
Snow	10,840
Mud, Dirt, Gravel	2,169
Slush	2,015
Debris	58
Water (Standing/Moving)	221
Sand	46
Oily	61
Other	89
Unknown	4,784
Not Reported	0
Total:	**287,953**

Fatal Crash Totals by Road Surface Condition

Road Condition	Crashes
Dry	817
Wet	140
Ice	20
Snow	16
Mud, Dirt, Gravel	16
Slush	6
Debris	0
Water (Standing/Moving)	2
Sand	0
Oily	0
Other	1
Unknown	3
Not Reported	0
Total:	**1,021**

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	388,015
Motor Home	1,124
Pickup Truck	57,767
Small Truck – Under 10,000	2,141
Motorcycle	3,161
Moped / Goped	417
Go-Cart / Golf Cart	50
Snowmobile	62
ORV	413
Truck / Bus	15,852
Other	1,863
Not Reported	17,203
Total:	**488,068**

Truck / Bus – Vehicle Configurations Involved in Traffic Crashes

Vehicle Configuration	Total
Passenger Car (HM)	2
Light Truck (HM)	20
Bus 9-15	327
Bus 16+	1,466
Single-Unit 2 Axles	4,695
Singe-Unit 3+ Axles	1,515
Truck / Trailer	1,461
Truck Tractor (Bobtail)	197
Tractor / Semi-Trailer	5,201
Tractor / Doubles	459
Tractor / Triples	4
Unknown Heavy Truck	505
Total:	**15,852**

Vehicle Type Involved in Fatal Traffic Crashes

Vehicle Type	Total
Passenger Car, SUV, Van	1,067
Motor Home	1
Pickup Truck	247
Small Truck – Under 10,000	8
Motorcycle	173
Moped / Goped	12
Go-Cart / Golf Cart	3
Snowmobile	2
ORV	22
Truck / Bus	100
Other	12
Not Reported	238
Total:	**1,885**

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+	9
Single-Unit 2 Axles	22
Singe-Unit 3+ Axles	7
Truck / Trailer	4
Truck Tractor (Bobtail)	2
Tractor / Semi-Trailer	51
Tractor / Doubles	4
Tractor / Triples	0
Unknown Heavy Truck	0
Total:	**100**

Total Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Alcona County	562	1	1	41	52	520
Alger County	232	1	1	44	57	187
Allegan County	3,894	12	13	506	730	3,376
Alpena County	728	2	2	118	152	608
Antrim County	959	1	1	108	155	850
Arenac County	738	4	6	84	114	650
Baraga County	237	2	2	28	44	207
Barry County	1,527	8	9	224	308	1,295
Bay County	2,905	15	15	477	658	2,413
Benzie County	590	6	6	50	64	534
Berrien County	4,455	16	18	799	1,122	3,640
Branch County	1,668	1	1	146	187	1,521
Calhoun County	4,860	24	26	698	940	4,138
Cass County	1,441	9	9	191	273	1,241
Charlevoix County	903	1	1	60	75	842
Cheboygan County	927	3	3	99	126	825
Chippewa County	927	3	3	134	175	790
Clare County	1,090	8	9	138	203	944
Clinton County	2,344	9	12	213	304	2,122
Crawford County	515	2	2	69	92	444
Delta County	1,057	6	7	106	143	945
Dickinson County	859	1	1	96	124	762
Eaton County	2,845	10	13	441	631	2,394
Emmet County	1,133	5	5	113	162	1,015
Genesee County	10,059	57	59	2,177	3,102	7,825
Gladwin County	761	2	3	80	103	679
Gogebic County	266	0	0	41	53	225
Grand Traverse County	3,261	15	17	509	720	2,737
Gratiot County	1,608	7	7	163	214	1,438
Hillsdale County	1,837	5	6	204	259	1,628
Houghton County	745	2	2	99	123	644
Huron County	1,574	4	4	131	200	1,439
Ingham County	7,849	28	30	1,508	2,117	6,313
Ionia County	1,575	11	11	236	346	1,328
Iosco County	649	4	4	98	131	547
Iron County	382	2	2	31	37	349
Isabella County	2,367	10	11	312	460	2,045
Jackson County	5,008	28	29	720	1,002	4,260

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Kalamazoo County	7,619	41	44	1,265	1,736	6,313
Kalkaska County	695	4	4	98	150	593
Kent County	18,767	60	64	3,691	4,953	15,016
Keweenaw County	44	1	1	12	17	31
Lake County	362	2	3	52	73	308
Lapeer County	2,965	13	13	417	585	2,535
Leelanau County	722	1	1	79	104	642
Lenawee County	2,478	16	19	406	574	2,056
Livingston County	4,813	12	13	694	933	4,107
Luce County	153	0	0	25	35	128
Mackinac County	531	4	6	49	69	478
Macomb County	22,405	51	53	4,903	6,838	17,451
Manistee County	942	6	6	84	132	852
Marquette County	1,517	2	2	213	272	1,302
Mason County	1,228	5	5	126	185	1,097
Mecosta County	1,614	3	3	183	248	1,428
Menominee County	291	4	4	75	99	212
Midland County	2,533	7	7	320	471	2,206
Missaukee County	706	3	3	69	105	634
Monroe County	3,566	22	23	696	977	2,848
Montcalm County	1,751	9	11	239	340	1,503
Montmorency County	345	1	1	36	45	308
Muskegon County	4,774	21	22	811	1,128	3,942
Newaygo County	1,517	10	10	238	342	1,269
Oakland County	35,386	53	54	6,683	9,212	28,650
Oceana County	1,177	3	4	125	162	1,049
Ogemaw County	826	2	2	122	168	702
Ontonagon County	240	2	2	24	28	214
Osceola County	1,078	4	4	108	162	966
Oscoda County	231	5	5	31	39	195
Otsego County	840	2	2	115	164	723
Ottawa County	7,825	17	17	1,298	1,783	6,510
Presque Isle County	610	2	2	39	54	569
Roscommon County	681	8	12	109	154	564
Saginaw County	5,040	19	21	949	1,376	4,072
Sanilac County	1,514	10	11	132	185	1,372
Schoolcraft County	316	0	0	29	40	287
Shiawassee County	2,201	9	10	289	407	1,903
St. Clair County	3,734	21	22	609	809	3,104

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
St. Joseph County	1,685	10	11	271	368	1,404
Tuscola County	1,779	2	2	234	308	1,543
Van Buren County	2,230	11	12	327	464	1,892
Washtenaw County	10,037	20	22	1,743	2,300	8,274
Wayne County	51,507	190	201	11,610	16,481	39,707
Wexford County	1,341	8	10	177	252	1,156
Total:	287,953	1,021	1,095	51,097	71,085	235,835

Section 3:
Reports by Crash Indicators

2023 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.

2023 Summary:
- Alcohol involved fatalities decreased eight percent, from 322 in 2022, to 297 in 2023.
- October and December had the highest number of alcohol involved crashes.
- Saturdays had the highest number of alcohol involved crashes.
- The majority of alcohol involved crashes occurred between 9 p.m. and 2:59 a.m.

Alcohol Involved Traffic Crash Statistics for 2019-2023

	2019	2020	2021	2022	2023
Total Alcohol Involved Crashes	9,787	9,078	9,557	9,331	8,817
Total Alcohol Involved Fatal Crashes	226	303	336	301	272
Total Alcohol Involved Fatalities	295	326	357	322	297

Age and Gender for Alcohol Involved Crashes

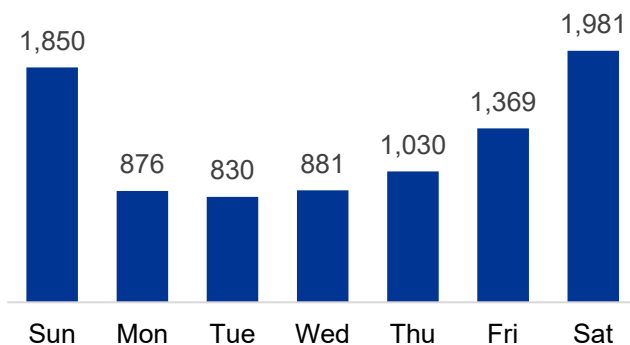| Age Range	Total	Male	Female	Non-Binary	Unknown
< 1	38	17	21	0	0
1-3	131	64	67	0	0
4-10	342	165	176	0	1
11-15	270	143	127	0	0
16-20	1,294	769	525	0	0
21-24	1,847	1,139	704	1	3
25-34	4,175	2,592	1,581	0	2
35-44	2,938	1,905	1,031	0	2
45-54	2,087	1,377	709	0	1
55-64	1,579	1,047	532	0	0
65-74	725	490	235	0	0
75-84	212	140	72	0	0
85-94	36	22	14	0	0
> 95	5	1	2	0	2
Not Reported	1,089	34	13	0	1,042
Total:	**16,768**	**9,905**	**5,809**	**1**	**1,053**
Percentage:		**59.07%**	**34.64%**	**0.01%**	**6.28%**

Restraint Use for Alcohol Involved Crashes
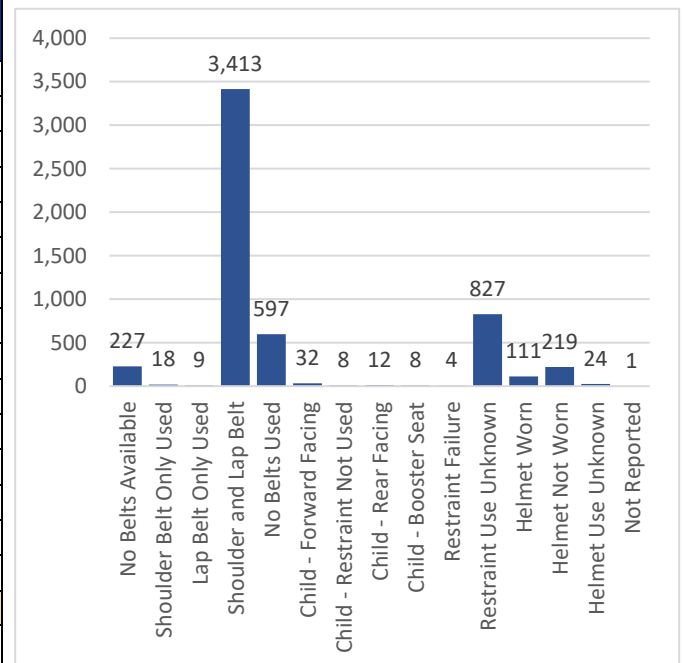
Both charts include all party types involved in an alcohol involved crash (driver, passenger, pedestrian, bicyclist or engineer (train). Only fatal and injured persons are included in the restraint use statistics.
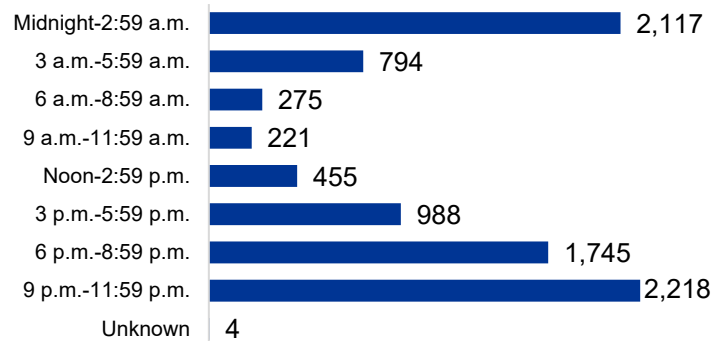
Alcohol Involved Traffic Crashes by Month
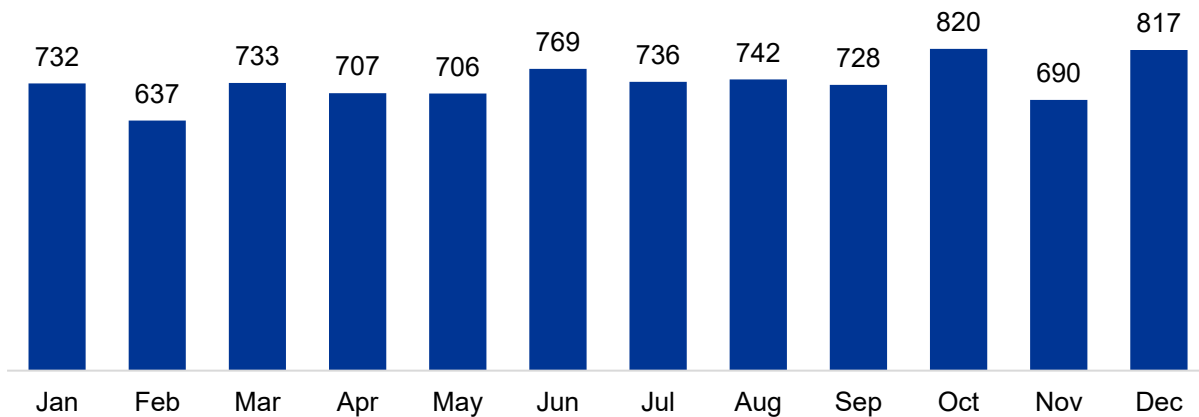
Month	Crashes
Jan	732
Feb	637
Mar	733
Apr	707
May	706
Jun	769
Jul	736
Aug	742
Sep	728
Oct	820
Nov	690
Dec	817

Alcohol Involved Traffic Crashes by Day of Week

Day	Crashes
Sun	1,850
Mon	876
Tue	830
Wed	881
Thu	1,030
Fri	1,369
Sat	1,981

Alcohol Involved Traffic Crashes by Time of Day

Time	Crashes
Midnight-2:59 a.m.	2,117
3 a.m.-5:59 a.m.	794
6 a.m.-8:59 a.m.	275
9 a.m.-11:59 a.m.	221
Noon-2:59 p.m.	455
3 p.m.-5:59 p.m.	988
6 p.m.-8:59 p.m.	1,745
9 p.m.-11:59 p.m.	2,218
Unknown	4

Alcohol Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Alcona County	10	0	0	5	5	5
Alger County	10	1	1	2	3	7
Allegan County	126	1	1	50	69	75
Alpena County	23	1	1	8	12	14
Antrim County	27	0	0	15	22	12
Arenac County	25	0	0	13	17	12
Baraga County	9	1	1	6	13	2
Barry County	47	4	4	23	33	20
Bay County	106	6	6	39	53	61
Benzie County	30	2	2	8	9	20

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Berrien County	155	5	5	65	83	85
Branch County	40	1	1	14	20	25
Calhoun County	145	7	9	53	69	85
Cass County	50	4	4	22	32	24
Charlevoix County	20	0	0	9	10	11
Cheboygan County	30	2	2	11	14	17
Chippewa County	33	1	1	15	24	17
Clare County	20	4	4	6	9	10
Clinton County	55	3	3	23	29	29
Crawford County	23	1	1	12	18	10
Delta County	33	2	2	17	20	14
Dickinson County	19	1	1	7	11	11
Eaton County	84	3	3	29	45	52
Emmet County	35	2	2	15	20	18
Genesee County	372	15	16	177	262	180
Gladwin County	30	0	0	12	18	18
Gogebic County	13	0	0	4	6	9
Grand Traverse County	109	4	4	40	48	65
Gratiot County	41	1	1	18	22	22
Hillsdale County	36	2	2	23	28	11
Houghton County	42	2	2	22	24	18
Huron County	24	0	0	10	10	14
Ingham County	205	8	10	98	140	99
Ionia County	50	2	2	19	33	29
Iosco County	35	2	2	14	16	19
Iron County	14	1	1	6	8	7
Isabella County	63	2	2	29	45	32
Jackson County	157	6	7	70	108	81
Kalamazoo County	238	10	10	95	142	133
Kalkaska County	23	0	0	11	13	12
Kent County	783	20	23	296	411	467
Keweenaw County	7	1	1	3	4	3
Lake County	9	0	0	3	4	6
Lapeer County	91	3	3	40	54	48
Leelanau County	32	0	0	11	13	21
Lenawee County	77	0	0	34	49	43
Livingston County	157	5	6	62	87	90
Luce County	5	0	0	4	4	1

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Mackinac County	16	2	3	6	10	8
Macomb County	639	10	10	249	369	380
Manistee County	27	3	3	12	23	12
Marquette County	65	0	0	26	38	39
Mason County	20	1	1	8	10	11
Mecosta County	27	0	0	10	11	17
Menominee County	22	3	3	7	9	12
Midland County	60	3	3	24	30	33
Missaukee County	20	0	0	5	8	15
Monroe County	158	6	7	54	66	98
Montcalm County	63	5	6	29	37	29
Montmorency County	14	0	0	7	9	7
Muskegon County	166	5	5	82	121	79
Newaygo County	48	2	2	22	26	24
Oakland County	920	12	13	378	558	530
Oceana County	33	1	2	13	13	19
Ogemaw County	19	0	0	14	20	5
Ontonagon County	8	0	0	5	6	3
Osceola County	28	0	0	12	17	16
Oscoda County	11	4	4	4	7	3
Otsego County	26	0	0	14	19	12
Ottawa County	265	3	3	99	124	163
Presque Isle County	11	1	1	5	7	5
Roscommon County	32	2	2	17	23	13
Saginaw County	174	5	6	74	106	95
Sanilac County	21	2	2	10	12	9
Schoolcraft County	7	0	0	2	6	5
Shiawassee County	96	1	1	43	52	52
St. Clair County	173	5	5	76	93	92
St. Joseph County	65	4	5	23	30	38
Tuscola County	67	1	1	28	33	38
Van Buren County	82	3	4	35	48	44
Washtenaw County	267	7	8	134	184	126
Wayne County	1,360	43	48	567	875	750
Wexford County	39	2	3	16	24	21
Total:	**8,817**	**272**	**297**	**3,678**	**5,213**	**4,867**

2023 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.

2023 Summary:
- Drug involved fatalities increased three percent, from 249 in 2022, to 256 in 2023.
- October had the highest number of drug involved crashes with 209 total crashes.
- Saturdays and Sundays had the highest number of drug involved crashes.
- The majority of drug involved crashes occurred between 6 p.m. and 11:59 p.m.

Drug Involved Traffic Crash Statistics for 2019-2023

	2019	2020	2021	2022	2023
Total Drug Involved Crashes	2,598	3,040	2,999	2,452	2,250
Total Drug Involved Fatal Crashes	214	250	259	229	230
Total Drug Involved Fatalities	237	267	275	249	256

Age and Gender for Drug Involved Crashes

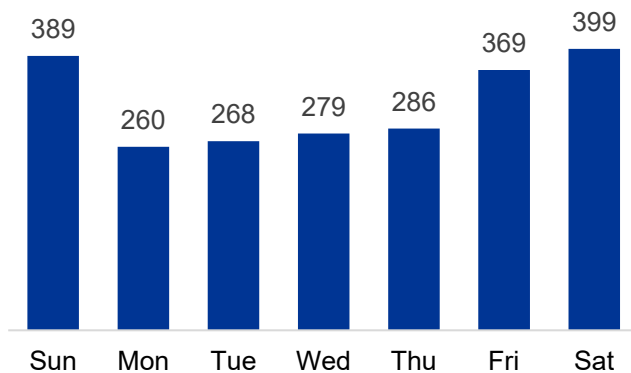| Age Range	Total	Male	Female	Non-Binary	Unknown
< 1	11	3	8	0	0
1-3	48	15	33	0	0
4-10	89	41	48	0	0
11-15	85	48	37	0	0
16-20	406	259	147	0	0
21-24	430	283	146	0	1
25-34	1,053	683	369	0	1
35-44	807	542	265	0	0
45-54	557	354	202	0	1
55-64	385	251	134	0	0
65-74	187	133	54	0	0
75-84	76	42	34	0	0
85-94	13	6	7	0	0
> 95	0	0	0	0	0
Not Reported	205	2	0	0	203
Total:	**4,352**	**2,662**	**1,484**	**0**	**206**
Percentage:		**61.17%**	**34.10%**	**0.00%**	**4.73%**

Restraint Use for Drug Involved Crashes
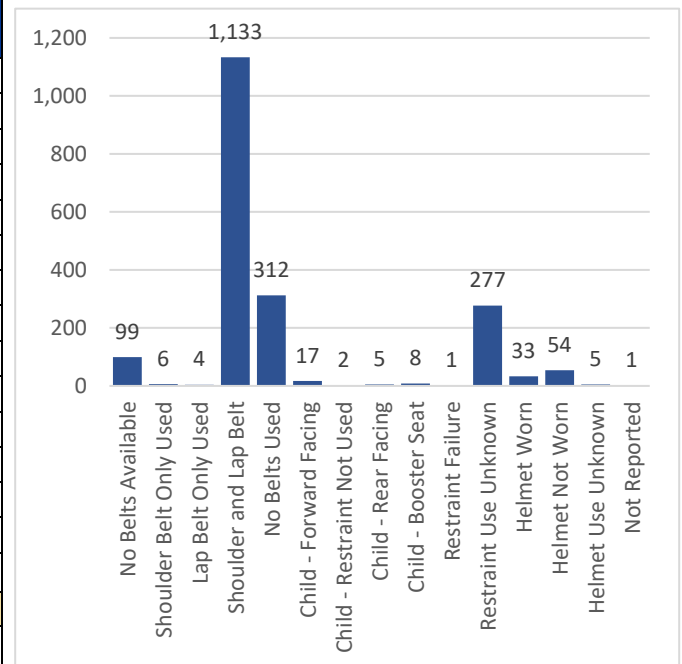
Both charts include all party types involved in a drug involved crash (driver, passenger, pedestrian, bicyclist or engineer (train). Only fatal and injured persons are included in the restraint use statistics.
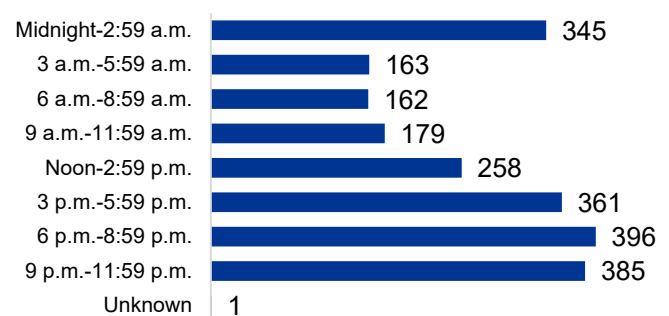
Drug Involved Traffic Crashes by Month
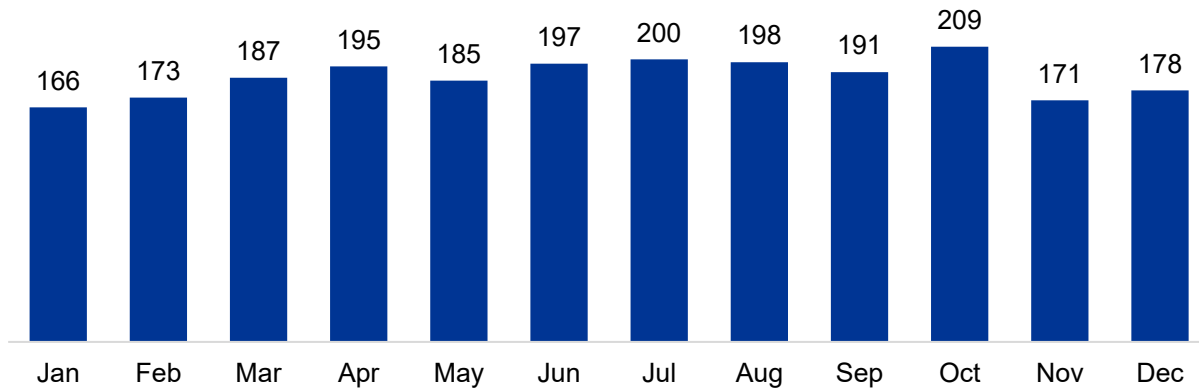
Month	Crashes
Jan	166
Feb	173
Mar	187
Apr	195
May	185
Jun	197
Jul	200
Aug	198
Sep	191
Oct	209
Nov	171
Dec	178

Drug Involved Traffic Crashes by Day of Week

Day	Crashes
Sun	389
Mon	260
Tue	268
Wed	279
Thu	286
Fri	369
Sat	399

Drug Involved Traffic Crashes by Time of Day

Time	Crashes
Midnight-2:59 a.m.	345
3 a.m.-5:59 a.m.	163
6 a.m.-8:59 a.m.	162
9 a.m.-11:59 a.m.	179
Noon-2:59 p.m.	258
3 p.m.-5:59 p.m.	361
6 p.m.-8:59 p.m.	396
9 p.m.-11:59 p.m.	385
Unknown	1

Drug Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Alcona County	2	0	0	2	3	0
Alger County	3	0	0	2	2	1
Allegan County	31	2	2	14	23	15
Alpena County	11	1	1	4	5	6
Antrim County	6	0	0	6	7	0
Arenac County	3	0	0	0	0	3
Baraga County	5	1	1	4	8	0
Barry County	9	4	5	3	10	2
Bay County	15	2	2	6	9	7
Benzie County	3	0	0	2	5	1

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Berrien County	48	5	5	21	34	22
Branch County	7	0	0	3	4	4
Calhoun County	35	7	7	10	14	18
Cass County	14	3	3	5	10	6
Charlevoix County	11	1	1	4	7	6
Cheboygan County	13	0	0	5	7	8
Chippewa County	14	0	0	11	14	3
Clare County	12	3	3	8	15	1
Clinton County	26	4	7	12	23	10
Crawford County	5	0	0	3	7	2
Delta County	16	4	5	6	10	6
Dickinson County	7	0	0	4	7	3
Eaton County	20	1	1	7	16	12
Emmet County	13	1	1	9	14	3
Genesee County	113	13	13	68	93	32
Gladwin County	3	0	0	2	2	1
Gogebic County	3	0	0	1	1	2
Grand Traverse County	31	2	2	13	14	16
Gratiot County	16	0	0	7	10	9
Hillsdale County	12	4	5	6	10	2
Houghton County	10	0	0	4	5	6
Huron County	8	1	1	3	5	4
Ingham County	47	4	5	21	44	22
Ionia County	19	2	2	6	14	11
Iosco County	4	0	0	2	2	2
Iron County	3	0	0	1	2	2
Isabella County	12	3	3	7	8	2
Jackson County	44	6	6	16	33	22
Kalamazoo County	47	8	10	22	45	17
Kalkaska County	14	1	1	5	7	8
Kent County	150	17	19	67	104	66
Lake County	2	0	0	0	0	2
Lapeer County	22	3	3	10	19	9
Leelanau County	8	0	0	0	0	8
Lenawee County	24	3	6	15	28	6
Livingston County	34	4	4	13	19	17
Luce County	5	0	0	2	2	3
Mackinac County	9	0	0	4	5	5

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Macomb County	161	12	12	78	137	71
Manistee County	3	0	0	2	2	1
Marquette County	22	0	0	12	20	10
Mason County	8	0	0	4	4	4
Mecosta County	5	0	0	4	5	1
Menominee County	4	0	0	1	1	3
Midland County	15	1	1	7	9	7
Missaukee County	6	0	0	4	4	2
Monroe County	47	10	11	18	28	19
Montcalm County	24	5	5	13	26	6
Montmorency County	3	0	0	2	2	1
Muskegon County	37	10	11	14	34	13
Newaygo County	13	3	3	7	9	3
Oakland County	215	7	8	107	151	101
Oceana County	13	1	1	10	10	2
Ogemaw County	5	1	1	3	7	1
Ontonagon County	2	0	0	2	3	0
Osceola County	13	0	0	9	12	4
Oscoda County	3	1	1	2	3	0
Otsego County	7	2	2	2	3	3
Ottawa County	54	4	4	24	34	26
Presque Isle County	1	0	0	0	0	1
Roscommon County	13	5	8	5	9	3
Saginaw County	53	2	3	29	41	22
Sanilac County	3	0	0	2	2	1
Schoolcraft County	2	0	0	0	0	2
Shiawassee County	22	0	0	7	8	15
St. Clair County	41	7	7	17	23	17
St. Joseph County	21	3	4	12	15	6
Tuscola County	27	1	1	11	13	15
Van Buren County	24	4	4	12	27	8
Washtenaw County	95	5	5	56	80	34
Wayne County	308	34	37	151	245	123
Wexford County	11	2	3	6	8	3
Total:	**2,250**	**230**	**256**	**1,079**	**1,701**	**941**

2023 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.

2023 Summary:
- Distracted driver involved fatalities increased four percent, from 57 in 2022, to 59 in 2023.
- May and August had the highest number of distracted driver involved crashes.
- Tuesdays 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 2019-2023

	2019	2020	2021	2022	2023
Total Distracted Driver Involved Crashes	18,096	14,326	16,543	15,441	15,136
Total Distracted Driver Involved Fatal Crashes	65	48	59	53	56
Total Distracted Driver Involved Fatalities	70	52	59	57	59

Age and Gender for Distracted Driver Involved Crashes

Age Range	Total	Male	Female	Non-Binary	Unknown
< 1	127	67	56	0	4
1-3	547	265	282	0	0
4-10	1,223	620	603	0	0
11-15	866	417	447	0	2
16-20	4,342	2,366	1,971	2	3
21-24	3,086	1,681	1,402	1	2
25-34	7,083	3,826	3,249	6	2
35-44	5,380	2,876	2,501	0	3
45-54	4,189	2,300	1,887	0	2
55-64	3,756	2,137	1,618	0	1
65-74	2,404	1,287	1,116	0	1
75-84	1,051	552	499	0	0
85-94	189	98	91	0	0
> 95	7	3	4	0	0
Not Reported	1651	99	56	0	1,496
Total:	**35,901**	**18,594**	**15,782**	**9**	**1,516**
Percentage:		**51.79%**	**43.96%**	**0.03%**	**4.22%**

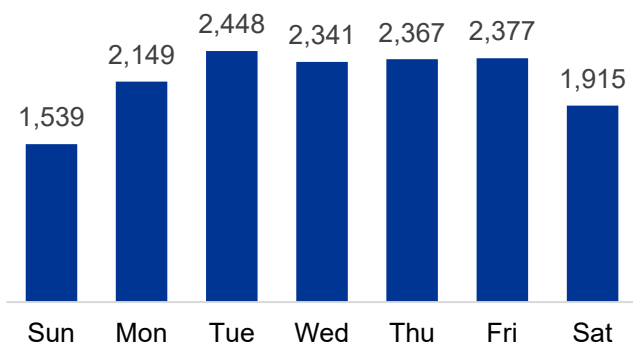### Restraint Use for Distracted Driver Involved Crashes
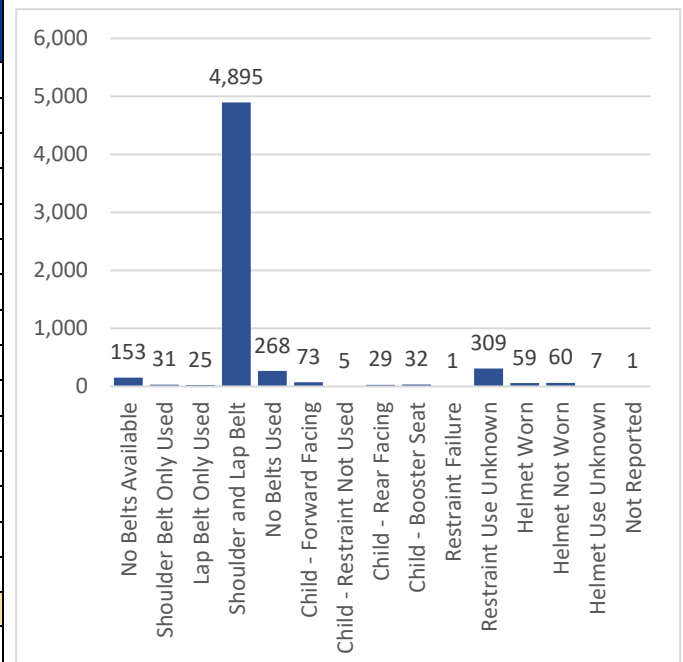
Both charts include all party types involved in a driver distracted involved crash (driver, passenger, pedestrian, bicyclist or engineer (train). Only fatal and injured persons are included in the restraint use statistics.
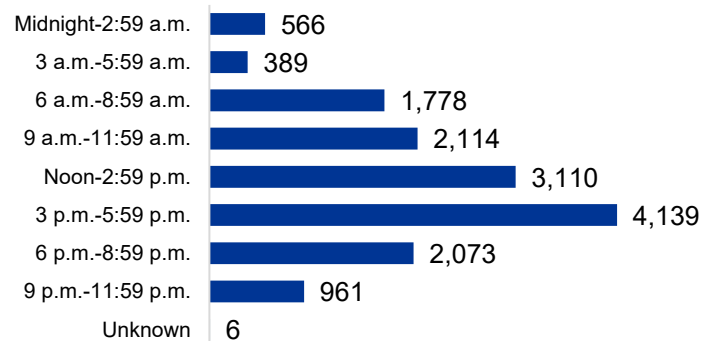
Distracted Driver Involved Traffic Crashes by Month
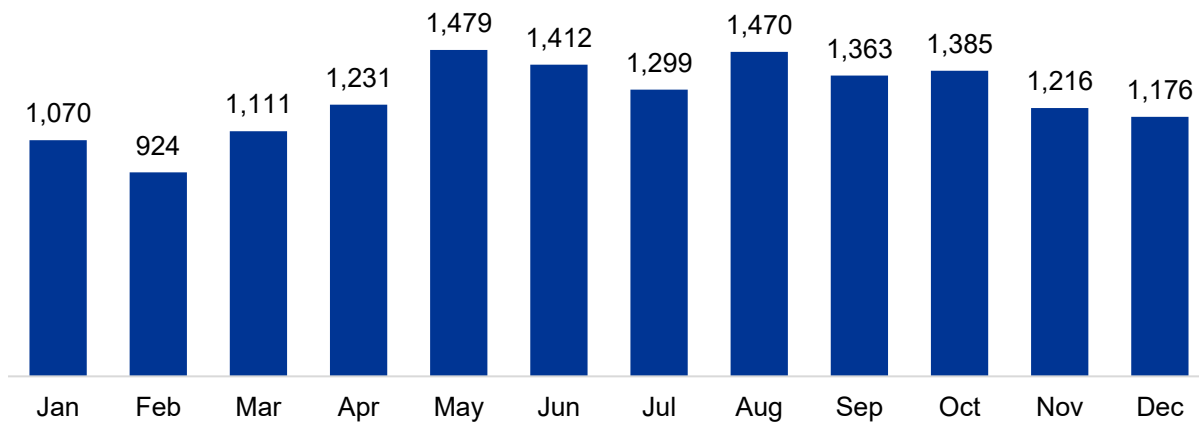
Jan: 1,070
Feb: 924
Mar: 1,111
Apr: 1,231
May: 1,479
Jun: 1,412
Jul: 1,299
Aug: 1,470
Sep: 1,363
Oct: 1,385
Nov: 1,216
Dec: 1,176

Distracted Driver Involved Traffic Crashes by Day of Week

Sun: 1,539
Mon: 2,149
Tue: 2,448
Wed: 2,341
Thu: 2,367
Fri: 2,377
Sat: 1,915

Distracted Driver Involved Traffic Crashes by Time of Day

Midnight-2:59 a.m.: 566
3 a.m.-5:59 a.m.: 389
6 a.m.-8:59 a.m.: 1,778
9 a.m.-11:59 a.m.: 2,114
Noon-2:59 p.m.: 3,110
3 p.m.-5:59 p.m.: 4,139
6 p.m.-8:59 p.m.: 2,073
9 p.m.-11:59 p.m.: 961
Unknown: 6

Driver Distractions Reported in Traffic Crashes

Driver Distraction	Total
Not Distracted	12,161
Communication Device (Text, Type, Dial)	1,726
Hands-Free Device (Talk)	205
Hands-Held Device (Talk)	338
Electronic Device – Other	1,610
Passenger	735
Other Activity Inside Vehicle	5,696
Activity Outside Vehicle	5,041
Unknown	1,693
Not Reported	2
Total:	29,207

Driver Distractions Reported in Fatal Traffic Crashes

Driver Distraction	Total
Not Distracted	33
Communication Device (Text, Type, Dial)	6
Hands-Free Device (Talk)	5
Hands-Held Device (Talk)	0
Electronic Device – Other	6
Passenger	7
Other Activity Inside Vehicle	16
Activity Outside Vehicle	17
Unknown	21
Not Reported	0
Total:	111

Distracted Driver Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Alcona County	10	0	0	4	4	6
Alger County	7	0	0	1	1	6
Allegan County	213	1	1	62	91	150
Alpena County	29	0	0	9	11	20
Antrim County	29	0	0	7	12	22
Arenac County	26	0	0	7	8	19
Baraga County	9	1	1	4	9	4
Barry County	54	1	1	24	38	29
Bay County	163	1	1	45	64	117
Benzie County	19	0	0	4	5	15
Berrien County	248	0	0	72	95	176
Branch County	40	0	0	12	13	28
Calhoun County	171	1	1	47	63	123
Cass County	61	0	0	17	22	44
Charlevoix County	16	1	1	3	5	12
Cheboygan County	14	0	0	4	7	10
Chippewa County	45	0	0	13	21	32
Clare County	53	0	0	13	18	40
Clinton County	86	0	0	26	39	60
Crawford County	13	0	0	4	8	9
Delta County	39	0	0	12	16	27
Dickinson County	34	0	0	10	12	24
Eaton County	123	0	0	32	43	91
Emmet County	50	1	1	13	24	36
Genesee County	508	3	3	146	215	359
Gladwin County	18	0	0	5	8	13
Gogebic County	19	0	0	3	4	16
Grand Traverse County	242	0	0	61	91	181
Gratiot County	52	0	0	15	20	37
Hillsdale County	51	1	1	17	22	33
Houghton County	29	0	0	10	14	19
Huron County	33	0	0	11	16	22
Ingham County	530	2	2	138	185	390
Ionia County	63	1	1	14	27	48
Iosco County	23	0	0	6	9	17
Iron County	11	1	1	2	4	8

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Isabella County	109	0	0	39	60	70
Jackson County	237	0	0	55	77	182
Kalamazoo County	469	3	3	119	174	347
Kalkaska County	24	1	1	7	17	16
Kent County	1,339	4	5	347	470	988
Keweenaw County	4	0	0	1	2	3
Lake County	5	0	0	2	2	3
Lapeer County	117	1	1	42	60	74
Leelanau County	25	0	0	10	14	15
Lenawee County	118	2	2	39	66	77
Livingston County	283	0	0	78	108	205
Luce County	5	0	0	0	0	5
Mackinac County	10	0	0	2	2	8
Macomb County	1,588	3	3	443	638	1,142
Manistee County	32	0	0	10	14	22
Marquette County	86	0	0	18	22	68
Mason County	43	0	0	12	17	31
Mecosta County	54	0	0	11	17	43
Menominee County	30	0	0	13	19	17
Midland County	144	0	0	34	57	110
Missaukee County	19	0	0	5	7	14
Monroe County	227	1	1	58	85	168
Montcalm County	91	0	0	30	38	61
Montmorency County	7	0	0	3	5	4
Muskegon County	186	0	0	60	80	126
Newaygo County	68	0	0	25	59	43
Oakland County	2,132	5	5	554	752	1,573
Oceana County	36	1	1	6	8	29
Ogemaw County	24	0	0	7	10	17
Ontonagon County	7	0	0	2	2	5
Osceola County	25	1	1	11	15	13
Oscoda County	7	0	0	2	2	5
Otsego County	27	0	0	6	8	21
Ottawa County	572	2	2	135	188	435
Presque Isle County	9	0	0	2	5	7
Roscommon County	30	0	0	11	16	19
Saginaw County	205	0	0	71	103	134
Sanilac County	50	0	0	14	18	36

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Schoolcraft County	12	0	0	2	2	10
Shiawassee County	104	2	3	31	59	71
St. Clair County	162	2	2	55	72	105
St. Joseph County	73	0	0	21	27	52
Tuscola County	70	0	0	24	36	46
Van Buren County	103	0	0	27	37	76
Washtenaw County	637	4	4	164	219	469
Wayne County	2,339	9	10	633	930	1,697
Wexford County	61	0	0	14	26	47
Total:	**15,136**	**56**	**59**	**4,128**	**5,889**	**10,952**

2023 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.

2023 Summary:
- Bicyclist fatalities decreased 33 percent, from 36 in 2022, to 24 in 2023.
- 75 percent of bicyclist fatalities were reported as males.
- August had the highest number of bicycle involved crashes with 227 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 2019-2023

	2019	2020	2021	2022	2023
Total Bicycle Involved Crashes	1,492	1,224	1,248	1,340	1,480
Total Bicycle Involved Fatal Crashes	21	37	29	35	24
Total Bicyclist Fatalities	21	38	29	36	24

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	0	0	0	0
11-15	0	0	0	0
16-20	1	1	0	0
21-24	2	1	1	0
25-34	2	2	0	0
35-44	6	4	2	0
45-54	3	1	2	0
55-64	6	6	0	0
65-74	3	2	1	0
75-84	1	1	0	0
85-94	0	0	0	0
> 95	0	0	0	0
Not Reported	0	0	0	0
Total:	**24**	**18**	**6**	**0**
Percentage:		**75.00%**	**25.00%**	**0.00%**

Helmet Use for Bicyclist Fatalities

Bar chart values: No Belts Available = 1, Helmet Worn = 2, Helmet Not Worn = 12, Helmet Use Unknown = 9.
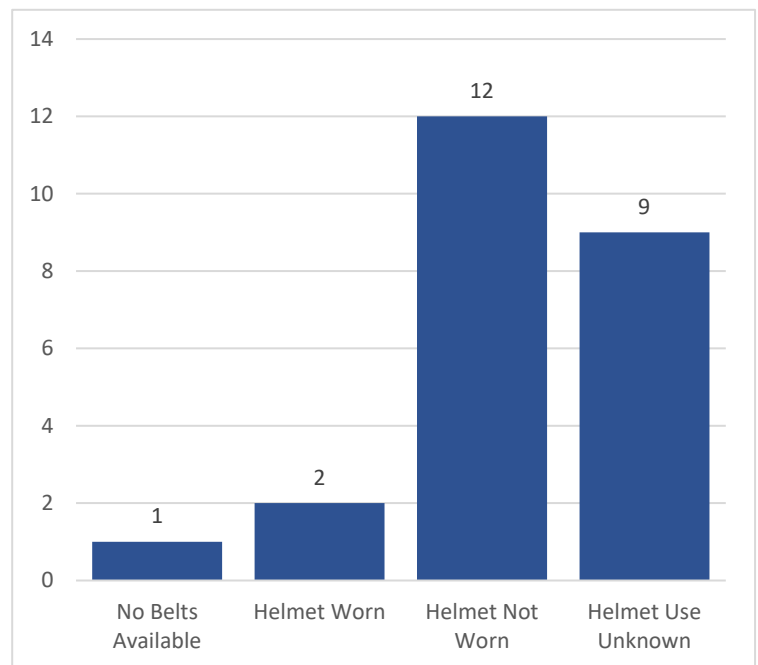
Both charts include only bicyclist fatality totals.

Bicycle Involved Traffic Crashes by Month
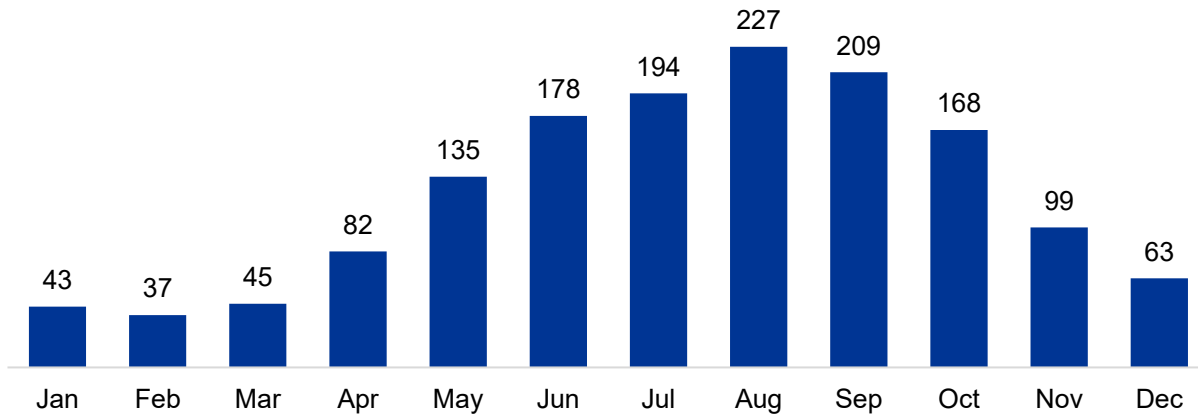
Month	Crashes
Jan	43
Feb	37
Mar	45
Apr	82
May	135
Jun	178
Jul	194
Aug	227
Sep	209
Oct	168
Nov	99
Dec	63

Bicycle Involved Traffic Crashes by Day of Week

Day	Crashes
Sun	137
Mon	208
Tue	228
Wed	265
Thu	217
Fri	257
Sat	168

Bicycle Involved Traffic Crashes by Time of Day

Time	Crashes
Midnight-2:59 a.m.	27
3 a.m.-5:59 a.m.	19
6 a.m.-8:59 a.m.	130
9 a.m.-11:59 a.m.	182
Noon-2:59 p.m.	299
3 p.m.-5:59 p.m.	424
6 p.m.-8:59 p.m.	277
9 p.m.-11:59 p.m.	122
Unknown	0
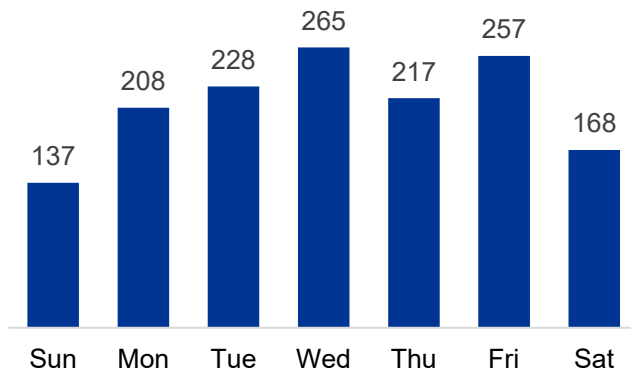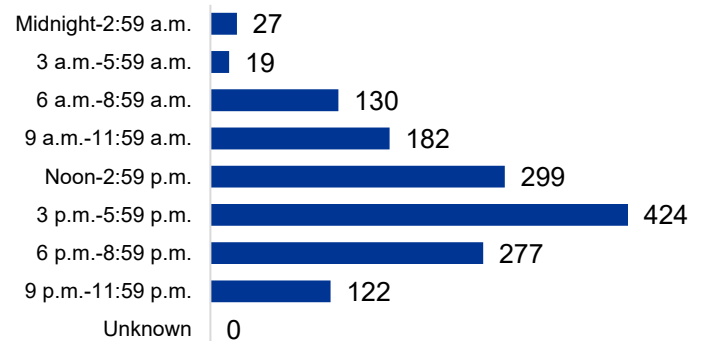
Bicycle Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Allegan County	8	0	0	7	7	1
Alpena County	6	0	0	5	5	1
Arenac County	1	0	0	1	1	0
Barry County	6	0	0	5	5	1
Bay County	19	1	1	15	15	3
Benzie County	3	1	1	1	1	1
Berrien County	16	1	1	10	10	5
Branch County	5	0	0	5	5	0

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Calhoun County	12	0	0	8	8	4
Cass County	2	0	0	1	1	1
Charlevoix County	1	0	0	1	1	0
Cheboygan County	2	0	0	2	2	0
Chippewa County	6	1	1	5	5	0
Clare County	1	0	0	1	1	0
Clinton County	1	0	0	1	1	0
Crawford County	1	0	0	1	1	0
Delta County	5	0	0	5	5	0
Dickinson County	2	0	0	2	2	0
Eaton County	5	1	1	4	4	0
Genesee County	31	0	0	29	30	2
Gladwin County	1	0	0	1	1	0
Gogebic County	2	0	0	2	2	0
Grand Traverse County	29	1	1	22	22	6
Gratiot County	4	0	0	4	4	0
Hillsdale County	6	0	0	3	4	3
Houghton County	3	0	0	3	3	0
Huron County	2	0	0	1	1	1
Ingham County	57	0	0	46	46	11
Ionia County	4	0	0	4	4	0
Iosco County	3	0	0	2	2	1
Isabella County	8	0	0	7	7	1
Jackson County	21	1	1	13	13	7
Kalamazoo County	52	0	0	37	37	15
Kalkaska County	1	0	0	1	1	0
Kent County	141	2	2	105	106	34
Lake County	2	0	0	2	2	0
Lapeer County	4	0	0	3	3	1
Leelanau County	3	0	0	3	3	0
Lenawee County	7	1	1	4	5	2
Livingston County	11	1	1	9	9	1
Luce County	1	0	0	1	1	0
Macomb County	135	3	3	102	106	30
Manistee County	2	0	0	2	2	0
Marquette County	17	0	0	14	14	3
Mason County	4	0	0	3	3	1
Mecosta County	4	0	0	4	4	0

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Menominee County	2	0	0	2	2	0
Midland County	6	0	0	4	4	2
Monroe County	12	1	1	7	7	4
Montcalm County	2	0	0	1	1	1
Muskegon County	30	0	0	28	28	2
Newaygo County	1	0	0	1	1	0
Oakland County	161	0	0	128	130	33
Oceana County	2	0	0	2	2	0
Osceola County	1	0	0	0	0	1
Oscoda County	1	0	0	1	1	0
Otsego County	2	0	0	2	2	0
Ottawa County	65	0	0	45	45	20
Presque Isle County	1	0	0	1	1	0
Saginaw County	12	0	0	10	11	2
Sanilac County	2	0	0	2	2	0
Shiawassee County	10	1	1	8	8	1
St. Clair County	35	0	0	31	32	4
St. Joseph County	6	1	1	2	2	3
Tuscola County	2	0	0	2	3	0
Van Buren County	3	0	0	3	3	0
Washtenaw County	100	2	2	72	73	26
Wayne County	361	4	4	272	279	85
Wexford County	6	1	1	3	3	2
Total:	**1,480**	**24**	**24**	**1,134**	**1,155**	**322**

2023 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.

2023 Summary:
- Pedestrian fatalities increased six percent, from 173 in 2022, to 183 in 2023.
- 68.31 percent of pedestrian fatalities were reported as males.
- October had the highest number of pedestrian involved crashes with 243 total crashes.
- Fridays had the highest number of pedestrian involved crashes.
- The majority of pedestrian involved crashes occurred between 3 p.m. and 8:59 p.m.

Pedestrian Involved Traffic Crash Statistics for 2019-2023

	2019	2020	2021	2022	2023
Total Pedestrian Involved Crashes	2,260	1,682	1,790	1,897	2,114
Total Pedestrian Involved Fatal Crashes	143	173	182	172	179
Total Pedestrian Fatalities	149	175	183	173	183

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	3	3	0	0
11-15	7	6	1	0
16-20	4	2	2	0
21-24	11	10	1	0
25-34	28	13	15	0
35-44	33	25	8	0
45-54	20	15	5	0
55-64	35	24	11	0
65-74	29	19	10	0
75-84	11	6	5	0
85-94	2	2	0	0
> 95	0	0	0	0
Not Reported	0	0	0	0
Total:	**183**	**125**	**58**	**0**
Percentage:		**68.31%**	**31.69%**	**0.00%**

Action Prior for Pedestrian Fatalities
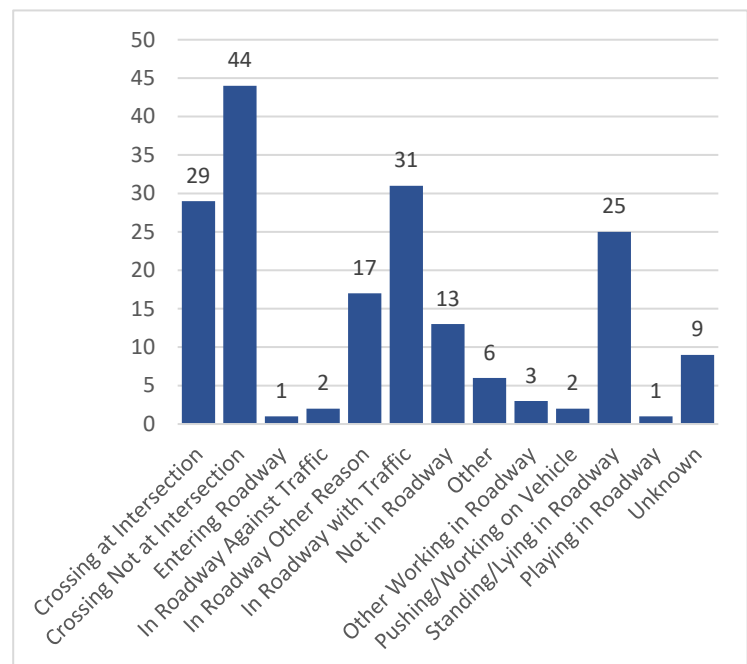
Both charts include only pedestrian fatality totals.

Pedestrian Involved Traffic Crashes by Month
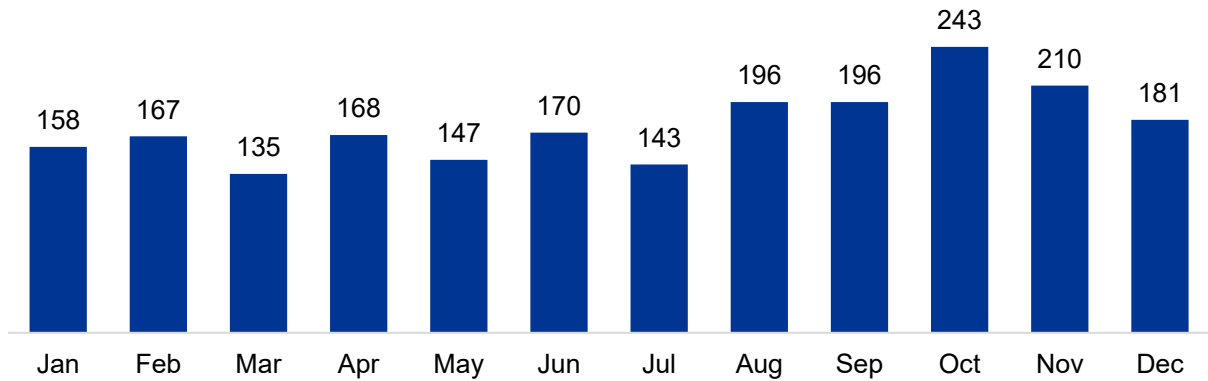
Month	Crashes
Jan	158
Feb	167
Mar	135
Apr	168
May	147
Jun	170
Jul	143
Aug	196
Sep	196
Oct	243
Nov	210
Dec	181

Pedestrian Involved Traffic Crashes by Day of Week

Day	Crashes
Sun	239
Mon	271
Tue	315
Wed	343
Thu	328
Fri	362
Sat	256

Pedestrian Involved Traffic Crashes by Time of Day

Time	Crashes
Midnight-2:59 a.m.	118
3 a.m.-5:59 a.m.	69
6 a.m.-8:59 a.m.	249
9 a.m.-11:59 a.m.	218
Noon-2:59 p.m.	286
3 p.m.-5:59 p.m.	427
6 p.m.-8:59 p.m.	424
9 p.m.-11:59 p.m.	321
Unknown	2
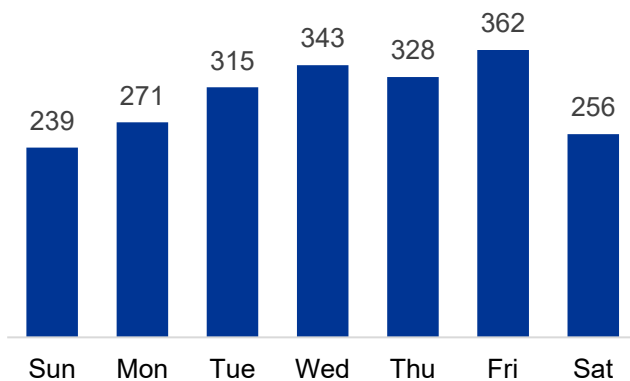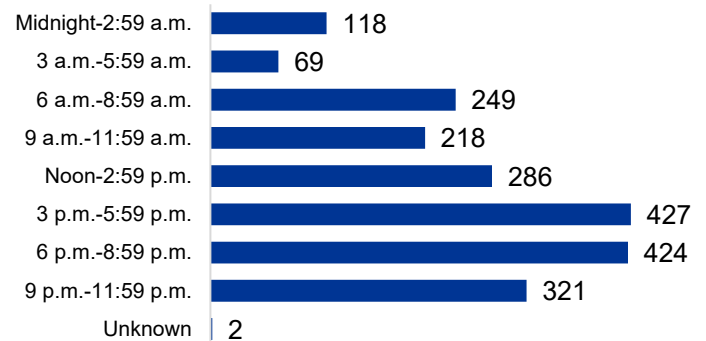
Pedestrian Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Allegan County	8	1	1	5	5	2
Alpena County	2	0	0	2	2	0
Antrim County	1	0	0	1	1	0
Barry County	5	1	2	4	5	0
Bay County	21	1	1	20	22	0
Benzie County	1	1	1	0	0	0
Berrien County	27	2	2	24	24	1
Branch County	12	0	0	9	13	3

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Calhoun County	22	1	1	20	24	1
Cass County	5	0	0	5	5	0
Charlevoix County	2	0	0	1	1	1
Chippewa County	7	0	0	5	5	2
Clare County	4	1	1	1	1	2
Clinton County	4	0	0	4	4	0
Crawford County	1	0	0	1	1	0
Delta County	3	1	1	1	1	1
Dickinson County	2	0	0	2	2	0
Eaton County	10	1	1	9	10	0
Emmet County	3	1	1	1	2	1
Genesee County	87	19	19	60	69	8
Gladwin County	4	0	0	2	2	2
Grand Traverse County	13	1	1	12	13	0
Gratiot County	2	0	0	2	2	0
Hillsdale County	9	1	1	6	7	2
Houghton County	4	0	0	4	4	0
Huron County	3	0	0	3	3	0
Ingham County	89	5	5	75	78	9
Ionia County	7	0	0	5	6	2
Iosco County	3	0	0	3	4	0
Isabella County	12	1	1	8	10	3
Jackson County	27	2	2	23	24	2
Kalamazoo County	70	7	7	54	58	9
Kalkaska County	1	0	0	1	1	0
Kent County	203	16	16	158	162	29
Lapeer County	3	2	2	1	2	0
Leelanau County	1	0	0	1	1	0
Lenawee County	12	1	1	11	13	0
Livingston County	12	0	0	12	12	0
Mackinac County	2	1	1	0	0	1
Macomb County	172	16	16	143	160	13
Manistee County	1	0	0	0	0	1
Marquette County	7	0	0	7	8	0
Mason County	3	0	0	2	4	1
Mecosta County	9	0	0	4	4	5
Midland County	6	0	0	5	5	1
Missaukee County	2	0	0	2	2	0

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Monroe County	30	5	5	18	19	7
Montcalm County	7	1	1	6	8	0
Muskegon County	33	3	3	24	26	6
Newaygo County	5	1	1	4	5	0
Oakland County	204	12	12	176	205	16
Oceana County	2	0	0	2	2	0
Ogemaw County	1	0	0	1	1	0
Osceola County	2	0	0	2	2	0
Oscoda County	1	1	1	0	0	0
Otsego County	2	0	0	2	3	0
Ottawa County	41	3	3	35	38	3
Roscommon County	1	1	1	0	0	0
Saginaw County	36	3	3	32	38	1
Sanilac County	4	0	0	4	6	0
Schoolcraft County	1	0	0	1	1	0
Shiawassee County	8	2	2	6	6	0
St. Clair County	13	1	1	9	12	3
St. Joseph County	17	0	0	11	12	6
Tuscola County	6	0	0	5	5	1
Van Buren County	7	1	1	5	7	1
Washtenaw County	99	1	1	85	89	13
Wayne County	686	60	62	523	573	103
Wexford County	4	1	2	2	4	1
Total:	2,114	179	183	1,672	1,844	263

2023 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.

2023 Summary:
- Motorcyclist fatalities decreased five percent, from 173 in 2022, to 165 in 2023.
- There were two drivers, two passengers, and one pedestrian who also received fatal injuries in a motorcycle involved crash in 2023.
- 92.73 percent of motorcyclist fatalities were reported as males.
- June had the highest number of motorcycle involved crashes with 536 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 2019-2023

	2019	2020	2021	2022	2023
Total Motorcycle Involved Crashes	2,723	2,988	3,175	3,158	3,056
Total Motorcycle Involved Fatal Crashes	116	150	166	168	164
Total Motorcyclist Fatalities	122	152	166	173	165

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	6	6	0	0
21-24	12	12	0	0
25-34	33	32	1	0
35-44	29	28	1	0
45-54	30	27	3	0
55-64	30	27	3	0
65-74	24	21	3	0
75-84	0	0	0	0
85-94	1	0	1	0
> 95	0	0	0	0
Not Reported	0	0	0	0
Total:	**165**	**153**	**12**	**0**
Percentage:		**92.73%**	**7.27%**	**0%**

Helmet Use for Motorcyclist Fatalities

Bar chart — Helmet Worn: 75, Helmet Not Worn: 72, Helmet Use Unknown: 18
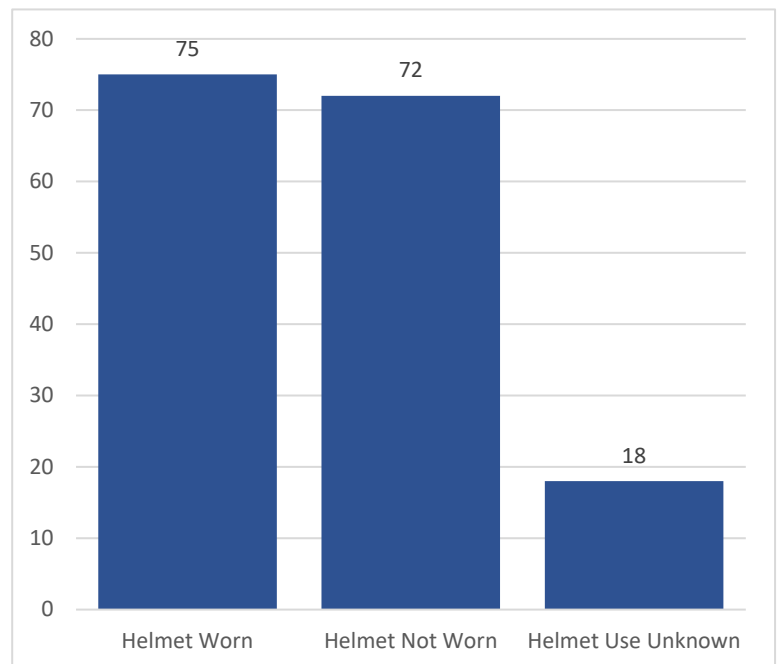
Both charts include only motorcyclist fatality totals.

Motorcycle Involved Traffic Crashes by Month
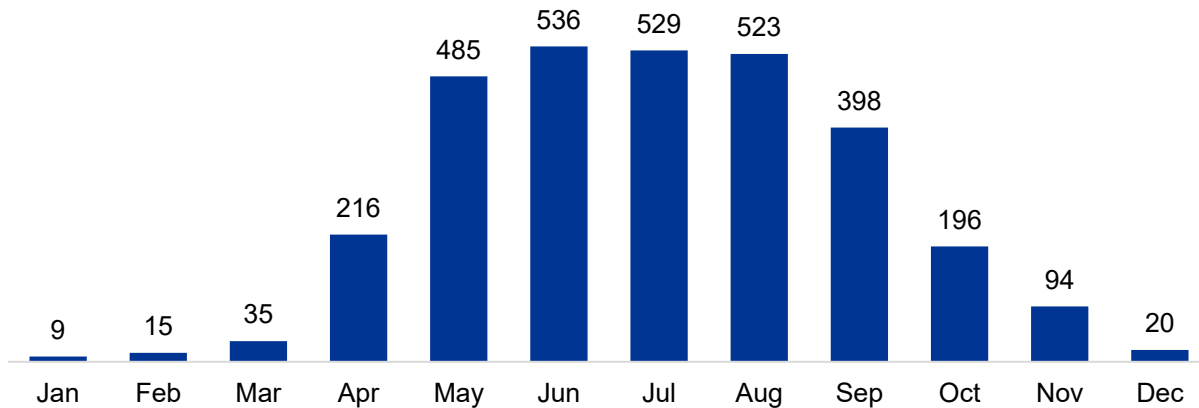
Month	Crashes
Jan	9
Feb	15
Mar	35
Apr	216
May	485
Jun	536
Jul	529
Aug	523
Sep	398
Oct	196
Nov	94
Dec	20

Motorcycle Involved Traffic Crashes by Day of Week

Day	Crashes
Sun	471
Mon	359
Tue	381
Wed	399
Thu	433
Fri	449
Sat	564

Motorcycle Involved Traffic Crashes by Time of Day

Time of Day	Crashes
Midnight-2:59 a.m.	181
3 a.m.-5:59 a.m.	103
6 a.m.-8:59 a.m.	201
9 a.m.-11:59 a.m.	245
Noon-2:59 p.m.	524
3 p.m.-5:59 p.m.	751
6 p.m.-8:59 p.m.	674
9 p.m.-11:59 p.m.	374
Unknown	3
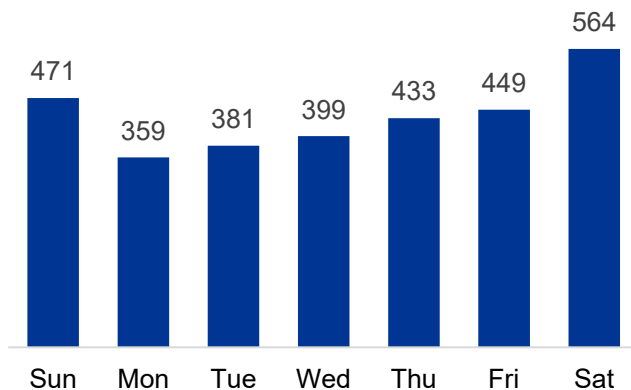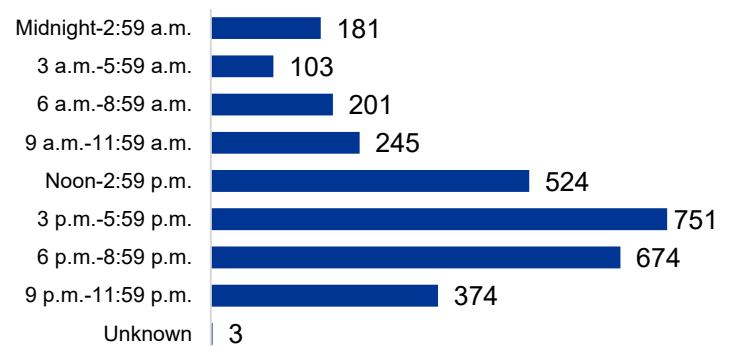
Motorcycle Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Alcona County	5	0	0	4	4	1
Alger County	6	0	0	4	5	2
Allegan County	24	1	1	21	24	2
Alpena County	8	1	1	5	6	2
Antrim County	15	0	0	13	14	2
Arenac County	6	1	3	3	3	2
Baraga County	2	0	0	1	1	1
Barry County	28	2	2	18	20	8
Bay County	42	3	3	30	34	9
Benzie County	5	1	1	3	4	1

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Berrien County	58	3	3	47	54	8
Branch County	19	0	0	12	17	7
Calhoun County	81	3	3	57	67	21
Cass County	33	3	3	23	26	7
Charlevoix County	11	0	0	8	9	3
Cheboygan County	9	1	1	4	4	4
Chippewa County	6	1	1	4	4	1
Clare County	13	0	0	9	11	4
Clinton County	8	1	1	4	4	3
Crawford County	7	1	1	4	5	2
Delta County	11	0	0	8	8	3
Dickinson County	6	0	0	6	7	0
Eaton County	32	0	0	28	30	4
Emmet County	14	2	2	11	16	1
Genesee County	122	12	12	93	113	17
Gladwin County	7	1	1	6	7	0
Gogebic County	4	0	0	2	2	2
Grand Traverse County	23	1	1	17	20	5
Gratiot County	16	2	2	10	11	4
Hillsdale County	23	1	1	19	22	3
Houghton County	8	1	1	6	6	1
Huron County	9	0	0	8	9	1
Ingham County	82	5	5	58	64	19
Ionia County	24	1	1	19	21	4
Iosco County	4	0	0	3	3	1
Iron County	3	0	0	2	2	1
Isabella County	26	2	2	16	19	8
Jackson County	76	8	8	48	52	20
Kalamazoo County	99	6	6	70	82	23
Kalkaska County	14	2	2	9	15	3
Kent County	199	9	9	144	176	46
Keweenaw County	1	0	0	1	1	0
Lake County	9	0	0	5	5	4
Lapeer County	24	1	1	20	27	3
Leelanau County	14	0	0	13	15	1
Lenawee County	36	2	2	27	35	7
Livingston County	46	3	3	32	34	11
Luce County	2	0	0	1	3	1
Mackinac County	6	1	1	2	3	3
Macomb County	192	9	9	140	154	43

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Manistee County	10	1	1	6	8	3
Marquette County	17	0	0	14	17	3
Mason County	10	0	0	8	10	2
Mecosta County	13	0	0	8	9	5
Menominee County	9	0	0	9	11	0
Midland County	29	3	3	22	31	4
Missaukee County	13	2	2	7	7	4
Monroe County	52	9	10	33	38	10
Montcalm County	17	0	0	10	13	7
Montmorency County	2	0	0	2	2	0
Muskegon County	68	6	7	45	57	17
Newaygo County	35	1	1	29	32	5
Oakland County	284	5	5	204	225	75
Oceana County	15	1	1	12	13	2
Ogemaw County	9	0	0	7	9	2
Ontonagon County	4	0	0	2	2	2
Osceola County	13	0	0	6	6	7
Oscoda County	5	1	1	4	5	0
Otsego County	6	0	0	4	4	2
Ottawa County	78	1	1	55	64	22
Presque Isle County	5	0	0	3	5	2
Roscommon County	14	1	1	12	17	1
Saginaw County	43	2	3	33	41	8
Sanilac County	18	2	2	12	13	4
Schoolcraft County	2	0	0	2	2	0
Shiawassee County	31	3	3	21	26	7
St. Clair County	47	2	2	37	45	8
St. Joseph County	28	1	1	20	24	7
Tuscola County	21	1	1	15	17	5
Van Buren County	27	3	4	20	24	4
Washtenaw County	88	3	3	62	70	23
Wayne County	515	25	25	356	428	134
Wexford County	10	0	0	8	12	2
Total:	**3,056**	**164**	**170**	**2,186**	**2,565**	**706**

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, two drivers, and two passengers also received fatal injuries in a motorcycle involved crash in 2023.

2023 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.

2023 Summary:
- ORV fatalities increased five percent, from 21 in 2022, to 22 in 2023.
- 90.91 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 5:59 p.m.

ORV Involved Traffic Crash Statistics for 2019-2023

	2019	2020	2021	2022	2023
Total ORV Involved Crashes	284	442	436	460	396
Total ORV Involved Fatal Crashes	7	15	21	21	22
Total ORV Rider Fatalities	7	15	21	21	22

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	1	0	0
16-20	4	3	1	0
21-24	1	1	0	0
25-34	3	3	0	0
35-44	1	1	0	0
45-54	3	2	1	0
55-64	2	2	0	0
65-74	3	3	0	0
75-84	2	2	0	0
85-94	2	2	0	0
> 95	0	0	0	0
Not Reported	0	0	0	0
Total:	**22**	**20**	**2**	**0**
Percentage:		**90.91%**	**9.09%**	**0.00%**

Restraint Use for ORV Rider Fatalities
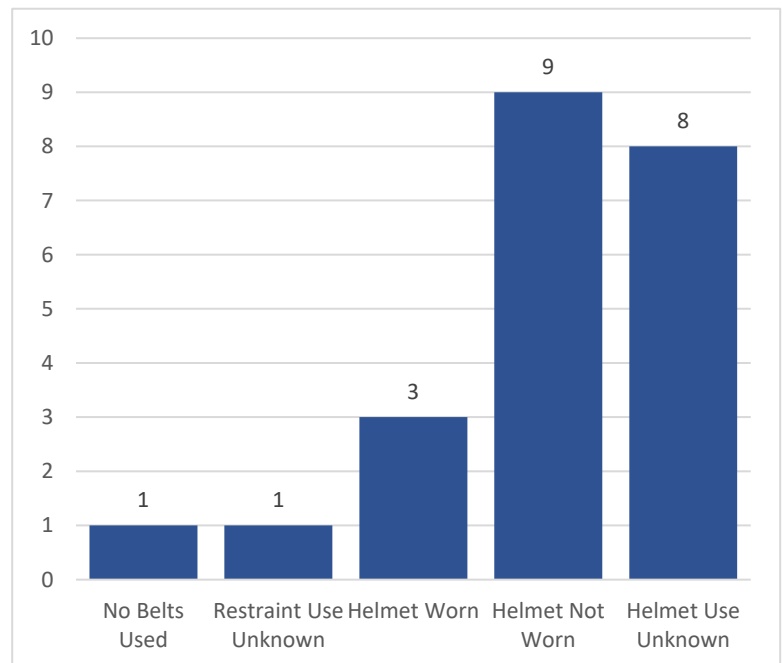
Both charts include only ORV rider fatality totals.

ORV Involved Traffic Crashes by Month
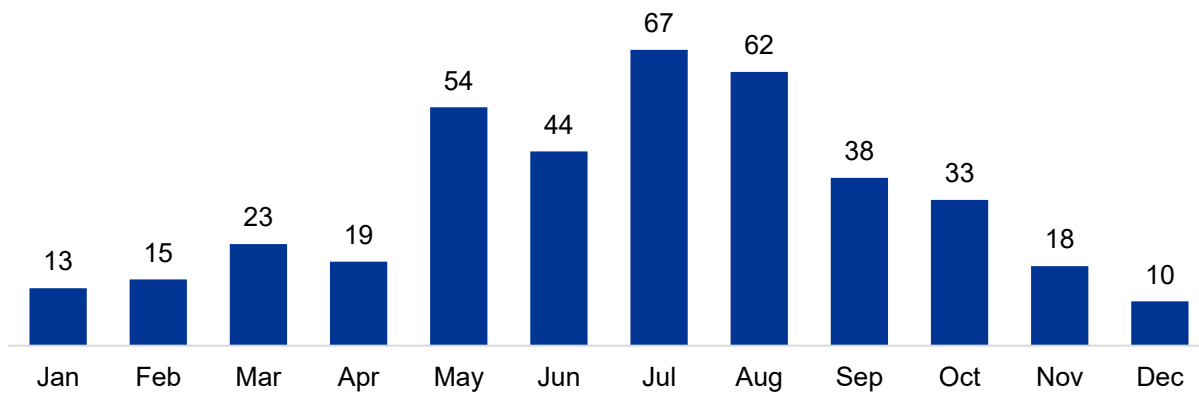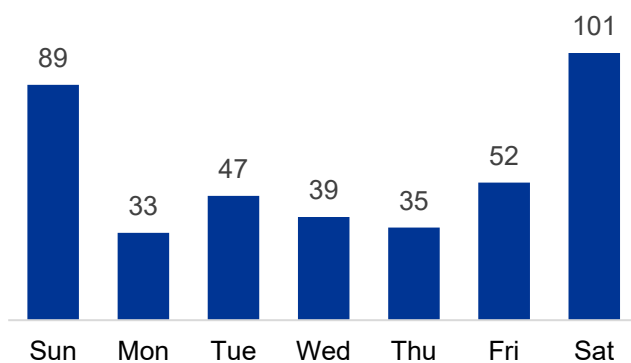
Month	Crashes
Jan	13
Feb	15
Mar	23
Apr	19
May	54
Jun	44
Jul	67
Aug	62
Sep	38
Oct	33
Nov	18
Dec	10

ORV Involved Traffic Crashes by Day of Week

Day	Crashes
Sun	89
Mon	33
Tue	47
Wed	39
Thu	35
Fri	52
Sat	101

ORV Involved Traffic Crashes by Time of Day

Time	Crashes
Midnight-2:59 a.m.	20
3 a.m.-5:59 a.m.	5
6 a.m.-8:59 a.m.	11
9 a.m.-11:59 a.m.	37
Noon-2:59 p.m.	77
3 p.m.-5:59 p.m.	105
6 p.m.-8:59 p.m.	96
9 p.m.-11:59 p.m.	45
Unknown	0
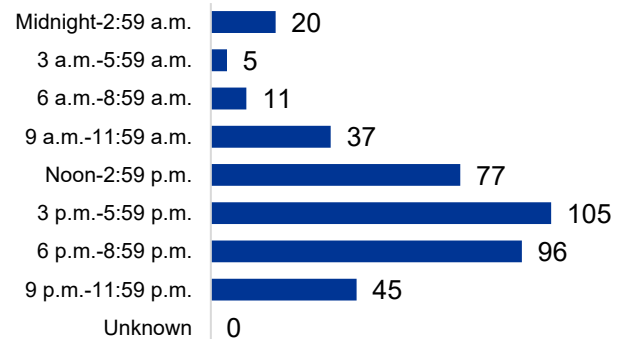
ORV Involved Crashes by County

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

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

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Menominee County	5	1	1	3	5	1
Midland County	1	0	0	0	0	1
Missaukee County	7	0	0	4	7	3
Montcalm County	7	0	0	5	6	2
Montmorency County	5	0	0	3	3	2
Muskegon County	3	0	0	3	3	0
Newaygo County	5	1	1	4	6	0
Oakland County	9	0	0	9	13	0
Oceana County	6	0	0	2	2	4
Ogemaw County	6	0	0	4	4	2
Ontonagon County	7	2	2	3	4	2
Osceola County	6	0	0	4	4	2
Oscoda County	2	0	0	1	1	1
Otsego County	3	0	0	3	3	0
Ottawa County	2	0	0	0	0	2
Presque Isle County	6	1	1	3	6	2
Roscommon County	12	0	0	10	17	2
Saginaw County	7	1	1	4	7	2
Sanilac County	6	0	0	3	4	3
Shiawassee County	7	0	0	4	6	3
St. Clair County	18	3	3	12	13	3
St. Joseph County	4	0	0	3	4	1
Tuscola County	1	0	0	1	1	0
Van Buren County	3	0	0	1	2	2
Washtenaw County	3	0	0	3	3	0
Wayne County	37	3	3	24	26	10
Wexford County	5	0	0	3	3	2
Total:	**396**	**22**	**22**	**280**	**356**	**94**

Note: Only counties that reported ORV traffic crashes in 2023 are listed above. Non-traffic ORV crashes are not included in this table.

2023 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).

2023 Summary:
- Snowmobile involved fatalities decreased 78 percent, from nine in 2022, to two in 2023.
- 100 percent of snowmobile rider fatalities were reported as males.
- February had the highest number of snowmobile involved crashes with 26 total crashes.
- Saturdays had the highest number of snowmobile involved crashes.
- The majority of snowmobile involved crashes occurred between 3 p.m. and 5:59 p.m.

Snowmobile Involved Traffic Crash Statistics for 2019-2023

	2019	2020	2021	2022	2023
Total Snowmobile Involved Crashes	132	89	97	95	58
Total Snowmobile Involved Fatal Crashes	7	2	5	9	2
Total Snowmobile Rider Fatalities	8	2	5	9	2

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	0	0	0	0
45-54	2	2	0	0
55-64	0	0	0	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:	**2**	**2**	**0**	**0**
Percentage:		**100.00%**	**0.00%**	**0.00%**

Helmet Use for Snowmobile Rider Fatalities
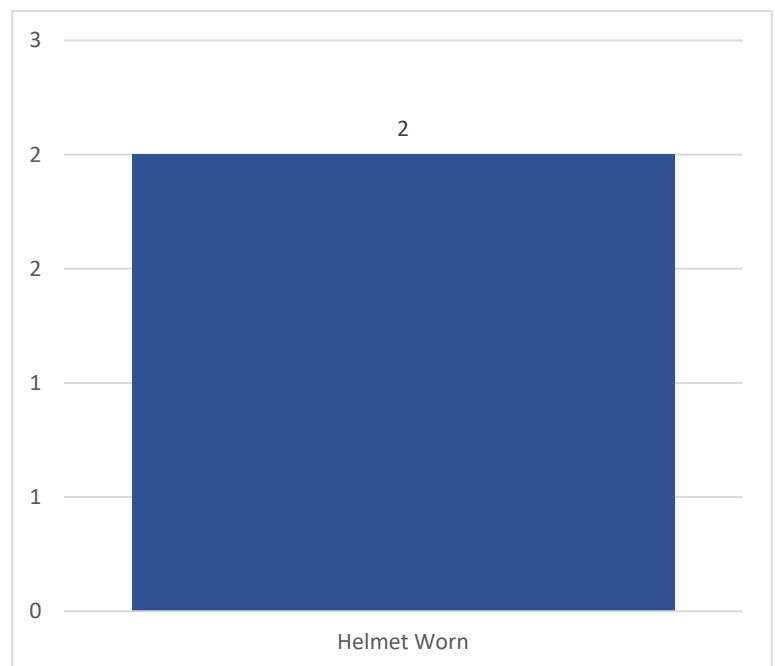
Both charts include only snowmobile rider fatality totals.

Snowmobile Involved Traffic Crashes by Month
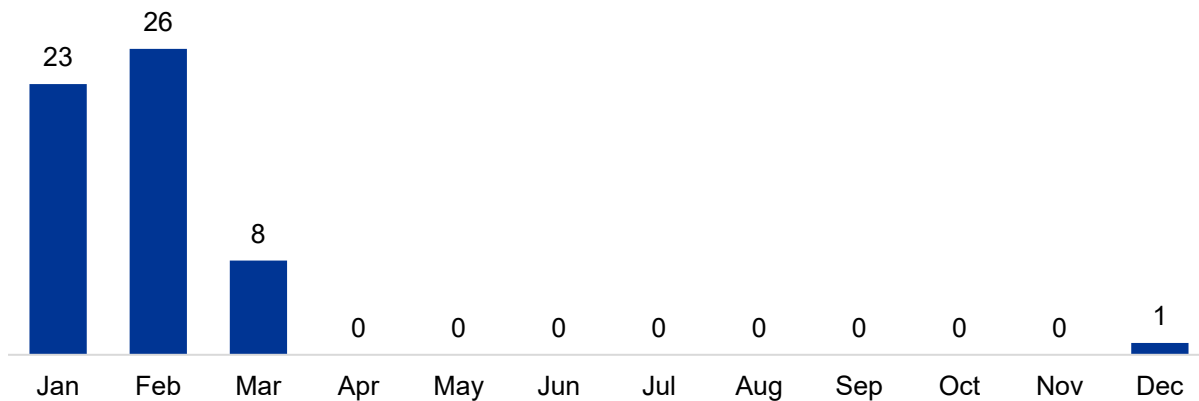
Snowmobile Involved Traffic Crashes by Day of Week
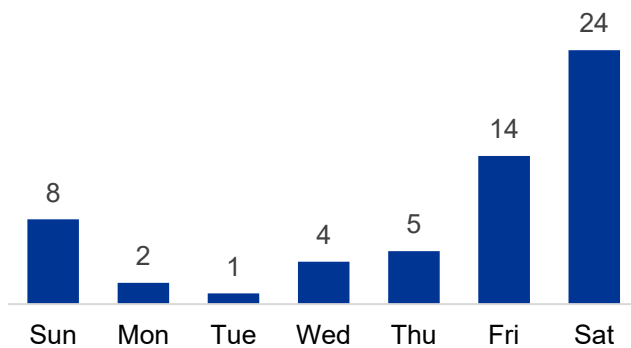
Snowmobile Involved Traffic Crashes by Time of Day
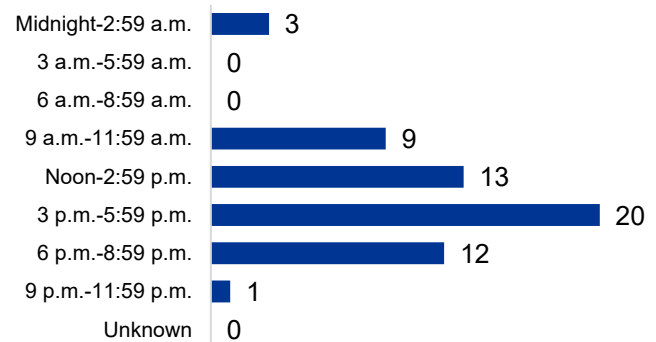
Snowmobile Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Alger County	13	0	0	9	9	4
Antrim County	1	0	0	0	0	1
Baraga County	1	0	0	1	1	0
Benzie County	1	1	1	0	0	0
Cheboygan County	1	0	0	1	1	0
Chippewa County	7	0	0	5	6	2
Crawford County	2	0	0	1	1	1
Emmet County	1	0	0	1	1	0
Gogebic County	2	0	0	1	1	1
Houghton County	3	0	0	2	2	1

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Iosco County	1	0	0	1	1	0
Iron County	1	0	0	1	1	0
Keweenaw County	1	0	0	1	1	0
Luce County	2	0	0	1	1	1
Mackinac County	3	0	0	2	3	1
Marquette County	1	0	0	1	1	0
Mason County	2	0	0	2	2	0
Mecosta County	1	0	0	1	1	0
Montmorency County	1	0	0	1	1	0
Ontonagon County	1	0	0	0	0	1
Osceola County	3	0	0	3	3	0
Oscoda County	1	0	0	0	0	1
Otsego County	1	0	0	1	1	0
Presque Isle County	1	0	0	1	1	0
Roscommon County	1	0	0	1	2	0
Sanilac County	1	0	0	1	1	0
Schoolcraft County	2	0	0	2	3	0
Wexford County	2	1	1	0	0	1
Total:	**58**	**2**	**2**	**41**	**45**	**15**

Note: Only counties that reported snowmobile traffic crashes in 2023 are listed above. Non-traffic snowmobile crashes are not included in this table.

2023 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.

2023 Summary:
- Deer involved fatalities increased 73 percent, from 11 in 2022, to 19 in 2023.
- November had the highest number of deer involved crashes with 11,145 total crashes.
- Tuesdays and Wednesdays had the highest number of deer involved crashes.
- There were 58,806 total deer involved crashes in 2023, and 66,320 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 a.m. and 8:59 a.m., and 6 p.m. and 8:59 p.m.

Deer Involved Traffic Crash Statistics for 2019-2023

	2019	2020	2021	2022	2023
Total Deer Involved Crashes	55,531	51,103	52,218	58,984	58,806
Total Deer Involved Fatal Crashes	12	5	10	11	19
Total Deer Involved Fatalities	12	5	10	11	19

Age and Gender for Deer Involved Crashes

Age Range	Total	Male	Female	Non-Binary	Unknown
< 1	84	43	41	0	0
1-3	369	180	189	0	0
4-10	818	378	437	0	3
11-15	774	389	383	0	2
16-20	5,105	2,951	2,149	2	3
21-24	5,107	2,898	2,202	3	4
25-34	12,333	6,936	5,394	2	1
35-44	11,915	6,423	5,491	0	1
45-54	11,132	6,196	4,932	1	3
55-64	10,336	5,823	4,512	0	1
65-74	5,976	3,436	2,538	0	2
75-84	2,059	1,262	797	0	0
85-94	257	160	97	0	0
> 95	4	1	3	0	0
Not Reported	51	6	3	0	42
Total:	**66,320**	**37,082**	**29,168**	**8**	**62**
Percentage:		**55.91%**	**43.98%**	**0.01%**	**0.09%**

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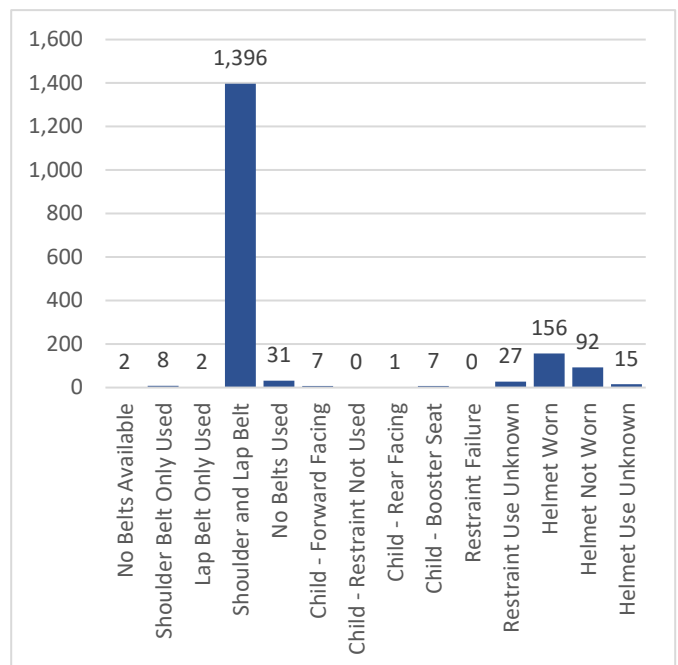
Both charts include all party types involved in a deer involved crash (driver, passenger, pedestrian, bicyclist or engineer (train). Only fatal and injured persons are included in the restraint use statistics.

Deer Involved Traffic Crashes by Month
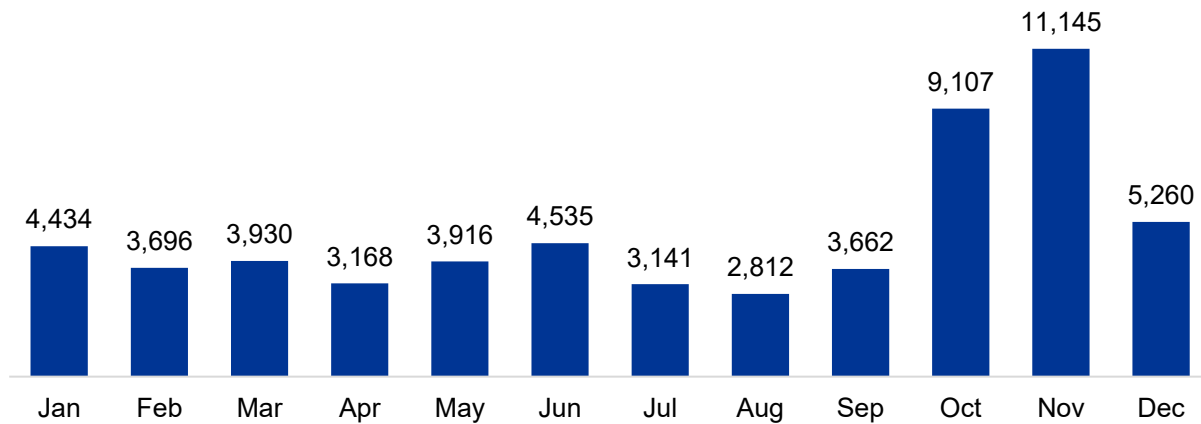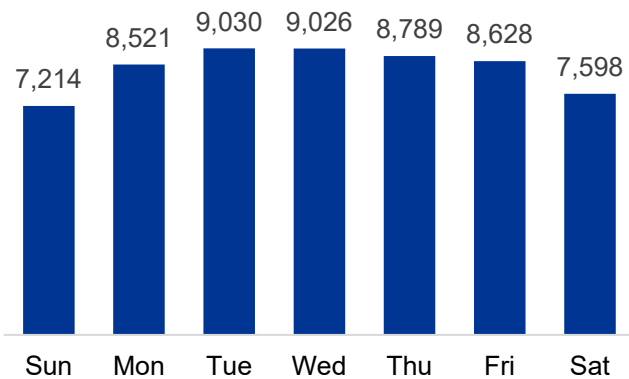
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,434	3,696	3,930	3,168	3,916	4,535	3,141	2,812	3,662	9,107	11,145	5,260

Deer Involved Traffic Crashes by Day of Week

Sun	Mon	Tue	Wed	Thu	Fri	Sat
7,214	8,521	9,030	9,026	8,789	8,628	7,598

Deer Involved Traffic Crashes by Time of Day

Time	Count
Midnight-2:59 a.m.	3,799
3 a.m.-5:59 a.m.	6,109
6 a.m.-8:59 a.m.	14,750
9 a.m.-11:59 a.m.	3,317
Noon-2:59 p.m.	2,477
3 p.m.-5:59 p.m.	4,904
6 p.m.-8:59 p.m.	13,962
9 p.m.-11:59 p.m.	9,481
Unknown	7
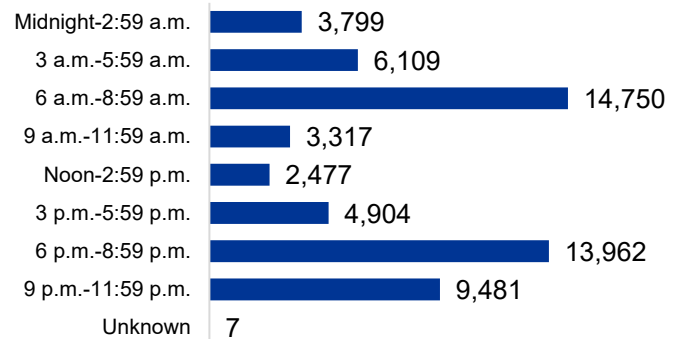
Deer Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Alcona County	445	0	0	9	9	436
Alger County	97	0	0	5	5	92
Allegan County	1,545	1	1	30	33	1,514
Alpena County	298	0	0	7	7	291
Antrim County	588	0	0	14	15	574
Arenac County	449	0	0	11	12	438
Baraga County	153	0	0	2	2	151
Barry County	784	1	1	18	18	765
Bay County	645	0	0	16	17	629
Benzie County	319	0	0	4	5	315

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Berrien County	1,126	1	1	53	57	1,072
Branch County	942	0	0	17	21	925
Calhoun County	1,332	1	1	33	37	1,298
Cass County	690	1	1	11	15	678
Charlevoix County	553	0	0	6	6	547
Cheboygan County	522	0	0	12	13	510
Chippewa County	357	0	0	16	19	341
Clare County	568	0	0	13	15	555
Clinton County	1,306	1	1	21	23	1,284
Crawford County	278	0	0	5	5	273
Delta County	500	0	0	10	10	490
Dickinson County	411	0	0	12	12	399
Eaton County	952	0	0	30	33	922
Emmet County	526	1	1	3	3	522
Genesee County	1,605	2	2	43	50	1,560
Gladwin County	474	1	1	10	11	463
Gogebic County	85	0	0	6	7	79
Grand Traverse County	718	0	0	19	19	699
Gratiot County	997	0	0	26	29	971
Hillsdale County	1,147	0	0	33	39	1,114
Houghton County	198	0	0	2	2	196
Huron County	1,180	1	1	15	17	1,164
Ingham County	880	0	0	35	39	845
Ionia County	549	0	0	12	13	537
Iosco County	316	0	0	7	8	309
Iron County	253	0	0	3	3	250
Isabella County	1,070	1	1	27	31	1,042
Jackson County	1,521	1	1	37	38	1,483
Kalamazoo County	954	1	1	49	56	904
Kalkaska County	319	0	0	4	4	315
Kent County	2,171	0	0	78	82	2,093
Keweenaw County	12	0	0	1	1	11
Lake County	194	0	0	7	8	187
Lapeer County	1,505	0	0	47	52	1,458
Leelanau County	424	0	0	10	12	414
Lenawee County	914	0	0	23	24	891
Livingston County	1,046	0	0	33	35	1,013
Luce County	92	0	0	5	6	87
Mackinac County	303	0	0	10	10	293
Macomb County	704	0	0	27	34	677

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Manistee County	566	0	0	9	10	557
Marquette County	415	0	0	10	12	405
Mason County	684	0	0	11	11	673
Mecosta County	795	0	0	17	20	778
Menominee County	53	1	1	3	5	49
Midland County	1,038	1	1	22	24	1,015
Missaukee County	456	0	0	6	6	450
Monroe County	531	0	0	24	26	507
Montcalm County	784	0	0	17	18	767
Montmorency County	215	0	0	2	4	213
Muskegon County	800	0	0	22	26	778
Newaygo County	711	0	0	13	15	698
Oakland County	2,125	0	0	87	100	2,038
Oceana County	732	0	0	18	20	714
Ogemaw County	476	0	0	13	14	463
Ontonagon County	158	0	0	5	5	153
Osceola County	647	0	0	11	11	636
Oscoda County	138	0	0	4	4	134
Otsego County	287	0	0	12	13	275
Ottawa County	1,517	0	0	28	32	1,489
Presque Isle County	481	1	1	10	13	470
Roscommon County	317	0	0	10	11	307
Saginaw County	1,261	0	0	24	26	1,237
Sanilac County	1,111	0	0	25	27	1,086
Schoolcraft County	203	0	0	3	3	200
Shiawassee County	1,099	0	0	27	30	1,072
St. Clair County	1,130	1	1	21	24	1,108
St. Joseph County	616	0	0	15	16	601
Tuscola County	1,085	1	1	25	28	1,059
Van Buren County	920	0	0	42	48	878
Washtenaw County	1,320	0	0	58	65	1,262
Wayne County	611	0	0	24	25	587
Wexford County	507	0	0	9	11	498
Total:	**58,806**	**19**	**19**	**1,554**	**1,725**	**57,233**

2023 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.

2023 Summary:
- Truck / Bus involved fatalities decreased two percent, from 105 in 2022, to 103 in 2023.
- October had the highest number of Truck / Bus involved crashes with 1,594 total crashes.
- Thursdays 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 2019-2023

	2019	2020	2021	2022	2023
Total Truck / Bus Involved Crashes	15,799	11,344	14,293	15,802	15,088
Total Truck / Bus Involved Fatal Crashes	98	77	93	96	93
Total Truck / Bus Involved Fatalities	106	78	103	105	103

Age and Gender for Truck / Bus Involved Crashes

Age Range	Total	Male	Female	Non-Binary	Unknown
< 1	199	110	81	0	8
1-3	184	97	86	0	1
4-10	1,050	524	509	0	17
11-15	902	447	417	0	38
16-20	1,919	1,118	794	0	7
21-24	2,418	1,692	717	0	9
25-34	6,606	4,928	1,677	0	1
35-44	5,689	4,366	1,323	0	0
45-54	5,438	4,206	1,232	0	0
55-64	4,989	3,826	1,161	0	2
65-74	2,303	1,521	782	0	0
75-84	848	474	373	0	1
85-94	180	91	89	0	0
> 95	23	17	6	0	0
Not Reported	2,355	119	36	0	2,200
Total:	**35,103**	**23,536**	**9,283**	**0**	**2,284**
Percentage:		**67.05%**	**26.45%**	**0.00%**	**6.51%**

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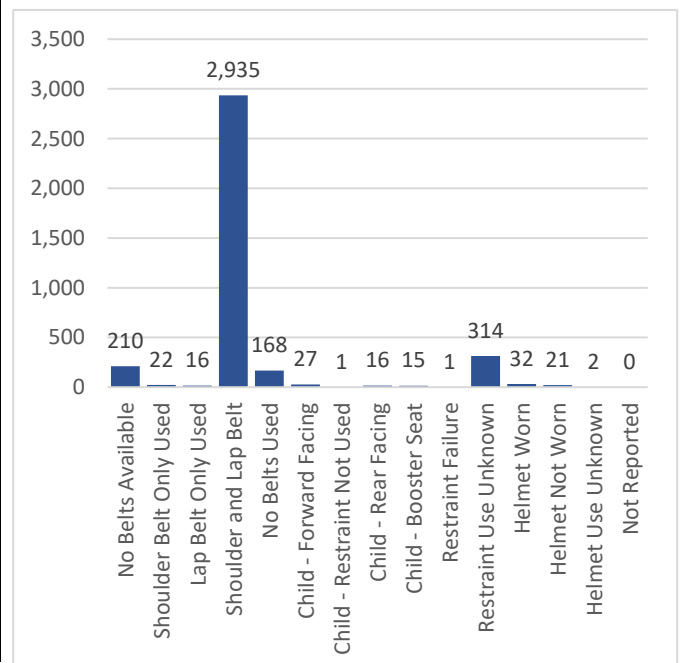
Both charts include all party types involved in a Truck / Bus involved crash (driver, passenger, pedestrian, bicyclist or engineer (train). Only fatal and injured persons are included in the restraint use statistics.

Truck / Bus Involved Traffic Crashes by Month
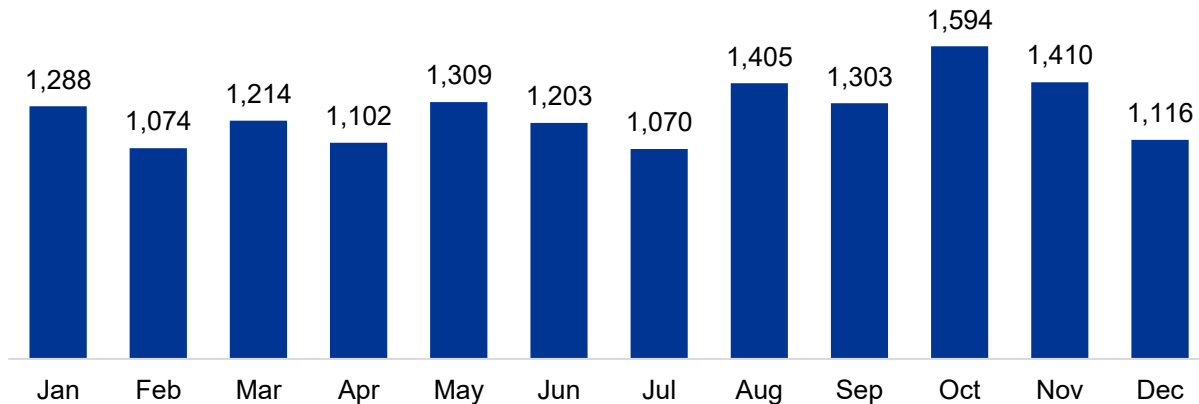
Month	Crashes
Jan	1,288
Feb	1,074
Mar	1,214
Apr	1,102
May	1,309
Jun	1,203
Jul	1,070
Aug	1,405
Sep	1,303
Oct	1,594
Nov	1,410
Dec	1,116

Truck / Bus Involved Traffic Crashes by Day of Week

Day	Crashes
Sun	528
Mon	2,653
Tue	2,783
Wed	2,764
Thu	2,848
Fri	2,621
Sat	891

Truck / Bus Involved Traffic Crashes by Time of Day

Time	Crashes
Midnight-2:59 a.m.	408
3 a.m.-5:59 a.m.	535
6 a.m.-8:59 a.m.	2,705
9 a.m.-11:59 a.m.	3,158
Noon-2:59 p.m.	3,395
3 p.m.-5:59 p.m.	3,198
6 p.m.-8:59 p.m.	1,112
9 p.m.-11:59 p.m.	573
Unknown	4
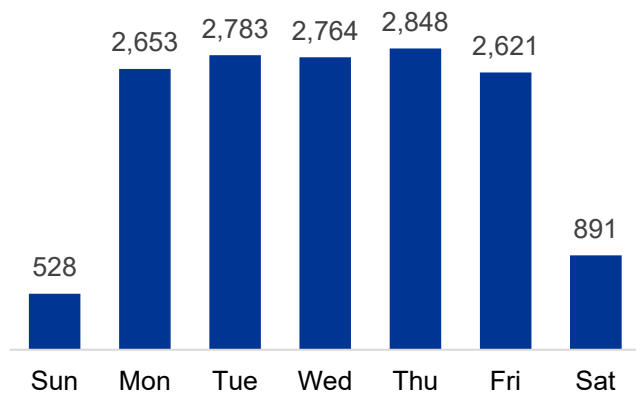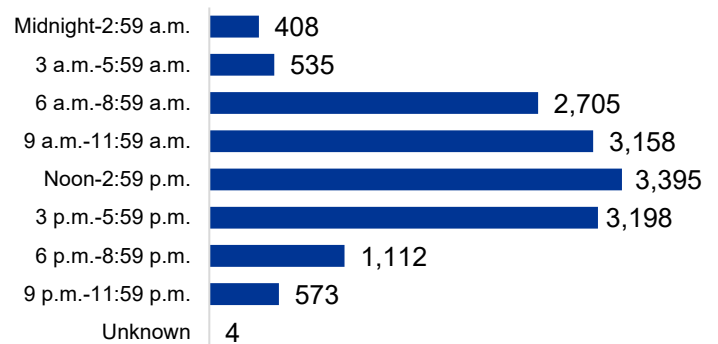
Truck / Bus Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Alcona County	8	0	0	1	1	7
Alger County	9	0	0	2	2	7
Allegan County	197	1	2	32	43	164
Alpena County	24	0	0	5	8	19
Antrim County	21	0	0	4	6	17
Arenac County	22	2	2	2	5	18
Baraga County	7	0	0	0	0	7
Barry County	41	0	0	14	17	27

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Bay County	115	2	2	15	31	98
Benzie County	19	1	1	4	6	14
Berrien County	265	4	5	52	69	209
Branch County	60	0	0	7	7	53
Calhoun County	307	5	5	41	61	261
Cass County	40	0	0	9	12	31
Charlevoix County	21	0	0	1	1	20
Cheboygan County	34	0	0	2	3	32
Chippewa County	28	0	0	3	9	25
Clare County	43	0	0	10	14	33
Clinton County	94	0	0	16	20	78
Crawford County	15	0	0	4	4	11
Delta County	47	1	2	5	7	41
Dickinson County	21	0	0	6	8	15
Eaton County	140	3	4	31	56	106
Emmet County	28	1	1	5	12	22
Genesee County	427	3	3	88	115	336
Gladwin County	22	0	0	4	7	18
Gogebic County	13	0	0	2	3	11
Grand Traverse County	157	0	0	23	30	134
Gratiot County	59	2	2	12	14	45
Hillsdale County	46	2	3	9	12	35
Houghton County	43	0	0	5	5	38
Huron County	48	2	2	7	15	39
Ingham County	383	2	3	71	98	310
Ionia County	88	3	3	17	32	68
Iosco County	16	0	0	1	1	15
Iron County	8	0	0	1	1	7
Isabella County	57	0	0	8	11	49
Jackson County	265	2	2	45	67	218
Kalamazoo County	434	3	3	73	100	358
Kalkaska County	28	0	0	3	3	25
Kent County	980	3	3	160	209	817
Keweenaw County	1	0	0	0	0	1
Lake County	9	0	0	1	5	8
Lapeer County	114	2	2	17	21	95
Leelanau County	19	0	0	1	1	18
Lenawee County	117	1	1	17	20	99
Livingston County	259	0	0	39	49	220
Luce County	3	0	0	2	2	1

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Mackinac County	38	1	1	4	6	33
Macomb County	1,287	5	5	261	342	1,021
Manistee County	24	0	0	3	5	21
Marquette County	71	0	0	5	6	66
Mason County	24	1	1	3	5	20
Mecosta County	42	0	0	3	3	39
Menominee County	18	0	0	10	16	8
Midland County	84	0	0	15	24	69
Missaukee County	32	0	0	7	10	25
Monroe County	398	5	6	69	102	324
Montcalm County	61	0	0	9	13	52
Montmorency County	8	0	0	1	1	7
Muskegon County	160	0	0	18	22	142
Newaygo County	24	1	1	4	5	19
Oakland County	1,906	5	5	327	441	1,574
Oceana County	25	1	1	5	5	19
Ogemaw County	16	0	0	3	5	13
Ontonagon County	11	0	0	0	0	11
Osceola County	27	1	1	6	11	20
Oscoda County	5	0	0	1	1	4
Otsego County	52	0	0	6	7	46
Ottawa County	409	1	1	72	91	336
Presque Isle County	10	0	0	1	1	9
Roscommon County	20	1	1	2	4	17
Saginaw County	219	1	1	44	67	174
Sanilac County	41	1	1	3	3	37
Schoolcraft County	14	0	0	1	1	13
Shiawassee County	101	1	1	29	41	71
St. Clair County	162	3	3	21	31	138
St. Joseph County	87	1	1	16	21	70
Tuscola County	61	0	0	18	23	43
Van Buren County	106	1	1	13	17	92
Washtenaw County	731	2	2	126	166	603
Wayne County	3,558	15	18	653	946	2,890
Wexford County	54	1	1	8	12	45
Total:	15,088	93	103	2,644	3,677	12,351

2023 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.

2023 Summary:
- School bus involved crashes decreased five percent, from 1,041 in 2022, to 988 in 2023.
- Fatalities involving a school bus increased by 150 percent, from two in 2022, to five in 2023.
- October had the highest number of school bus involved crashes with 134, while January had 114 such crashes.
- Mondays and Tuesdays 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., and 3 p.m. and 5:59 p.m.

School Bus Involved Traffic Crash Statistics for 2019-2023

	2019	2020	2021	2022	2023
Total School Bus Involved Crashes	1,197	461	785	1,041	988
Total School Bus Involved Fatal Crashes	6	0	4	2	5
Total School Bus Involved Fatalities	6	0	4	2	5

School Bus Involved Traffic Crashes by Month
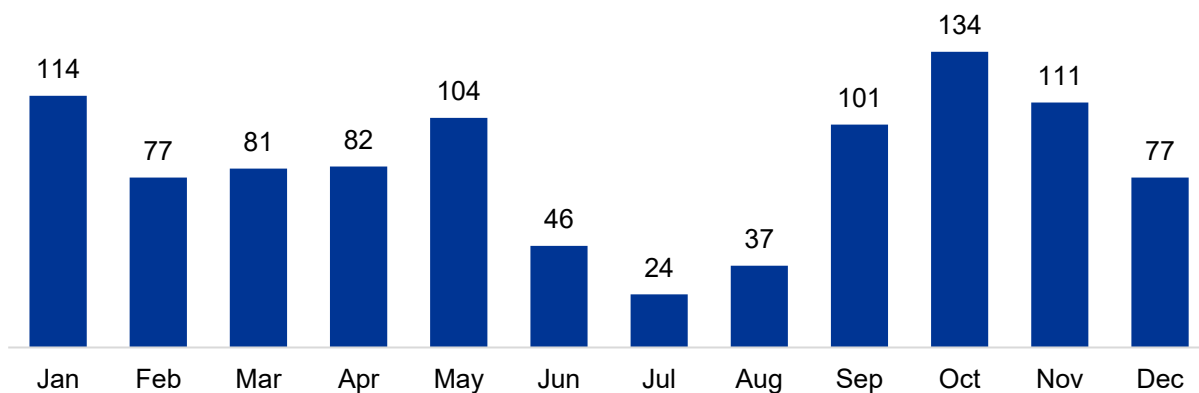
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
114	77	81	82	104	46	24	37	101	134	111	77

School Bus Involved Traffic Crashes by Day of Week

Sun	Mon	Tue	Wed	Thu	Fri	Sat
10	211	213	183	204	158	9

School Bus Involved Traffic Crashes by Time of Day

Time	Count
Midnight-2:59 a.m.	1
3 a.m.-5:59 a.m.	5
6 a.m.-8:59 a.m.	352
9 a.m.-11:59 a.m.	76
Noon-2:59 p.m.	158
3 p.m.-5:59 p.m.	371
6 p.m.-8:59 p.m.	20
9 p.m.-11:59 p.m.	5
Unknown	0
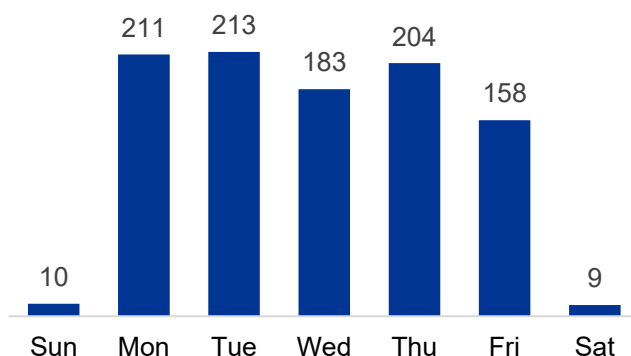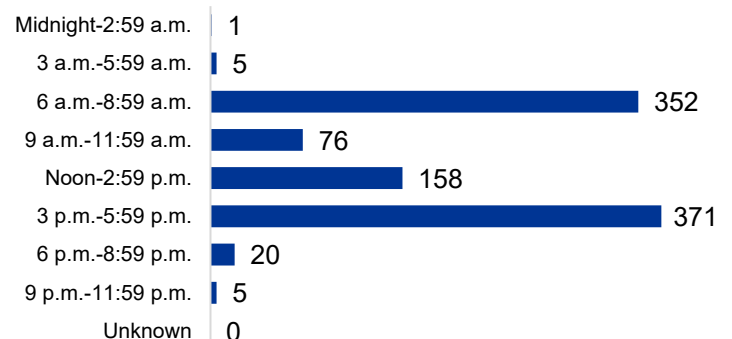
School Bus Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Alger County	1	0	0	0	0	1
Allegan County	10	0	0	2	9	8
Alpena County	5	0	0	1	3	4
Arenac County	3	0	0	0	0	3
Barry County	3	0	0	0	0	3
Bay County	8	0	0	1	1	7
Benzie County	4	0	0	1	1	3
Berrien County	8	0	0	0	0	8
Branch County	7	0	0	0	0	7
Calhoun County	16	0	0	1	1	15
Cass County	5	0	0	3	5	2
Charlevoix County	2	0	0	0	0	2
Chippewa County	2	0	0	0	0	2
Clare County	1	0	0	1	3	0
Clinton County	3	0	0	0	0	3
Crawford County	2	0	0	0	0	2
Delta County	5	0	0	1	1	4
Dickinson County	4	0	0	1	3	3
Eaton County	7	0	0	1	1	6
Emmet County	3	0	0	2	8	1
Genesee County	33	0	0	8	15	25
Grand Traverse County	23	0	0	4	6	19
Gratiot County	2	0	0	0	0	2
Hillsdale County	3	0	0	1	1	2
Houghton County	6	0	0	0	0	6
Huron County	1	0	0	0	0	1
Ingham County	28	0	0	4	4	24
Ionia County	2	0	0	0	0	2
Iosco County	3	0	0	1	2	2
Iron County	2	0	0	1	1	1
Isabella County	2	0	0	1	1	1
Jackson County	22	0	0	6	11	16
Kalamazoo County	42	0	0	4	5	38
Kalkaska County	2	0	0	1	1	1
Kent County	73	0	0	14	20	59
Lapeer County	12	0	0	3	3	9

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Leelanau County	2	0	0	0	0	2
Lenawee County	13	1	1	1	2	11
Livingston County	17	1	1	2	2	14
Macomb County	138	0	0	18	34	120
Manistee County	3	0	0	0	0	3
Marquette County	8	0	0	0	0	8
Mason County	1	0	0	0	0	1
Mecosta County	2	0	0	0	0	2
Menominee County	1	0	0	0	0	1
Midland County	12	0	0	5	7	7
Missaukee County	1	0	0	1	1	0
Monroe County	23	0	0	2	2	21
Montcalm County	5	0	0	3	11	2
Montmorency County	1	0	0	0	0	1
Muskegon County	23	0	0	4	4	19
Newaygo County	5	0	0	3	6	2
Oakland County	106	1	1	15	22	90
Ogemaw County	1	0	0	0	0	1
Ontonagon County	1	0	0	0	0	1
Osceola County	2	0	0	1	1	1
Otsego County	1	0	0	1	1	0
Ottawa County	20	0	0	4	5	16
Presque Isle County	1	0	0	0	0	1
Saginaw County	11	0	0	4	10	7
Sanilac County	2	0	0	0	0	2
Shiawassee County	2	0	0	1	3	1
St. Clair County	9	0	0	3	3	6
St. Joseph County	6	0	0	1	1	5
Tuscola County	2	0	0	0	0	2
Van Buren County	4	0	0	1	1	3
Washtenaw County	20	0	0	4	6	16
Wayne County	190	2	2	20	27	168
Total:	**988**	**5**	**5**	**157**	**255**	**826**

2023 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.

2023 Summary:
- Train involved crashes increased 17 percent, from 65 in 2022, to 76 in 2023.
- Fatalities involving a train decreased 25 percent, from four in 2022, to three in 2023.
- There were nine traffic crashes involving the Q-LINE (streetcar) in 2022, and 15 Q-LINE (streetcar) crashes in 2023.
- Fridays had the highest number of train involved crashes.
- The majority of train involved crashes occurred between noon and 2:59 p.m.

Train Involved Traffic Crash Statistics for 2019-2023

	2019	2020	2021	2022	2023
Total Train Involved Crashes	53	35	56	65	76
Total Train Involved Fatal Crashes	4	0	3	3	3
Total Train Involved Fatalities	7	0	3	4	3

Train Involved Traffic Crashes by Month
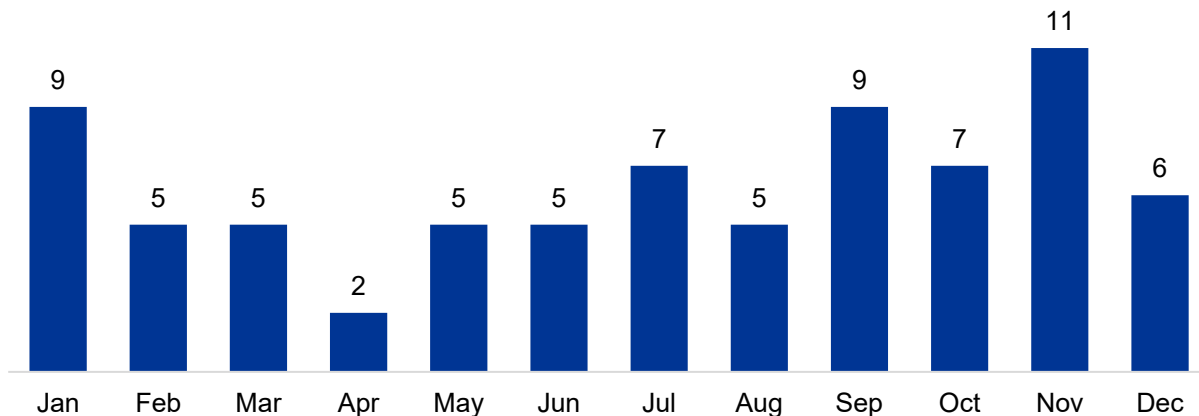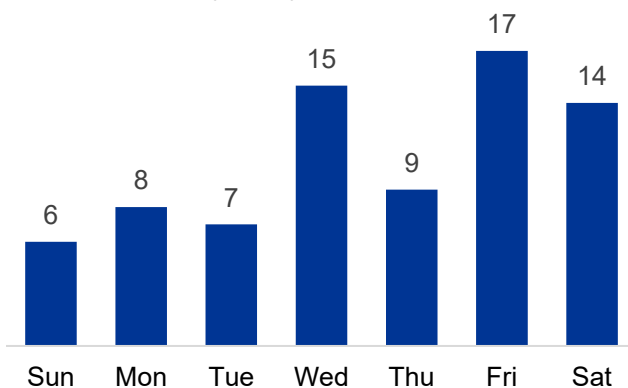
Jan 9, Feb 5, Mar 5, Apr 2, May 5, Jun 5, Jul 7, Aug 5, Sep 9, Oct 7, Nov 11, Dec 6

Train Involved Traffic Crashes by Day of Week

Sun 6, Mon 8, Tue 7, Wed 15, Thu 9, Fri 17, Sat 14

Train Involved Traffic Crashes by Time of Day

Midnight-2:59 a.m. 1
3 a.m.-5:59 a.m. 2
6 a.m.-8:59 a.m. 7
9 a.m.-11:59 a.m. 9
Noon-2:59 p.m. 22
3 p.m.-5:59 p.m. 12
6 p.m.-8:59 p.m. 12
9 p.m.-11:59 p.m. 11
Unknown 0
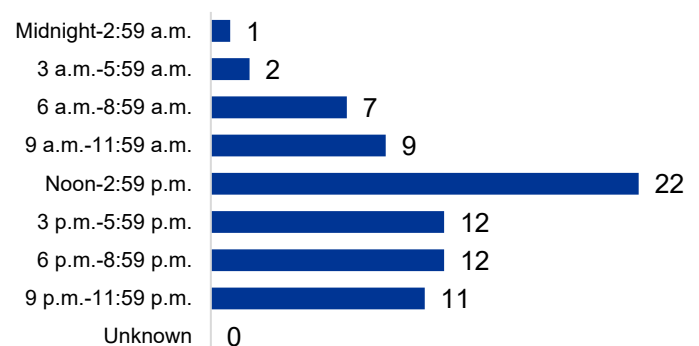
Train Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Allegan County	3	1	1	2	2	0
Berrien County	1	0	0	1	1	0
Calhoun County	1	0	0	0	0	1
Delta County	1	0	0	0	0	1
Dickinson County	2	0	0	0	0	2
Eaton County	1	0	0	0	0	1
Genesee County	3	0	0	1	1	2
Gratiot County	2	0	0	2	2	0
Ingham County	1	0	0	0	0	1
Kalamazoo County	5	0	0	1	1	4
Lenawee County	1	0	0	1	1	0
Livingston County	1	0	0	1	2	0
Mackinac County	1	0	0	0	0	1
Macomb County	1	0	0	1	1	0
Monroe County	4	0	0	3	3	1
Oakland County	3	0	0	1	1	2
Otsego County	1	0	0	1	1	0
Saginaw County	2	0	0	0	0	2
Schoolcraft County	1	0	0	0	0	1
Shiawassee County	1	0	0	1	1	0
St. Clair County	1	0	0	1	1	0
St. Joseph County	1	1	1	0	0	0
Washtenaw County	1	1	1	0	0	0
Wayne County	37	0	0	10	17	27
Total:	**76**	**3**	**3**	**27**	**35**	**46**

2023 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.

2023 Summary:
- There was an eight percent increase, from 7,436 in 2022, to 8,017 in 2023, for all work zone involved crashes.
- Work zone involved fatalities increased four percent, from 23 in 2022, to 24 in 2023.
- October had the highest number of work zone involved crashes with 1,071 crashes.
- Tuesdays 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 2019-2023

	2019	2020	2021	2022	2023
Total Work Zone Involved Crashes	5,808	4,035	5,814	7,436	8,017
Total Work Zone Involved Fatal Crashes	16	11	19	22	21
Total Work Zone Involved Fatalities	17	14	20	23	24

Work Zone Involved Traffic Crashes by Month
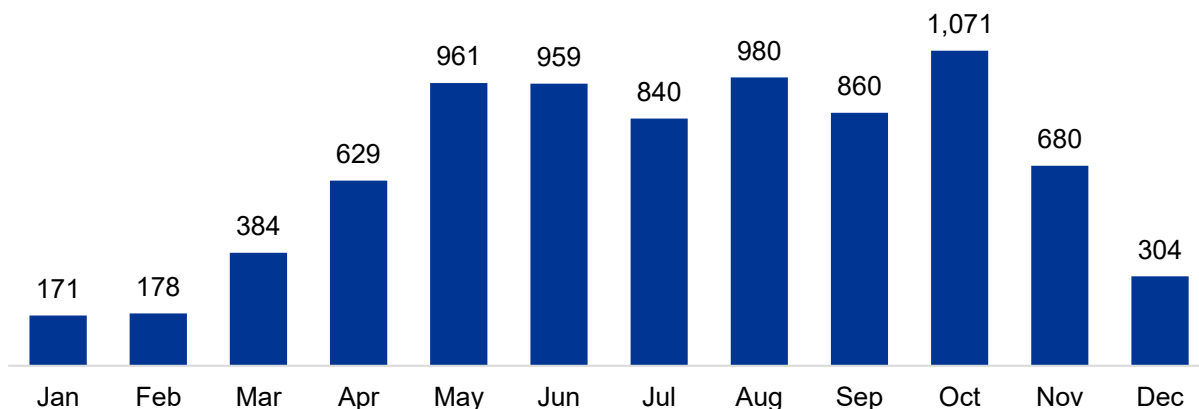
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
171	178	384	629	961	959	840	980	860	1,071	680	304

Work Zone Involved Traffic Crashes by Day of Week

Sun	Mon	Tue	Wed	Thu	Fri	Sat
748	1,085	1,361	1,308	1,322	1,225	968

Work Zone Involved Traffic Crashes by Time of Day

Time	Crashes
Midnight-2:59 a.m.	273
3 a.m.-5:59 a.m.	255
6 a.m.-8:59 a.m.	1,010
9 a.m.-11:59 a.m.	1,122
Noon-2:59 p.m.	1,663
3 p.m.-5:59 p.m.	1,789
6 p.m.-8:59 p.m.	858
9 p.m.-11:59 p.m.	465
Unknown	1
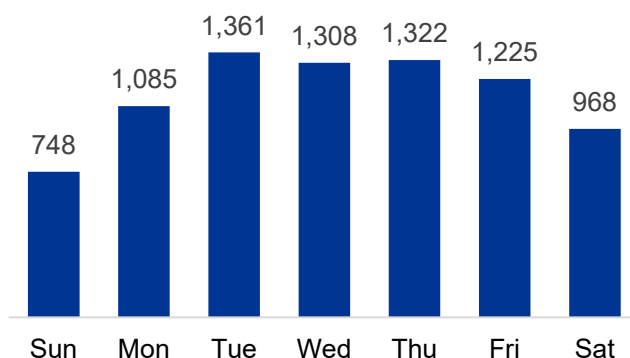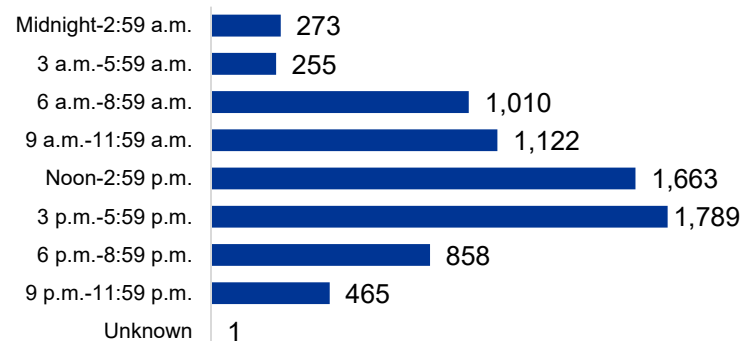
Work Zone Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Alcona County	2	0	0	1	2	1
Allegan County	24	0	0	3	3	21
Alpena County	2	0	0	2	3	0
Antrim County	3	0	0	0	0	3
Arenac County	10	0	0	2	2	8
Barry County	3	0	0	1	2	2
Bay County	74	0	0	15	24	59
Benzie County	1	0	0	0	0	1
Berrien County	152	2	2	28	47	122
Branch County	11	0	0	1	2	10
Calhoun County	178	0	0	31	37	147
Cass County	7	0	0	2	2	5
Charlevoix County	2	0	0	0	0	2
Cheboygan County	18	0	0	0	0	18
Chippewa County	3	0	0	1	1	2
Clare County	1	0	0	0	0	1
Clinton County	40	0	0	8	11	32
Crawford County	1	0	0	1	1	0
Delta County	1	0	0	0	0	1
Dickinson County	3	0	0	0	0	3
Eaton County	102	1	1	17	31	84
Emmet County	13	0	0	1	2	12
Genesee County	175	0	0	34	47	141
Gladwin County	3	0	0	0	0	3
Gogebic County	1	0	0	0	0	1
Grand Traverse County	21	0	0	6	6	15
Gratiot County	5	0	0	2	4	3
Hillsdale County	4	0	0	0	0	4
Houghton County	1	0	0	0	0	1
Huron County	3	0	0	0	0	3
Ingham County	375	1	1	76	112	298
Ionia County	14	1	1	4	10	9
Iosco County	5	1	1	1	3	3
Isabella County	72	0	0	17	23	55
Jackson County	204	1	1	33	52	170
Kalamazoo County	179	1	1	33	39	145
Kalkaska County	1	0	0	0	0	1
Kent County	239	2	2	50	82	187

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Keweenaw County	1	0	0	0	0	1
Lapeer County	37	0	0	5	8	32
Leelanau County	4	0	0	1	1	3
Lenawee County	13	0	0	2	2	11
Livingston County	268	1	1	40	54	227
Luce County	2	0	0	0	0	2
Mackinac County	8	0	0	0	0	8
Macomb County	1,042	2	2	206	272	834
Manistee County	4	0	0	0	0	4
Marquette County	15	0	0	2	2	13
Mason County	9	0	0	0	0	9
Mecosta County	7	0	0	1	1	6
Menominee County	4	0	0	2	4	2
Midland County	26	0	0	3	3	23
Missaukee County	1	0	0	0	0	1
Monroe County	158	1	1	25	34	132
Montcalm County	6	1	1	2	5	3
Muskegon County	48	0	0	9	11	39
Oakland County	2,024	2	2	383	515	1,639
Oceana County	3	0	0	0	0	3
Ogemaw County	7	0	0	1	1	6
Ontonagon County	4	0	0	1	1	3
Osceola County	4	0	0	1	2	3
Otsego County	3	0	0	1	1	2
Ottawa County	149	0	0	25	32	124
Presque Isle County	3	0	0	0	0	3
Roscommon County	2	0	0	0	0	2
Saginaw County	27	0	0	6	10	21
Sanilac County	4	0	0	1	2	3
Shiawassee County	19	0	0	3	4	16
St. Clair County	25	0	0	2	2	23
St. Joseph County	43	0	0	9	12	34
Tuscola County	2	0	0	1	1	1
Van Buren County	21	2	2	2	2	17
Washtenaw County	284	0	0	54	67	230
Wayne County	1,783	2	5	371	521	1,410
Wexford County	4	0	0	2	3	2
Total:	**8,017**	**21**	**24**	**1,531**	**2,121**	**6,465**

2023 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.

2023 Summary:
- Police-Ambulance-Fire involved fatalities decreased 60 percent, from 10 in 2022, to four in 2023.
- October had the highest number of Police-Ambulance-Fire involved crashes with 277 crashes.
- Tuesdays had the highest number of Police-Ambulance-Fire involved crashes.
- The majority of Police-Ambulance-Fire involved crashes occurred between 3 p.m. and 5:59 p.m.

Police – Ambulance – Fire Involved Traffic Crash Statistics for 2019-2023

	2019	2020	2021	2022	2023
Total Police-Ambulance-Fire Involved Crashes	2,486	2,245	2,379	2,515	2,549
Total Police-Ambulance-Fire Involved Fatal Crashes	3	4	2	9	3
Total Police-Ambulance-Fire Involved Fatalities	4	4	2	10	4

Police-Ambulance-Fire Involved Traffic Crashes by Month
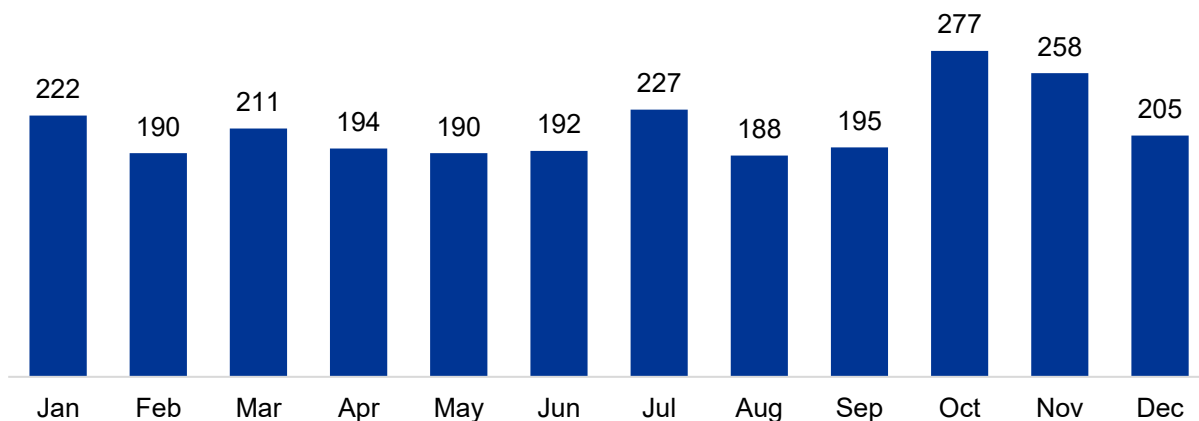
Police-Ambulance-Fire Involved Traffic Crashes by Day of Week
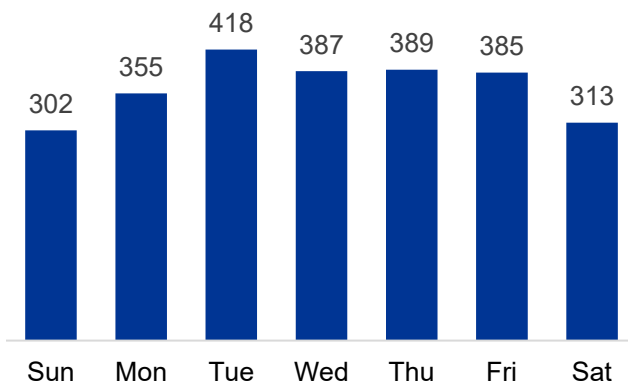
Police-Ambulance-Fire Involved Traffic Crashes by Time of Day
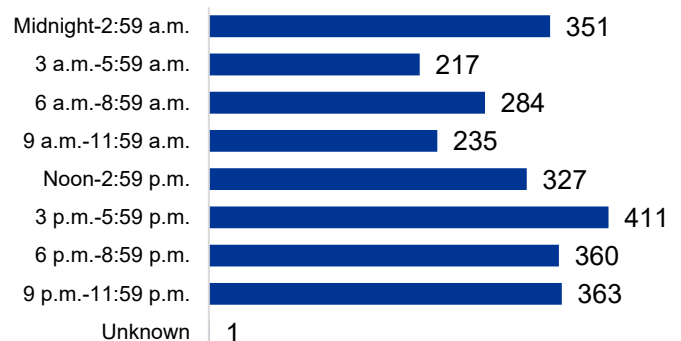
Police-Ambulance-Fire Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Alcona County	12	0	0	2	2	10
Alger County	5	0	0	0	0	5
Allegan County	33	0	0	3	3	30
Alpena County	14	0	0	0	0	14
Antrim County	11	0	0	0	0	11
Arenac County	3	0	0	0	0	3
Baraga County	1	0	0	1	1	0
Barry County	18	0	0	1	1	17
Bay County	18	0	0	2	2	16
Benzie County	8	0	0	1	1	7
Berrien County	48	0	0	9	10	39
Branch County	12	0	0	2	2	10
Calhoun County	39	0	0	5	10	34
Cass County	14	0	0	1	1	13
Charlevoix County	12	0	0	0	0	12
Cheboygan County	16	0	0	0	0	16
Chippewa County	15	0	0	1	1	14
Clare County	13	0	0	2	6	11
Clinton County	20	0	0	1	1	19
Crawford County	10	0	0	0	0	10
Delta County	13	0	0	1	1	12
Dickinson County	4	0	0	2	4	2
Eaton County	22	0	0	2	2	20
Emmet County	7	0	0	0	0	7
Genesee County	102	0	0	26	42	76
Gladwin County	2	0	0	0	0	2
Gogebic County	6	0	0	1	1	5
Grand Traverse County	20	0	0	3	3	17
Gratiot County	11	0	0	0	0	11
Hillsdale County	15	0	0	2	3	13
Houghton County	4	0	0	0	0	4
Huron County	6	0	0	0	0	6
Ingham County	82	0	0	8	10	74
Ionia County	13	0	0	0	0	13
Iosco County	9	0	0	0	0	9
Iron County	5	0	0	0	0	5

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Isabella County	15	0	0	1	4	14
Jackson County	43	0	0	4	7	39
Kalamazoo County	83	0	0	9	15	74
Kalkaska County	8	0	0	0	0	8
Kent County	122	0	0	19	29	103
Lake County	7	0	0	0	0	7
Lapeer County	30	0	0	3	3	27
Leelanau County	9	0	0	0	0	9
Lenawee County	19	0	0	1	1	18
Livingston County	27	0	0	3	5	24
Luce County	3	0	0	0	0	3
Mackinac County	16	0	0	0	0	16
Macomb County	104	0	0	32	50	72
Manistee County	14	0	0	0	0	14
Marquette County	11	0	0	1	2	10
Mason County	8	0	0	1	1	7
Mecosta County	11	0	0	1	1	10
Menominee County	4	0	0	0	0	4
Midland County	21	0	0	3	3	18
Missaukee County	2	0	0	0	0	2
Monroe County	32	0	0	3	6	29
Montcalm County	32	0	0	1	1	31
Montmorency County	4	0	0	0	0	4
Muskegon County	29	0	0	6	13	23
Newaygo County	12	0	0	0	0	12
Oakland County	267	2	2	35	57	230
Oceana County	10	0	0	0	0	10
Ogemaw County	13	0	0	1	1	12
Ontonagon County	9	0	0	1	2	8
Osceola County	3	0	0	0	0	3
Oscoda County	4	0	0	0	0	4
Otsego County	10	0	0	0	0	10
Ottawa County	46	0	0	5	7	41
Presque Isle County	3	0	0	0	0	3
Roscommon County	11	0	0	1	2	10
Saginaw County	46	0	0	6	9	40
Sanilac County	8	0	0	0	0	8
Schoolcraft County	6	0	0	1	1	5

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Shiawassee County	20	0	0	0	0	20
St. Clair County	24	0	0	4	4	20
St. Joseph County	15	0	0	0	0	15
Tuscola County	13	0	0	1	1	12
Van Buren County	32	0	0	7	12	25
Washtenaw County	91	0	0	11	17	80
Wayne County	601	1	2	141	227	459
Wexford County	8	0	0	0	0	8
Total:	2,549	3	4	378	588	2,168

2023 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.

2023 Summary:
- Fleeing police involved fatalities decreased eight percent, from 24 in 2022, to 22 in 2023.
- August had the highest number of fleeing police involved crashes with 80 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 2019-2023

	2019	2020	2021	2022	2023
Total Fleeing Police Involved Crashes	550	682	808	742	764
Total Fleeing Police Involved Fatal Crashes	8	15	9	21	21
Total Fleeing Police Involved Fatalities	11	15	9	24	22

Fleeing Police Involved Traffic Crashes by Month
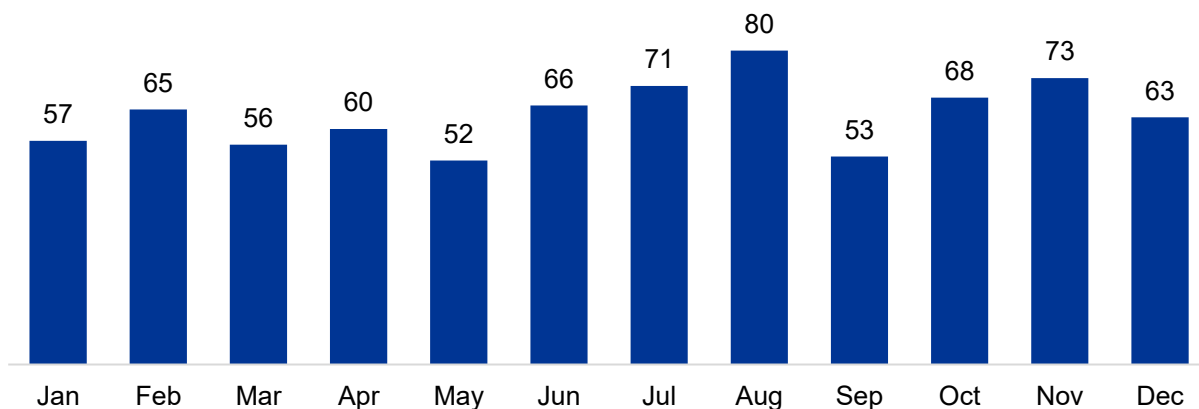
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
57	65	56	60	52	66	71	80	53	68	73	63

Fleeing Police Involved Traffic Crashes by Day of Week

Sun	Mon	Tue	Wed	Thu	Fri	Sat
99	98	103	119	112	125	108

Fleeing Police Involved Traffic Crashes by Time of Day

Time of Day	Crashes
Midnight-2:59 a.m.	189
3 a.m.-5:59 a.m.	67
6 a.m.-8:59 a.m.	20
9 a.m.-11:59 a.m.	46
Noon-2:59 p.m.	71
3 p.m.-5:59 p.m.	99
6 p.m.-8:59 p.m.	114
9 p.m.-11:59 p.m.	157
Unknown	1
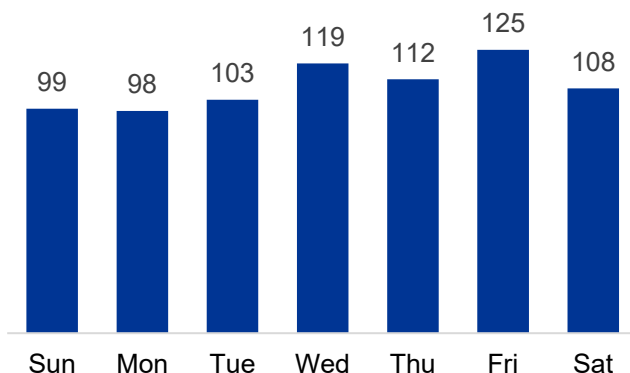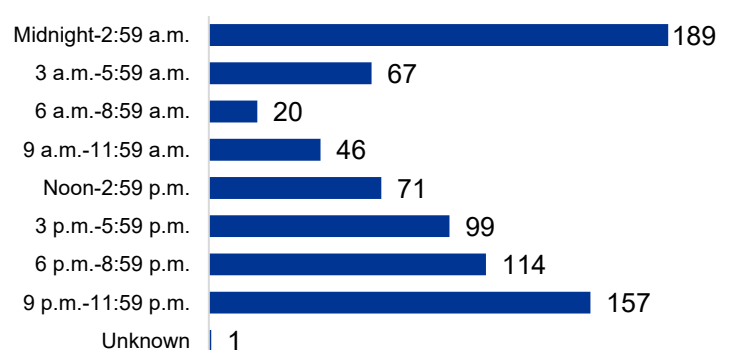
Fleeing Police Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Allegan County	14	0	0	3	5	11
Antrim County	1	0	0	1	1	0
Arenac County	3	0	0	1	1	2
Barry County	1	0	0	0	0	1
Bay County	4	0	0	0	0	4
Benzie County	1	0	0	1	1	0
Berrien County	16	1	1	6	9	9
Branch County	12	0	0	4	4	8
Calhoun County	7	0	0	4	5	3
Cass County	8	1	1	5	7	2
Charlevoix County	1	0	0	1	1	0
Cheboygan County	3	0	0	1	1	2
Chippewa County	1	0	0	0	0	1
Clare County	1	0	0	1	2	0
Clinton County	4	0	0	1	1	3
Crawford County	2	0	0	0	0	2
Dickinson County	3	0	0	2	3	1
Eaton County	2	0	0	0	0	2
Genesee County	43	0	0	19	29	24
Gogebic County	1	0	0	1	1	0
Grand Traverse County	6	0	0	1	1	5
Gratiot County	6	0	0	3	5	3
Hillsdale County	1	0	0	1	1	0
Houghton County	1	0	0	0	0	1
Ingham County	21	0	0	4	7	17
Ionia County	4	0	0	3	8	1
Isabella County	7	0	0	2	2	5
Jackson County	12	1	1	6	14	5
Kalamazoo County	34	0	0	9	20	25
Kalkaska County	2	0	0	0	0	2
Kent County	44	2	2	13	18	29
Lake County	1	0	0	0	0	1
Lapeer County	1	0	0	0	0	1
Leelanau County	2	0	0	0	0	2
Lenawee County	5	0	0	1	2	4
Livingston County	10	0	0	5	8	5

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Luce County	1	0	0	1	1	0
Mackinac County	1	0	0	0	0	1
Macomb County	46	2	2	28	48	16
Manistee County	1	0	0	0	0	1
Marquette County	3	0	0	0	0	3
Mecosta County	1	0	0	0	0	1
Menominee County	1	1	1	0	0	0
Midland County	4	0	0	2	2	2
Monroe County	10	1	1	3	4	6
Montcalm County	3	0	0	1	1	2
Muskegon County	19	1	1	6	15	12
Newaygo County	1	0	0	0	0	1
Oakland County	52	2	2	22	44	28
Osceola County	4	0	0	2	2	2
Ottawa County	25	0	0	10	11	15
Saginaw County	16	0	0	6	7	10
Sanilac County	1	0	0	1	1	0
Shiawassee County	4	0	0	0	0	4
St. Clair County	2	0	0	1	1	1
St. Joseph County	7	1	1	5	6	1
Tuscola County	3	1	1	0	1	2
Van Buren County	6	1	1	2	6	3
Washtenaw County	26	1	1	14	25	11
Wayne County	237	5	6	79	136	153
Wexford County	5	0	0	2	3	3
Total:	764	21	22	284	471	459

2023 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.

2023 Summary:
- Farm equipment involved fatalities decreased 25 percent, from four in 2022, to three in 2023.
- May and November had the highest number of farm equipment involved crashes.
- Wednesdays had the highest number of farm equipment involved crashes.
- The majority of farm equipment involved crashes occurred between noon and 5:59 p.m.

Farm Equipment Involved Traffic Crash Statistics for 2019-2023

	2019	2020	2021	2022	2023
Total Farm Equipment Involved Crashes	232	181	195	214	195
Total Farm Equipment Involved Fatal Crashes	5	5	5	4	3
Total Farm Equipment Involved Fatalities	6	5	5	4	3

Farm Equipment Involved Traffic Crashes by Month
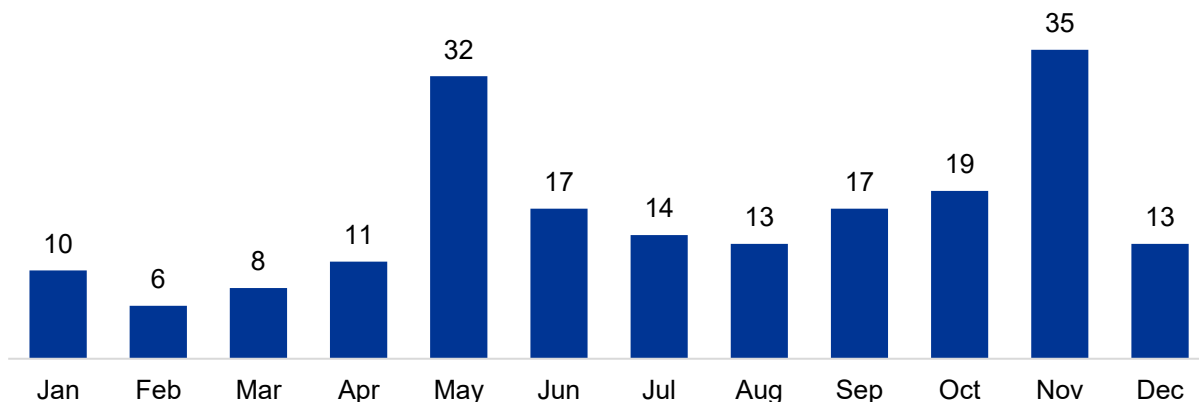
Jan 10, Feb 6, Mar 8, Apr 11, May 32, Jun 17, Jul 14, Aug 13, Sep 17, Oct 19, Nov 35, Dec 13

Farm Equipment Involved Traffic Crashes by Day of Week

Sun 21, Mon 25, Tue 22, Wed 44, Thu 25, Fri 38, Sat 20

Farm Equipment Involved Traffic Crashes by Time of Day

Midnight-2:59 a.m. 5
3 a.m.-5:59 a.m. 3
6 a.m.-8:59 a.m. 13
9 a.m.-11:59 a.m. 38
Noon-2:59 p.m. 44
3 p.m.-5:59 p.m. 44
6 p.m.-8:59 p.m. 33
9 p.m.-11:59 p.m. 15
Unknown 0
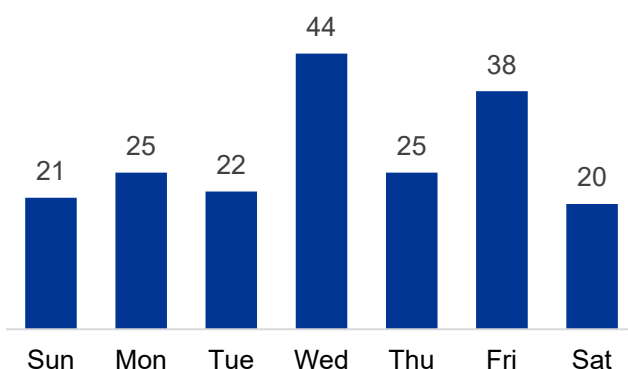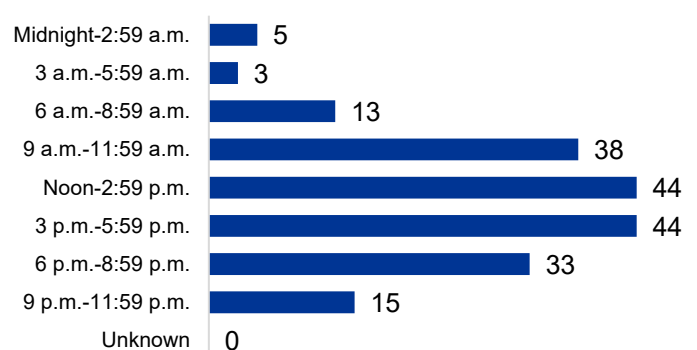
Farm Equipment Involved Crashes by County

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Alcona County	1	0	0	0	0	1
Allegan County	12	0	0	2	2	10
Antrim County	1	0	0	0	0	1
Barry County	3	0	0	0	0	3
Bay County	3	0	0	1	1	2
Berrien County	3	0	0	2	2	1
Branch County	3	0	0	1	1	2
Calhoun County	8	0	0	1	1	7
Cass County	4	0	0	1	2	3
Clare County	2	0	0	0	0	2
Clinton County	7	0	0	0	0	7
Eaton County	1	0	0	0	0	1
Emmet County	1	0	0	1	1	0
Genesee County	9	0	0	2	3	7
Gladwin County	1	0	0	0	0	1
Gogebic County	1	0	0	0	0	1
Grand Traverse County	2	0	0	1	1	1
Gratiot County	1	0	0	0	0	1
Hillsdale County	1	0	0	0	0	1
Huron County	1	0	0	0	0	1
Ingham County	5	0	0	2	2	3
Ionia County	8	0	0	1	1	7
Iosco County	1	0	0	1	2	0
Isabella County	9	0	0	3	3	6
Jackson County	3	0	0	0	0	3
Kalamazoo County	2	0	0	0	0	2
Kent County	1	0	0	0	0	1
Lapeer County	5	0	0	3	3	2
Leelanau County	1	0	0	0	0	1
Lenawee County	4	0	0	2	2	2
Livingston County	3	0	0	1	1	2
Macomb County	3	0	0	1	1	2
Manistee County	1	0	0	0	0	1
Marquette County	2	0	0	0	0	2
Mason County	3	0	0	0	0	3
Menominee County	4	0	0	2	2	2

County	Total Crashes	Fatal Crashes	Fatalities	Injury Crashes	Injuries	Property Damage Crashes
Midland County	1	0	0	0	0	1
Missaukee County	5	1	1	1	2	3
Monroe County	2	0	0	1	2	1
Montcalm County	5	0	0	0	0	5
Muskegon County	3	0	0	0	0	3
Newaygo County	7	1	1	2	5	4
Oakland County	5	0	0	1	1	4
Ogemaw County	3	0	0	1	1	2
Ottawa County	2	0	0	0	0	2
Saginaw County	9	1	1	0	0	8
Sanilac County	10	0	0	1	1	9
Shiawassee County	1	0	0	0	0	1
St. Clair County	4	0	0	2	2	2
St. Joseph County	1	0	0	0	0	1
Tuscola County	2	0	0	1	1	1
Van Buren County	4	0	0	2	4	2
Washtenaw County	5	0	0	2	2	3
Wayne County	6	0	0	2	4	4
Total:	**195**	**3**	**3**	**44**	**56**	**148**

MICHIGAN TRAFFIC CRASH DECADE AT-A-GLANCE

	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014
Total Crashes	287,953	293,341	282,640	245,432	314,377	312,798	314,921	312,172	297,023	298,699
Total Injuries	71,085	70,281	71,246	60,986	74,963	75,838	78,394	79,724	74,157	71,378
Total A Injuries	5,816	5,782	5,979	5,433	5,629	5,586	6,084	5,634	4,865	4,909
Total Fatalities	1,095	1,123	1,131	1,083	985	974	1,028	1,064	963	876
Fatal Crashes	1,021	1,053	1,068	1,010	902	905	937	980	893	806
Fatality Rate per 100m VMT**		1.2	1.2	1.3	1.0	1.0	1.0	1.1	1.0	0.9
Fatal Crash Rate per 100m VMT**		1.1	1.1	1.2	0.9	0.9	0.9	1.0	0.9	0.8
Fatality Restraint Use*	49.7%	47.8%	45.3%	43.2%	51.7%	54.7%	53.0%	52.3%	52.5%	50.7%
Alcohol/Drug Involved Fatal Crashes	404	420	475	422	378	394	421	378	346	291
% of Alcohol/Drug Involved Fatal Crashes to Total Fatal Crashes	39.6%	39.9%	44.5%	41.8%	41.9%	43.5%	44.9%	38.6%	38.7%	36.1%
Alcohol/Drug Involved Fatalities	445	454	505	453	419	434	470	412	384	319
% of Alcohol/Drug Involved Fatalities to Total Fatalities	40.6%	40.4%	44.7%	41.8%	42.5%	44.6%	45.7%	38.7%	39.9%	36.4%
Alcohol Involved Fatal Crashes	272	301	336	303	266	287	320	251	271	222
Alcohol Involved Fatalities	297	322	357	326	295	315	359	271	303	236
Drug Involved Fatal Crashes	230	229	259	250	214	220	221	213	159	131
Drug Involved Fatalities	256	249	275	267	237	247	246	236	179	150
OUIL Arrests *(all agencies)*	26,408	26,707	27,506	25,820	30,626	31,856	32,474	32,610	33,720	35,060
Registered Vehicles *(Millions)*	9.79	9.39	9.54	9.00	9.10	8.43	8.48	8.38	8.26	8.19
MVMT *(Billions)***		96.7	96.7	86.3	102.1	102.3	101.7	99	98.1	98.1
Population *(Millions)*	10.03	10.12	10.05	9.99	9.99	9.99	9.96	9.93	9.92	9.9

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

**The current year VMT will be updated after it is published later in the summer.

MICHIGAN TRAFFIC CRASH FATALITIES BY YEAR

Year	Crashes	Fatalities	Crashes Per Fatal	Year	Crashes	Fatalities	Crashes Per Fatal
1943	71,450	992	72	1986	400,694	1,632	246
1944	72,013	1,034	70	1987	397,224	1,632	243
1945	83,160	1,150	72	1988	410,437	1,704	241
1946	110,631	1,470	75	1989	417,252	1,630	256
1947	137,619	1,447	95	1990	387,180	1,563	248
1948	140,172	1,512	93	1991	364,847	1,425	256
1949	143,197	1,441	99	1992	344,942	1,300	265
1950	161,750	1,605	101	1993	363,639	1,414	257
1951	176,587	1,640	108	1994	398,080	1,419	281
1952	160,829	1,736	93	1995	421,073	1,537	274
1953	184,174	1,905	97	1996	435,477	1,505	289
1954	185,534	1,793	103	1997	425,793	1,446	294
1955	196,812	2,016	98	1998	403,766	1,367	295
1956	197,995	1,746	113	1999	415,675	1,386	300
1957	191,915	1,548	124	2000	424,867	1,382	307
1958	177,934	1,382	129	2001	400,813	1,328	302
1959	198,771	1,473	135	2002	395,515	1,279	309
1960	209,724	1,604	131	2003	391,486	1,283	305
1961	199,973	1,567	128	2004	373,028	1,159	322
1962	233,078	1,574	148	2005	350,838	1,129	311
1963	261,794	1,887	139	2006	315,322	1,084	291
1964	284,444	2,122	134	2007	324,174	1,084	299
1965	310,598	2,136	145	2008	316,057	980	323
1966	302,880	2,298	132	2009	290,978	871	334
1967	299,004	2,137	140	2010	282,075	937	301
1968	305,495	2,392	128	2011	284,049	889	320
1969	331,223	2,487	133	2012	273,891	936	293
1970	313,715	2,177	144	2013	289,061	951	304
1971	314,015	2,152	146	2014	298,699	876	341
1972	359,745	2,258	159	2015	297,023	963	308
1973	350,864	2,213	159	2016	312,172	1,064	293
1974	324,763	1,875	173	2017	314,921	1,028	306
1975	333,560	1,811	184	2018	312,798	974	321
1976	365,600	1,955	187	2019	314,377	985	319
1977	374,751	1,950	192	2020	245,432	1,083	227
1978	389,193	2,076	187	2021	282,640	1,131	250
1979	366,435	1,849	198	2022	293,341	1,123	261
1980	314,594	1,774	177	2023	287,953	1,095	263
1981	302,831	1,589	191				
1982	294,971	1,417	208				
1983	300,797	1,331	226				
1984	335,193	1,556	215				
1985	386,904	1,569	247				
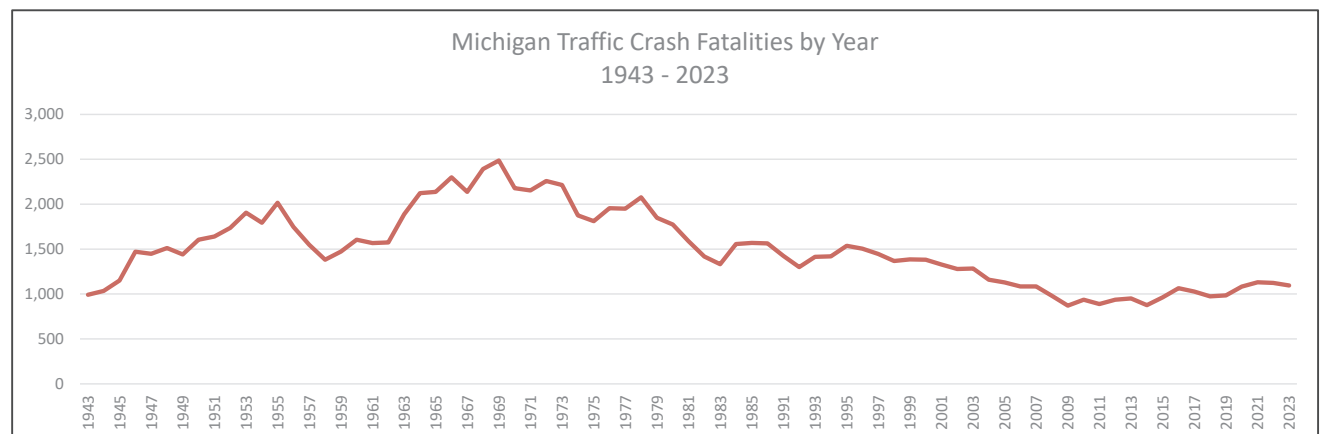
Michigan Traffic Crash Fatalities by Year
1943 - 2023

Date Created: 5/3/2024
For questions, please contact the Traffic Crash Reporting Unit at 517-241-1699.

Michigan Department of State Police
Criminal Justice Information Center
Traffic Crash Reporting Unit
New Years (2023) Day Report 12/30/2022 18:00 to 01/02/2023 23:59

Fatal Crashes   6   **Fatalities**   8

Crash Date	County	Victim	Alcohol	Restraint	Age
DEC 31, 2022	Genesee	Pedestrian	No	No Belts Available	45
DEC 31, 2022	Houghton	Snowmobile Occupant	No	Helmet Worn	13
DEC 31, 2022	Cass	Passenger	Unknown	No Belts Available	18
JAN 01, 2023	Jackson	Driver	Yes	Shoulder and Lap Belt	42
JAN 01, 2023	Oakland	Pedestrian	No	No Belts Available	22
JAN 02, 2023	Wayne	Driver	No	Shoulder and Lap Belt	87
JAN 02, 2023	Genesee	Driver	No	Shoulder and Lap Belt	41
JAN 02, 2023	Wayne	Motorcycle Occupant	Yes	Helmet Not Worn	73

Total crashes that had alcohol involved: 2 .**

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

Michigan Department of State Police
Criminal Justice Information Center
Traffic Crash Reporting Unit
Memorial Day Report 05/26/2023 18:00 to 05/29/2023 23:59

| | **Fatal Crashes** 21 | | **Fatalities** 26 | |

Crash Date	County	Victim	Alcohol	Restraint	Age
MAY 26, 2023	Wayne	Driver	No	No Belts Used	23
MAY 26, 2023	Crawford	Motorcycle Occupant	Yes	Helmet Not Worn	62
MAY 26, 2023	Wayne	Motorcycle Occupant	No	Helmet Not Worn	24
MAY 27, 2023	Benzie	Bicyclist	No	Helmet Not Worn	21
MAY 27, 2023	Bay	Driver	No	No Belts Used	86
MAY 27, 2023	Bay	Motorcycle Occupant	Yes	Helmet Not Worn	65
MAY 27, 2023	Roscommon	Motorcycle Occupant	Unknown	Helmet Worn	49
MAY 27, 2023	Genesee	Passenger	Unknown	Shoulder and Lap Belt	31
MAY 27, 2023	Genesee	Passenger	Unknown	No Belts Used	24
MAY 27, 2023	Genesee	Motorcycle Occupant	No	Helmet Not Worn	61
MAY 28, 2023	Hillsdale	Driver	Yes	Shoulder and Lap Belt	42
MAY 28, 2023	Lapeer	Motorcycle Occupant	No	Helmet Worn	65
MAY 28, 2023	Genesee	Motorcycle Occupant	No	Helmet Not Worn	48
MAY 28, 2023	Wayne	Pedestrian	No	No Belts Available	49
MAY 28, 2023	Wayne	Pedestrian	No	No Belts Available	35
MAY 29, 2023	Wayne	Driver	No	Restraint Use Unknown	20
MAY 29, 2023	Wayne	Driver	Yes	Lap Belt Only	31
MAY 29, 2023	Oakland	Motorcycle Occupant	No	Helmet Not Worn	53
MAY 29, 2023	Sanilac	ORV Occupant	No	Helmet Not Worn	13
MAY 29, 2023	Monroe	Motorcycle Occupant	No	Helmet Worn	28
MAY 29, 2023	Saginaw	Driver	No	Shoulder and Lap Belt	68
MAY 29, 2023	Newaygo	ORV Occupant	Yes	Helmet Use Unknown	52

Total crashes that had alcohol involved: 5 .**

Michigan Department of State Police
Criminal Justice Information Center
Traffic Crash Reporting Unit
Independence Day Report 06/30/2023 18:00 to 07/04/2023 23:59

Fatal Crashes   18   **Fatalities**   20

Crash Date	County	Victim	Alcohol	Restraint	Age
JUN 30, 2023	St Joseph	Passenger	Unknown	No Belts Used	29
JUN 30, 2023	St Joseph	Passenger	Unknown	No Belts Used	27
JUL 01, 2023	Kent	Moped Occupant	No	Helmet Not Worn	29
JUL 01, 2023	Genesee	Driver	No	No Belts Used	41
JUL 01, 2023	St Joseph	Motorcycle Occupant	No	Helmet Not Worn	26
JUL 01, 2023	Van Buren	Passenger	Unknown	Shoulder and Lap Belt	48
JUL 01, 2023	Macomb	Pedestrian	No	No Belts Available	78
JUL 01, 2023	Wayne	Pedestrian	No	No Belts Available	41
JUL 02, 2023	Wayne	Pedestrian	No	No Belts Available	69
JUL 03, 2023	Kalamazoo	Driver	No	Restraint Use Unknown	61
JUL 03, 2023	Kalkaska	Motorcycle Occupant	No	Helmet Worn	43
JUL 03, 2023	Macomb	Pedestrian	No	No Belts Available	47
JUL 04, 2023	Kent	Motorcycle Occupant	Yes	Helmet Not Worn	33
JUL 04, 2023	Jackson	Driver	No	Shoulder and Lap Belt	87
JUL 04, 2023	Jackson	Passenger	Unknown	No Belts Used	86
JUL 04, 2023	Jackson	Motorcycle Occupant	No	Helmet Not Worn	65
JUL 04, 2023	Ionia	Driver	No	Shoulder and Lap Belt	67
JUL 04, 2023	Wayne	Motorcycle Occupant	No	Helmet Worn	30

Total crashes that had alcohol involved: 1 .**

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

Michigan Department of State Police
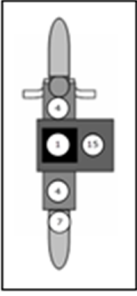## Criminal Justice Information Center
Traffic Crash Reporting Unit
Labor Day Report 09/01/2023 18:00 to 09/04/2023 23:59

Fatal Crashes   18   **Fatalities**   32

Crash Date	County	Victim	Alcohol	Restraint	Age
SEP 01, 2023	Bay	Driver	No	Shoulder and Lap Belt	75
SEP 02, 2023	Sanilac	Driver	Yes	No Belts Used	74
SEP 02, 2023	Isabella	Driver	No	No Belts Used	35
SEP 02, 2023	Kalkaska	ORV Occupant	No	Helmet Use Unknown	80
SEP 02, 2023	Genesee	Motorcycle Occupant	No	Helmet Use Unknown	29
SEP 02, 2023	Menominee	Driver	Yes	No Belts Used	28
SEP 03, 2023	Saginaw	Driver	No	Restraint Use Unknown	19
SEP 03, 2023	Chippewa	Motorcycle Occupant	No	Helmet Worn	28
SEP 03, 2023	Jackson	Motorcycle Occupant	No	Helmet Worn	69
SEP 03, 2023	Missaukee	Motorcycle Occupant	No	Helmet Worn	90
SEP 03, 2023	Wayne	Pedestrian	No	No Belts Available	57
SEP 03, 2023	Genesee	Driver	No	Shoulder and Lap Belt	67
SEP 03, 2023	Oscoda	Pedestrian	Yes	No Belts Available	63
SEP 03, 2023	Muskegon	Motorcycle Occupant	Yes	Helmet Not Worn	26
SEP 03, 2023	Wayne	Pedestrian	No	No Belts Available	69
SEP 04, 2023	Lenawee	Driver	No	Shoulder and Lap Belt	35
SEP 04, 2023	Lenawee	Passenger	Unknown	Restraint Use Unknown	18
SEP 04, 2023	Lenawee	Passenger	Unknown	Restraint Use Unknown	33
SEP 04, 2023	Lenawee	Passenger	Unknown	Restraint Use Unknown	23
SEP 04, 2023	Leelanau	Passenger	Unknown	Shoulder and Lap Belt	46

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.

Michigan Department of State Police
Criminal Justice Information Center
Traffic Crash Reporting Unit
Thanksgiving Report 11/22/2023 18:00 to 11/26/2023 23:59

| **Fatal Crashes** | 15 | | **Fatalities** | 15 |

Crash Date	County	Victim	Alcohol	Restraint	Age
NOV 22, 2023	Macomb	Bicyclist	No	Helmet Not Worn	61
NOV 22, 2023	Clare	Driver	Yes	No Belts Used	53
NOV 23, 2023	Kalamazoo	Driver	No	Shoulder and Lap Belt	69
NOV 23, 2023	Kent	Passenger	Unknown	Shoulder and Lap Belt	18
NOV 23, 2023	Monroe	Driver	Yes	No Belts Used	54
NOV 24, 2023	Kalamazoo	Passenger	Unknown	Shoulder and Lap Belt	22
NOV 24, 2023	Wayne	Pedestrian	No	No Belts Available	84
NOV 25, 2023	Wexford	Driver	Yes	Restraint Use Unknown	47
NOV 25, 2023	Oakland	Driver	No	Shoulder and Lap Belt	77
NOV 25, 2023	Livingston	Passenger	Unknown	Shoulder and Lap Belt	19
NOV 26, 2023	Kalamazoo	Driver	Yes	No Belts Used	19
NOV 26, 2023	Wayne	Pedestrian	No	No Belts Available	32
NOV 26, 2023	Grand Traverse	Driver	No	Shoulder and Lap Belt	24
NOV 26, 2023	Osceola	Passenger	Unknown	Shoulder and Lap Belt	82
NOV 26, 2023	Wayne	Driver	No	Shoulder and Lap Belt	71

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.

Michigan Department of State Police
Criminal Justice Information Center
Traffic Crash Reporting Unit
Christmas Report 12/22/2023 18:00 to 12/25/2023 23:59

Fatal Crashes   12   **Fatalities**   17

Crash Date	County	Victim	Alcohol	Restraint	Age
DEC 23, 2023	Van Buren	Pedestrian	No	No Belts Available	28
DEC 23, 2023	Kent	Driver	No	No Belts Used	46
DEC 23, 2023	Kent	Passenger	Unknown	Shoulder and Lap Belt	77
DEC 23, 2023	Kent	Passenger	Unknown	Shoulder and Lap Belt	77
DEC 23, 2023	Wayne	Driver	No	Shoulder and Lap Belt	30
DEC 23, 2023	Bay	Bicyclist	No	Helmet Not Worn	19
DEC 24, 2023	Jackson	Driver	Yes	Shoulder and Lap Belt	21
DEC 24, 2023	Jackson	Driver	Yes	Shoulder and Lap Belt	22
DEC 24, 2023	Kent	Passenger	Unknown	No Belts Used	24
DEC 24, 2023	Livingston	Driver	Yes	No Belts Used	31
DEC 24, 2023	Oakland	Driver	Yes	Shoulder and Lap Belt	53
DEC 25, 2023	Wayne	ORV Occupant	Yes	Helmet Not Worn	66
DEC 25, 2023	Kalamazoo	Driver	No	No Belts Used	36
DEC 25, 2023	Allegan	Driver	Unknown	Restraint Use Unknown	35
DEC 25, 2023	Jackson	Pedestrian	No	No Belts Available	5

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.

Michigan Department of State Police
Criminal Justice Information Center
Traffic Crash Reporting Unit
New Years (2024) Day Report 12/29/2023 18:00 to 01/01/2024 23:59

Fatal Crashes   6   **Fatalities**   6

Crash Date	County	Victim	Alcohol	Restraint	Age
DEC 31, 2023	Wayne	Passenger	Unknown	Restraint Use Unknown	25
JAN 01, 2024	Wayne	Driver	No	No Belts Used	33
JAN 01, 2024	Wayne	Driver	No	Restraint Use Unknown	41
JAN 01, 2024	Oakland	Pedestrian	Yes	No Belts Available	41
JAN 01, 2024	Wayne	Pedestrian	No	No Belts Available	27
JAN 01, 2024	Berrien	Passenger	Unknown	No Belts Used	24

Total crashes that had alcohol involved: 1 .**

** 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
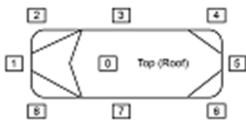
Authority: 1949 PA 300, Sec.257.622
Compliance: Required   MSP UD-10E
Penalty: $100 and/or 90 days   (Rev 01/2016)

External #   Crash ID

Page 01 of 01
File Class
Incident #

STATE OF MICHIGAN TRAFFIC CRASH REPORT

ORI | Department Name | Reviewer

Crash Date	Crash Time	No. of Units	Crash Type	Special Circumstances	Special Checks
				O None O Hit and Run O School Bus O Fleeing Police O Unknown O Animal	O Fatal O Non-Traffic Area O ORV/Snowmobile

County	Traffic Control	Relation to Roadway	Weather	Area

City/Twsp	Contributing Circumstances 1st 2nd	Light	Road Surface Condition	Total Lanes	Speed Limit	Posted

Work Zone (if applicable)
Type   Workers Present   Activity   Location

LOCATION

Prefix | Primary Road Name | Road Type | Suffix | Divided Roadway

Distance / Direction | Trafficway

Prefix | Intersecting Road Name | Road Type | Suffix | Divided Roadway

UNIT / DRIVER

Unit Number	Unit Known	State	Driver License Number	Date of Birth (Age)	License Type	Endorsements	Sex	Total Occupants	Hazardous Action
					O Operator O Cycle O Chauffeur O Farm O Moped O Recreation				

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	Alcohol Test Results	Interlock Device
		O Breath O Blood O Urine O Field O PBT O Refused O Not Offered	O Pending Test Results:	

Drug Suspected	Contributing Factor	Drug Test Type	Drug Test Results	Citation Issued
		O Blood O Urine O Field O Refused O Not Offered	O Pending Test Results:	O Hazardous O 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	CDL Exempt
	O H O P O T O N O S O X	O Farm O Other

GVWR/GCWR	Vehicle Configuration	Cargo Body Type	Medical Card	Hazardous Material	ID #	Class #
O 10,000 lbs. or Less O 10,001 - 26,000 lbs. O Greater than 26,000 lbs.				O Placard O Cargo Spill		

OWNERS

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	Endorsements	Sex	Total Occupants	Hazardous Action
							○ Operator ○ Chauffeur ○ Moped	○ Cycle ○ Farm ○ Recreation			

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	Alcohol Test Results	Interlock Device
		○ Breath ○ Blood ○ Urine ○ Field ○ PBT ○ Refused ○ Not Offered	○ Pending Test Results:	

Drug Suspected	Contributing Factor	Drug Test Type	Drug Test Results	Citation Issued
		○ Blood ○ Urine ○ Field ○ Refused ○ Not Offered	○ Pending Test Results:	○ Hazardous ○ 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	CDL Exempt
	○ H ○ P ○ T ○ N ○ S ○ X	○ Farm ○ Other

GVWR/GCWR	Vehicle Configuration	Cargo Body Type	Medical Card	Hazardous Material	ID #	Class #
○ 10,000 lbs. or Less ○ 10,001 - 26,000 lbs. ○ Greater than 26,000 lbs.				○ Placard ○ Cargo Spill		

OWNERS

Owner Information	Owner Information

WITNESS

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

UD-10
Traffic Crash Report
User Guide

Revised 2021

MICHIGAN STATE POLICE

A PROUD tradition of SERVICE through EXCELLENCE, INTEGRITY, and COURTESY

Phone: 517-241-1699
Website: www.michigan.gov/crash
Email: CrashTCRS@michigan.gov

Crash Type

Single Motor Vehicle | Head On | Head On Left Turn | Angle | Backing | Rear End

Rear End-Left Turn | Rear End-Right Turn | Sideswipe Same | Sideswipe Opposite | Other | Unknown

Animal
1. Deer
2. Turkey
3. Elk
4. Moose
5. Bear
97. Animal (Other)
98. Animal (Unknown)

Weather
1. Clear
2. Cloudy
3. Fog
4. Rain
5. Snow
6. Severe Crosswinds
7. Sleet / Hail
8. Blowing Snow
9. Blowing Sand, Soil, Dirt
10. Smoke
98. Unknown

Light
1. Daylight
2. Dawn
3. Dusk
4. Dark-Lighted
5. Dark-Unlighted
97. Other
98. Unknown

Traffic Control
1. Signal
2. Stop Sign
3. Stop Sign with Flashing Beacon
4. Yield Sign
96. None

Road Surface Condition
1. Dry
2. Wet
3. Ice
4. Snow
5. Mud, Dirt, Gravel
6. Slush
7. Debris
8. Water (Standing / Moving)
9. Sand
10. Oily
97. Other
98. Unknown

Contributing Circumstances
1. Prior Crash
2. Backup Due to Regular Congestion
3. Backup Due to Other Incident
4. Glare
5. Traffic Control Device Inoperative, Missing or Obscured
6. Shoulders (None, Low, Soft, High)
96. None
97. Other
98. Unknown

Relation to Roadway
1. On the Road
2. Median
3. Shoulder
4. Outside of Shoulder / Curb
5. Gore
6. On-Street Parking
7. Off Roadway (Non-Traffic)
8. Sidewalk
9. Bicycle Lane
98. Unknown

Area
Freeway
1. Entrance / Exit Ramp Related
2. Authorized Median Crossover Related
3. Transition Area / Increase or Decrease in Travel Lanes
4. Rest Area Related
5. Scale / Weigh Station Related
6. All Other Freeway Areas
20. Curved Roadway

Intersection
7. Within Intersection
8. Driveway Related within 150 ft. of Nearest Edge of Intersection
9. Intersection Related-Other
21. Roundabout

Other Non-Freeway Areas
10. Straight Roadway Not Related to Other Selections
11. Curved Roadway Not Related to Other Selections
12. Driveway Related Not within 150 ft. of Intersection
13. 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
1. Lane Closure
2. Lane Shift / Crossover
3. Work on Shoulder or Median
4. Intermittent or Moving Work
97. Other

Work Zone - Location
1. Before the First Work Zone Warning Sign
2. Between the First and Last Work Zone Warning Sign
3. No Warning Signs

Trafficway
1. Not Physically Divided (Two-Way Traffic)
2. Divided Highway without Traffic Barrier
3. Divided Highway with Traffic Barrier
4. One-Way Traffic
5. Non-Traffic
6. Two-Way, Not Divided, with a Continuous Left Turn Lane

Unit Type
MV — Motor Vehicle
B — Bike
P — Pedestrian
E — Engineer (Train)

Race
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

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

Position

B   Bicyclist
P   Pedestrian
E   Engineer (Railroad / Train)

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

Motorcycles, Snowmobiles, Etc. (In-Line Seating)

1. Driver
4. Passenger One
7. Passenger Two
15. Other Unenclosed Passenger / Cargo Area

Restraint Use

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

Hazardous Action

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

Airbag

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

Condition at Time of Crash

1. Appeared Normal
4. Sick
5. Fatigued or Asleep
7. Medication
10. Physically Disabled
11. Emotional
97. Other
99. Unknown

Injury

K - Fatal Injury:
   Any injury which results in death
A - Suspected Serious Injury:
   Any injury other than fatal which prevents normal activities and generally requires hospitalization
B - Suspected Minor Injury:
   Any minor injury that is evident to others at the scene
C - Possible Injury:
   Any possible injury that is reported or claimed
O - No Injury:
   No indication of injury

Action Prior to Crash

Driver Action

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

Pedestrian Action

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

Sequence of Events

Non-Collision

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.)

Collision with Non-Fixed Object

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

In transport means a motor vehicle in motion or on a roadway.

Collision with Fixed Object

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

Location of Greatest Damage / First Impact

```
 [2]      [3]      [4]

[1]      [0]  Top (Roof)   [5]

 [6]      [7]      [6]
```

9. Undercarriage
10. Multiple
11. None
98. Unknown

Vehicle Type

1. Passenger Car, SUV, Van
2. Motor Home
3. Pickup Truck
4. Small Truck
   (Under 10,000 lbs)
5. Motorcycle
6. Moped / Goped
7. Go-Cart / Golf Cart
8. Snowmobile
9. Off Road Vehicle (ATV Type)
10. Other
11. Truck / Bus

Vehicle Use

1. Private
2. Commercial (Business)
3. In Pursuit / On Emergency
4. Farm
5. School / Education
6. Club / Church
7. Military
8. Other Government
9. Utility
10. Road Construction / Other Maintenance
11. Other

Vehicle Direction

N	North
NE	Northeast
NW	Northwest
S	South
SE	Southeast
SW	Southwest
W	West
E	East

Special Vehicles

1. Police
2. Fire
3. Bus
4. Ambulance
5. Farm Equipment
6. Construction / Maintenance Equipment
7. Tow Truck / Wrecker

Vehicle Defects

1. Brakes
2. Lights
3. Steering
4. Tires / Rims
5. Windows / Windshield
6. Truck Coupling / Trailer Hitch / Safety Chains
97. Other

Private Trailer Type

1. Utility
2. Travel Trailer
3. Boat Trailer
4. Farm Equipment
5. Towed Auto
6. Recreational Double
7. Other

Extent of Damage

1. No Damage
2. Minor Damage
3. Functional Damage
4. Disabling Damage
98. Unknown

Automation System Level in Vehicle

0. No Automation
1. Driver Assistance
2. Partial Automation
3. Conditional Automation
4. High Automation
5. Full Automation
6. Automation Level Unknown
98. Unknown

Automation System Level Engaged at Time of Crash

0. No Automation
1. Driver Assistance
2. Partial Automation
3. Conditional Automation
4. High Automation
5. Full Automation
6. 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

Full Automation

0	1	2	3	4	5
No Automation	Driver Assistance	Partial Automation	Conditional Automation	High Automation	Full Automation
Zero autonomy; the driver performs all driving tasks.	Vehicle is controlled by the driver, but some driving assist features may be included in the vehicle design.	Vehicle has combined automated functions, like acceleration and steering, but the driver must remain engaged with the driving task and monitor the environment at all times.	Driver is a necessity, but is not required to monitor the environment. The driver must be ready to take control of the vehicle at all times with notice.	The vehicle is capable of performing all driving functions under certain conditions. The driver may have the option to control the vehicle.	The vehicle is capable of performing all driving functions under all conditions. The driver may have the option to control the vehicle.

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

Cargo Body Type

1. Van / Enclosed Box
2. Cargo Tank
3. Flat Bed
4. Dump
5. Concrete Mixer
6. Auto Transporter
7. Garbage / Refuse
8. Grains, Chips, Gravel
9. Pole
10. Intermodal Chassis
11. Log
12. Vehicle Towing Motor Vehicle
13. Bus (9-15 Seats, Including Driver)
14. Bus (16 or More Seats, Including Driver)
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 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 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	**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. *(In this report, the definition follows Michigan law.)*
	At-intersection crash – A traffic crash in which the first harmful event occurs within the limits of an intersection.
B	**Bicycle** – A non-motorized unit propelled by pedaling, regardless of the number of wheels, which can include tricycles, unicycles, and pedal cars.
	Bus – Any passenger-carrying vehicle used for hire and used to transport nine or more passengers, including the driver.
C	**Commercial Motor Vehicle** – Any motor vehicle used for the transportation of goods, property, or people in interstate or intrastate commerce.
	Contributing Circumstances – These are apparent external (out of the vehicle) conditions that may have contributed to the crash.
	Crash – An un-stabilized situation which includes at least one harmful event.
D	**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.
	Driving Under the Influence – The driving or operating of any vehicle while under the influence of liquor or drugs.
F	**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
G	**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.
	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.
H	**Harmful event** – An occurrence of injury or damage

	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
I	**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

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 |
| **M** | **Moped** – A Moped is a 2- or 3-wheeled vehicle to which both of the following apply:

    (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

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

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

Motor vehicle – Motor vehicle is <u>any</u> motorized road vehicle not operated on rails. |
| **N** | **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. |
| **O** | **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.

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.

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	**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	**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. 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 **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 **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
T	**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 **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 **Truck** – Truck means every motor vehicle designed, used, or maintained primarily for the transportation of property. MCL 257.75 **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.

	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 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