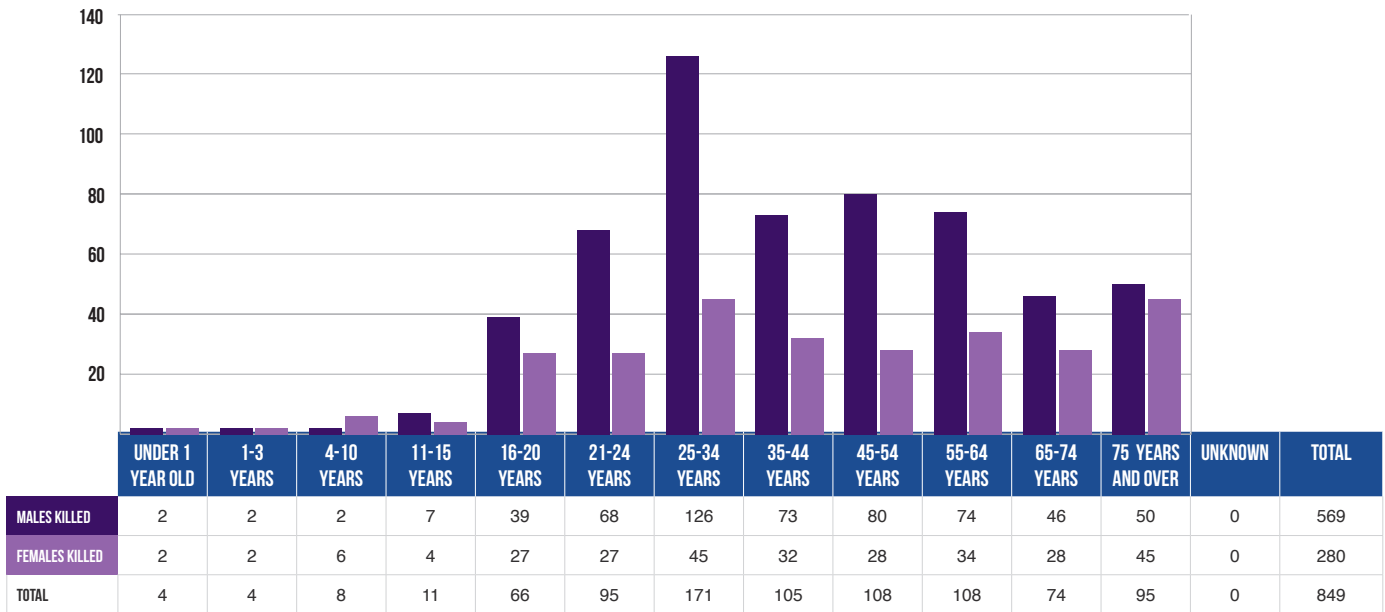


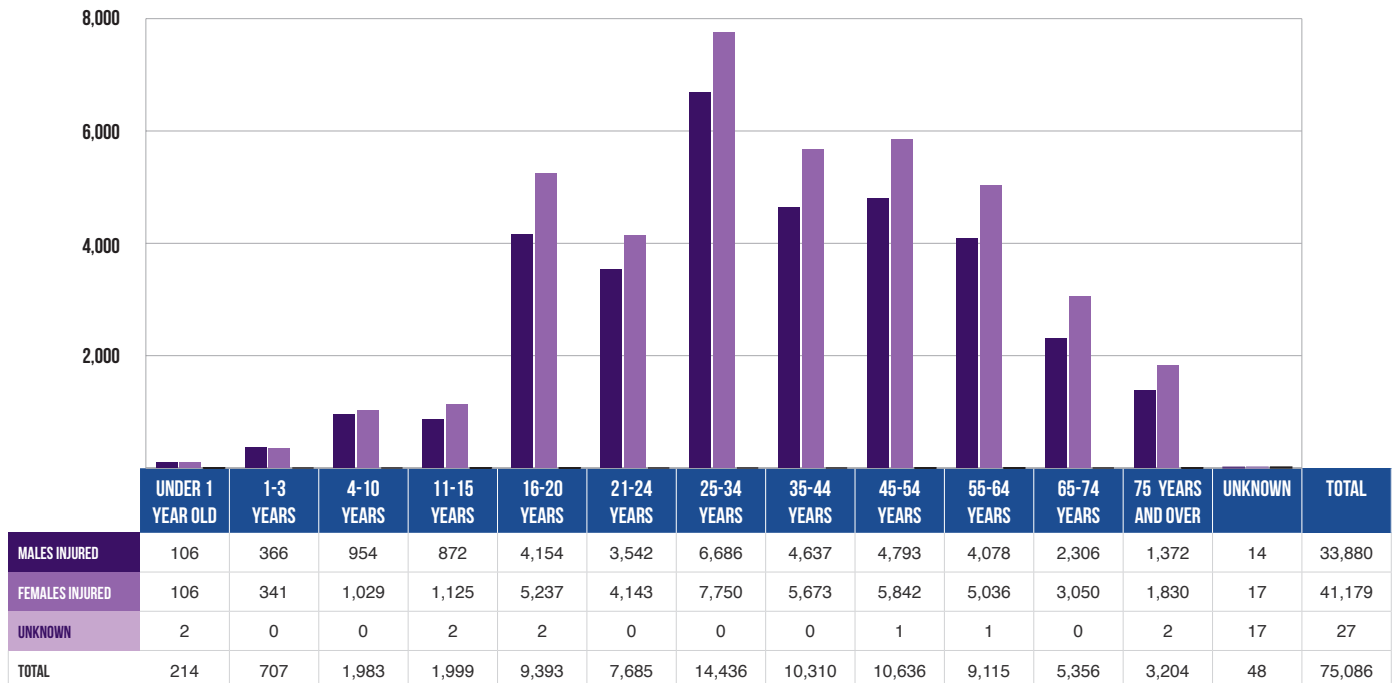
AGE AND GENDER OF OCCUPANTS KILLED OR INJURED IN MOTOR VEHICLE CRASHES

OCCUPANTS KILLED



The majority (67.0%) of occupants killed in traffic crashes in 2017 were male.

OCCUPANTS INJURED

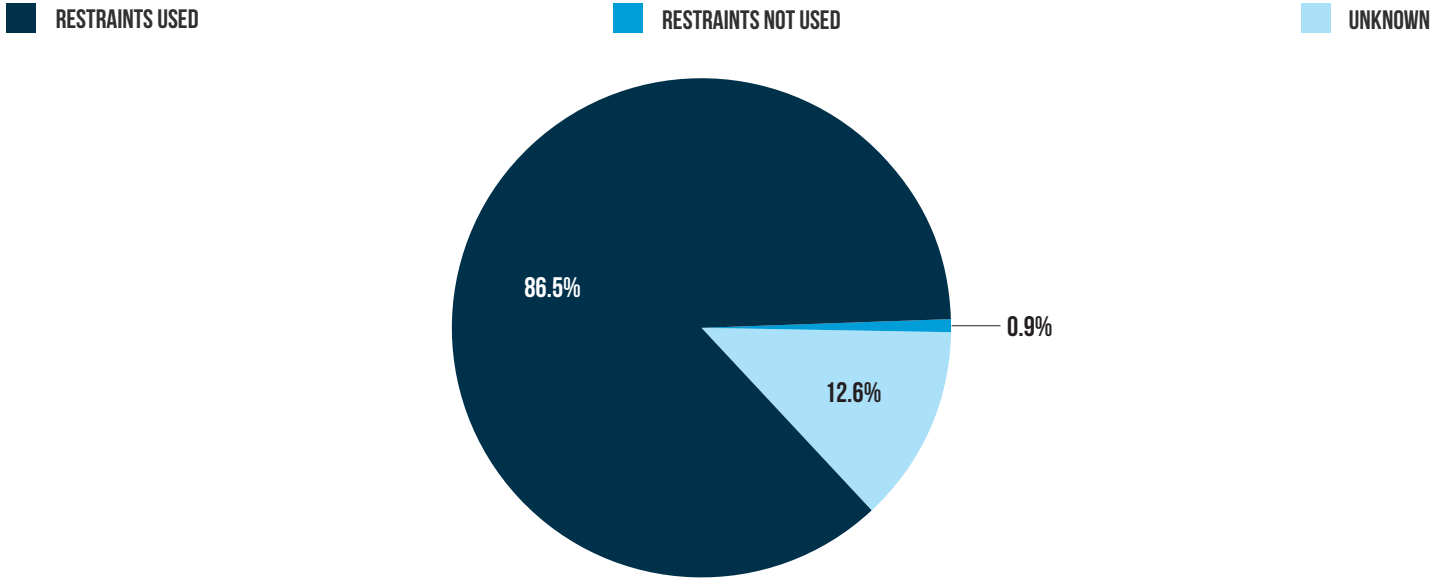


The majority (54.8%) of occupants injured in traffic crashes in 2017 were female.

Note: Occupants include all drivers plus all injured or killed persons in or on a motor vehicle.

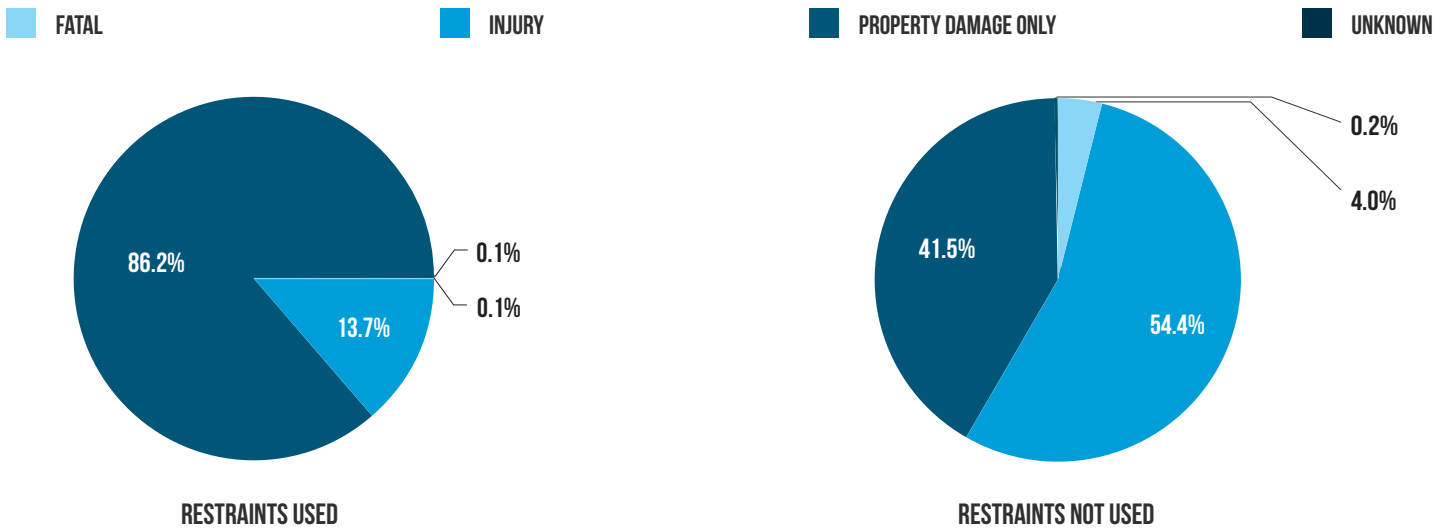
REPORTED OCCUPANT RESTRAINT USAGE FOR ALL DRIVERS AND INJURED PASSENGERS

REPORTED OCCUPANT RESTRAINT USAGE



Of the 555,342 drivers and injured passengers involved in crashes, 480,274 (86.5%) were REPORTED to be using occupant restraints.

INJURY SEVERITY



Occupants in crashes were 52 times more likely to be killed if they were not wearing their restraints.

Note: These charts do not include helmet usage.

MOTOR VEHICLE OCCUPANTS & INJURY SEVERITY BY SEATING POSITION AND KNOWN BELT USAGE

SEATING POSITION	BELTS USED*		FATAL	INJURY			NO INJURY
	Number	% of Total		A	B	C	
Left Front	463,437	96.9	290	2,671	12,787	34,674	413,015
Center Front	597	0.1	1	24	67	228	277
Right Front	10,715	2.2	56	573	2,124	7,503	459
Left Rear Second Seat	1,373	0.3	3	68	251	1,051	0
Center Rear Second Seat	240	0.1	0	5	56	179	0
Right Rear Second Seat	1,511	0.3	5	71	298	1,137	0
Left Rear Third Seat	158	0.0	0	8	28	122	0
Center Rear Third Seat	41	0.0	0	4	6	31	0
Right Rear Third Seat	142	0.0	0	4	27	111	0
Left Rear Fourth Seat	15	0.0	0	0	4	11	0
Center Rear Fourth Seat	9	0.0	0	0	3	6	0
Right Rear Fourth Seat	20	0.0	0	1	3	16	0
Other Passenger Area	23	0.0	0	6	1	16	0
Unknown	157	0.0	0	3	13	27	114
Uncoded & Errors	10	0.0	0	0	0	0	10
TOTAL †	478,448	100.0	355	3,438	15,668	45,112	413,875

* Belts Used includes use of lap, shoulder, or both belts, or restraint failure. Children who were using or not using a child restraint are in separate tables on the next two pages.

† This total does not include 341 occupants with unknown injury severity.

SEATING POSITION	BELTS NOT USED*		FATAL	INJURY			NO INJURY
	Number	% of Total		A	B	C	
Left Front	3,499	67.4	149	443	525	473	1,909
Center Front	46	0.9	0	8	9	14	15
Right Front	442	8.5	26	93	154	150	19
Left Rear Second Seat	208	4.0	11	34	61	102	0
Center Rear Second Seat	71	1.4	2	5	28	36	0
Right Rear Second Seat	304	5.9	9	46	97	152	0
Left Rear Third Seat	30	0.6	1	3	10	16	0
Center Rear Third Seat	14	0.3	0	1	6	7	0
Right Rear Third Seat	26	0.5	0	2	8	16	0
Left Rear Fourth Seat	9	0.2	0	1	0	8	0
Center Rear Fourth Seat	5	0.1	0	0	1	4	0
Right Rear Fourth Seat	15	0.3	0	1	5	9	0
Other Passenger Area	236	4.5	3	15	46	169	3
Unknown	283	5.4	5	5	8	34	231
Uncoded & Errors	5	0.1	0	0	0	0	5
TOTAL †	5,193	100.0	206	657	958	1,190	2,182

* No belts were available or no belts were used. Children who were using or not using a child restraint are in separate tables on the next two pages.

† This total does not include 10 occupants with unknown injury severity.

Note: Michigan law requires that all persons must wear a seatbelt when riding in the front seat of a motor vehicle.

REPORTED RESTRAINT USE - CHILDREN

On July 1, 2008, Michigan law was amended. (<http://legislature.mi.gov/doc.aspx?mcl-257-710e>)

Any child under four years of age must be in an approved Child Safety Seat (CSS)/Child Restraint Device (CRD), and riding in the rear seat. All children less than 8 years of age AND who are less than 4'9" in height, must be properly restrained in a child restraint system. All children ages 8 through 15 must wear a properly adjusted and fastened seat belt when riding in either the front or back seat of a vehicle.

RESTRAINT USAGE	CHILDREN		FATAL	INJURY		
	Number	% of Total		A	B	C
AGE 0						
Belts Used	30	13.8	0	3	6	21
No Belts Used	3	1.4	0	0	1	2
Child Restraint Used - Forward Facing	38	17.4	0	1	6	31
Child Restraint Used - Rear Facing	133	61.0	3	1	8	121
Child Restraint Used - Booster Seat	2	0.9	0	0	1	1
Child Restraint Not Used	4	1.8	1	1	0	2
Restraint Failed	1	0.5	0	0	0	1
Unknown	7	3.2	0	0	2	5
Total	218	100.0	4	6	24	184
AGE 1						
Belts Used	8	3.6	0	0	0	8
No Belts Used	2	0.9	0	0	2	0
Child Restraint Used - Forward Facing	95	42.4	1	3	21	70
Child Restraint Used - Rear Facing	97	43.3	0	1	15	81
Child Restraint Used - Booster Seat	6	2.7	0	1	2	3
Child Restraint Not Used	8	3.6	1	3	2	2
Restraint Failed	1	0.4	0	0	1	0
Unknown	7	3.1	0	0	0	7
Total	224	100.0	2	8	43	171
AGE 2						
Belts Used	12	5.0	0	1	1	10
No Belts Used	0	0.0	0	0	0	0
Child Restraint Used - Forward Facing	164	68.6	1	3	32	128
Child Restraint Used - Rear Facing	24	10.0	0	0	3	21
Child Restraint Used - Booster Seat	17	7.1	0	1	1	15
Child Restraint Not Used	13	5.4	0	0	6	7
Restraint Failed	0	0.0	0	0	0	0
Unknown	9	3.8	0	1	3	5
Total	239	100.0	1	6	46	186

REPORTED RESTRAINT USE - CHILDREN (CONTINUED)

RESTRAINT USAGE	CHILDREN		FATAL	INJURY		
	Number	% of Total		A	B	C
AGE 3						
Belts Used	26	10.5	0	3	8	15
No Belts Used	8	3.2	1	0	2	5
Child Restraint Used - Forward Facing	155	62.5	0	8	33	114
Child Restraint Used - Rear Facing	11	4.4	0	0	1	10
Child Restraint Used - Booster Seat	31	12.5	0	3	6	22
Child Restraint Not Used	7	2.8	0	0	2	5
Restraint Failed	0	0.0	0	0	0	0
Unknown	10	4.0	0	0	4	6
Total	248	100.0	1	14	56	177
AGE 4-7						
Belts Used	383	36.1	2	14	71	296
No Belts Used	41	3.9	2	2	14	23
Child Restraint Used - Forward Facing	297	28.0	0	6	54	237
Child Restraint Used - Rear Facing	6	0.6	0	3	0	3
Child Restraint Used - Booster Seat	245	23.1	2	7	45	191
Child Restraint Not Used	25	2.4	0	1	5	19
Restraint Failed	0	0.0	0	0	0	0
Unknown	65	6.1	1	1	9	54
Total	1,062	100.0	7	34	198	823
AGE 8-15						
Belts Used	2,372	83.0	4	85	461	1,822
No Belts Used	240	8.4	3	31	64	142
Child Restraint Used - Forward Facing	46	1.6	0	0	9	37
Child Restraint Used - Rear Facing	3	0.1	0	0	1	2
Child Restraint Used - Booster Seat	54	1.9	0	2	16	36
Child Restraint Not Used	2	0.1	0	0	1	1
Restraint Failed	3	0.1	0	2	1	0
Unknown	139	4.9	5	11	22	101
Total	2,859	100.0	12	131	575	2,141

Information about uninjured passengers is not required to be reported by the officer on the crash report, thus these tables relate the experience of only those children with injuries in crashes.

Note: Safety equipment usage is often self-reported and may not reflect actual usage.

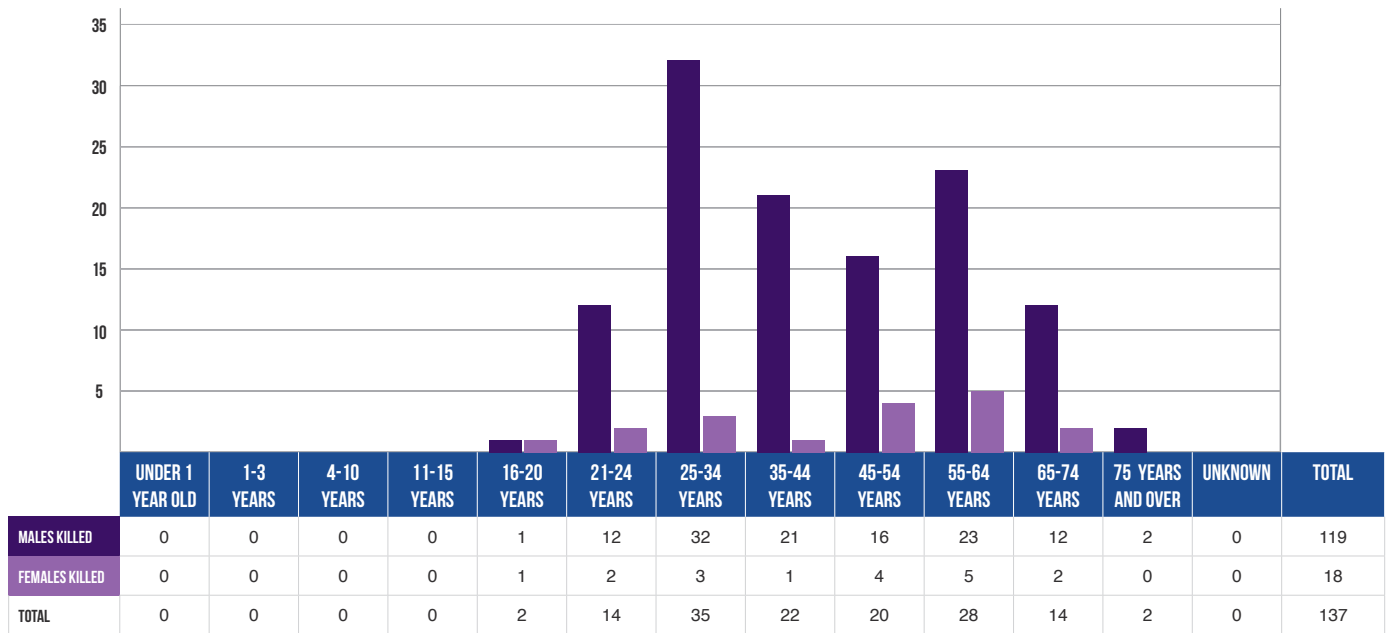
MOTOR VEHICLE OCCUPANT INJURY SEVERITY BY KNOWN AIRBAG DEPLOYMENT

MOTOR VEHICLE OCCUPANT AIRBAG DEPLOYMENT	OCCUPANTS*		FATAL	OCCUPANT INJURY SEVERITY			NO INJURY
	Number	% of Total		A	B	C	
Deployed - front	46,540	8.3	244	1,798	6,376	11,599	26,493
Deployed - side	4,352	0.8	19	88	413	1,131	2,699
Deployed - curtain	2,893	0.5	13	58	346	748	1,728
Deployed - combination	14,447	2.6	147	860	2,584	4,313	6,530
Deployed - other	338	0.1	0	8	32	88	210
Not deployed	418,831	74.9	170	1,451	7,208	29,593	380,046
Not equipped	17,368	3.1	207	1,090	1,836	2,367	9,287
Unknown	47,408	8.5	48	121	270	661	6,442
Uncoded & Errors	6,987	1.2	1	9	6	32	78
TOTAL	559,164	100.0	849	5,483	19,071	50,532	433,513

* Includes 49,716 occupants (drivers and passengers) with unknown injury severity.

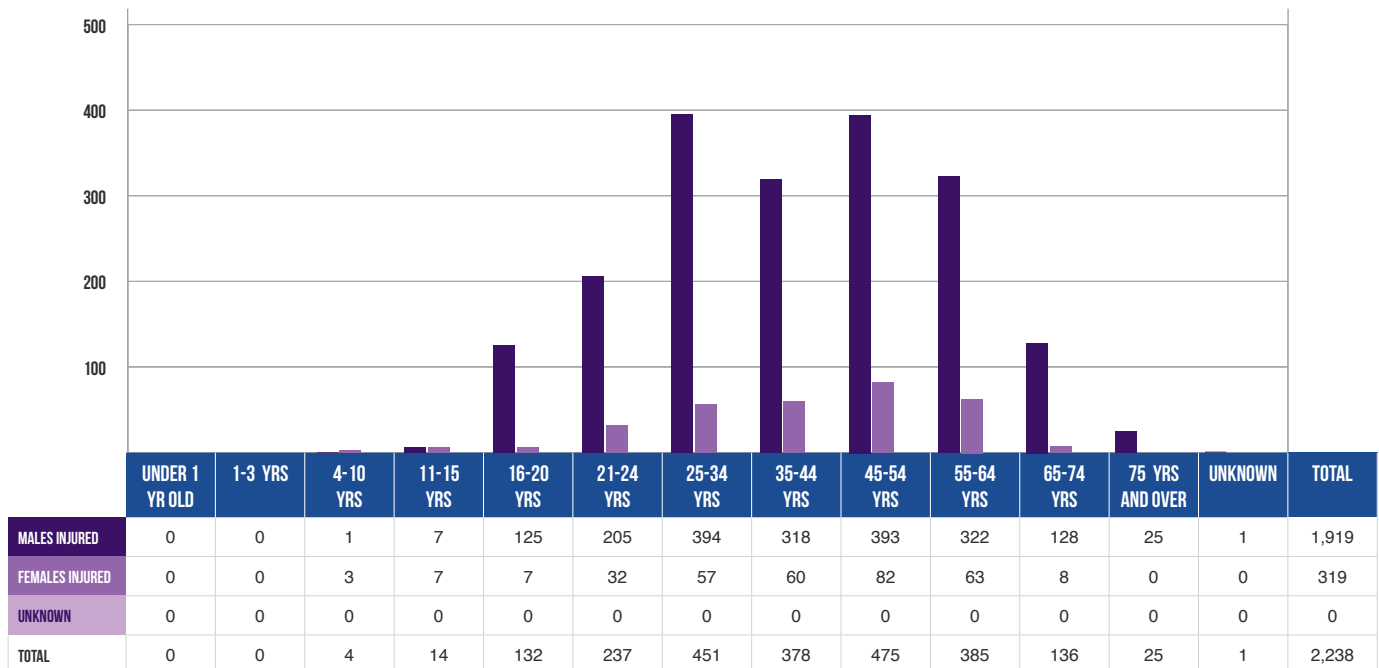
AGE AND GENDER OF MOTORCYCLISTS KILLED OR INJURED IN MOTOR VEHICLE CRASHES

MOTORCYCLISTS KILLED



Of the 137 motorcyclists killed in traffic crashes in 2017, 86.9 percent were male. In comparison, 67.0 percent of all occupants killed in crashes were male.

MOTORCYCLISTS INJURED



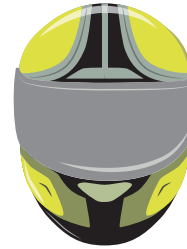
Of the 2,238 motorcyclists injured in traffic crashes in 2017, 85.7 percent were male. In comparison, 45.1 percent of all occupants injured in crashes were male.

MOTORCYCLE HELMET USAGE AND INJURY SEVERITY

AGE OF MOTORCYCLIST	FATALITIES	INJURY			NO INJURY
		A	B	C	
HELMET WORN					
3 years and under	0	0	0	0	0
4 - 10 years	0	1	1	1	2
11 - 15 years	0	3	4	2	2
16 - 20 years	1	25	52	31	43
21 - 24 years	10	57	79	42	56
25 - 34 years	22	73	149	83	105
35 - 44 years	10	52	91	63	75
45 - 54 years	6	81	109	85	114
55 - 64 years	16	67	125	59	91
65 - 74 years	6	26	47	31	38
75 years and over	1	6	8	7	4
Unknown	0	1	0	0	0
Subtotal	72	392	665	404	530
HELMET NOT WORN					
3 years and under	0	0	0	0	0
4 - 10 years	0	0	1	0	0
11 - 15 years	0	0	2	2	0
16 - 20 years	1	10	9	3	6
21 - 24 years	1	13	26	15	15
25 - 34 years	11	46	61	25	39
35 - 44 years	12	72	58	21	35
45 - 54 years	14	58	84	39	51
55 - 64 years	11	47	51	21	26
65 - 74 years	8	13	8	4	12
75 years and over	1	2	1	1	0
Unknown	0	0	0	0	0
Subtotal	59	261	301	131	184
HELMET USE UNKNOWN					
3 years and under	0	0	0	0	0
4 - 10 years	0	0	0	0	0
11 - 15 years	0	1	0	0	0
16 - 20 years	0	0	2	0	4
21 - 24 years	3	1	2	2	3
25 - 34 years	2	4	3	7	8
35 - 44 years	0	8	7	6	11
45 - 54 years	0	9	5	5	19
55 - 64 years	1	6	5	4	17
65 - 74 years	0	2	4	1	6
75 years and over	0	0	0	0	1
Unknown	0	0	0	0	0
Subtotal	6	31	28	25	69
TOTAL	137	684	994	560	783

2011 Michigan motor vehicle crash data represents the last full year of data that was collected during Michigan's universal helmet law, enacted in 1969: Michigan Vehicle Code Public Act 300 of 1949, Section 257.658, requiring all motorcycle riders to wear a helmet. On April 13, 2012, Michigan changed their helmet law from a universal to a partial helmet law. The partial law allows some certified Michigan riders, who are over 21 and carry additional insurance, to ride without a helmet.

HELMET WORN



DRIVERS KILLED: 66
PASSENGERS KILLED: 6

HELMET NOT WORN



DRIVERS KILLED: 53
PASSENGERS KILLED: 6

HELMET USE UNKNOWN



DRIVERS KILLED: 5
PASSENGERS KILLED: 1

OCCUPANT INJURY OUTCOME BY VEHICLE TYPE

VEHICLE	KILLED	INJURY			TOTAL KABC	% OF ALL CRASH INVOLVED KABC OCCUPANTS
		A	B	C		
Passenger car, SUV, van	580	3,886	15,534	45,027	65,027	85.6
Motor home	6	17	68	127	218	0.3
Pickup truck	74	539	1,830	3,706	6,149	8.1
Small Truck under 10,000 lbs. GVWR	2	22	82	185	291	0.4
Motorcycle	137	684	994	560	2,375	3.1
Moped / goped	6	82	163	111	362	0.5
Go-cart / golf cart	2	8	9	5	24	0.0
Snowmobile	4	37	18	19	78	0.1
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	21	118	114	56	309	0.4
Other	4	23	56	101	184	0.2
Unknown	1	2	5	17	25	0.0
CDL Truck/Bus (breakdown below)	12	65	198	617	892	1.2
Total Number of Vehicles	849	5,483	19,071	50,531	75,934	100.0

HEAVY TRUCK/BUS GROSS VEHICLE WEIGHT RATING	KILLED	INJURY			TOTAL KABC	% OF ALL CRASH INVOLVED KABC OCCUPANTS
		A	B	C		
10,000 lbs. or less	0	0	1	7	8	0.9
10,001 - 26,000 lbs.	4	20	47	146	217	24.3
Greater than 26,000 lbs.	8	45	150	463	666	74.7
Uncoded & Errors	0	0	0	1	1	0.1
Total Number of Occupants	12	65	198	617	892	100.0

Note:

1) School bus is not recorded on the UD-10 and cannot be broken out of CDL Truck/Bus.

2) These crashes involve a motor vehicle in transport on a public trafficway (in Michigan) and result in injury, death, or at least \$1,000 in property damage.