



VEHICLE TYPE CRASH INVOLVEMENT



MOST SEVERE OUTCOME IN CRASH

MOST SEVERE OUTCOME IN VEHICLE

Vehicle Types	Motor Vehicles		Fatal Crash		Injury	PDO	Fatality in Veh		Injury	PDO
	Number	% of Total	Number	% of Total			Number	% of Total		
Passenger Car and Station Wagon	520,782	71.2	1,441	62.3	138,246	381,095	877	73.1	89,049	387,486
Van and Motorhome	52,150	7.1	163	7.0	12,916	39,071	55	4.6	6,912	41,197
Pickup	100,433	13.7	360	15.6	22,287	77,786	142	11.8	11,719	82,159
Small Truck (under 10,000 lbs.)	9,911	1.4	33	1.4	2,261	7,617	13	1.1	1,186	8,064
Cycle	2,651	0.4	80	3.5	1,999	572	77	6.4	1,961	512
Moped	341	0.0	3	0.1	261	77	3	0.3	253	69
Go Cart	13	0.0	0	0.0	8	5	0	0.0	8	2
Snowmobile	700	0.1	16	0.7	446	238	16	1.3	401	247
Off Road Vehicle	235	0.0	2	0.1	182	51	2	0.2	168	52
Other	1,841	0.3	8	0.3	415	1,418	3	0.3	176	1,376
Uncoded	23,016	3.1	24	1.0	2,967	20,025	4	0.3	731	3,546
CDL Truck/Bus (breakdown below)	18,879	2.6	183	7.9	4,126	14,570	7	0.6	1,081	16,356
Totals	730,952*	100.0	2,313	100.0	186,114	542,525	1,199	100.0	113,645	541,066

* Includes 75,042 with unknown injury severity for Most Severe Outcome in Vehicle

CDL Truck/Bus Sub-category Types

CDL Truck/Bus Sub-category Types	Motor Vehicles		Fatal Crash		Injury	PDO	Fatality in Veh		Injury	PDO
	Number	% of Total	Number	% of Total			Number	% of Total		
Uncoded Truck	2,162	11.5	9	4.9	399	1,754	1	14.3	80	1,513
Commercial Vehicle: Group A	8,745	46.3	111	60.7	1,959	6,675	5	71.4	496	7,969
Commercial Vehicle: Group B	3,930	20.8	32	17.5	879	3,019	0	0.0	279	3,522
Commercial Vehicle: Group C	497	2.6	3	1.6	112	382	0	0.0	45	434
Other Truck	1,042	5.5	7	3.8	227	808	0	0.0	60	939
Unknown Truck	2,503	13.3	21	11.5	550	1,932	1	14.3	121	1,979
Totals	18,879*	100.0	183	100.0	4,126	14,570	7	100.0	1,081	16,356

* Includes 1,435 with unknown injury severity for Most Severe Outcome in Vehicle

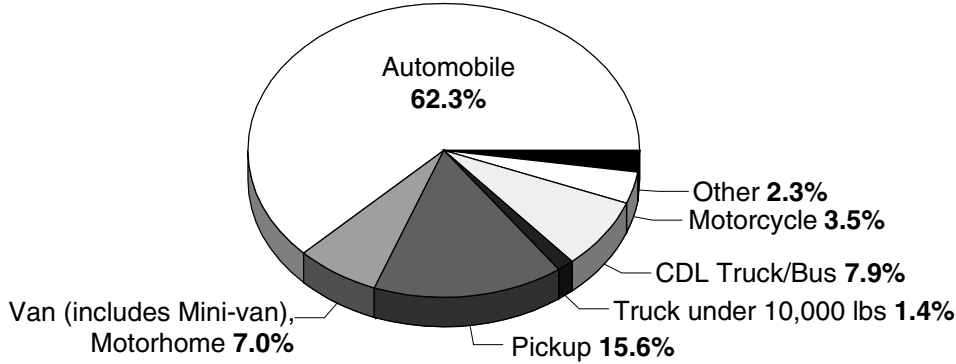
Group "A" is any vehicle that is towing a vehicle or trailer that has a gross vehicle weight rating (GVWR) over 10,000 lbs.

Group "B" is any single vehicle (including buses) with a GVWR of 26,001 lbs. or more. This would include a combination of vehicles with a combined GVWR over 26,000 lbs. when towing a trailer that has a GVWR of 10,000 lbs. or less.

Group "C" is any single vehicle with a GVWR of less than 26,001 lbs. or a combination of vehicles having a combined GVWR under 26,001 lbs. when the vehicle is required to display placards for hazardous material or designed to carry 16 passengers (including driver). Group "C" is also any vehicle carrying 15 or less people (including driver) transporting children to or from school and home on a regular basis for compensation.

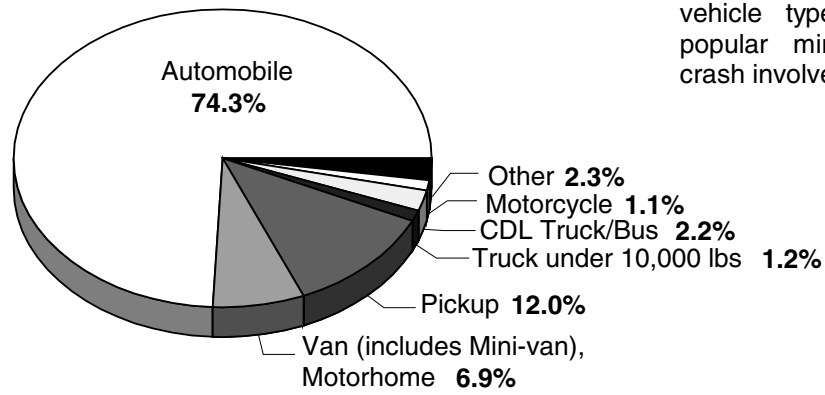
VEHICLE TYPES IN CRASHES BY CRASH SEVERITY

FATAL

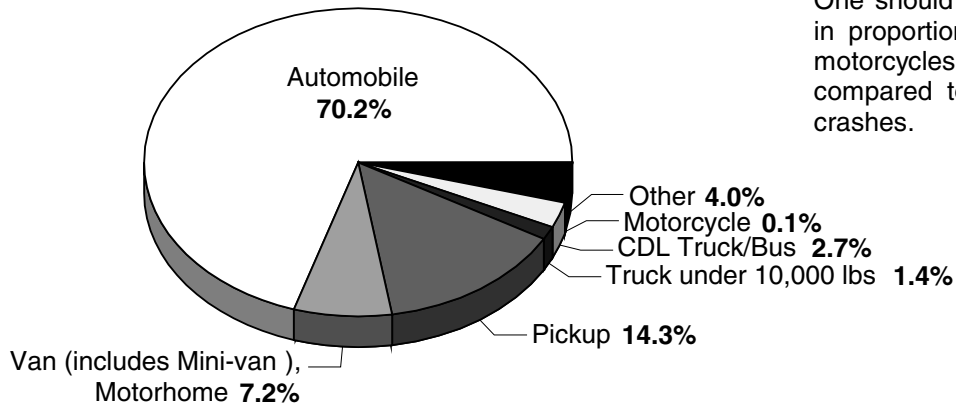


The top chart shows that 4 out of 5 vehicles involved in fatal crashes are automobiles or pickups. Van, Motorhome, the vehicle type that includes the popular mini-van, has a fatal crash involvement of 7.0 percent.

INJURY



PROPERTY DAMAGE ONLY



As with fatal crashes, Injury and PDO crashes are represented primarily by cars and pickups. One should also note the decline in proportional representation for motorcycles and heavy trucks compared to their levels in fatal crashes.

ACTION PRIOR TO CRASH

MOST SEVERE OUTCOME IN CRASH

DRIVER ACTION	All Vehicles		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
Going straight ahead	376,143	51.5	1,684	14,558	26,540	59,172	274,189
Turning left	58,204	8.0	141	2,244	4,794	10,108	40,917
Turning right	21,289	2.9	11	364	942	2,444	17,528
Stopped on roadway	68,604	9.4	63	1,512	3,494	16,914	46,621
In prior crash	1,309	0.2	6	75	140	287	801
Changing lanes	15,897	2.2	34	343	592	1,702	13,226
Backing	18,597	2.5	12	121	235	778	17,451
Slowing/stopping on roadway	53,722	7.3	48	842	2,203	12,015	38,614
Slowing/stopping other	990	0.1	1	28	58	166	737
Starting up on roadway	12,658	1.7	30	400	738	2,451	9,039
Starting up other	546	0.1	0	22	56	92	376
Entering parking	1,102	0.2	2	10	29	102	959
Leaving parking	3,224	0.4	4	60	156	382	2,622
Entering roadway	10,887	1.5	21	326	661	1,687	8,192
Leaving roadway	1,737	0.2	15	147	204	223	1,148
Making U-turn	1,878	0.3	4	89	128	300	1,357
Overtaking or passing	6,961	1.0	39	273	455	800	5,394
Avoiding object	1,914	0.3	8	70	204	286	1,346
Avoiding pedestrian	203	0.0	4	28	39	36	96
Avoiding vehicle (front/back)	5,834	0.8	47	223	480	1,042	4,042
Avoiding vehicle (angle)	2,475	0.3	7	86	216	391	1,775
Driverless moving	600	0.1	1	10	22	36	531
Parked	30,058	4.1	44	522	975	1,410	27,107
Crossing at intersection	72	0.0	0	10	18	11	33
Crossing not at intersection	61	0.0	2	12	10	12	25
Getting on/off vehicle	15	0.0	0	1	1	3	10
In roadway with traffic	15	0.0	0	2	1	3	9
In roadway against traffic	6	0.0	0	0	0	0	6
Standing/lying in roadway	17	0.0	1	3	4	4	5
Pushing/working on vehicle	17	0.0	0	0	2	4	11
Other working in roadway	6	0.0	0	0	1	3	2
Playing in roadway	3	0.0	0	1	0	0	2
In roadway other reason	19	0.0	0	4	3	3	9
Not in roadway	15	0.0	0	3	2	3	7
Other	723	0.1	6	35	63	83	536
Unknown	35,151	4.8	78	880	1,621	4,770	27,802
TOTAL	730,952	100.0	2,313	23,304	45,087	117,723	542,525

ACTION PRIOR TO CRASH (continued)

MOTORCYCLIST - INJURY SEVERITY

MOTORCYCLIST ACTION	All Motorcycles		All Motorcyclists		Fatal	Injury			PDO
	Number	% of Total	Number	% of Total		A	B	C	
Going straight ahead	1,721	64.9	2,006	65.2	70	496	727	387	285
Turning left	144	5.4	159	5.2	0	31	60	34	30
Turning right	81	3.1	93	3.0	1	10	31	20	27
Stopped on roadway	115	4.3	123	4.0	0	10	17	29	64
In prior crash	2	0.1	2	0.1	0	0	0	0	1
Changing lanes	43	1.6	56	1.8	0	14	21	8	10
Backing	6	0.2	6	0.2	2	1	1	1	0
Slowing/stopping on roadway	108	4.1	126	4.1	4	22	35	34	30
Slowing/stopping other	2	0.1	2	0.1	0	0	1	0	1
Starting up on roadway	30	1.1	36	1.2	0	9	8	12	7
Starting up other	5	0.2	6	0.2	0	0	2	0	3
Entering parking	3	0.1	3	0.1	0	0	1	0	1
Leaving parking	6	0.2	6	0.2	0	1	2	2	0
Entering roadway	26	1.0	36	1.2	1	7	11	8	8
Leaving roadway	15	0.6	16	0.5	0	6	5	3	2
Making U-turn	14	0.5	15	0.5	0	4	5	4	2
Overtaking or passing	87	3.3	98	3.2	1	26	41	12	11
Avoiding object	23	0.9	25	0.8	0	3	7	5	9
Avoiding pedestrian	1	0.0	1	0.0	0	0	0	0	1
Avoiding vehicle (front/back)	44	1.7	49	1.6	1	11	19	8	10
Avoiding vehicle (angle)	25	0.9	27	0.9	0	3	8	9	7
Driverless moving	1	0.0	1	0.0	0	0	0	1	0
Parked	41	1.5	41	1.3	0	0	0	0	20
Crossing at intersection	1	0.0	9	0.3	0	1	4	4	0
Crossing not at intersection	1	0.0	4	0.1	1	2	0	0	1
Getting on/off vehicle	0	0.0	1	0.0	0	0	0	0	1
In roadway with traffic	0	0.0	1	0.0	0	1	0	0	0
In roadway against traffic	0	0.0	1	0.0	0	0	0	1	0
Standing/lying in roadway	1	0.0	1	0.0	0	0	1	0	0
Pushing/working on vehicle	1	0.0	1	0.0	0	0	0	0	1
Other working in roadway	0	0.0	0	0.0	0	0	0	0	0
Playing in roadway	0	0.0	0	0.0	0	0	0	0	0
In roadway other reason	0	0.0	3	0.1	0	1	1	1	0
Not in roadway	0	0.0	0	0.0	0	0	0	0	0
Other	7	0.3	10	0.3	0	1	5	2	2
Unknown	97	3.7	111	3.6	1	21	32	13	31
TOTAL	2,651	100.0	3,075*	100.0	82	681	1,045	598	565

* Includes 104 motorcyclists (drivers and passengers) with unknown injury severity

ACTION PRIOR TO CRASH (continued)

BICYCLIST - INJURY SEVERITY

BICYCLIST ACTION	All Bicycles		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
Going straight ahead	1,776	54.8	18	192	635	626	258
Turning left	143	4.4	2	21	52	47	19
Turning right	47	1.5	0	4	20	12	8
Stopped on roadway	28	0.9	0	5	11	7	4
In prior crash	5	0.2	0	1	1	2	0
Changing lanes	58	1.8	1	13	21	14	9
Backing	3	0.1	0	1	1	0	1
Slowing/stopping on roadway	10	0.3	0	1	3	4	2
Slowing/stopping other	4	0.1	0	0	1	3	0
Starting up on roadway	12	0.4	0	2	4	4	2
Starting up other	6	0.2	0	0	6	0	0
Entering parking	3	0.1	0	2	0	1	0
Leaving parking	5	0.2	0	0	1	3	1
Entering roadway	228	7.0	3	36	85	70	30
Leaving roadway	4	0.1	0	1	2	1	0
Making U-turn	9	0.3	0	1	5	1	2
Overtaking or passing	4	0.1	0	1	2	1	0
Avoiding object	0	0.0	0	0	0	0	0
Avoiding pedestrian	0	0.0	0	0	0	0	0
Avoiding vehicle (front/back)	10	0.3	0	1	6	2	1
Avoiding vehicle (angle)	7	0.2	0	1	3	1	2
Driverless moving	0	0.0	0	0	0	0	0
Parked	3	0.1	0	0	0	1	0
Crossing at intersection	311	9.6	0	25	110	113	54
Crossing not at intersection	139	4.3	1	24	47	42	20
Getting on/off vehicle	5	0.2	0	1	2	0	1
In roadway with traffic	41	1.3	0	9	17	11	3
In roadway against traffic	30	0.9	1	5	9	11	4
Standing/lying in roadway	3	0.1	0	1	1	1	0
Pushing/working on vehicle	0	0.0	0	0	0	0	0
Other working in roadway	0	0.0	0	0	0	0	0
Playing in roadway	17	0.5	0	3	9	2	3
In roadway other reason	24	0.7	0	8	7	6	2
Not in roadway	21	0.6	0	2	8	9	2
Other	67	2.1	0	11	21	25	6
Unknown	216	6.7	2	27	71	68	25
TOTAL	3,239*	100.0	28	399	1,161	1,088	459

* Includes 104 bicyclists with unknown injury severity

ACTION PRIOR TO CRASH (continued)

PEDESTRIAN - INJURY SEVERITY

PEDESTRIAN ACTION	All Pedestrians		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
Going straight ahead	155	3.8	5	29	46	58	15
Turning left	48	1.2	1	9	14	16	3
Turning right	16	0.4	2	3	1	6	1
Stopped on roadway	23	0.6	0	6	5	6	4
In prior crash	10	0.2	1	1	3	3	0
Changing lanes	3	0.1	0	0	2	1	0
Backing	5	0.1	1	1	1	0	2
Slowing/stopping on roadway	1	0.0	0	1	0	0	0
Slowing/stopping other	0	0.0	0	0	0	0	0
Starting up on roadway	1	0.0	0	0	1	0	0
Starting up other	0	0.0	0	0	0	0	0
Entering parking	3	0.1	0	1	2	0	0
Leaving parking	5	0.1	0	2	1	1	0
Entering roadway	37	0.9	0	6	12	14	3
Leaving roadway	6	0.1	1	2	1	0	0
Making U-turn	1	0.0	0	0	1	0	0
Overtaking or passing	0	0.0	0	0	0	0	0
Avoiding object	1	0.0	0	0	0	1	0
Avoiding pedestrian	1	0.0	1	0	0	0	0
Avoiding vehicle (front/back)	4	0.1	1	0	1	0	2
Avoiding vehicle (angle)	1	0.0	0	0	0	1	0
Driverless moving	5	0.1	0	1	2	1	1
Parked	25	0.6	0	1	6	10	6
Crossing at intersection	785	19.3	22	178	231	293	35
Crossing not at intersection	1,200	29.5	64	385	385	287	35
Getting on/off vehicle	74	1.8	1	18	26	23	4
In roadway with traffic	181	4.5	18	50	50	54	5
In roadway against traffic	56	1.4	5	13	15	19	3
Standing/lying in roadway	178	4.4	17	51	37	52	8
Pushing/working on vehicle	66	1.6	4	22	17	19	3
Other working in roadway	43	1.1	0	8	11	17	6
Playing in roadway	85	2.1	0	20	30	26	7
In roadway other reason	231	5.7	15	72	69	62	6
Not in roadway	199	4.9	13	49	60	63	9
Other	119	2.9	1	23	39	42	5
Unknown	496	12.2	17	129	126	139	26
TOTAL	4,064*	100.0	190	1,081	1,195	1,214	189

* Includes 195 pedestrians with unknown injury severity

MOST HARMFUL EVENT

MOST SEVERE OUTCOME IN CRASH

NONCOLLISION	Motor Vehicles		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
Loss of control	7,935	1.1	15	286	584	1,327	5,723
Cross center/median	1,679	0.2	10	67	110	198	1,294
Ran off road left	1,286	0.2	5	57	124	172	928
Ran off road right	1,903	0.3	4	75	150	252	1,422
Re-enter road	383	0.1	2	36	41	63	241
Overturn	8,722	1.2	114	957	1,709	1,844	4,098
Separation of units	6,217	0.9	26	201	405	1,179	4,406
Fire/explosion	1,046	0.1	9	12	39	97	889
Immersion	219	0.0	2	19	17	34	147
Jackknife	452	0.1	0	6	13	44	389
Downhill runaway	99	0.0	0	3	11	18	67
Cargo loss/shift	751	0.1	0	2	22	38	689
Individual fell off	491	0.1	18	138	180	61	94
Other noncollision	2,288	0.3	5	73	147	277	1,786
NONCOLLISION Subtotal	33,471	4.6	210	1,932	3,552	5,604	22,173

MOST SEVERE OUTCOME IN CRASH

HAD A COLLISION WITH NONFIXED OBJECT	Motor Vehicles		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
Pedestrian	3,090	0.4	173	832	915	869	301
Pedalcycle	2,865	0.4	26	348	1,000	908	583
Motor vehicle in transport	476,849	65.2	1,404	14,754	29,127	89,365	342,199
Parked motor vehicle	20,428	2.8	23	315	619	1,055	18,416
Railway train	166	0.0	5	32	17	20	92
Animal	56,782	7.8	3	76	351	810	55,542
Other nonfixed objects	5,308	0.7	9	82	198	389	4,630
COLLISION NONFIXED Subtotal	565,488	77.4	1,643	16,439	32,227	93,416	421,763

MOST HARMFUL EVENT (continued)

MOST SEVERE OUTCOME IN CRASH

HAD A COLLISION WITH FIXED OBJECT	Motor Vehicles		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
Bridge/pier/abutment	773	0.1	11	44	78	116	524
Bridge parapet end	443	0.1	0	5	15	16	407
Bridge rail	491	0.1	1	18	39	90	343
Guardrail face	3,097	0.4	6	89	200	394	2,408
Guardrail end	568	0.1	4	43	82	90	349
Median barrier	2,667	0.4	7	127	311	604	1,618
Highway traffic sign post	2,773	0.4	2	31	69	156	2,515
Signal post	332	0.0	2	6	20	24	280
Luminaire/light support	689	0.1	3	36	86	67	497
Utility pole	4,378	0.6	36	347	695	683	2,617
Other pole	1,186	0.2	4	42	93	119	928
Culvert	769	0.1	7	75	109	134	444
Curb	1,982	0.3	1	33	94	153	1,701
Ditch	6,829	0.9	16	287	796	1,005	4,725
Embankment	1,902	0.3	16	126	241	295	1,224
Fence	1,665	0.2	4	29	68	121	1,443
Mailbox	2,489	0.3	1	24	47	114	2,303
Tree	11,696	1.6	190	1,070	1,791	1,759	6,886
Rail crossing signal	105	0.0	0	4	5	4	92
Building	1,047	0.1	8	81	143	131	684
Traffic island	61	0.0	0	1	7	5	48
Fire hydrant	580	0.1	1	25	50	58	446
Impact attenuator	48	0.0	3	4	6	6	29
Other fixed object	3,318	0.5	8	133	276	347	2,554
COLLISION FIXED Subtotal	49,888	6.8	331	2,680	5,321	6,491	35,065

MOST SEVERE OUTCOME IN CRASH

	Motor Vehicles		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
Unknown Event	82,105	11.2	129	2,253	3,987	12,212	63,524
TOTAL MOST HARMFUL EVENT	730,952	100.0	2,313	23,304	45,087	117,723	542,525

VEHICLE DEFECTS IN CRASH INVOLVEMENT

MOST SEVERE OUTCOME IN CRASH

VEHICLE DEFECTS	Motor Vehicles		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
Brakes	2,377	0.3	10	110	196	442	1,619
Lights/reflectors	531	0.1	4	21	30	79	397
Steering	332	0.0	1	13	45	65	208
Tires/wheels	840	0.1	12	39	73	110	606
Windows	418	0.1	3	18	27	75	295
Other	1,671	0.2	5	66	123	258	1,219
Unknown/None	724,783	99.2	2,278	23,037	44,593	116,694	538,181
TOTAL	730,952	100.0	2,313	23,304	45,087	117,723	542,525

DRIVER HAZARDOUS ACTION

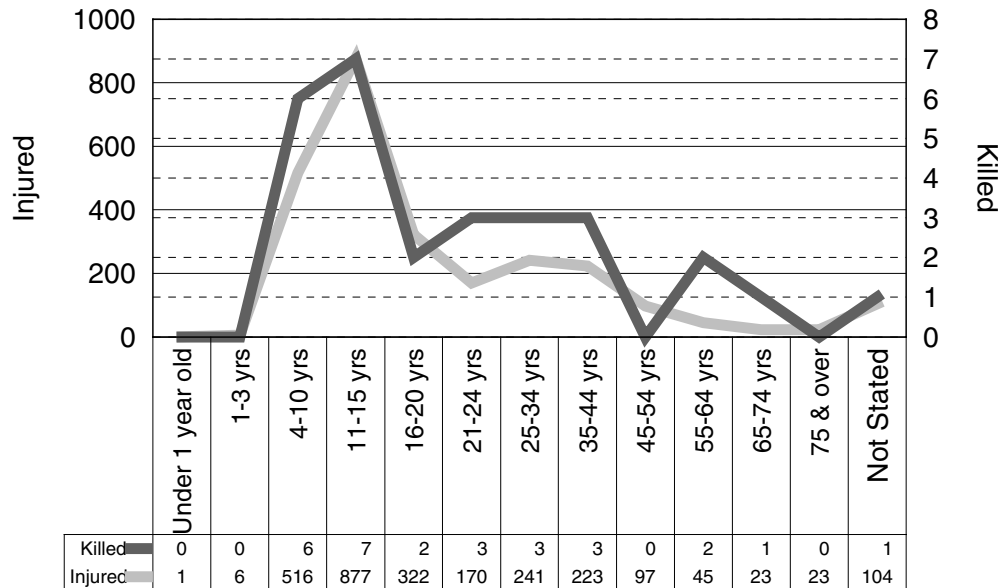
MOST SEVERE OUTCOME IN CRASH

HAZARDOUS ACTION	All Vehicles		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
None	366,180	50.1	954	10,286	20,059	57,165	277,716
Speed too fast	44,535	6.1	365	2,537	4,614	7,081	29,938
Speed too slow	1,488	0.2	4	56	113	319	996
Failed to yield	65,261	8.9	187	2,658	5,622	11,951	44,843
Disregard traffic control	18,096	2.5	132	1,262	2,186	4,279	10,237
Drove wrong way	609	0.1	15	46	58	109	381
Drove left of center	5,072	0.7	135	544	599	694	3,100
Improper passing	5,404	0.7	15	121	240	535	4,493
Improper lane use	15,489	2.1	19	244	505	1,381	13,340
Improper turn	10,243	1.4	17	270	513	1,380	8,063
Improper/no signal	1,089	0.1	0	24	37	105	923
Improper backing	13,841	1.9	1	49	109	419	13,263
Unable to stop in assured clear distance	92,968	12.7	76	1,789	4,361	21,212	65,530
Other	38,409	5.3	185	2,042	3,704	5,325	27,153
Unknown	52,268	7.2	208	1,376	2,367	5,768	42,549
TOTAL	730,952	100.0	2,313	23,304	45,087	117,723	542,525



MICHIGAN BICYCLE CRASHES

1995 Bicycle Crash Information



In 1995, there were 3,239 bicyclists involved in motor vehicles crashes, with 28 bicyclists killed and 2,648 injured. The number of bicyclists killed represents a -3.4 percent change from 1994.

Children under 16 years of age accounted for 13 (46.4%) of the bicycle deaths in 1995.

BICYCLE HELMET USE AND INJURY SEVERITY

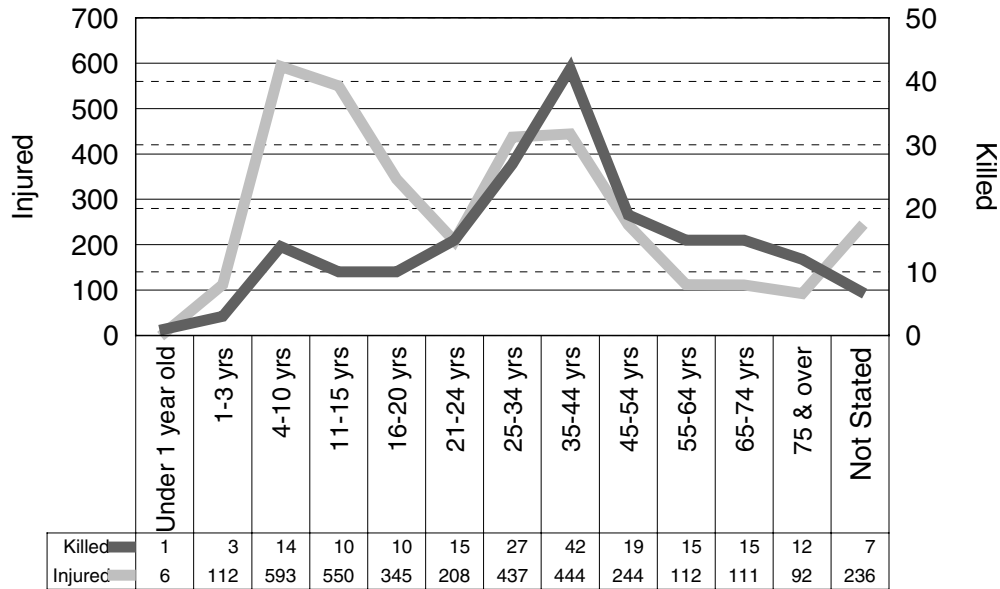
HELMET USE	Fatality	Injury			No Injury
		A	B	C	
Worn	1	10	44	36	13
Not Worn	11	96	275	229	105
Unknown	16	293	842	823	341
TOTALS	28	399	1,161	1,088	459

The National Center for Statistics and Analysis of the National Highway Traffic Safety Administration cites a study by the Centers for Disease Control [11] in giving us the following information: "Bicycle helmets are 85 to 88 percent effective in mitigating head and brain injuries, making the use of helmets the **single most effective countermeasure** available to reduce head injuries and fatalities resulting from bicycle crashes."



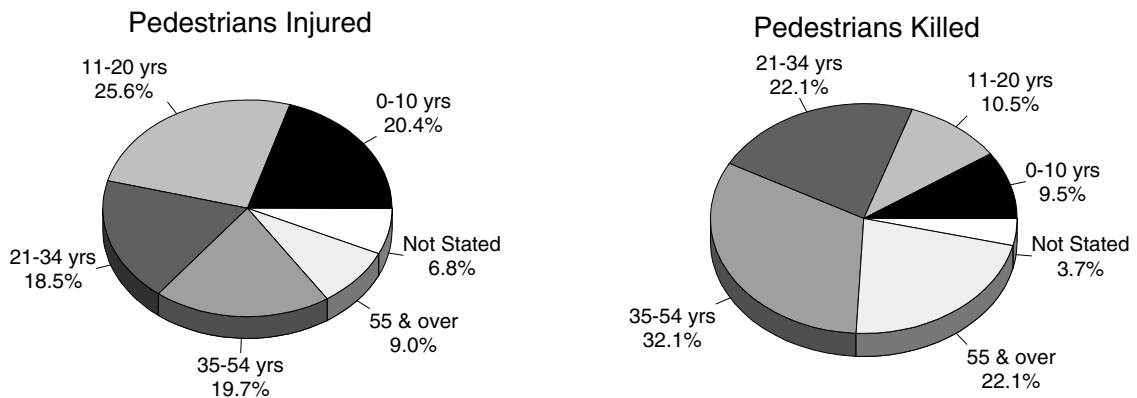
MICHIGAN PEDESTRIAN CRASHES

1995 Pedestrian Crash Information



In 1995, there were 4,064 pedestrians involved in motor vehicles crashes, with 190 pedestrians killed and 3,490 injured. The number killed represents a 4.4 percent increase in fatalities from 1994.

Children under 16 years of age accounted for 28 (14.7%) of the pedestrian deaths in 1995. Adults over the age of 54 accounted for 49 (25.8%) of the pedestrian deaths in 1995.





MICHIGAN SNOWMOBILE ON ROADWAY CRASHES

Most Harmful Event

MOST SEVERE OUTCOME IN CRASH

NONCOLLISION	Snowmobiles		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
Loss of control	14	2.0	0	3	3	4	4
Cross center/median	2	0.3	0	0	0	0	2
Ran off road left	4	0.6	0	1	3	0	0
Ran off road right	1	0.1	0	0	0	0	1
Re-enter road	1	0.1	0	0	0	1	0
Overturn	55	7.9	0	21	19	12	3
Separation of units	5	0.7	0	0	0	2	3
Fire/explosion	0	0.0	0	0	0	0	0
Immersion	5	0.7	0	0	0	3	2
Jackknife	2	0.3	0	0	0	0	2
Downhill runaway	0	0.0	0	0	0	0	0
Cargo loss/shift	1	0.1	0	0	0	0	1
Individual fell off	35	5.0	0	13	13	9	0
Other noncollision	10	1.4	1	3	2	2	2
NONCOLLISION Subtotal	135	19.3	1	41	40	33	20

MOST SEVERE OUTCOME IN CRASH

HAD A COLLISION WITH NONFIXED OBJECT	Snowmobiles		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
Pedestrian	2	0.3	0	0	2	0	0
Pedalcycle	0	0.0	0	0	0	0	0
Motor vehicle in transport	221	31.6	3	59	28	33	98
Parked motor vehicle	25	3.6	0	6	1	4	14
Railway train	1	0.1	0	1	0	0	0
Animal	33	4.7	0	1	1	7	24
Other nonfixed objects	9	1.3	0	0	2	1	6
COLLISION NONFIXED Subtotal	291	41.6	3	67	34	45	142



MICHIGAN SNOWMOBILE ON ROADWAY CRASHES (continued)

Most Harmful Event

MOST SEVERE OUTCOME IN CRASH

HAD A COLLISION WITH FIXED OBJECT	Snowmobiles		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
Bridge/pier/abutment	1	0.1	0	1	0	0	0
Bridge parapet end	0	0.0	0	0	0	0	0
Bridge rail	0	0.0	0	0	0	0	0
Guardrail face	1	0.1	0	0	0	1	0
Guardrail end	0	0.0	0	0	0	0	0
Median barrier	0	0.0	0	0	0	0	0
Highway traffic sign post	4	0.6	0	1	1	0	2
Signal post	0	0.0	0	0	0	0	0
Luminaire/light support	0	0.0	0	0	0	0	0
Utility pole	8	1.1	0	2	0	1	5
Other pole	6	0.9	0	2	1	0	3
Culvert	6	0.9	0	2	2	0	2
Curb	1	0.1	0	0	1	0	0
Ditch	7	1.0	0	1	3	2	1
Embankment	13	1.9	0	6	4	0	3
Fence	6	0.9	0	1	2	1	2
Mailbox	4	0.6	1	0	1	0	2
Tree	104	14.9	10	44	18	16	16
Rail crossing signal	0	0.0	0	0	0	0	0
Building	5	0.7	0	0	2	1	2
Traffic island	0	0.0	0	0	0	0	0
Fire hydrant	0	0.0	0	0	0	0	0
Impact attenuator	0	0.0	0	0	0	0	0
Other fixed object	38	5.4	0	11	16	6	5
COLLISION FIXED Subtotal	204	29.1	11	71	51	28	43
Unknown Event	70	10.0	1	15	8	13	33
TOTAL MOST HARMFUL EVENT	700	100.0	16	194	133	119	238

A total of 700 snowmobiles were reported in crashes on Michigan roadways during 1995. Of these snowmobiles, 16 were involved in fatal crashes with all 16 of their drivers killed.



MICHIGAN ORV/ATV ON ROADWAY CRASHES

Most Harmful Event

MOST SEVERE OUTCOME IN CRASH

NONCOLLISION	ORV/ATV		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
Loss of control	9	3.8	0	1	5	0	3
Ran off road left	2	0.9	0	1	0	1	0
Ran off road right	1	0.4	0	0	0	0	1
Overturn	45	19.1	0	16	19	8	2
Separation of units	2	0.9	0	0	0	0	2
Fire/explosion	1	0.4	0	0	0	1	0
Jackknife	1	0.4	0	0	1	0	0
Individual fell off	17	7.2	0	8	8	0	1
Other noncollision	1	0.4	0	1	0	0	0
NONCOLLISION Subtotal	79	33.6	0	27	33	10	9
HAD A COLLISION WITH NONFIXED OBJECT							
Pedalcycle	2	0.9	0	0	2	0	0
Motor vehicle in transport	69	29.4	2	17	16	10	24
Parked motor vehicle	6	2.6	0	1	1	1	3
Railway train	1	0.4	0	0	0	0	1
Animal	4	1.7	0	1	1	1	1
Other nonfixed objects	5	2.1	0	1	2	1	1
COLLISION NONFIXED Subtotal	87	37.0	2	20	22	13	30
HAD A COLLISION WITH FIXED OBJECT							
Utility pole	3	1.3	0	1	0	1	1
Other pole	2	0.9	0	1	0	0	1
Culvert	2	0.9	0	1	0	1	0
Ditch	10	4.3	0	3	3	4	0
Embankment	3	1.3	0	1	1	1	0
Mailbox	3	1.3	0	1	0	1	1
Tree	23	9.8	0	8	12	2	1
Other fixed object	7	3.0	0	1	4	1	1
COLLISION FIXED Subtotal	53	22.6	0	17	20	11	5
Unknown Event	16	6.8	0	2	2	5	7
TOTAL MOST HARMFUL EVENT	235	100.0	2	66	77	39	51

A total of 235 Off Road Vehicles/All Terrain Vehicles were reported in crashes on Michigan roadways during 1995. Of these ORV/ATVs, 2 were involved in fatal crashes and both of their operators were killed.

MICHIGAN SNOWMOBILE ON ROADWAY CRASHES

MOST SEVERE OUTCOME IN CRASH

Driver Hazardous Action	All Snowmobiles		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
None	194	27.7	0	46	30	35	83
Speed too fast	195	27.9	13	75	52	31	24
Speed too slow	1	0.1	0	0	0	0	1
Failed to yield	47	6.7	1	8	6	11	21
Disregard traffic control	3	0.4	0	1	1	0	1
Drove wrong way	4	0.6	0	0	0	2	2
Drove left of center	2	0.3	0	1	0	0	1
Improper passing	1	0.1	0	0	0	1	0
Improper lane use	9	1.3	2	4	0	0	3
Improper turn	8	1.1	0	0	1	1	6
Improper/no signal	0	0.0	0	0	0	0	0
Improper backing	2	0.3	0	0	0	0	2
Unable to stop in assured clear distance	72	10.3	0	22	15	10	25
Other	94	13.4	0	18	15	19	42
Unknown	68	9.7	0	19	13	9	27
TOTAL	700	100.0	16	194	133	119	238

MICHIGAN ORV/ATV ON ROADWAY CRASHES

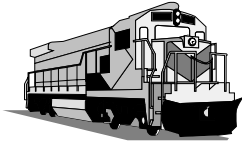
MOST SEVERE OUTCOME IN CRASH

Driver Hazardous Action	All ORV/ATVs		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
None	44	18.7	0	8	15	12	9
Speed too fast	55	23.4	2	22	21	6	4
Speed too slow	1	0.4	0	0	1	0	0
Failed to yield	25	10.6	0	6	5	5	9
Disregard traffic control	2	0.9	0	2	0	0	0
Drove wrong way	4	1.7	0	0	1	1	2
Drove left of center	4	1.7	0	1	1	0	2
Improper passing	1	0.4	0	0	0	1	0
Improper lane use	4	1.7	0	2	1	0	1
Improper turn	2	0.9	0	0	1	0	1
Improper/no signal	0	0.0	0	0	0	0	0
Improper backing	2	0.9	0	0	0	0	2
Unable to stop in assured clear distance	13	5.5	0	7	1	4	1
Other	58	24.7	0	16	24	6	12
Unknown	20	8.5	0	2	6	4	8
TOTAL	235	100.0	2	66	77	39	51



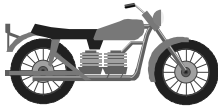
MICHIGAN FARM EQUIPMENT CRASHES

A total of 292 crashes involving farm equipment were reported on Michigan roadways during 1995. Of these crashes, 5 were fatal crashes with 1 driver of the farm equipment killed.



MICHIGAN VEHICLE - TRAIN CRASHES

According to Michigan Department of Transportation figures, a total of 121 crashes involving trains were reported in Michigan during 1995. The National Highway Traffic Safety Administration's 1995 Fatal Accident Reporting System [12] reported 5 fatal train crashes in Michigan, and 5 persons killed as a result of those collisions.

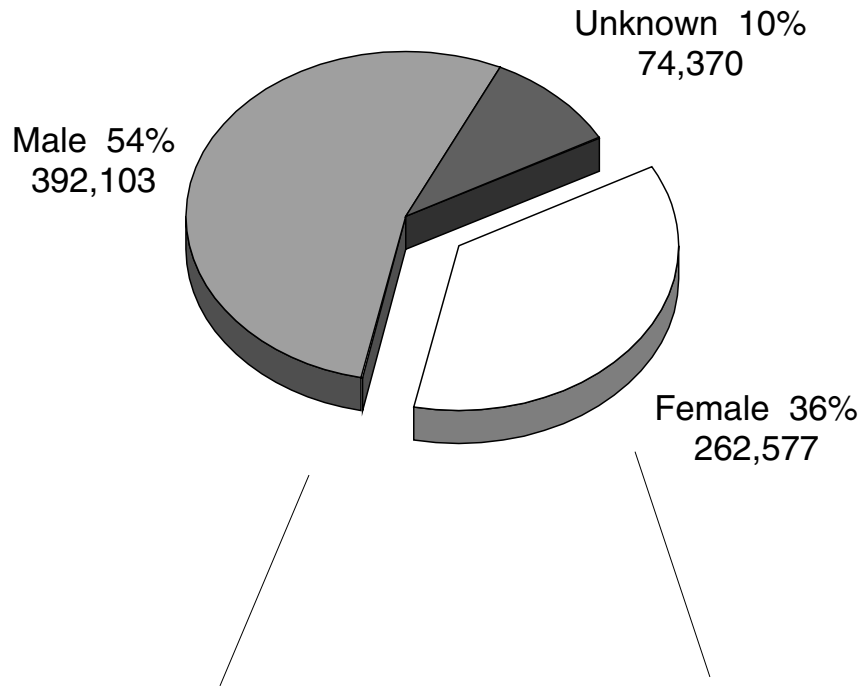


MOTORCYCLE AND MOTOR SCOOTER DATA

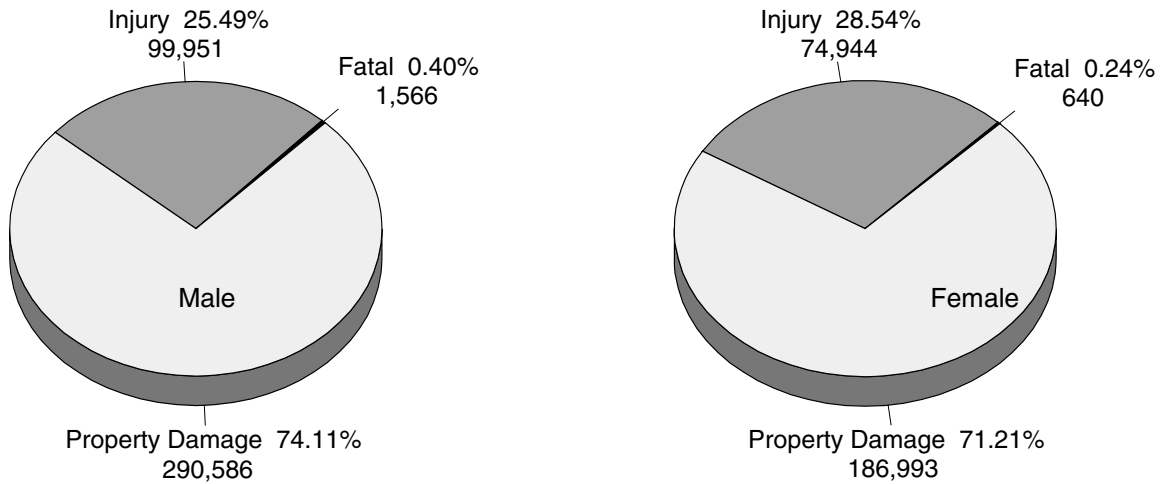
MOTORCYCLE & MOTOR SCOOTER DATA	1994	1995	% Change
Registrations	124,896.0	126,957.0	1.7
Crashes	2,982.0	2,651.0	-11.1
Deaths	67.0	82.0	22.4
Persons Injured	2,598.0	2,324.0	-10.5
Death Rate based on 10,000 cycle registrations	5.4	6.5	20.4
Estimated Mileage based on 3,000 miles per cycle	374,688,000.0	380,871,000.0	1.7
Death Rate based on deaths per 100 million vehicle miles traveled	17.9	21.5	20.1

Motorcycles were involved in 0.63 percent of all traffic crashes in Michigan in 1995. Injuries were proportionately more severe to motorcyclists than to persons in motor vehicles. The 1995 death rate for motorcyclists was 21.5 per 100 million vehicle miles traveled compared to the overall 1.8 mileage death rate per 100 million vehicle miles traveled.

DRIVER GENDER INFORMATION - ALL CRASHES



Crash Severity



A higher proportion of crashes involved male drivers than female drivers. When we examine the severity of crashes involving drivers of each gender, we see that fatal crashes are more prevalent among male drivers than female drivers (0.4% vs. 0.24%).

This 1995 chart was processed with numbers for all drivers (vehicle level).

DRIVER AGE

AGE OF DRIVERS IN FATAL CRASHES	1994	1995	% Change	% 1995 Fatal Crash Involvement	Percent Driving Population*
15 years and under	13	10	-23.1	0.4	1.9
16 - 20 years	307	314	2.3	13.6	8.3
21 - 24 years	222	220	-0.9	9.5	8.3
25 - 34 years	431	466	8.1	20.2	22.5
35 - 44 years	369	442	19.8	19.1	21.6
45 - 54 years	207	260	25.6	11.3	15.2
55 - 64 years	110	146	32.7	6.3	9.7
65 - 74 years	112	121	8.0	5.2	8.0
75 years and over	105	129	22.9	5.6	4.6
Not Stated	170	203	19.4	8.8	---
TOTALS	2,046	2,311	13.0	100.0	100.0

* Figures courtesy of the Michigan Department of State [13]

