



## 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	500,749	74.3	1,299	63.3	135,475	363,975	794	73.6	86,733	370,899
Van and Motorhome	46,989	7.0	124	6.0	11,561	35,304	43	4.0	6,028	37,405
Pickup	92,362	13.7	314	15.3	21,382	70,666	129	12.0	11,303	74,875
Small Truck (under 10,000 lbs.)	8,543	1.3	35	1.7	2,041	6,467	8	0.7	1,032	6,916
Cycle	2,982	0.4	66	3.2	2,288	628	64	5.9	2,224	572
Moped	376	0.1	6	0.3	278	92	4	0.4	269	89
Go Cart	10	0.0	0	0.0	3	7	0	0.0	3	6
Snowmobile	460	0.1	11	0.5	318	131	9	0.8	282	148
Off Road Vehicle	253	0.0	9	0.4	184	60	8	0.7	171	64
Other	1,949	0.3	11	0.5	466	1,472	5	0.5	220	1,431
CDL Truck/Bus (breakdown below)	19,139	2.8	177	8.6	4,259	14,703	15	1.4	1,114	16,570
<b>Totals</b>	<b>673,812*</b>	<b>100.0</b>	<b>2,052</b>	<b>100.0</b>	<b>178,255</b>	<b>493,505</b>	<b>1,079</b>	<b>100.0</b>	<b>109,379</b>	<b>508,975</b>

\* Includes 54,379 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	2,060	10.8	4	2.3	380	1,676	1	6.7	79	1,426
Commercial Vehicle: Group A	8,859	46.3	103	58.2	2,004	6,752	9	60.0	466	8,076
Commercial Vehicle: Group B	4,462	23.3	38	21.5	998	3,426	3	20.0	333	3,966
Commercial Vehicle: Group C	525	2.7	1	0.6	111	413	0	0.0	44	464
Other Truck	887	4.6	6	3.4	222	659	1	6.7	63	783
Unknown Truck	2,346	12.3	25	14.1	544	1,777	1	6.7	129	1,855
<b>Totals</b>	<b>19,139*</b>	<b>100.0</b>	<b>177</b>	<b>100.0</b>	<b>4,259</b>	<b>14,703</b>	<b>15</b>	<b>100.0</b>	<b>1,114</b>	<b>16,570</b>

\* Includes 1,440 with unknown injury severity for Most Severe Outcome in Vehicle

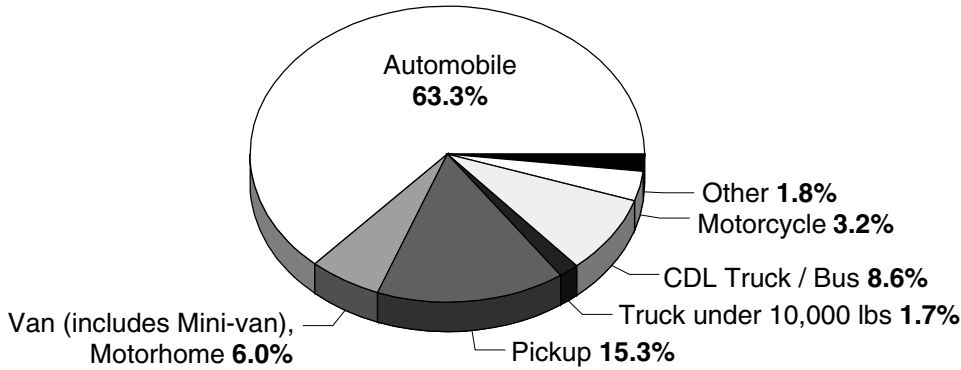
Group "A" is any vehicle that is towing a vehicle or trailer that has a gross vehicle weight rating (GVWR) over 10,000 lbs.

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.

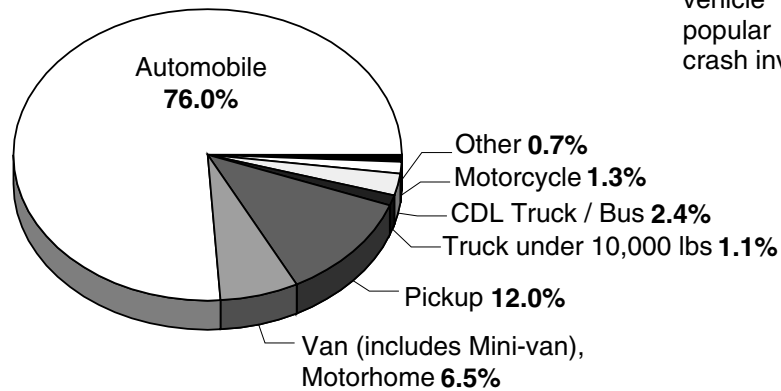
## VEHICLE TYPES IN CRASHES BY CRASH SEVERITY

### FATAL

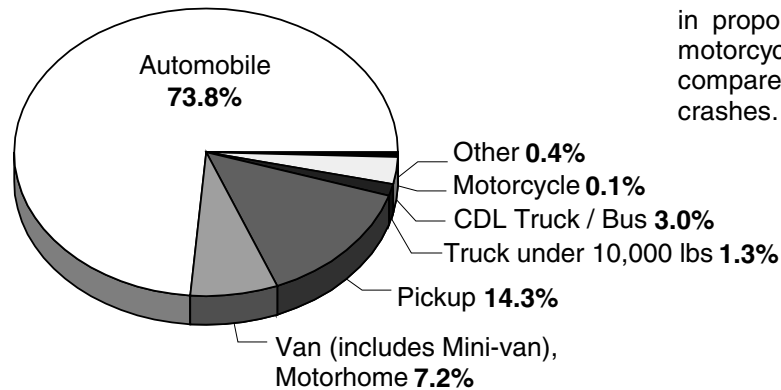


The top chart shows that 4 out of 5 vehicles involved in fatal crashes are automobiles or pickups. Van, Motorhome, the vehicle type that includes the popular mini-van, has a fatal crash involvement of 6.0 percent.

### 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	345,905	51.3	1,441	14,251	25,297	56,302	248,614
Turning left	54,635	8.1	124	2,202	4,493	9,715	38,101
Turning right	19,669	2.9	17	387	930	2,332	16,003
Stopped on roadway	63,011	9.4	61	1,461	3,428	15,694	42,367
In prior crash	1,169	0.2	3	53	97	247	769
Changing lanes	14,491	2.2	42	335	594	1,676	11,844
Backing	17,506	2.6	7	122	231	798	16,348
Slowing/stopping on roadway	47,376	7.0	30	801	2,095	10,850	33,600
Slowing/stopping other	999	0.1	2	27	55	147	768
Starting up on roadway	11,529	1.7	35	363	757	2,177	8,197
Starting up other	530	0.1	0	21	44	80	385
Entering parking	1,132	0.2	3	11	37	102	979
Leaving parking	3,219	0.5	1	56	162	375	2,625
Entering roadway	10,368	1.5	24	357	654	1,661	7,672
Leaving roadway	1,743	0.3	14	143	235	234	1,117
Making U-turn	1,733	0.3	5	80	133	290	1,225
Overtaking or passing	6,904	1.0	42	266	467	898	5,231
Avoiding object	1,952	0.3	1	72	186	277	1,416
Avoiding pedestrian	210	0.0	8	28	32	39	103
Avoiding vehicle (front/back)	5,376	0.8	38	262	420	948	3,708
Avoiding vehicle (angle)	2,466	0.4	7	98	207	392	1,762
Driverless moving	649	0.1	2	11	24	31	581
Parked	29,768	4.4	36	506	988	1,337	26,901
Crossing at intersection	55	0.0	1	4	4	10	36
Crossing not at intersection	17	0.0	0	2	4	3	8
Getting on/off vehicle	8	0.0	0	0	1	1	6
In roadway with traffic	13	0.0	0	0	2	1	10
In roadway against traffic	6	0.0	0	1	0	2	3
Standing/lying in roadway	7	0.0	0	1	0	1	5
Pushing/working on vehicle	13	0.0	1	2	2	1	7
Other working in roadway	4	0.0	0	0	1	1	2
Playing in roadway	3	0.0	0	0	1	0	2
In roadway other reason	10	0.0	0	2	0	2	6
Not in roadway	9	0.0	0	1	2	2	4
Other	676	0.1	4	37	60	96	479
Unknown	30,651	4.5	103	948	1,868	5,111	22,621
<b>TOTAL</b>	<b>673,812</b>	<b>100.0</b>	<b>2,052</b>	<b>22,911</b>	<b>43,511</b>	<b>111,833</b>	<b>493,505</b>

## 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	1,944	65.2	2,144	65.8	50	551	694	436	355
Turning left	141	4.7	150	4.6	2	20	53	35	35
Turning right	85	2.9	97	3.0	0	16	21	31	28
Stopped on roadway	104	3.5	112	3.4	0	15	23	34	39
In prior crash	1	0.0	1	0.0	0	0	0	0	1
Changing lanes	35	1.2	38	1.2	1	9	13	9	5
Backing	3	0.1	4	0.1	0	0	2	2	0
Slowing/stopping on roadway	129	4.3	139	4.3	1	20	39	39	37
Slowing/stopping other	4	0.1	4	0.1	0	1	1	1	1
Starting up on roadway	48	1.6	51	1.6	0	8	15	11	17
Starting up other	5	0.2	5	0.2	0	0	1	2	2
Entering parking	0	0.0	0	0.0	0	0	0	0	0
Leaving parking	8	0.3	8	0.2	0	0	3	2	3
Entering roadway	24	0.8	26	0.8	1	7	8	7	3
Leaving roadway	21	0.7	22	0.7	2	10	3	3	2
Making U-turn	14	0.5	14	0.4	0	4	1	4	5
Overtaking or passing	77	2.6	83	2.5	3	23	28	15	12
Avoiding object	33	1.1	35	1.1	0	4	13	7	10
Avoiding pedestrian	3	0.1	3	0.1	0	0	2	1	0
Avoiding vehicle (front/back)	61	2.0	64	2.0	1	20	21	13	8
Avoiding vehicle (angle)	36	1.2	38	1.2	1	6	16	8	7
Driverless moving	2	0.1	2	0.1	0	0	1	0	0
Parked	53	1.8	54	1.7	0	0	0	2	15
Crossing at intersection	0	0.0	0	0.0	0	0	0	0	0
Crossing not at intersection	0	0.0	0	0.0	0	0	0	0	0
Getting on/off vehicle	0	0.0	0	0.0	0	0	0	0	0
In roadway with traffic	0	0.0	0	0.0	0	0	0	0	0
In roadway against traffic	0	0.0	0	0.0	0	0	0	0	0
Standing/lying in roadway	0	0.0	0	0.0	0	0	0	0	0
Pushing/working on vehicle	0	0.0	0	0.0	0	0	0	0	0
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	0	0.0	0	0	0	0	0
Not in roadway	0	0.0	0	0.0	0	0	0	0	0
Other	9	0.3	9	0.3	0	4	3	2	0
Unknown	142	4.8	155	4.8	4	27	45	39	31
<b>TOTAL</b>	<b>2,982</b>	<b>100.0</b>	<b>3,258*</b>	<b>100.0</b>	<b>66</b>	<b>745</b>	<b>1,006</b>	<b>703</b>	<b>616</b>

\* Includes 122 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	1,893	57.4	14	219	703	652	248
Turning left	132	4.0	1	25	54	30	20
Turning right	43	1.3	0	8	18	9	7
Stopped on roadway	31	0.9	0	2	7	14	7
In prior crash	1	0.0	0	1	0	0	0
Changing lanes	54	1.6	0	15	18	13	5
Backing	1	0.0	0	0	1	0	0
Slowing/stopping on roadway	7	0.2	0	0	5	1	1
Slowing/stopping other	10	0.3	0	2	1	6	1
Starting up on roadway	11	0.3	0	2	3	4	2
Starting up other	6	0.2	0	2	3	1	0
Entering parking	4	0.1	0	1	2	1	0
Leaving parking	5	0.2	0	0	3	1	1
Entering roadway	236	7.2	6	31	91	78	25
Leaving roadway	7	0.2	0	0	2	2	3
Making U-turn	15	0.5	0	5	5	4	0
Overtaking or passing	9	0.3	0	2	5	2	0
Avoiding object	3	0.1	0	1	1	0	1
Avoiding pedestrian	3	0.1	0	0	2	0	0
Avoiding vehicle (front/back)	11	0.3	0	2	7	2	0
Avoiding vehicle (angle)	11	0.3	0	3	6	2	0
Driverless moving	1	0.0	0	0	0	0	1
Parked	6	0.2	0	1	4	0	0
Crossing at intersection	255	7.7	2	33	94	89	32
Crossing not at intersection	123	3.7	3	26	47	34	9
Getting on/off vehicle	3	0.1	0	2	1	0	0
In roadway with traffic	29	0.9	0	6	12	10	1
In roadway against traffic	26	0.8	0	3	8	7	5
Standing/lying in roadway	4	0.1	0	0	2	1	1
Pushing/working on vehicle	1	0.0	0	1	0	0	0
Other working in roadway	0	0.0	0	0	0	0	0
Playing in roadway	12	0.4	0	2	3	6	0
In roadway other reason	19	0.6	0	4	6	8	1
Not in roadway	21	0.6	0	4	3	8	5
Other	57	1.7	0	6	20	21	7
Unknown	248	7.5	3	29	83	76	41
<b>TOTAL</b>	<b>3,298*</b>	<b>100.0</b>	<b>29</b>	<b>438</b>	<b>1,220</b>	<b>1,082</b>	<b>424</b>

\* Includes 105 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	3.9	0	32	44	51	19
Turning left	19	0.5	1	5	6	7	0
Turning right	8	0.2	1	0	5	1	1
Stopped on roadway	16	0.4	0	4	4	8	0
In prior crash	4	0.1	0	1	0	1	1
Changing lanes	0	0.0	0	0	0	0	0
Backing	1	0.0	0	0	0	1	0
Slowing/stopping on roadway	0	0.0	0	0	0	0	0
Slowing/stopping other	1	0.0	0	0	0	1	0
Starting up on roadway	2	0.0	0	0	0	1	1
Starting up other	0	0.0	0	0	0	0	0
Entering parking	0	0.0	0	0	0	0	0
Leaving parking	1	0.0	0	0	0	1	0
Entering roadway	39	1.0	4	18	10	7	0
Leaving roadway	10	0.2	0	5	1	4	0
Making U-turn	0	0.0	0	0	0	0	0
Overtaking or passing	2	0.0	0	0	1	1	0
Avoiding object	1	0.0	0	0	0	1	0
Avoiding pedestrian	1	0.0	0	0	0	1	0
Avoiding vehicle (front/back)	4	0.1	1	0	1	2	0
Avoiding vehicle (angle)	1	0.0	0	1	0	0	0
Driverless moving	3	0.1	0	1	1	1	0
Parked	29	0.7	1	2	5	7	8
Crossing at intersection	832	20.7	25	192	241	310	32
Crossing not at intersection	1,172	29.2	66	338	392	302	34
Getting on/off vehicle	88	2.2	1	16	39	26	3
In roadway with traffic	191	4.8	12	53	54	61	8
In roadway against traffic	70	1.7	3	17	16	31	2
Standing/lying in roadway	124	3.1	14	30	36	35	3
Pushing/working on vehicle	52	1.3	4	15	15	14	2
Other working in roadway	43	1.1	3	5	13	19	2
Playing in roadway	82	2.0	0	22	36	18	1
In roadway other reason	199	5.0	8	58	60	58	11
Not in roadway	190	4.7	14	50	60	60	1
Other	111	2.8	1	29	31	38	6
Unknown	563	14.0	23	134	169	166	23
<b>TOTAL</b>	<b>4,014*</b>	<b>100.0</b>	<b>182</b>	<b>1,028</b>	<b>1,240</b>	<b>1,234</b>	<b>158</b>

\* Includes 172 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	5,553	0.8	13	275	492	963	3,810
Cross center/median	1,308	0.2	11	68	83	208	938
Ran off road left	1,012	0.2	4	46	95	116	751
Ran off road right	1,820	0.3	2	74	150	297	1,297
Re-enter road	217	0.0	1	12	23	22	159
Overturn	8,315	1.2	106	949	1,583	1,886	3,791
Separation of units	1,735	0.3	7	57	87	289	1,295
Fire/explosion	938	0.1	13	15	29	87	794
Immersion	81	0.0	2	2	7	10	60
Jackknife	528	0.1	1	13	21	55	438
Downhill runaway	93	0.0	0	3	4	15	71
Cargo loss/shift	773	0.1	5	7	16	37	708
Individual fell off	528	0.1	17	150	169	75	117
Other noncollision	2,294	0.3	5	83	163	289	1,754
NONCOLLISION Subtotal	25,195	3.7	187	1,754	2,922	4,349	15,983

### MOST SEVERE OUTCOME IN CRASH

HAD A COLLISION WITH NONFIXED OBJECT	Motor Vehicles		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
Pedestrian	3,106	0.5	163	799	956	902	286
Pedalcycle	2,811	0.4	28	374	1,000	882	527
Motor vehicle in transport	442,660	65.7	1,191	14,284	27,910	84,235	315,040
Parked motor vehicle	17,333	2.6	19	327	657	1,046	15,284
Railway train	180	0.0	14	24	23	27	92
Animal	50,142	7.4	3	75	318	669	49,077
Other nonfixed objects	5,705	0.8	11	105	237	433	4,919
COLLISION NONFIXED Subtotal	521,937	77.5	1,429	15,988	31,101	88,194	385,225

## 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	778	0.1	5	64	101	120	488
Bridge parapet end	473	0.1	1	13	13	34	412
Bridge rail	428	0.1	0	19	52	68	289
Guardrail face	2,444	0.4	4	84	180	349	1,827
Guardrail end	473	0.1	5	32	59	78	299
Median barrier	2,172	0.3	1	130	269	503	1,269
Highway traffic sign post	2,441	0.4	2	25	64	135	2,215
Signal post	289	0.0	1	7	23	19	239
Luminaire/light support	626	0.1	3	40	65	76	442
Utility pole	3,766	0.6	21	322	655	583	2,185
Other pole	1,119	0.2	4	52	107	118	838
Culvert	749	0.1	7	79	130	109	424
Curb	1,729	0.3	2	40	105	163	1,419
Ditch	5,417	0.8	14	276	634	905	3,588
Embankment	1,647	0.2	8	117	251	273	998
Fence	1,401	0.2	3	28	63	96	1,211
Mailbox	2,116	0.3	0	19	52	105	1,940
Tree	9,636	1.4	154	1,082	1,639	1,472	5,289
Rail crossing signal	118	0.0	0	3	7	8	100
Building	954	0.1	10	68	141	143	592
Traffic island	51	0.0	0	2	5	3	41
Fire hydrant	469	0.1	2	22	39	49	357
Impact attenuator	76	0.0	1	15	4	15	41
Other fixed object	3,002	0.4	11	95	262	297	2,337
<b>COLLISION FIXED Subtotal</b>	<b>42,374</b>	<b>6.3</b>	<b>259</b>	<b>2,634</b>	<b>4,920</b>	<b>5,721</b>	<b>28,840</b>

### MOST SEVERE OUTCOME IN CRASH

	Motor Vehicles		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
Unknown Event	84,306	12.5	177	2,535	4,568	13,569	63,457
<b>TOTAL MOST HARMFUL EVENT</b>	<b>673,812</b>	<b>100.0</b>	<b>2,052</b>	<b>22,911</b>	<b>43,511</b>	<b>111,833</b>	<b>493,505</b>

## VEHICLE DEFECTS IN CRASH INVOLVEMENT

### MOST SEVERE OUTCOME IN CRASH

VEHICLE DEFECTS	Motor Vehicles		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
Brakes	2,665	0.4	3	102	199	533	1,828
Lights/reflectors	568	0.1	4	18	37	97	412
Steering	363	0.1	6	24	26	49	258
Tires/wheels	914	0.1	8	43	102	145	616
Windows	368	0.1	1	25	19	72	251
Other	1,749	0.3	5	59	112	306	1,267
Unknown/None	667,185	99.0	2,025	22,640	43,016	110,631	488,873
<b>TOTAL</b>	<b>673,812</b>	<b>100.0</b>	<b>2,052</b>	<b>22,911</b>	<b>43,511</b>	<b>111,833</b>	<b>493,505</b>

## DRIVER HAZARDOUS ACTION

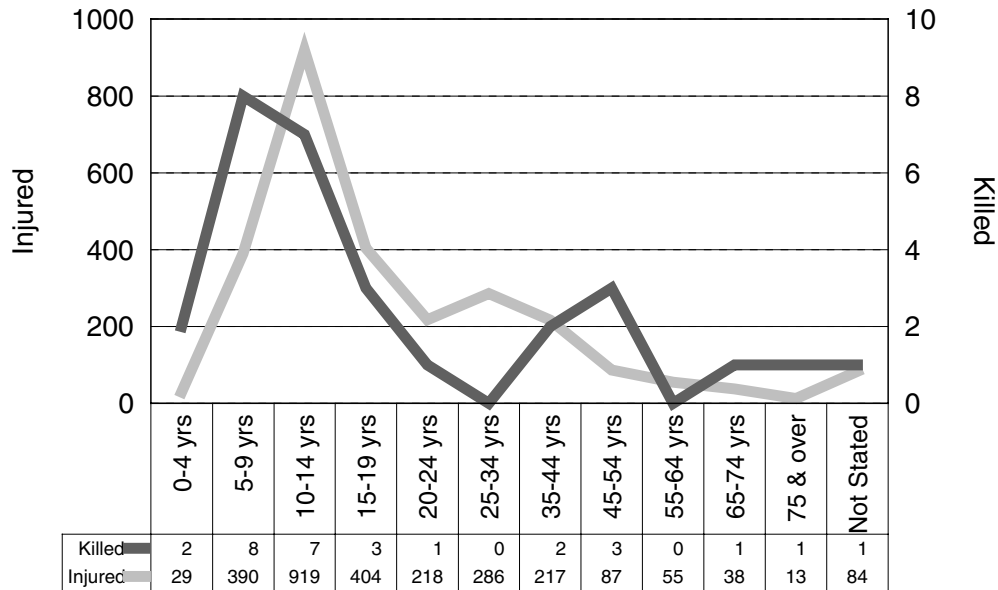
### MOST SEVERE OUTCOME IN CRASH

HAZARDOUS ACTION	All Vehicles		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
None	341,154	50.6	850	9,991	19,309	54,141	256,863
Speed too fast	36,573	5.4	319	2,383	4,122	6,001	23,748
Speed too slow	950	0.1	3	40	64	197	646
Failed to yield	61,679	9.2	170	2,696	5,394	11,343	42,076
Disregard traffic control	17,515	2.6	116	1,258	2,159	4,235	9,747
Drove wrong way	586	0.1	11	63	66	96	350
Drove left of center	5,045	0.7	124	540	615	729	3,037
Improper passing	5,420	0.8	13	132	272	578	4,425
Improper lane use	14,663	2.2	23	249	499	1,417	12,475
Improper turn	10,123	1.5	13	259	586	1,317	7,948
Improper/no signal	1,171	0.2	2	23	39	117	990
Improper backing	13,582	2.0	3	56	128	496	12,899
Unable to stop in assured clear distance	87,420	13.0	68	1,840	4,321	20,434	60,757
Other	36,854	5.5	157	2,039	3,651	5,352	25,655
Unknown	41,077	6.1	180	1,342	2,286	5,380	31,889
<b>TOTAL</b>	<b>673,812</b>	<b>100.0</b>	<b>2,052</b>	<b>22,911</b>	<b>43,511</b>	<b>111,833</b>	<b>493,505</b>



## MICHIGAN BICYCLE CRASHES

1994 Bicycle Crash Information



In 1994, there were 3,298 bicyclists involved in motor vehicles crashes, with 29 bicyclists killed and 2,740 injured. The number of bicyclists killed represents a 0.0 percent change from 1993.

Children under 15 years of age accounted for 17 (58.6%) of the bicycle deaths in 1994.

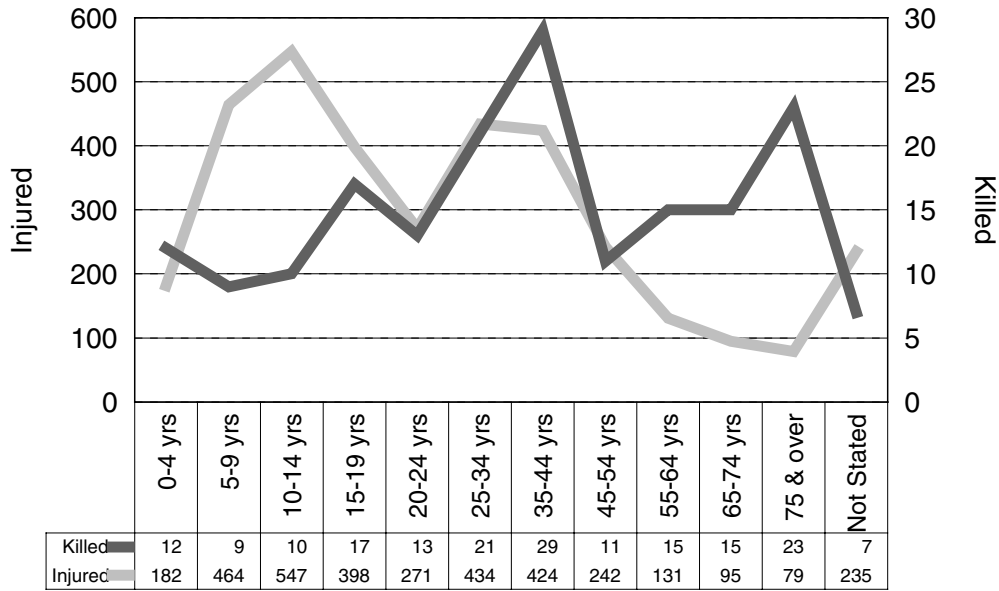
## BICYCLE HELMET USE AND INJURY SEVERITY

HELMET USE	Fatality	Injury			No Injury
		A	B	C	
Worn	2	12	34	29	12
Not Worn	8	103	271	203	64
Unknown	19	323	915	850	348
<b>TOTALS</b>	<b>29</b>	<b>438</b>	<b>1,220</b>	<b>1,082</b>	<b>424</b>



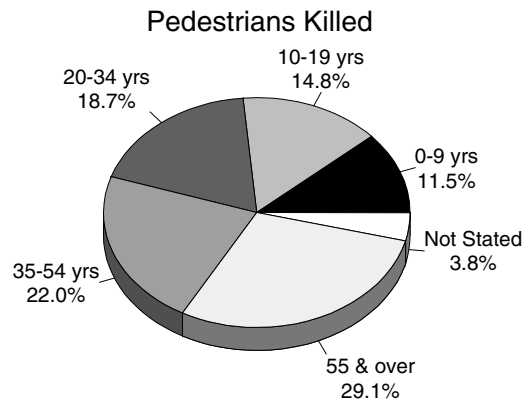
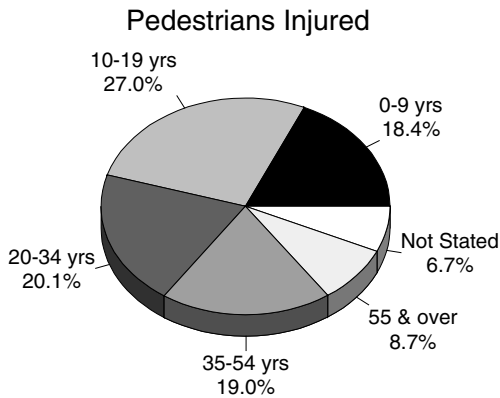
# MICHIGAN PEDESTRIAN CRASHES

## 1994 Pedestrian Crash Information



In 1994, there were 4,014 pedestrians involved in motor vehicles crashes, with 182 pedestrians killed and 3,502 injured. The number killed represents a 6.4 percent increase in fatalities from 1993.

Children under 15 years of age accounted for 31 (17.0%) of the pedestrian deaths in 1994. Adults over the age of 54 accounted for 53 (29.1%) of the pedestrian deaths in 1994.





## MICHIGAN SNOWMOBILE CRASHES

### MOST HARMFUL EVENT

### MOST SEVERE OUTCOME IN CRASH

	Snowmobiles		Fatal	Injury			PDO
	Number	% of Total		A	B	C	
<b>NONCOLLISION</b>							
Loss of control	12	2.6	0	2	4	6	0
Ran off road left	3	0.7	0	0	3	0	0
Re-enter road	2	0.4	0	0	0	1	1
Overturn	17	3.7	0	4	6	3	4
Separation of units	1	0.2	0	0	0	1	0
Individual fell off	28	6.1	1	7	11	9	0
Other noncollision	2	0.4	0	1	0	1	0
<b>NONCOLLISION Subtotal</b>	<b>65</b>	<b>14.1</b>	<b>1</b>	<b>14</b>	<b>24</b>	<b>21</b>	<b>5</b>

### HAD A COLLISION WITH NONFIXED OBJECT

Pedestrian	9	2.0	0	4	3	1	1
Motor vehicle in transport	143	31.1	4	38	23	27	51
Parked motor vehicle	21	4.6	1	6	2	3	9
Railway train	1	0.2	0	1	0	0	0
Animal	11	2.4	0	0	0	1	10
Other nonfixed objects	16	3.5	3	4	5	2	2
<b>COLLISION NONFIXED Subtotal</b>	<b>201</b>	<b>43.7</b>	<b>8</b>	<b>53</b>	<b>33</b>	<b>34</b>	<b>73</b>

### HAD A COLLISION WITH FIXED OBJECT

Bridge/pier/abutment	1	0.2	0	1	0	0	0
Traffic sign post	3	0.7	0	2	0	0	1
Signal post	1	0.2	0	0	0	0	1
Luminaire support	1	0.2	0	0	0	0	1
Utility pole	2	0.4	0	0	1	0	1
Other pole	7	1.5	0	1	1	1	4
Curb	1	0.2	0	1	0	0	0
Ditch	4	0.9	0	2	2	0	0
Embankment	8	1.7	0	1	3	3	1
Fence	4	0.9	0	1	0	2	1
Mailbox	1	0.2	0	0	0	1	0
Tree	77	16.7	2	44	11	10	10
Building	5	1.1	0	1	2	1	1
Fire hydrant	1	0.2	0	0	0	1	0
Other fixed object	19	4.1	0	5	6	3	5
<b>COLLISION FIXED Subtotal</b>	<b>135</b>	<b>29.3</b>	<b>2</b>	<b>59</b>	<b>26</b>	<b>22</b>	<b>26</b>

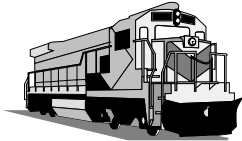
Unknown Event	59	12.8	0	10	8	14	27
<b>TOTAL MOST HARMFUL EVENT</b>	<b>460</b>	<b>100.0</b>	<b>11</b>	<b>136</b>	<b>91</b>	<b>91</b>	<b>131</b>

A total of 460 snowmobiles were reported in crashes on Michigan trafficways during 1994. 11 snowmobiles were involved in fatal crashes with 9 people killed.



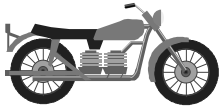
## MICHIGAN FARM EQUIPMENT CRASHES

A total of 337 crashes involving farm equipment were reported on Michigan roadways during 1994. Of these crashes, 3 were fatal crashes with 1 driver and 1 passenger of the farm equipment killed.



## MICHIGAN VEHICLE - TRAIN CRASHES

According to Michigan Department of Transportation figures, a total of 147 crashes involving trains were reported in Michigan during 1994. The National Highway Traffic Safety Administration's 1994 Fatal Accident Reporting System [12] reported 14 fatal train crashes in Michigan. 16 persons were killed as a result of those collisions.

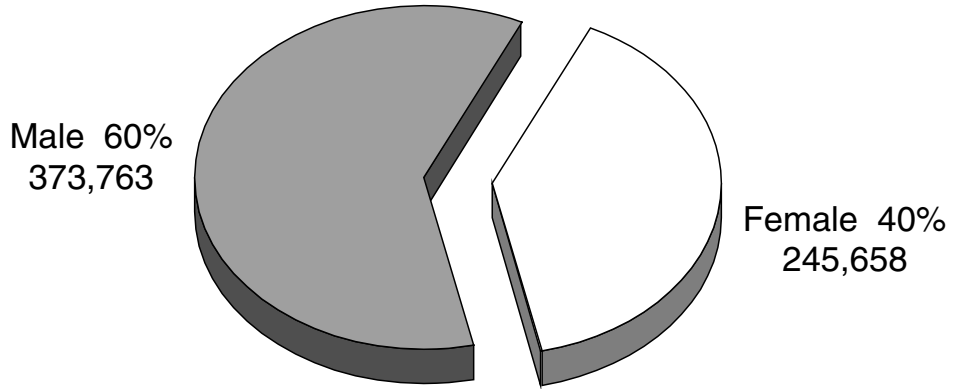


## MOTORCYCLE AND MOTOR SCOOTER DATA

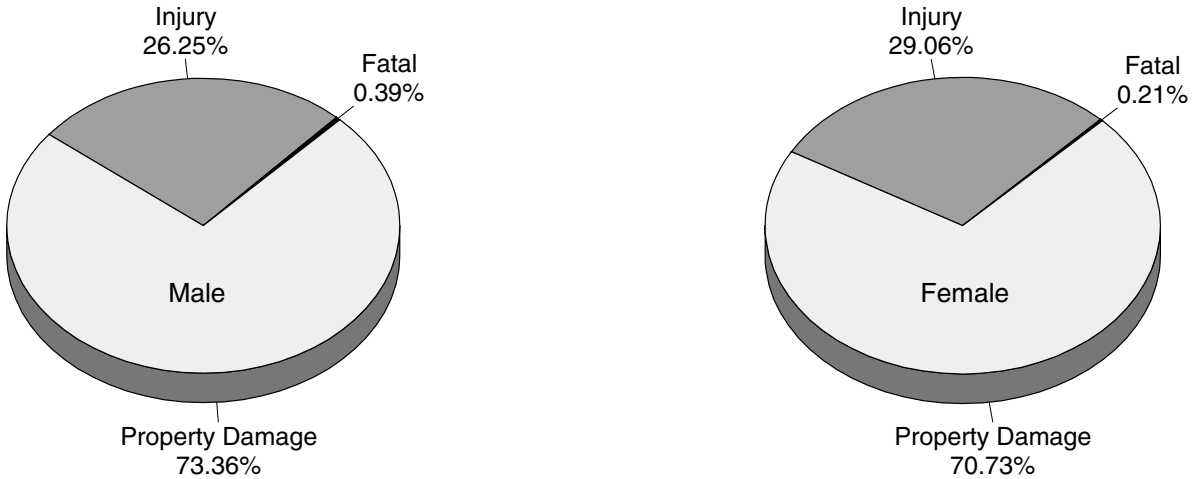
MOTORCYCLE & MOTOR SCOOTER DATA	1993	1994	% Change
Registrations	119,845.0	124,896.0	4.2
Crashes	2,768.0	2,982.0	7.7
Deaths	58.0	67.0	15.5
Persons Injured	2,508.0	2,598.0	3.6
Death Rate based on 10,000 cycle registrations	4.8	5.4	12.5
Estimated Mileage based on 3,000 miles per cycle (millions)	359,535.0	374,688.0	4.2
Death Rate based on deaths per 100 million vehicle miles traveled	16.1	17.9	11.2

Motorcycles were involved in 0.75 percent of all traffic crashes in Michigan in 1994. Injuries were proportionately more severe to motorcyclists than to persons in motor vehicles. The 1994 death rate for motorcyclists was 17.9 per 100 million vehicle miles traveled compared to the overall 1.7 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 twice as prevalent among male drivers than female drivers (0.4% vs. 0.2%).

This 1994 chart was processed with numbers for all drivers (vehicle level).

## DRIVER AGE

AGE OF DRIVERS IN FATAL CRASHES	1993	1994	% Change	% 1994 Fatal Crash Involvement	Percent Driving Population*
15 years and under	13	13	0.0	0.6	2.0
16 years	49	55	12.2	2.7	1.5
17 years	53	66	24.5	3.2	1.6
18 - 19 years	108	127	17.6	6.2	3.4
20 - 24 years	267	281	5.2	13.7	10.4
25 - 34 years	421	431	2.4	21.1	22.9
35 - 44 years	340	369	8.5	18.0	21.4
45 - 54 years	203	207	2.0	10.1	14.7
55 - 64 years	115	110	-4.3	5.4	9.8
65 - 74 years	97	112	15.5	5.5	8.0
75 years and over	106	105	-0.9	5.1	4.4
Not Stated	217	170	-21.7	8.3	---
<b>TOTALS</b>	<b>1,989</b>	<b>2,046</b>	<b>2.9</b>	<b>100.0</b>	<b>100.0</b>

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

