

## DRIVER AGE 65 & OVER

DRIVER ACTION PRIOR TO CRASH	All Crashes		Fatal Crashes		Injury Crashes	
	Number of Drivers	% of Total	Number	% of Total	Number	% of Total
Going straight ahead	20,092	48.8	116	62.4	4,580	49.1
Turning left	4,368	10.6	29	15.6	1,280	13.7
Turning right	1,447	3.5	2	1.1	210	2.3
Stopped on roadway	3,889	9.5	4	2.2	1,032	11.1
In prior crash	67	0.2	0	0.0	19	0.2
Changing lanes	1,160	2.8	1	0.5	107	1.1
Backing	1,356	3.3	2	1.1	51	0.5
Slowing/stopping on roadway	3,141	7.6	2	1.1	777	8.3
Slowing/stopping other	66	0.2	0	0.0	15	0.2
Starting up on roadway	1,041	2.5	11	5.9	279	3.0
Starting up other	44	0.1	0	0.0	15	0.2
Entering parking	75	0.2	0	0.0	11	0.1
Leaving parking	218	0.5	0	0.0	39	0.4
Entering roadway	1,103	2.7	9	4.8	240	2.6
Leaving roadway	77	0.2	2	1.1	23	0.2
Making U-turn	144	0.4	2	1.1	38	0.4
Overtaking or passing	315	0.8	1	0.5	41	0.4
Avoiding object	38	0.1	0	0.0	4	0.0
Avoiding animal	37	0.1	0	0.0	4	0.0
Avoiding pedestrian	11	0.0	2	1.1	3	0.0
Avoiding vehicle (front/back)	234	0.6	1	0.5	58	0.6
Avoiding vehicle (angle)	128	0.3	1	0.5	40	0.4
Driverless moving	9	0.0	0	0.0	2	0.0
Parked	198	0.5	0	0.0	15	0.2
Crossing at intersection	8	0.0	0	0.0	5	0.1
Crossing not at intersection	6	0.0	0	0.0	1	0.0
Getting on/off vehicle	0	0.0	0	0.0	0	0.0
In roadway with traffic	0	0.0	0	0.0	0	0.0
In roadway against traffic	1	0.0	0	0.0	0	0.0
Standing/lying in roadway	0	0.0	0	0.0	0	0.0
Pushing/working on vehicle	0	0.0	0	0.0	0	0.0
Other working in roadway	24	0.1	0	0.0	6	0.1
Playing in roadway	3	0.0	0	0.0	0	0.0
In roadway other reason	3	0.0	0	0.0	0	0.0
Not in roadway	16	0.0	0	0.0	2	0.0
Other	8	0.0	0	0.0	0	0.0
Unknown	1,813	4.4	1	0.5	425	4.6
<b>Total Drivers</b>	<b>41,140</b>	<b>100.0</b>	<b>186</b>	<b>100.0</b>	<b>9,322</b>	<b>100.0</b>

Compared to the other two age groups, elderly drivers are about three times more likely to be involved in a fatal crash when making a left turn.

## DRIVER AGE 65 & OVER (continued)

<b>MOST HARMFUL EVENT IN A NONCOLLISION</b>	All Crashes		Fatal Crashes		Injury Crashes	
	Number of Drivers	% of Total	Number	% of Total	Number	% of Total
Loss of control	115	0.3	0	0.0	30	0.3
Cross center/median	50	0.1	0	0.0	17	0.2
Ran off road left	56	0.1	0	0.0	11	0.1
Ran off road right	71	0.2	0	0.0	12	0.1
Re-enter road	5	0.0	0	0.0	0	0.0
Overturn	315	0.8	7	3.8	179	1.9
Separation of units	47	0.1	0	0.0	9	0.1
Fire/explosion	40	0.1	0	0.0	2	0.0
Immersion	3	0.0	0	0.0	2	0.0
Jackknife	20	0.0	0	0.0	5	0.1
Downhill runaway	145	0.4	0	0.0	32	0.3
Cargo loss/shift	33	0.1	0	0.0	2	0.0
Individual fell off	17	0.0	1	0.5	11	0.1
Other noncollision	103	0.3	0	0.0	22	0.2
<b>NONCOLLISION Subtotal</b>	<b>1,020</b>	<b>2.5</b>	<b>8</b>	<b>4.3</b>	<b>334</b>	<b>3.6</b>

<b>MOST HARMFUL EVENT IN A COLLISION WITH A NONFIXED OBJECT</b>	All Crashes		Fatal Crashes		Injury Crashes	
	Number of Drivers	% of Total	Number	% of Total	Number	% of Total
Pedestrian	168	0.4	11	5.9	135	1.4
Pedalcycle (Bicyclist)	177	0.4	3	1.6	144	1.5
Motor vehicle in transport	29,856	72.6	138	74.2	7,357	78.9
Parked motor vehicle	1,007	2.4	0	0.0	89	1.0
Railway train	31	0.1	1	0.5	8	0.1
Animal	3,833	9.3	2	1.1	68	0.7
Other nonfixed objects	355	0.9	1	0.5	25	0.3
<b>COLLISION NONFIXED Subtotal</b>	<b>35,427</b>	<b>86.1</b>	<b>156</b>	<b>83.9</b>	<b>7,826</b>	<b>84.0</b>

Motor vehicle in transport was by far the most problematic event in collisions with a nonfixed object for all crash types and age groups; however, it was most problematic for drivers age 65 and over.

## DRIVER AGE 65 & OVER (continued)

<b>MOST HARMFUL EVENT IN A COLLISION WITH A FIXED OBJECT</b>	All Crashes		Fatal Crashes		Injury Crashes	
	Number of Drivers	% of Total	Number	% of Total	Number	% of Total
Bridge/pier/abutment	28	0.1	2	1.1	7	0.1
Bridge parapet end	17	0.0	0	0.0	0	0.0
Bridge rail	25	0.1	0	0.0	6	0.1
Guardrail face	148	0.4	1	0.5	32	0.3
Guardrail end	33	0.1	0	0.0	13	0.1
Median barrier	121	0.3	0	0.0	40	0.4
Highway traffic sign post	138	0.3	0	0.0	8	0.1
Signal post	16	0.0	0	0.0	4	0.0
Luminaire/light support	39	0.1	0	0.0	10	0.1
Utility pole	187	0.5	3	1.6	63	0.7
Other pole	52	0.1	0	0.0	13	0.1
Culvert	40	0.1	0	0.0	21	0.2
Curb	79	0.2	0	0.0	12	0.1
Ditch	366	0.9	1	0.5	91	1.0
Embankment	73	0.2	1	0.5	20	0.2
Fence	74	0.2	0	0.0	14	0.2
Mailbox	104	0.3	0	0.0	11	0.1
Tree	577	1.4	11	5.9	209	2.2
Rail crossing signal	12	0.0	0	0.0	0	0.0
Building	78	0.2	2	1.1	37	0.4
Traffic island	6	0.0	0	0.0	0	0.0
Fire hydrant	24	0.1	0	0.0	9	0.1
Impact attenuator	2	0.0	0	0.0	1	0.0
Other fixed object	195	0.5	1	0.5	43	0.5
<b>COLLISION FIXED Subtotal</b>	<b>2,434</b>	<b>5.9</b>	<b>22</b>	<b>11.8</b>	<b>664</b>	<b>7.1</b>

	All Crashes		Fatal Crashes		Injury Crashes	
	Number of Drivers	% of Total	Number	% of Total	Number	% of Total
Unknown Event	2,259	5.5	0	0.0	498	5.3
<b>TOTAL MOST HARMFUL EVENT</b>	<b>41,140</b>	<b>100.0</b>	<b>186</b>	<b>100.0</b>	<b>9,322</b>	<b>100.0</b>

## DRIVER AGE 65 & OVER (continued)

CRASH TYPE	All Crashes		Fatal Crashes		Injury Crashes	
	Number of Drivers	% of Total	Number	% of Fatal	Number	% of Injury
Single Vehicle	7,201	17.5	45	24.2	1,077	11.6
Head On	663	1.6	28	15.1	325	3.5
Head On - Left Turn	1,783	4.3	17	9.1	712	7.6
Angle	12,744	31.0	79	42.5	3,433	36.8
Rear End	10,446	25.4	9	4.8	2,812	30.2
Rear End - Left Turn	531	1.3	1	0.5	137	1.5
Rear End - Right Turn	378	0.9	1	0.5	72	0.8
Sideswipe - Same Direction	4,407	10.7	1	0.5	336	3.6
Sideswipe - Opposite Direct	1,150	2.8	3	1.6	133	1.4
Other/Unknown	1,837	4.5	2	1.1	285	3.1
<b>Total Drivers</b>	<b>41,140</b>	<b>100.0</b>	<b>186</b>	<b>100.0</b>	<b>9,322</b>	<b>100.0</b>

Elderly drivers have the highest incidence of angle type crashes when compared to the other two age groups (16-24 and 25-64) in all crashes, fatal crashes, and injury crashes.

RELATIONSHIP TO ROADWAY (LOCATION OF FIRST IMPACT IN CRASH)	All Crashes		Fatal Crashes		Injury Crashes	
	Number of Drivers	% of Total	Number	% of Fatal	Number	% of Injury
On Road	36,341	88.3	157	84.4	8,138	87.3
Median	131	0.3	0	0.0	40	0.4
Shoulder	824	2.0	6	3.2	186	2.0
Outside of Shoulder/Curb	1,495	3.6	20	10.8	445	4.8
Gore	48	0.1	0	0.0	13	0.1
Other/Unknown	2,301	5.6	3	1.6	500	5.4
<b>Total Drivers</b>	<b>41,140</b>	<b>100.0</b>	<b>186</b>	<b>100.0</b>	<b>9,322</b>	<b>100.0</b>

ROADWAY TYPE IN CRASH	All Crashes		Fatal Crashes		Injury Crashes	
	Number of Drivers	% of Total	Number	% of Fatal	Number	% of Injury
Interstate Routes	3,039	7.4	12	6.5	702	7.5
U.S. & Michigan Roads	13,348	32.4	78	41.9	3,072	33.0
County & City Roads	24,753	60.2	96	51.6	5,548	59.5
<b>Total Drivers</b>	<b>41,140</b>	<b>100.0</b>	<b>186</b>	<b>100.0</b>	<b>9,322</b>	<b>100.0</b>

## DRIVER AGE 65 & OVER (continued)

TIME OF DAY IN CRASH	All Crashes		Fatal Crashes		Injury Crashes	
	Number of Drivers	% of Total	Number	% of Fatal	Number	% of Injury
12:00 mid. - 02:59 a.m.	430	1.0	2	1.1	70	0.8
03:00 a.m. - 05:59 a.m.	414	1.0	2	1.1	65	0.7
06:00 a.m. - 08:59 a.m.	3,271	8.0	15	8.1	686	7.4
09:00 a.m. - 11:59 a.m.	8,671	21.1	42	22.6	2,024	21.7
12:00 noon - 02:59 p.m.	11,121	27.0	53	28.5	2,727	29.3
03:00 p.m. - 05:59 p.m.	10,230	24.9	47	25.3	2,472	26.5
06:00 p.m. - 08:59 p.m.	4,951	12.0	18	9.7	946	10.1
09:00 p.m. - 11:59 p.m.	1,870	4.5	7	3.8	301	3.2
Unknown	182	0.4	0	0.0	31	0.3
<b>Total Drivers</b>	<b>41,140</b>	<b>100.0</b>	<b>186</b>	<b>100.0</b>	<b>9,322</b>	<b>100.0</b>

9:00 AM to 2:59 PM shows the highest involvement for elderly drivers in all crashes when compared to the other two age groups.

HAZARDOUS ACTION	All Crashes		Fatal Crashes		Injury Crashes		Hazardous Citation Issued	
	Number of Drivers	% of Total	Number	% of Fatal	Number	% of Injury	Number	% of Issued
None	18,928	46.0	50	26.9	3,840	41.2	34	0.4
Speed too fast	1,294	3.1	13	7.0	334	3.6	253	3.0
Speed too slow	48	0.1	0	0.0	7	0.1	10	0.1
Failed to yield	6,733	16.4	55	29.6	1,856	19.9	3,306	39.7
Disregard traffic control	1,398	3.4	8	4.3	552	5.9	799	9.6
Drove wrong way	76	0.2	1	0.5	18	0.2	31	0.4
Drove left of center	274	0.7	13	7.0	103	1.1	82	1.0
Improper passing	230	0.6	1	0.5	27	0.3	84	1.0
Improper lane use	1,189	2.9	2	1.1	108	1.2	488	5.9
Improper turn	628	1.5	3	1.6	106	1.1	274	3.3
Improper/no signal	73	0.2	0	0.0	10	0.1	18	0.2
Improper backing	1,031	2.5	1	0.5	36	0.4	242	2.9
Unable to stop in assured clear distance	4,294	10.4	7	3.8	1,144	12.3	1,958	23.5
Reckless driving	32	0.1	0	0.0	14	0.2	17	0.2
Careless/Negligent driving	670	1.6	9	4.8	230	2.5	259	3.1
Other	1,572	3.8	13	7.0	352	3.8	308	3.7
Unknown	2,670	6.5	10	5.4	585	6.3	173	2.1
<b>Total Drivers</b>	<b>41,140</b>	<b>100.0</b>	<b>186</b>	<b>100.0</b>	<b>9,322</b>	<b>100.0</b>	<b>8,336</b>	<b>100.0</b>

Compared to the other two age groups, elderly drivers have the highest incidence of failed to yield, disregard of traffic control, improper lane use, improper turn, and improper backing as a hazardous action in all crashes. In fatal crashes, elderly drivers have a significantly higher incidence of failed to yield as a hazardous action.

## DRIVER AGE 65 & OVER (continued)

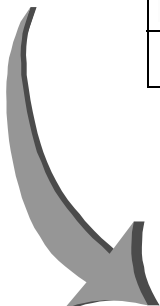
DAY OF WEEK IN CRASH	All Crashes		Fatal Crashes		Injury Crashes	
	Number of Drivers	% of Total	Number	% of Fatal	Number	% of Injury
Sunday	3,637	8.8	22	11.8	839	9.0
Monday	6,075	14.8	30	16.1	1,369	14.7
Tuesday	6,291	15.3	28	15.1	1,449	15.5
Wednesday	6,741	16.4	25	13.4	1,509	16.2
Thursday	6,541	15.9	34	18.3	1,425	15.3
Friday	7,079	17.2	32	17.2	1,602	17.2
Saturday	4,776	11.6	15	8.1	1,129	12.1
Total Drivers	41,140	100.0	186	100.0	9,322	100.0

DRIVER GENDER IN CRASH	All Crashes		Fatal Crashes		Injury Crashes	
	Number of Drivers	% of Total	Number	% of Fatal	Number	% of Injury
Male	24,068	58.5	123	66.1	5,227	56.1
Female	17,034	41.4	63	33.9	4,088	43.9
Unknown	38	0.1	0	0.0	7	0.1
Total Drivers	41,140	100.0	186	100.0	9,322	100.0

OCCUPANTS IN MOTOR VEHICLE	All Crashes		Fatal Crashes		Injury Crashes	
	Number of Drivers	% of Total	Number	% of Fatal	Number	% of Injury
1 occupant	30,033	73.0	132	71.0	6,489	69.6
2 occupants	8,530	20.7	49	26.3	2,187	23.5
3 occupants	992	2.4	3	1.6	290	3.1
4 occupants	352	0.9	0	0.0	93	1.0
5 occupants	83	0.2	0	0.0	20	0.2
6 + occupants	115	0.3	1	0.5	25	0.3
0 occupants	206	0.5	0	0.0	24	0.3
Unknown	829	2.0	1	0.5	194	2.1
Total Drivers	41,140	100.0	186	100.0	9,322	100.0

## DRIVER AGE 65 & OVER (continued)

VEHICLE TYPE CRASH INVOLVEMENT	All Crashes		Fatal Crashes		Injury Crashes	
	Number of Drivers	% of Total	Number	% of Fatal	Number	% of Injury
Passenger Car and Station Wagon	31,353	76.2	137	73.7	7,205	77.3
Van and Motorhome	3,434	8.3	17	9.1	773	8.3
Pickup	4,685	11.4	19	10.2	944	10.1
Small Truck (under 10,000 lbs.)	1,004	2.4	4	2.2	210	2.3
Motorcycle	106	0.3	8	4.3	80	0.9
Moped	12	0.0	0	0.0	12	0.1
Go Cart	0	0.0	0	0.0	0	0.0
Snowmobile	4	0.0	0	0.0	3	0.0
Off Road Vehicle	1	0.0	0	0.0	1	0.0
Other	64	0.2	0	0.0	18	0.2
Unknown	81	0.2	0	0.0	16	0.2
CDL Truck/Bus (breakdown below)	396	1.0	1	0.5	60	0.6
<b>Total Number of Drivers</b>	<b>41,140</b>	<b>100.0</b>	<b>186</b>	<b>100.0</b>	<b>9,322</b>	<b>100.0</b>



CDL Truck/Bus Sub-category Types	All Crashes		Fatal Crashes		Injury Crashes	
	Number of Drivers	% of Total	Number	% of Fatal	Number	% of Injury
Commercial Vehicle: Group A	181	45.7	1	100.0	32	53.3
Commercial Vehicle: Group B	90	22.7	0	0.0	11	18.3
Commercial Vehicle: Group C	33	8.3	0	0.0	6	10.0
Other Truck	5	1.3	0	0.0	0	0.0
Unknown Truck	87	22.0	0	0.0	11	18.3
<b>Total Number of Drivers</b>	<b>396</b>	<b>100.0</b>	<b>1</b>	<b>100.0</b>	<b>60</b>	<b>100.0</b>

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.