

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	20,849	48.3	136	67.7	4,784	48.6
Turning left	4,771	11.1	30	14.9	1,383	14.1
Turning right	1,528	3.5	2	1.0	215	2.2
Stopped on roadway	4,272	9.9	6	3.0	1,127	11.5
In prior crash	54	0.1	0	0.0	14	0.1
Changing lanes	1,293	3.0	3	1.5	137	1.4
Backing	1,368	3.2	0	0.0	62	0.6
Slowing/stopping on roadway	3,417	7.9	2	1.0	854	8.7
Slowing/stopping other	57	0.1	0	0.0	7	0.1
Starting up on roadway	1,158	2.7	6	3.0	313	3.2
Starting up other	42	0.1	0	0.0	7	0.1
Entering parking	111	0.3	0	0.0	12	0.1
Leaving parking	217	0.5	0	0.0	36	0.4
Entering roadway	1,127	2.6	8	4.0	214	2.2
Leaving roadway	79	0.2	1	0.5	26	0.3
Making U-turn	139	0.3	1	0.5	26	0.3
Overtaking or passing	265	0.6	3	1.5	40	0.4
Avoiding object	33	0.1	0	0.0	8	0.1
Avoiding animal	38	0.1	0	0.0	2	0.0
Avoiding pedestrian	14	0.0	0	0.0	5	0.1
Avoiding vehicle (front/back)	245	0.6	1	0.5	72	0.7
Avoiding vehicle (angle)	115	0.3	1	0.5	32	0.3
Driverless moving	4	0.0	0	0.0	1	0.0
Parked	191	0.4	1	0.5	16	0.2
Crossing at intersection	4	0.0	0	0.0	2	0.0
Crossing not at intersection	1	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	1	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	27	0.1	0	0.0	10	0.1
Playing in roadway	6	0.0	0	0.0	1	0.0
In roadway other reason	1	0.0	0	0.0	0	0.0
Not in roadway	12	0.0	0	0.0	7	0.1
Other	9	0.0	0	0.0	4	0.0
Unknown	1,692	3.9	0	0.0	420	4.3
Total Drivers	43,141	100.0	201	100.0	9,838	100.0

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)

MOST HARMFUL EVENT IN A NONCOLLISION	All Crashes		Fatal Crashes		Injury Crashes	
	Number of Drivers	% of Total	Number	% of Total	Number	% of Total
Loss of control	101	0.2	0	0.0	25	0.3
Cross center/median	51	0.1	0	0.0	14	0.1
Ran off road left	41	0.1	0	0.0	7	0.1
Ran off road right	66	0.2	0	0.0	16	0.2
Re-enter road	7	0.0	0	0.0	1	0.0
Overturn	310	0.7	4	2.0	160	1.6
Separation of units	213	0.5	2	1.0	30	0.3
Fire/explosion	42	0.1	1	0.5	3	0.0
Immersion	2	0.0	1	0.5	0	0.0
Jackknife	24	0.1	0	0.0	1	0.0
Downhill runaway	131	0.3	0	0.0	30	0.3
Cargo loss/shift	37	0.1	0	0.0	4	0.0
Individual fell off	13	0.0	0	0.0	9	0.1
Other noncollision	96	0.2	1	0.5	20	0.2
NONCOLLISION Subtotal	1,134	2.6	9	4.5	320	3.3

MOST HARMFUL EVENT IN A COLLISION WITH A NONFIXED OBJECT	All Crashes		Fatal Crashes		Injury Crashes	
	Number of Drivers	% of Total	Number	% of Total	Number	% of Total
Pedestrian	187	0.4	12	6.0	149	1.5
Pedalcycle (Bicyclist)	171	0.4	2	1.0	137	1.4
Motor vehicle in transport	31,397	71.4	150	74.6	7,815	79.4
Parked motor vehicle	1,073	2.4	0	0.0	104	1.1
Railway train	20	0.0	3	1.5	8	0.1
Animal	3,935	9.0	0	0.0	54	0.5
Other nonfixed objects	346	0.8	0	0.0	25	0.3
COLLISION NONFIXED Subtotal	37,129	86.1	167	83.1	8,292	84.3

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)

MOST HARMFUL EVENT IN A COLLISION WITH A FIXED OBJECT	All Crashes		Fatal Crashes		Injury Crashes	
	Number of Drivers	% of Total	Number	% of Total	Number	% of Total
Bridge/pier/abutment	23	0.1	1	0.5	5	0.1
Bridge parapet end	9	0.0	0	0.0	0	0.0
Bridge rail	16	0.0	0	0.0	4	0.0
Guardrail face	125	0.3	0	0.0	21	0.2
Guardrail end	24	0.1	0	0.0	12	0.1
Median barrier	87	0.2	2	1.0	30	0.3
Highway traffic sign post	129	0.3	0	0.0	5	0.1
Signal post	17	0.0	0	0.0	1	0.0
Luminaire/light support	35	0.1	0	0.0	11	0.1
Utility pole	155	0.4	2	1.0	58	0.6
Other pole	63	0.1	0	0.0	14	0.1
Culvert	32	0.1	0	0.0	22	0.2
Curb	68	0.2	0	0.0	10	0.1
Ditch	339	0.8	2	1.0	86	0.9
Embankment	73	0.2	0	0.0	26	0.3
Fence	57	0.1	0	0.0	12	0.1
Mailbox	118	0.3	0	0.0	12	0.1
Tree	538	1.2	11	5.5	231	2.3
Rail crossing signal	7	0.0	0	0.0	0	0.0
Building	53	0.1	2	1.0	21	0.2
Traffic island	5	0.0	0	0.0	2	0.0
Fire hydrant	26	0.1	0	0.0	5	0.1
Impact attenuator	7	0.0	0	0.0	3	0.0
Other fixed object	200	0.5	4	2.0	30	0.3
COLLISION FIXED Subtotal	2,206	5.1	24	11.9	621	6.3

	All Crashes		Fatal Crashes		Injury Crashes	
	Number of Drivers	% of Total	Number	% of Total	Number	% of Total
Unknown Event	2,672	6.2	1	0.5	605	6.1
TOTAL MOST HARMFUL EVENT	43,141	100.0	201	100.0	9,838	100.0

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	7,026	16.3	39	19.4	953	9.7
Head On	634	1.5	32	15.9	301	3.1
Head On - Left Turn	2,008	4.7	18	9.0	814	8.3
Angle	13,433	31.1	75	37.3	3,637	37.0
Rear End	11,227	26.0	18	9.0	3,026	30.8
Rear End - Left Turn	551	1.3	1	0.5	175	1.8
Rear End - Right Turn	412	1.0	0	0.0	75	0.8
Sideswipe - Same Direction	4,697	10.9	2	1.0	348	3.5
Sideswipe - Opposite Direct	1,178	2.7	5	2.5	168	1.7
Other	1,872	4.3	11	5.5	322	3.3
Unknown	103	0.2	0	0.0	19	0.2
Total Drivers	43,141	100.0	201	100.0	9,838	100.0

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	38,912	90.2	169	84.1	8,753	89.0
Median	149	0.3	3	1.5	35	0.4
Shoulder	787	1.8	7	3.5	173	1.8
Outside of Shoulder/Curb	1,415	3.3	19	9.5	462	4.7
Gore	39	0.1	0	0.0	8	0.1
Other/Unknown	1,839	4.3	3	1.5	407	4.1
Total Drivers	43,141	100.0	201	100.0	9,838	100.0

ROADWAY TYPE IN CRASH	All Crashes		Fatal Crashes		Injury Crashes	
	Number of Drivers	% of Total	Number	% of Fatal	Number	% of Injury
Interstate Routes	3,153	7.3	12	6.0	719	7.3
U.S. & Michigan Roads	13,990	32.4	97	48.3	3,238	32.9
County & City Roads	25,998	60.3	92	45.8	5,881	59.8
Total Drivers	43,141	100.0	201	100.0	9,838	100.0

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.	422	1.0	4	2.0	69	0.7
03:00 a.m. - 05:59 a.m.	397	0.9	0	0.0	63	0.6
06:00 a.m. - 08:59 a.m.	3,278	7.6	13	6.5	660	6.7
09:00 a.m. - 11:59 a.m.	8,934	20.7	41	20.4	2,122	21.6
12:00 noon - 02:59 p.m.	11,593	26.9	56	27.9	2,829	28.8
03:00 p.m. - 05:59 p.m.	11,152	25.9	45	22.4	2,695	27.4
06:00 p.m. - 08:59 p.m.	5,084	11.8	30	14.9	1,007	10.2
09:00 p.m. - 11:59 p.m.	1,978	4.6	12	6.0	326	3.3
Unknown	303	0.7	0	0.0	67	0.7
Total Drivers	43,141	100.0	201	100.0	9,838	100.0

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	20,102	46.6	61	30.3	4,191	42.6	35	0.4
Speed too fast	1,263	2.9	9	4.5	311	3.2	281	3.2
Speed too slow	121	0.3	0	0.0	27	0.3	45	0.5
Failed to yield	7,236	16.8	55	27.4	1,995	20.3	3,583	41.1
Disregard traffic control	1,348	3.1	20	10.0	512	5.2	716	8.2
Drove wrong way	84	0.2	1	0.5	23	0.2	35	0.4
Drove left of center	302	0.7	9	4.5	102	1.0	88	1.0
Improper passing	214	0.5	2	1.0	17	0.2	72	0.8
Improper lane use	1,366	3.2	2	1.0	137	1.4	511	5.9
Improper turn	743	1.7	0	0.0	125	1.3	323	3.7
Improper/no signal	65	0.2	0	0.0	6	0.1	20	0.2
Improper backing	1,032	2.4	1	0.5	37	0.4	232	2.7
Unable to stop in assured clear distance	4,499	10.4	8	4.0	1,237	12.6	2,061	23.7
Reckless driving	33	0.1	1	0.5	9	0.1	9	0.1
Careless/Negligent driving	681	1.6	5	2.5	232	2.4	301	3.5
Other	1,487	3.4	9	4.5	331	3.4	282	3.2
Unknown	2,565	5.9	18	9.0	546	5.5	115	1.3
Total Drivers	43,141	100.0	201	100.0	9,838	100.0	8,709	100.0

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.

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	3,738	8.7	25	12.4	848	8.6
Monday	6,303	14.6	26	12.9	1,453	14.8
Tuesday	6,631	15.4	39	19.4	1,473	15.0
Wednesday	6,910	16.0	31	15.4	1,501	15.3
Thursday	6,626	15.4	25	12.4	1,535	15.6
Friday	7,831	18.2	35	17.4	1,831	18.6
Saturday	5,102	11.8	20	10.0	1,197	12.2
Total Drivers	43,141	100.0	201	100.0	9,838	100.0

DRIVER GENDER IN CRASH	All Crashes		Fatal Crashes		Injury Crashes	
	Number of Drivers	% of Total	Number	% of Fatal	Number	% of Injury
Male	25,353	58.8	134	66.7	5,618	57.1
Female	17,669	41.0	67	33.3	4,194	42.6
Unknown	119	0.3	0	0.0	26	0.3
Total Drivers	43,141	100.0	201	100.0	9,838	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	30,765	71.3	136	67.7	6,742	68.5
2 occupants	9,233	21.4	53	26.4	2,371	24.1
3 occupants	992	2.3	6	3.0	254	2.6
4 occupants	377	0.9	2	1.0	99	1.0
5 occupants	98	0.2	0	0.0	38	0.4
6 + occupants	218	0.5	2	1.0	55	0.6
0 occupants	737	1.7	1	0.5	139	1.4
Unknown	721	1.7	1	0.5	140	1.4
Total Drivers	43,141	100.0	201	100.0	9,838	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	32,766	76.0	148	73.6	7,576	77.0
Van and Motorhome	3,699	8.6	15	7.5	856	8.7
Pickup	5,040	11.7	27	13.4	1,001	10.2
Small Truck (under 10,000 lbs.)	859	2.0	2	1.0	210	2.1
Motorcycle	64	0.1	1	0.5	54	0.5
Moped	11	0.0	0	0.0	10	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	9	0.0	2	1.0	5	0.1
Other	90	0.2	1	0.5	24	0.2
Unknown	117	0.3	0	0.0	24	0.2
CDL Truck/Bus (breakdown below)	482	1.1	5	2.5	75	0.8
Total Number of Drivers	43,141	100.0	201	100.0	9,838	100.0

NOTES:

- 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.

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	222	46.1	2	40.0	34	45.3
Commercial Vehicle: Group B	117	24.3	2	40.0	23	30.7
Commercial Vehicle: Group C	34	7.1	0	0.0	4	5.3
Other Truck	23	4.8	0	0.0	2	2.7
Unknown Truck	86	17.8	1	20.0	12	16.0
Total Number of Drivers	482	100.0	5	100.0	75	100.0

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.

