



UPPER PENINSULA 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	1,079	61.1	2	33.3	155	51.3
Turning left	124	7.0	0	0.0	39	12.9
Turning right	46	2.6	1	16.7	2	0.7
Stopped on roadway	88	5.0	0	0.0	29	9.6
In prior crash	3	0.2	0	0.0	1	0.3
Changing lanes	34	1.9	0	0.0	3	1.0
Backing	90	5.1	1	16.7	3	1.0
Slowing/stopping on roadway	89	5.0	0	0.0	25	8.3
Slowing/stopping other	3	0.2	0	0.0	0	0.0
Starting up on roadway	51	2.9	0	0.0	11	3.6
Starting up other	1	0.1	0	0.0	0	0.0
Entering parking	5	0.3	0	0.0	0	0.0
Leaving parking	11	0.6	0	0.0	2	0.7
Entering roadway	47	2.7	1	16.7	16	5.3
Leaving roadway	3	0.2	0	0.0	0	0.0
Making U-turn	6	0.3	1	16.7	0	0.0
Overtaking or passing	16	0.9	0	0.0	2	0.7
Avoiding object	4	0.2	0	0.0	0	0.0
Avoiding animal	7	0.4	0	0.0	1	0.3
Avoiding pedestrian	0	0.0	0	0.0	0	0.0
Avoiding vehicle (front/back)	10	0.6	0	0.0	4	1.3
Avoiding vehicle (angle)	1	0.1	0	0.0	0	0.0
Driverless moving	0	0.0	0	0.0	0	0.0
Parked	3	0.2	0	0.0	0	0.0
Crossing at intersection	0	0.0	0	0.0	0	0.0
Crossing not at intersection	0	0.0	0	0.0	0	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	0	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	2	0.1	0	0.0	0	0.0
Playing in roadway	0	0.0	0	0.0	0	0.0
In roadway other reason	0	0.0	0	0.0	0	0.0
Not in roadway	0	0.0	0	0.0	0	0.0
Other	1	0.1	0	0.0	0	0.0
Unknown	42	2.4	0	0.0	9	3.0
Total Drivers	1,766	100.0	6	100.0	302	100.0



UPPER PENINSULA 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	7	0.4	0	0.0	3	1.0
Cross center/median	3	0.2	0	0.0	1	0.3
Ran off road left	3	0.2	0	0.0	1	0.3
Ran off road right	2	0.1	0	0.0	0	0.0
Re-enter road	0	0.0	0	0.0	0	0.0
Overturn	36	2.0	0	0.0	13	4.3
Separation of units	1	0.1	0	0.0	0	0.0
Fire/explosion	1	0.1	0	0.0	0	0.0
Immersion	0	0.0	0	0.0	0	0.0
Jackknife	2	0.1	0	0.0	1	0.3
Downhill runaway	3	0.2	0	0.0	1	0.3
Cargo loss/shift	2	0.1	0	0.0	0	0.0
Individual fell off	2	0.1	1	16.7	1	0.3
Other noncollision	5	0.3	0	0.0	0	0.0
NONCOLLISION Subtotal	67	3.8	1	16.7	21	7.0

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	6	0.3	0	0.0	4	1.3
Pedalcycle (Bicyclist)	6	0.3	0	0.0	6	2.0
Motor vehicle in transport	884	50.1	5	83.3	221	73.2
Parked motor vehicle	74	4.2	0	0.0	3	1.0
Railway train	3	0.2	0	0.0	0	0.0
Animal	501	28.4	0	0.0	6	2.0
Other nonfixed objects	12	0.7	0	0.0	0	0.0
COLLISION NONFIXED Subtotal	1,486	84.1	5	83.3	240	79.5



UPPER PENINSULA 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	0	0.0	0	0.0	0	0.0
Bridge parapet end	0	0.0	0	0.0	0	0.0
Bridge rail	1	0.1	0	0.0	0	0.0
Guardrail face	8	0.5	0	0.0	0	0.0
Guardrail end	1	0.1	0	0.0	0	0.0
Median barrier	1	0.1	0	0.0	1	0.3
Highway traffic sign post	13	0.7	0	0.0	1	0.3
Signal post	0	0.0	0	0.0	0	0.0
Luminaire/light support	1	0.1	0	0.0	0	0.0
Utility pole	12	0.7	0	0.0	4	1.3
Other pole	4	0.2	0	0.0	0	0.0
Culvert	3	0.2	0	0.0	0	0.0
Curb	0	0.0	0	0.0	0	0.0
Ditch	18	1.0	0	0.0	4	1.3
Embankment	9	0.5	0	0.0	3	1.0
Fence	1	0.1	0	0.0	0	0.0
Mailbox	5	0.3	0	0.0	0	0.0
Tree	45	2.5	0	0.0	12	4.0
Rail crossing signal	2	0.1	0	0.0	0	0.0
Building	1	0.1	0	0.0	1	0.3
Traffic island	0	0.0	0	0.0	0	0.0
Fire hydrant	2	0.1	0	0.0	2	0.7
Impact attenuator	0	0.0	0	0.0	0	0.0
Other fixed object	9	0.5	0	0.0	1	0.3
COLLISION FIXED Subtotal	136	7.7	0	0.0	29	9.6

	All Crashes		Fatal Crashes		Injury Crashes	
	Number of Drivers	% of Total	Number	% of Total	Number	% of Total
Unknown Event	77	4.4	0	0.0	12	4.0
TOTAL MOST HARMFUL EVENT	1,766	100.0	6	100.0	302	100.0



UPPER PENINSULA 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	742	42.0	1	16.7	57	18.9
Head On	25	1.4	1	16.7	18	6.0
Head On - Left Turn	42	2.4	0	0.0	24	7.9
Angle	450	25.5	4	66.7	106	35.1
Rear End	205	11.6	0	0.0	62	20.5
Rear End - Left Turn	22	1.2	0	0.0	6	2.0
Rear End - Right Turn	14	0.8	0	0.0	2	0.7
Sideswipe - Same Direction	133	7.5	0	0.0	10	3.3
Sideswipe - Opposite Direct	54	3.1	0	0.0	10	3.3
Other/Unknown	79	4.5	0	0.0	7	2.3
Total Drivers	1,766	100.0	6	100.0	302	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	1,475	83.5	6	100.0	245	81.1
Median	2	0.1	0	0.0	1	0.3
Shoulder	68	3.9	0	0.0	13	4.3
Outside of Shoulder/Curb	106	6.0	0	0.0	31	10.3
Gore	4	0.2	0	0.0	0	0.0
Other/Unknown	111	6.3	0	0.0	12	4.0
Total Drivers	1,766	100.0	6	100.0	302	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	71	4.0	0	0.0	12	4.0
U.S. & Michigan Roads	1,027	58.2	5	83.3	196	64.9
County & City Roads	668	37.8	1	16.7	94	31.1
Total Drivers	1,766	100.0	6	100.0	302	100.0



UPPER PENINSULA 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.	20	1.1	0	0.0	1	0.3
03:00 a.m. - 05:59 a.m.	24	1.4	0	0.0	2	0.7
06:00 a.m. - 08:59 a.m.	128	7.2	1	16.7	19	6.3
09:00 a.m. - 11:59 a.m.	386	21.9	1	16.7	69	22.8
12:00 noon - 02:59 p.m.	404	22.9	3	50.0	80	26.5
03:00 p.m. - 05:59 p.m.	394	22.3	1	16.7	94	31.1
06:00 p.m. - 08:59 p.m.	264	14.9	0	0.0	27	8.9
09:00 p.m. - 11:59 p.m.	130	7.4	0	0.0	8	2.6
Unknown	16	0.9	0	0.0	2	0.7
Total Drivers	1,766	100.0	6	100.0	302	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	973	55.1	3	50.0	119	39.4	1	0.6
Speed too fast	89	5.0	0	0.0	15	5.0	15	9.1
Speed too slow	3	0.2	0	0.0	0	0.0	1	0.6
Failed to yield	269	15.2	1	16.7	77	25.5	90	54.5
Disregard traffic control	26	1.5	0	0.0	10	3.3	10	6.1
Drove wrong way	2	0.1	0	0.0	1	0.3	0	0.0
Drove left of center	11	0.6	0	0.0	5	1.7	4	2.4
Improper passing	7	0.4	0	0.0	1	0.3	2	1.2
Improper lane use	32	1.8	0	0.0	4	1.3	6	3.6
Improper turn	20	1.1	1	16.7	4	1.3	4	2.4
Improper/no signal	4	0.2	0	0.0	0	0.0	0	0.0
Improper backing	69	3.9	0	0.0	2	0.7	2	1.2
Unable to stop in assured clear distance	96	5.4	0	0.0	27	8.9	13	7.9
Reckless driving	1	0.1	0	0.0	1	0.3	1	0.6
Careless/Negligent driving	39	2.2	1	16.7	14	4.6	9	5.5
Other	53	3.0	0	0.0	10	3.3	5	3.0
Unknown	72	4.1	0	0.0	12	4.0	2	1.2
Total Drivers	1,766	100.0	6	100.0	302	100.0	165	100.0

Compared to the other two age groups, elderly drivers have the highest incidence of failed to yield, improper lane use, and improper backing as a hazardous action in all crashes.



UPPER PENINSULA 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	183	10.4	2	33.3	23	7.6
Monday	258	14.6	1	16.7	53	17.5
Tuesday	234	13.3	0	0.0	42	13.9
Wednesday	281	15.9	1	16.7	55	18.2
Thursday	268	15.2	2	33.3	41	13.6
Friday	306	17.3	0	0.0	52	17.2
Saturday	236	13.4	0	0.0	36	11.9
Total Drivers	1,766	100.0	6	100.0	302	100.0

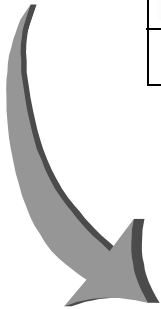
DRIVER GENDER IN CRASH	All Crashes		Fatal Crashes		Injury Crashes	
	Number of Drivers	% of Total	Number	% of Fatal	Number	% of Injury
Male	1,126	63.8	3	50.0	174	57.6
Female	638	36.1	3	50.0	128	42.4
Unknown	2	0.1	0	0.0	0	0.0
Total Drivers	1,766	100.0	6	100.0	302	100.0

OCCUPANTS IN MOTOR VEHICLE	All Crashes		Fatal Crashes		Injury Crashes	
	Number of Drivers	% of Total	Number	% of Fatal	Number	% of Injury
1 occupant	1,191	67.4	3	50.0	204	67.5
2 occupants	458	25.9	3	50.0	77	25.5
3 occupants	54	3.1	0	0.0	12	4.0
4 occupants	33	1.9	0	0.0	6	2.0
5 occupants	2	0.1	0	0.0	0	0.0
6 + occupants	4	0.2	0	0.0	1	0.3
0 occupants	3	0.2	0	0.0	0	0.0
Unknown	21	1.2	0	0.0	2	0.7
Total Drivers	1,766	100.0	6	100.0	302	100.0



UPPER PENINSULA 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	1,219	69.0	3	50.0	231	76.5
Van and Motorhome	129	7.3	1	16.7	17	5.6
Pickup	345	19.5	1	16.7	45	14.9
Small Truck (under 10,000 lbs.)	51	2.9	1	16.7	4	1.3
Motorcycle	2	0.1	0	0.0	2	0.7
Moped	0	0.0	0	0.0	0	0.0
Go Cart	0	0.0	0	0.0	0	0.0
Snowmobile	3	0.2	0	0.0	2	0.7
Off Road Vehicle	0	0.0	0	0.0	0	0.0
Other	2	0.1	0	0.0	0	0.0
Unknown	1	0.1	0	0.0	0	0.0
CDL Truck/Bus (breakdown below)	14	0.8	0	0.0	1	0.3
Total Number of Drivers	1,766	100.0	6	100.0	302	100.0



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	7	50.0	0	0.0	0	0.0
Commercial Vehicle: Group B	4	28.6	0	0.0	1	100.0
Commercial Vehicle: Group C	0	0.0	0	0.0	0	0.0
Other Truck	0	0.0	0	0.0	0	0.0
Unknown Truck	3	21.4	0	0.0	0	0.0
Total Number of Drivers	14	100.0	0	100.0	1	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.