

## AGE AND INJURY SEVERITY BY PERSON TYPE

AGE	DRIVER			INJURED PASSENGER			MOTORCYCLIST			BICYCLIST			PEDESTRIAN		
	Total	Killed	Injured	Total	Killed	Injured	Total	Killed	Injured	Total	Killed	Injured	Total	Killed	Injured
0	33	0	2	216	4	212	0	0	0	13	0	7	29	0	18
1	17	0	1	223	2	221	0	0	0	0	0	0	10	1	6
2	2	0	0	239	1	238	0	0	0	1	0	0	13	0	13
3	3	0	0	248	1	247	0	0	0	3	0	3	21	0	19
4	1	0	0	233	3	230	0	0	0	4	0	2	15	1	13
5	0	0	0	276	1	275	0	0	0	5	0	5	13	0	11
6	9	0	2	284	3	281	1	0	1	11	0	11	20	0	19
7	12	0	4	265	0	265	0	0	0	4	0	4	20	2	13
8	1	0	0	311	0	311	1	0	1	12	0	10	19	0	18
9	6	0	4	303	0	303	2	0	1	22	0	21	22	1	17
10	3	0	1	308	1	307	2	0	1	17	0	14	15	1	13
11	6	0	4	334	1	333	3	0	3	20	0	14	31	2	24
12	16	0	9	294	0	294	0	0	0	32	0	31	36	0	31
13	41	0	13	349	1	348	6	0	5	40	0	35	37	3	28
14	112	0	29	392	2	390	5	0	3	71	0	57	50	1	41
15	592	1	98	487	6	481	3	0	3	62	0	54	48	0	44
16	7,972	3	815	550	6	544	5	0	4	63	0	49	38	0	33
17	10,637	2	1,118	670	4	666	10	0	10	52	0	39	57	0	54
18	13,104	7	1,539	589	4	585	30	0	23	50	1	41	45	0	39
19	13,475	17	1,599	553	2	551	60	1	36	51	0	44	61	4	52
20	13,419	16	1,526	455	5	450	83	1	59	55	1	42	63	1	58
21	13,145	25	1,628	456	4	452	81	2	61	35	1	26	49	0	43
22	13,020	20	1,494	438	7	431	81	6	61	39	0	32	51	1	46
23	13,046	15	1,499	389	7	382	95	4	68	35	0	31	47	2	42
24	12,500	15	1,436	365	2	363	68	2	47	27	0	25	47	0	39
25	12,539	13	1,498	343	3	340	83	2	61	27	1	21	50	2	45
26	12,359	21	1,411	332	4	328	82	6	56	30	0	21	48	2	39
27	11,888	20	1,373	348	4	344	88	7	65	20	0	16	30	0	28
28	10,824	16	1,232	287	1	286	72	5	49	31	0	27	39	1	34
29	10,144	20	1,153	249	3	246	59	7	40	28	0	24	43	3	36
30	9,799	14	1,139	247	3	244	59	1	44	24	0	21	40	2	36
31	9,231	7	1,029	222	1	221	49	0	34	22	0	18	39	1	32
32	9,126	11	1,034	236	4	232	50	2	32	23	0	17	36	6	26
33	8,697	10	980	194	2	192	50	3	35	14	0	10	44	5	32
34	8,700	14	942	212	0	212	48	2	35	26	0	19	21	2	15
35	8,448	15	991	176	2	174	50	4	35	23	0	17	35	1	29
36	8,463	4	954	196	0	196	53	2	36	19	0	16	36	2	32
37	8,355	8	969	184	1	183	68	4	48	13	0	12	26	3	21

\*Driver age is calculated from birth date, and invalid date of birth entry errors result in age "0" drivers.

## AGE AND INJURY SEVERITY BY PERSON TYPE (CONTINUED)

AGE	DRIVER			INJURED PASSENGER			MOTORCYCLIST			BICYCLIST			PEDESTRIAN		
	Total	Killed	Injured	Total	Killed	Injured	Total	Killed	Injured	Total	Killed	Injured	Total	Killed	Injured
38	8,085	11	909	157	0	157	60	2	45	12	0	8	26	4	18
39	7,797	7	855	172	3	169	47	3	36	25	1	22	16	2	11
40	7,558	9	849	174	3	171	44	1	32	14	1	12	35	4	28
41	7,301	7	761	166	4	162	46	1	29	16	0	13	21	2	16
42	7,311	9	787	149	2	147	47	1	34	10	0	8	28	0	26
43	7,273	10	776	139	0	139	62	1	48	15	0	13	21	2	17
44	7,304	8	816	147	2	145	44	3	35	8	0	5	24	1	20
45	7,891	9	896	154	2	152	66	3	45	18	0	16	23	3	17
46	8,454	11	958	181	1	180	86	2	59	14	0	14	32	2	27
47	8,302	10	914	167	1	166	65	2	46	21	0	17	26	4	20
48	7,958	6	896	168	0	168	67	0	49	17	0	13	25	3	17
49	7,556	9	873	178	0	178	45	2	29	25	0	22	27	2	21
50	7,596	7	827	160	3	157	74	2	53	18	0	16	34	0	31
51	7,457	11	846	192	3	189	66	1	47	27	1	23	25	3	20
52	7,714	13	867	152	3	149	69	2	47	25	0	22	45	4	34
53	7,989	13	908	183	1	182	65	5	46	27	2	23	33	9	19
54	7,934	3	958	174	2	172	77	1	54	35	1	30	38	5	30
55	7,842	9	896	196	1	195	81	4	53	34	2	27	47	4	40
56	7,719	9	875	162	3	159	59	4	37	28	0	27	29	3	23
57	7,438	13	852	163	1	162	64	3	49	22	1	19	41	3	31
58	7,275	3	806	158	1	157	66	3	44	20	0	18	42	5	34
59	7,137	12	816	158	0	158	56	2	42	27	0	25	29	2	27
60	6,801	11	803	144	1	143	43	2	29	13	0	8	30	3	24
61	6,338	9	704	163	2	161	47	3	35	19	0	18	29	2	25
62	5,911	7	637	131	0	131	49	2	37	11	1	7	26	2	20
63	5,533	12	624	149	3	146	51	2	37	17	0	17	26	4	19
64	5,059	7	556	138	4	134	32	3	22	7	1	4	20	3	14
65	4,916	5	604	129	1	128	30	1	23	14	2	9	19	1	15
66	4,455	1	512	142	1	141	29	1	19	11	0	10	16	1	11
67	4,218	7	478	126	0	126	36	1	24	12	0	8	22	1	18
68	4,048	5	505	106	2	104	15	0	7	8	0	8	17	1	16
69	3,851	9	468	122	2	120	28	4	19	7	0	5	14	2	11
70	3,835	7	435	113	3	110	21	3	11	6	0	6	14	0	12
71	2,892	6	333	84	1	83	11	1	8	5	0	5	9	1	8
72	2,672	7	312	83	2	81	14	1	10	6	0	3	13	1	12
73	2,552	8	311	93	2	91	9	0	7	5	1	4	11	1	8
74	2,622	4	332	83	1	82	13	2	8	3	0	3	10	2	7
75	2,281	5	278	72	2	70	12	0	10	4	0	3	9	1	7
76	1,909	6	243	74	2	72	4	1	3	2	1	1	7	0	7

## AGE AND INJURY SEVERITY BY PERSON TYPE (CONTINUED)

AGE	DRIVER			INJURED PASSENGER			MOTORCYCLIST			BICYCLIST			PEDESTRIAN		
	Total	Killed	Injured	Total	Killed	Injured	Total	Killed	Injured	Total	Killed	Injured	Total	Killed	Injured
77	1,670	5	221	46	2	44	3	1	2	3	1	2	14	4	8
78	1,564	5	214	63	1	62	2	0	1	5	0	4	7	3	4
79	1,477	1	191	53	0	53	2	0	1	2	0	2	4	0	4
80	1,223	4	177	68	4	64	1	0	1	0	0	0	4	1	3
81	1,151	1	151	61	0	61	1	0	1	2	0	2	4	1	3
82	1,100	9	140	51	1	50	2	0	1	0	0	0	5	0	4
83	916	2	134	41	0	41	0	0	0	1	0	0	1	0	1
84	796	3	112	52	2	50	1	0	1	0	0	0	2	1	1
85	732	6	96	46	1	45	1	0	1	0	0	0	3	1	2
86	678	2	95	42	1	41	1	0	1	1	0	1	3	0	2
87	553	5	77	30	1	29	0	0	0	0	0	0	1	0	1
88	437	2	62	31	4	27	0	0	0	1	1	0	1	1	0
89	371	4	50	23	2	21	1	0	1	0	0	0	1	0	1
90	281	2	41	16	0	16	0	0	0	0	0	0	2	0	1
91	246	2	32	14	2	12	0	0	0	0	0	0	0	0	0
92	174	2	30	13	0	13	0	0	0	0	0	0	2	2	0
93	96	0	13	6	0	6	0	0	0	0	0	0	0	0	0
94	66	1	15	7	0	7	0	0	0	0	0	0	0	0	0
95	48	0	9	8	0	8	0	0	0	0	0	0	0	0	0
96	26	1	4	5	1	4	0	0	0	0	0	0	0	0	0
97	28	0	3	1	0	1	0	0	0	0	0	0	0	0	0
98	14	0	0	0	0	0	0	0	0	0	0	0	1	1	0
99	26	1	3	4	0	4	1	0	1	0	0	0	0	0	0
100	4	0	0	6	0	6	0	0	0	0	0	0	0	0	0
101	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0
102	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0
103	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
104	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106	3	0	0	2	0	2	0	0	0	0	0	0	0	0	0
107	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unknown	48,175	0	19	29	0	29	74	0	1	76	0	4	53	0	10
<b>TOTAL</b>	<b>540,387</b>	<b>667</b>	<b>56,491</b>	<b>18,777</b>	<b>182</b>	<b>18,595</b>	<b>3,237</b>	<b>137</b>	<b>2,238</b>	<b>1,723</b>	<b>21</b>	<b>1,363</b>	<b>2,411</b>	<b>158</b>	<b>1,945</b>
	*Includes 49,716 drivers with unknown injury severity and 433,513 with no injury			*No passengers in 2017 had an unknown injury severity			*Includes 75 motorcyclists with unknown injury severity and 787 with no injury			*Includes 85 bicyclists with unknown injury severity and 254 with no injury			*Includes 86 pedestrians with unknown injury severity and 222 with no injury		

# DRIVER AGE 16-20

DRIVER ACTION PRIOR TO CRASH	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Going straight ahead	33,953	57.9	93	78.2	7,671	61.2
Turning left	5,252	9.0	9	7.6	1,474	11.8
Turning right	1,892	3.2	0	0.0	276	2.2
Stopped on roadway	3,538	6.0	0	0.0	749	6.0
In prior crash	54	0.1	1	0.8	18	0.1
Changing lanes	2,006	3.4	0	0.0	253	2.0
Backing	949	1.6	1	0.8	33	0.3
Slowing/stopping on roadway	6,339	10.8	2	1.7	1,039	8.3
Slowing/stopping other	74	0.1	0	0.0	17	0.1
Starting up on roadway	1,212	2.1	1	0.8	277	2.2
Starting up other	21	0.0	0	0.0	4	0.0
Entering parking	28	0.0	0	0.0	3	0.0
Leaving parking	129	0.2	0	0.0	21	0.2
Entering roadway	784	1.3	1	0.8	178	1.4
Leaving roadway	69	0.1	0	0.0	17	0.1
Making U-turn	109	0.2	0	0.0	30	0.2
Overtaking or passing	410	0.7	2	1.7	93	0.7
Avoiding object	73	0.1	0	0.0	20	0.2
Avoiding pedestrian	9	0.0	1	0.8	3	0.0
Avoiding vehicle (front/back)	444	0.8	4	3.4	101	0.8
Avoiding vehicle (angle)	172	0.3	0	0.0	32	0.3
Driverless moving	4	0.0	0	0.0	2	0.0
Parked	171	0.3	1	0.8	23	0.2
Crossing at intersection	14	0.0	0	0.0	5	0.0
Crossing not at intersection	1	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	2	0.0	0	0.0	1	0.0
In roadway against traffic	3	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	1	0.0	0	0.0	1	0.0
Other working in roadway	0	0.0	0	0.0	0	0.0
Playing in roadway	0	0.0	0	0.0	0	0.0
In roadway other reason	3	0.0	0	0.0	1	0.0
Not in roadway	5	0.0	0	0.0	1	0.0
Other	74	0.1	0	0.0	15	0.1
Unknown	66	0.1	2	1.7	13	0.1
Avoiding animal	181	0.3	0	0.0	54	0.4
Negotiating a curve	543	0.9	1	0.8	111	0.9
Uncoded & Errors	22	0.0	0	0.0	3	0.0
<b>TOTAL</b>	<b>58,607</b>	<b>100.0</b>	<b>119</b>	<b>100.0</b>	<b>12,539</b>	<b>100.0</b>

## DRIVER AGE 16-20 (CONTINUED)

MOST HARMFUL EVENT IN A NONCOLLISION	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Loss of control	460	0.8	0	0.0	116	0.9
Cross center/median	56	0.1	1	0.8	19	0.2
Ran off road left	202	0.3	0	0.0	34	0.3
Ran off road right	312	0.5	0	0.0	56	0.4
Re-enter road	16	0.0	0	0.0	4	0.0
Overturn	1,430	2.4	8	6.7	651	5.2
Separation of units	27	0.0	0	0.0	6	0.0
Fire/explosion	39	0.1	1	0.8	6	0.0
Immersion	20	0.0	0	0.0	3	0.0
Jackknife	4	0.0	0	0.0	1	0.0
Downhill runaway	1	0.0	0	0.0	0	0.0
Cargo loss/shift	13	0.0	0	0.0	3	0.0
Individual fell off	44	0.1	0	0.0	40	0.3
Other noncollision	76	0.1	0	0.0	14	0.1
<b>SUBTOTAL</b>	<b>2,700</b>	<b>4.6</b>	<b>10</b>	<b>8.4</b>	<b>953</b>	<b>7.6</b>

For drivers age 16-20, an overturn is the most harmful event in a noncollision with the highest proportion of all crashes (2.4%), fatal crashes (6.7%), and injury crashes (5.2%).

MOST HARMFUL EVENT IN A COLLISION WITH A NONFIXED OBJECT	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Pedestrian	169	0.3	12	10.1	141	1.1
Bicyclist	100	0.2	0	0.0	87	0.7
Motor vehicle in transport	43,377	74.0	74	62.2	9,571	76.3
Parked motor vehicle	1,165	2.0	0	0.0	141	1.1
Railway train	2	0.0	1	0.8	1	0.0
Animal	3,353	5.7	1	0.8	59	0.5
Other nonfixed objects	263	0.4	2	1.7	26	0.2
<b>SUBTOTAL</b>	<b>48,429</b>	<b>82.6</b>	<b>90</b>	<b>75.6</b>	<b>10,026</b>	<b>80.0</b>

## DRIVER AGE 16-20 (CONTINUED)

MOST HARMFUL EVENT IN A COLLISION WITH A FIXED OBJECT	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Bridge/pier/abutment	40	0.1	1	0.8	11	0.1
Bridge rail	57	0.1	0	0.0	14	0.1
Guardrail face	496	0.8	0	0.0	67	0.5
Guardrail end	96	0.2	0	0.0	24	0.2
Median barrier	669	1.1	0	0.0	164	1.3
Highway traffic sign post	538	0.9	0	0.0	28	0.2
Highway signal post	14	0.0	0	0.0	4	0.0
Luminaire/light support	618	1.1	1	0.8	149	1.2
Other pole	203	0.3	1	0.8	38	0.3
Culvert	84	0.1	0	0.0	27	0.2
Curb	286	0.5	0	0.0	32	0.3
Ditch	1,195	2.0	1	0.8	239	1.9
Embankment	200	0.3	0	0.0	49	0.4
Fence	138	0.2	0	0.0	14	0.1
Mailbox	254	0.4	0	0.0	10	0.1
Tree	1,841	3.1	13	10.9	580	4.6
Rail crossing signal	7	0.0	0	0.0	2	0.0
Building	63	0.1	1	0.8	19	0.2
Traffic island	1	0.0	0	0.0	0	0.0
Fire hydrant	88	0.2	0	0.0	6	0.0
Impact attenuator	17	0.0	0	0.0	5	0.0
Other fixed object	263	0.4	1	0.8	48	0.4
<b>SUBTOTAL</b>	<b>7,168</b>	<b>12.2</b>	<b>19</b>	<b>16.0</b>	<b>1,530</b>	<b>12.2</b>

For drivers age 16-20, a tree is the fixed object associated with the highest proportion of all crashes (3.1%), fatal crashes (10.9%), and injury crashes (4.6%).

	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Uncoded & Errors	302	0.5	0	0.0	28	0.2
No event coded as most harmful	8	0.0	0	0.0	2	0.0
<b>TOTAL</b>	<b>58,607</b>	<b>100.0</b>	<b>119</b>	<b>100.0</b>	<b>12,539</b>	<b>100.0</b>

## DRIVER AGE 16-20 (CONTINUED)

CRASH TYPE	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Single Vehicle	12,984	22.2	33	27.7	2,469	19.7
Head On	732	1.2	14	11.8	351	2.8
Head On - Left Turn	2,173	3.7	5	4.2	886	7.1
Angle	11,147	19.0	37	31.1	3,246	25.9
Rear End	20,112	34.3	10	8.4	3,858	30.8
Rear End - Left Turn	862	1.5	1	0.8	252	2.0
Rear End - Right Turn	520	0.9	0	0.0	73	0.6
Sideswipe - Same Direction	6,004	10.2	5	4.2	591	4.7
Sideswipe - Opposite Direction	892	1.5	2	1.7	145	1.2
Backing	733	1.3	0	0.0	16	0.1
Other	2,326	4.0	11	9.2	623	5.0
Unknown	122	0.2	1	0.8	29	0.2
Uncoded & Errors	0	0.0	0	0.0	0	0.0
<b>TOTAL</b>	<b>58,607</b>	<b>100.0</b>	<b>119</b>	<b>100.0</b>	<b>12,539</b>	<b>100.0</b>

Based on crash type, drivers age 16-20 are involved in the largest proportion of rear end crashes for all crashes (34.3%) and injury crashes (30.8%). For fatal crashes, the largest proportion of drivers are involved in angle crashes (31.1%).

RELATIONSHIP TO ROADWAY (LOCATION OF FIRST IMPACT)	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
On Road	51,301	87.5	88	73.9	10,856	86.6
Median	540	0.9	0	0.0	113	0.9
Shoulder	1,975	3.4	7	5.9	433	3.5
Outside of Shoulder/Curb	4,232	7.2	20	16.8	1,037	8.3
Gore	152	0.3	2	1.7	38	0.3
On-Street Parking	212	0.4	0	0.0	10	0.1
Off the Roadway	13	0.0	0	0.0	5	0.0
On the Sidewalk	34	0.1	1	0.8	16	0.1
In the Bicycle Lane	7	0.0	0	0.0	2	0.0
Other/Unknown	124	0.2	1	0.8	24	0.2
Uncoded & Errors	17	0.0	0	0.0	5	0.0
<b>TOTAL</b>	<b>58,607</b>	<b>100.0</b>	<b>119</b>	<b>100.0</b>	<b>12,539</b>	<b>100.0</b>

Other than on the road crashes, drivers age 16-20 have the highest proportion where the first impact is outside the shoulder/curb for all crashes (7.2%), fatal crashes (16.8%), and injury crashes (8.3%).

ROADWAY TYPE	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Interstate Routes	6,409	10.9	7	5.9	1,299	10.4
U.S. & Michigan Roads	17,341	29.6	36	30.3	3,645	29.1
County & City Roads	34,753	59.3	76	63.9	7,575	60.4
Uncoded & Errors	104	0.2	0	0.0	20	0.2
<b>TOTAL</b>	<b>58,607</b>	<b>100.0</b>	<b>119</b>	<b>100.0</b>	<b>12,539</b>	<b>100.0</b>

## DRIVER AGE 16-20 (CONTINUED)

TIME OF DAY	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
12:00 AM - 2:59 AM	2,110	3.6	12	10.1	516	4.1
3:00 AM - 5:59 AM	1,097	1.9	7	5.9	263	2.1
6:00 AM - 8:59 AM	7,069	12.1	9	7.6	1,302	10.4
9:00 AM - 11:59 AM	6,522	11.1	11	9.2	1,306	10.4
12:00 PM - 2:59 PM	10,909	18.6	16	13.4	2,359	18.8
3:00 PM - 5:59 PM	15,994	27.3	22	18.5	3,500	27.9
6:00 PM - 8:59 PM	9,241	15.8	18	15.1	2,035	16.2
9:00 PM - 11:59 PM	5,648	9.6	23	19.3	1,254	10.0
Unknown	17	0.0	1	0.8	4	0.0
<b>TOTAL</b>	<b>58,607</b>	<b>100.0</b>	<b>119</b>	<b>100.0</b>	<b>12,539</b>	<b>100.0</b>

For drivers age 16-20, the 3:00 - 5:59 PM time period is the highest proportion of all crashes (27.3%) and injury crashes (27.9%). The 9:00 - 11:59 PM time period is the highest proportion of fatal crashes (19.3%).

HAZARDOUS ACTION	ALL CRASHES		FATAL CRASHES		INJURY CRASHES		HAZARDOUS CITATION ISSUED	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
None	20,500	35.0	39	32.8	3,840	30.6	129	0.7
Speed too fast	6,914	11.8	15	12.6	1,476	11.8	2,677	13.6
Speed too slow	30	0.1	0	0.0	7	0.1	11	0.1
Failed to yield	7,268	12.4	9	7.6	2,002	16.0	4,425	22.4
Disregard traffic control	1,434	2.4	9	7.6	618	4.9	992	5.0
Drove wrong way	37	0.1	0	0.0	11	0.1	13	0.1
Drove left of center	272	0.5	4	3.4	96	0.8	128	0.6
Improper passing	329	0.6	0	0.0	50	0.4	145	0.7
Improper lane use	1,349	2.3	1	0.8	179	1.4	718	3.6
Improper turn	640	1.1	1	0.8	126	1.0	342	1.7
Improper/no signal	52	0.1	0	0.0	4	0.0	27	0.1
Improper backing	678	1.2	0	0.0	19	0.2	259	1.3
Unable to stop in assured clear distance	13,377	22.8	5	4.2	2,527	20.2	7,709	39.1
Other	1,975	3.4	2	1.7	443	3.5	698	3.5
Unknown	1,314	2.2	14	11.8	330	2.6	50	0.3
Reckless driving	310	0.5	10	8.4	125	1.0	138	0.7
Careless/negligent driving	2,076	3.5	10	8.4	678	5.4	1,259	6.4
Uncoded & Errors	52	0.1	0	0.0	8	0.1	3	0.0
<b>TOTAL</b>	<b>58,607</b>	<b>100.0</b>	<b>119</b>	<b>100.0</b>	<b>12,539</b>	<b>100.0</b>	<b>19,723</b>	<b>100.0</b>

After no hazardous action, the second highest hazardous action category for drivers age 16-20 for all crashes (22.8%) and injury crashes (20.2%) occurs when the driver is unable to stop in an assured clear distance. For drivers in fatal crashes, the second highest category is speed too fast (12.6%).



## DRIVER AGE 16-20 (CONTINUED)

DAY OF WEEK	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Monday	8,479	14.5	15	12.6	1,745	13.9
Tuesday	8,587	14.7	14	11.8	1,786	14.2
Wednesday	9,030	15.4	17	14.3	1,825	14.6
Thursday	9,242	15.8	11	9.2	1,946	15.5
Friday	10,049	17.1	23	19.3	2,182	17.4
Saturday	7,451	12.7	19	16.0	1,680	13.4
Sunday	5,769	9.8	20	16.8	1,375	11.0
<b>TOTAL</b>	<b>58,607</b>	<b>100.0</b>	<b>119</b>	<b>100.0</b>	<b>12,539</b>	<b>100.0</b>

DRIVER GENDER	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Male	31,289	53.4	74	62.2	6,513	51.9
Female	27,308	46.6	45	37.8	6,025	48.1
Uncoded & Errors	10	0.0	0	0.0	1	0.0
<b>TOTAL</b>	<b>58,607</b>	<b>100.0</b>	<b>119</b>	<b>100.0</b>	<b>12,539</b>	<b>100.0</b>

For drivers age 16-20 in fatal crashes, male drivers (62.2%) are about 1.6 times as prevalent as female drivers (37.8%).

NUMBER OF OCCUPANTS	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
1 occupant	43,579	74.4	70	58.8	8,476	67.6
2 occupants	11,046	18.8	27	22.7	2,822	22.5
3 occupants	2,538	4.3	10	8.4	830	6.6
4 occupants	897	1.5	8	6.7	269	2.1
5 occupants	255	0.4	1	0.8	101	0.8
6+ occupants	80	0.1	3	2.5	24	0.2
0 occupants	104	0.2	0	0.0	9	0.1
Uncoded & Errors	108	0.2	0	0.0	8	0.1
<b>TOTAL</b>	<b>58,607</b>	<b>100.0</b>	<b>119</b>	<b>100.0</b>	<b>12,539</b>	<b>100.0</b>

## DRIVER AGE 16-20 (CONTINUED)

VEHICLE TYPE	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Passenger car, SUV, van	52,522	89.6	97	81.5	11,002	87.7
Motor home	99	0.2	0	0.0	14	0.1
Pickup truck	5,160	8.8	11	9.2	1,147	9.1
Small Truck under 10,000 lbs. GVWR	242	0.4	2	1.7	57	0.5
Motorcycle	179	0.3	1	0.8	128	1.0
Moped / goped	108	0.2	2	1.7	84	0.7
Go-cart / golf cart	8	0.0	0	0.0	4	0.0
Snowmobile	10	0.0	1	0.8	7	0.1
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	62	0.1	5	4.2	47	0.4
Other	80	0.1	0	0.0	23	0.2
Unknown	38	0.1	0	0.0	7	0.1
CDL Truck/Bus (breakdown below)	99	0.2	0	0.0	19	0.2
<b>TOTAL</b>	<b>58,607</b>	<b>100.0</b>	<b>119</b>	<b>100.0</b>	<b>12,539</b>	<b>100.0</b>

HEAVY TRUCK/BUS GROSS VEHICLE WEIGHT RATING	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
10,000 lbs. or less	2	2.0	0	0.0	0	0.0
10,001 - 26,000 lbs.	57	57.6	0	0.0	12	63.2
Greater than 26,000 lbs.	39	39.4	0	0.0	7	36.8
Uncoded & Errors	1	1.0	0	0.0	0	0.0
<b>TOTAL</b>	<b>99</b>	<b>100.0</b>	<b>0</b>	<b>0.0</b>	<b>19</b>	<b>100.0</b>

# DRIVER AGE 21-64

DRIVER ACTION PRIOR TO CRASH	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Going straight ahead	213,548	56.4	855	76.1	44,045	57.1
Turning left	24,639	6.5	44	3.9	6,374	8.3
Turning right	10,712	2.8	6	0.5	1,555	2.0
Stopped on roadway	42,508	11.2	60	5.3	9,614	12.5
In prior crash	291	0.1	2	0.2	97	0.1
Changing lanes	10,761	2.8	13	1.2	1,251	1.6
Backing	6,897	1.8	0	0.0	275	0.4
Slowing/stopping on roadway	43,293	11.4	36	3.2	8,491	11.0
Slowing/stopping other	543	0.1	1	0.1	106	0.1
Starting up on roadway	6,727	1.8	14	1.2	1,390	1.8
Starting up other	86	0.0	0	0.0	19	0.0
Entering parking	318	0.1	1	0.1	26	0.0
Leaving parking	750	0.2	2	0.2	120	0.2
Entering roadway	3,766	1.0	12	1.1	795	1.0
Leaving roadway	445	0.1	5	0.4	136	0.2
Making U-turn	681	0.2	6	0.5	131	0.2
Overtaking or passing	1,992	0.5	11	1.0	377	0.5
Avoiding object	354	0.1	2	0.2	74	0.1
Avoiding pedestrian	66	0.0	3	0.3	18	0.0
Avoiding vehicle (front/back)	2,690	0.7	16	1.4	656	0.9
Avoiding vehicle (angle)	1,074	0.3	1	0.1	267	0.3
Driverless moving	79	0.0	0	0.0	15	0.0
Parked	2,453	0.6	1	0.1	294	0.4
Crossing at intersection	52	0.0	0	0.0	22	0.0
Crossing not at intersection	11	0.0	0	0.0	4	0.0
Getting on/off vehicle	0	0.0	0	0.0	0	0.0
In roadway with traffic	16	0.0	0	0.0	6	0.0
In roadway against traffic	5	0.0	0	0.0	2	0.0
Standing/lying in roadway	2	0.0	0	0.0	0	0.0
Pushing/working on vehicle	6	0.0	0	0.0	3	0.0
Other working in roadway	5	0.0	0	0.0	1	0.0
Playing in roadway	1	0.0	0	0.0	0	0.0
In roadway other reason	9	0.0	1	0.1	2	0.0
Not in roadway	34	0.0	1	0.1	18	0.0
Other	518	0.1	3	0.3	130	0.2
Unknown	706	0.2	6	0.5	157	0.2
Avoiding animal	708	0.2	1	0.1	126	0.2
Negotiating a curve	1,969	0.5	20	1.8	487	0.6
Uncoded & Errors	102	0.0	0	0.0	20	0.0
<b>TOTAL</b>	<b>378,817</b>	<b>100.0</b>	<b>1,123</b>	<b>100.0</b>	<b>77,104</b>	<b>100.0</b>

## DRIVER AGE 21-64 (CONTINUED)

MOST HARMFUL EVENT IN A NONCOLLISION	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Loss of control	2,058	0.5	3	0.3	572	0.7
Cross center/median	332	0.1	3	0.3	114	0.1
Ran off road left	752	0.2	0	0.0	170	0.2
Ran off road right	1,276	0.3	1	0.1	282	0.4
Re-enter road	77	0.0	0	0.0	11	0.0
Overturn	4,495	1.2	69	6.1	2,125	2.8
Separation of units	244	0.1	2	0.2	54	0.1
Fire/explosion	298	0.1	8	0.7	38	0.0
Immersion	204	0.1	2	0.2	13	0.0
Jackknife	184	0.0	0	0.0	29	0.0
Downhill runaway	11	0.0	0	0.0	3	0.0
Cargo loss/shift	286	0.1	0	0.0	25	0.0
Individual fell off	278	0.1	11	1.0	232	0.3
Other noncollision	748	0.2	2	0.2	160	0.2
<b>SUBTOTAL</b>	<b>11,243</b>	<b>3.0</b>	<b>101</b>	<b>9.0</b>	<b>3,828</b>	<b>5.0</b>

For drivers age 21-64, an overturn is the most harmful event in a noncollision with the highest proportion of all crashes (1.2%), fatal crashes (6.1%), and injury crashes (2.8%)

MOST HARMFUL EVENT IN A COLLISION WITH A NONFIXED OBJECT	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Pedestrian	1,204	0.3	112	10.0	969	1.3
Bicyclist	1,038	0.3	18	1.6	823	1.1
Motor vehicle in transport	281,549	74.3	684	60.9	62,768	81.4
Parked motor vehicle	7,576	2.0	13	1.2	832	1.1
Railway train	33	0.0	1	0.1	8	0.0
Animal	43,049	11.4	13	1.2	763	1.0
Other nonfixed objects	2,999	0.8	11	1.0	241	0.3
<b>SUBTOTAL</b>	<b>337,448</b>	<b>89.1</b>	<b>852</b>	<b>75.9</b>	<b>66,404</b>	<b>86.1</b>

## DRIVER AGE 21-64 (CONTINUED)

MOST HARMFUL EVENT IN A COLLISION WITH A FIXED OBJECT	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Bridge/pier/abutment	172	0.0	1	0.1	43	0.1
Bridge rail	294	0.1	1	0.1	55	0.1
Guardrail face	2,143	0.6	4	0.4	385	0.5
Guardrail end	443	0.1	3	0.3	122	0.2
Median barrier	3,347	0.9	4	0.4	942	1.2
Highway traffic sign post	2,055	0.5	3	0.3	154	0.2
Highway signal post	124	0.0	2	0.2	23	0.0
Luminaire/light support	2,492	0.7	16	1.4	754	1.0
Other pole	848	0.2	3	0.3	138	0.2
Culvert	343	0.1	2	0.2	107	0.1
Curb	1,119	0.3	2	0.2	142	0.2
Ditch	4,142	1.1	11	1.0	932	1.2
Embankment	712	0.2	5	0.4	199	0.3
Fence	514	0.1	2	0.2	85	0.1
Mailbox	892	0.2	0	0.0	40	0.1
Tree	6,247	1.6	94	8.4	1,981	2.6
Rail crossing signal	38	0.0	0	0.0	6	0.0
Building	337	0.1	6	0.5	131	0.2
Traffic island	26	0.0	0	0.0	6	0.0
Fire hydrant	309	0.1	0	0.0	52	0.1
Impact attenuator	111	0.0	0	0.0	37	0.0
Other fixed object	1,221	0.3	7	0.6	277	0.4
<b>SUBTOTAL</b>	<b>27,929</b>	<b>7.4</b>	<b>166</b>	<b>14.8</b>	<b>6,611</b>	<b>8.6</b>

For drivers age 21-64, a tree is the fixed object associated with the highest proportion of all crashes (1.6%), fatal crashes (8.4%), and injury crashes (2.6%).

	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Uncoded & Errors	2,147	0.6	3	0.3	251	0.3
No event coded as most harmful	50	0.0	1	0.1	10	0.0
<b>TOTAL</b>	<b>378,817</b>	<b>100.0</b>	<b>1,123</b>	<b>100.0</b>	<b>77,104</b>	<b>100.0</b>

## DRIVER AGE 21-64 (CONTINUED)

CRASH TYPE	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Single Vehicle	81,399	21.5	350	31.2	10,947	14.2
Head On	4,476	1.2	169	15.0	2,167	2.8
Head On - Left Turn	10,961	2.9	47	4.2	4,462	5.8
Angle	62,986	16.6	244	21.7	18,232	23.6
Rear End	130,048	34.3	141	12.6	28,471	36.9
Rear End - Left Turn	4,756	1.3	17	1.5	1,284	1.7
Rear End - Right Turn	3,844	1.0	0	0.0	531	0.7
Sideswipe - Same Direction	48,044	12.7	39	3.5	4,641	6.0
Sideswipe - Opposite Direction	6,879	1.8	16	1.4	1,170	1.5
Backing	6,239	1.6	0	0.0	169	0.2
Other	18,000	4.8	98	8.7	4,797	6.2
Unknown	1,185	0.3	2	0.2	233	0.3
Uncoded & Errors	0	0.0	0	0.0	0	0.0
<b>TOTAL</b>	<b>378,817</b>	<b>100.0</b>	<b>1,123</b>	<b>100.0</b>	<b>77,104</b>	<b>100.0</b>

Based on crash type, drivers age 21-64 are involved in the largest proportion of rear end crashes for all crashes (34.3%) and for injury crashes (36.9%). The single vehicle type has the largest proportion of drivers in fatal crashes (31.2%).

RELATIONSHIP TO ROADWAY (LOCATION OF FIRST IMPACT)	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
On Road	349,143	92.2	929	82.7	70,266	91.1
Median	2,651	0.7	12	1.1	532	0.7
Shoulder	8,457	2.2	47	4.2	1,916	2.5
Outside of Shoulder/Curb	14,696	3.9	121	10.8	3,747	4.9
Gore	598	0.2	8	0.7	171	0.2
On-Street Parking	1,834	0.5	2	0.2	132	0.2
Off the Roadway	45	0.0	0	0.0	19	0.0
On the Sidewalk	308	0.1	1	0.1	140	0.2
In the Bicycle Lane	58	0.0	0	0.0	11	0.0
Other/Unknown	913	0.2	2	0.2	157	0.2
Uncoded & Errors	114	0.0	1	0.1	13	0.0
<b>TOTAL</b>	<b>378,817</b>	<b>100.0</b>	<b>1,123</b>	<b>100.0</b>	<b>77,104</b>	<b>100.0</b>

Other than on the road crashes, drivers age 21-64 have the highest proportion where the location of first impact is outside the shoulder/curb for all crashes (3.9%), fatal crashes (10.8%), and injury crashes (4.9%).

ROADWAY TYPE	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Interstate Routes	56,025	14.8	127	11.3	11,519	14.9
U.S. & Michigan Roads	119,205	31.5	384	34.2	24,190	31.4
County & City Roads	203,052	53.6	612	54.5	41,297	53.6
Uncoded & Errors	535	0.1	0	0.0	98	0.1
<b>TOTAL</b>	<b>378,817</b>	<b>100.0</b>	<b>1,123</b>	<b>100.0</b>	<b>77,104</b>	<b>100.0</b>

## DRIVER AGE 21-64 (CONTINUED)

TIME OF DAY	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
12:00 AM - 2:59 AM	12,786	3.4	104	9.3	3,090	4.0
3:00 AM - 5:59 AM	13,068	3.4	78	6.9	2,157	2.8
6:00 AM - 8:59 AM	60,059	15.9	108	9.6	10,380	13.5
9:00 AM - 11:59 AM	47,674	12.6	116	10.3	9,705	12.6
12:00 PM - 2:59 PM	64,810	17.1	169	15.0	14,496	18.8
3:00 PM - 5:59 PM	98,470	26.0	188	16.7	21,037	27.3
6:00 PM - 8:59 PM	55,231	14.6	201	17.9	10,860	14.1
9:00 PM - 11:59 PM	26,627	7.0	159	14.2	5,361	7.0
Unknown	92	0.0	0	0.0	18	0.0
<b>TOTAL</b>	<b>378,817</b>	<b>100.0</b>	<b>1,123</b>	<b>100.0</b>	<b>77,104</b>	<b>100.0</b>

For drivers age 21-64, the 3:00 - 5:59 PM time period has the highest proportion of all crashes (26.0%) and injury crashes (27.3%). The 6:00 - 8:59 PM time period has the highest proportion of fatal crashes (17.9%).

HAZARDOUS ACTION	ALL CRASHES		FATAL CRASHES		INJURY CRASHES		HAZARDOUS CITATION ISSUED	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
None	212,592	56.1	515	45.9	39,506	51.2	783	1.0
Speed too fast	21,728	5.7	136	12.1	4,919	6.4	7,305	9.8
Speed too slow	178	0.0	3	0.3	36	0.0	47	0.1
Failed to yield	29,565	7.8	53	4.7	7,557	9.8	16,768	22.4
Disregard traffic control	6,558	1.7	40	3.6	2,773	3.6	4,108	5.5
Drove wrong way	224	0.1	10	0.9	90	0.1	95	0.1
Drove left of center	1,533	0.4	39	3.5	573	0.7	652	0.9
Improper passing	1,738	0.5	7	0.6	261	0.3	633	0.8
Improper lane use	8,422	2.2	7	0.6	1,025	1.3	3,687	4.9
Improper turn	3,475	0.9	6	0.5	544	0.7	1,525	2.0
Improper/no signal	313	0.1	0	0.0	42	0.1	120	0.2
Improper backing	4,995	1.3	1	0.1	145	0.2	1,566	2.1
Unable to stop in assured clear distance	53,706	14.2	35	3.1	10,856	14.1	28,556	38.1
Other	12,093	3.2	53	4.7	2,664	3.5	3,532	4.7
Unknown	11,215	3.0	95	8.5	2,641	3.4	392	0.5
Reckless driving	1,717	0.5	61	5.4	746	1.0	667	0.9
Careless/negligent driving	8,304	2.2	60	5.3	2,645	3.4	4,463	6.0
Uncoded & Errors	461	0.1	2	0.2	81	0.1	16	0.0
<b>TOTAL</b>	<b>378,817</b>	<b>100.0</b>	<b>1,123</b>	<b>100.0</b>	<b>77,104</b>	<b>100.0</b>	<b>74,915</b>	<b>100.0</b>

After no hazardous action, the second highest hazardous action category for drivers age 21-64 for all crashes (14.2%) and injury crashes (14.1%) occurs when the driver is unable to stop in an assured clear distance. For drivers in fatal crashes, the second highest category is speed too fast (12.1%).

## DRIVER AGE 21-64 (CONTINUED)

DAY OF WEEK	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Monday	56,883	15.0	118	10.5	11,645	15.1
Tuesday	59,078	15.6	144	12.8	11,736	15.2
Wednesday	59,976	15.8	184	16.4	11,699	15.2
Thursday	60,782	16.0	193	17.2	12,100	15.7
Friday	64,186	16.9	168	15.0	12,932	16.8
Saturday	44,070	11.6	163	14.5	9,382	12.2
Sunday	33,842	8.9	153	13.6	7,610	9.9
<b>TOTAL</b>	<b>378,817</b>	<b>100.0</b>	<b>1,123</b>	<b>100.0</b>	<b>77,104</b>	<b>100.0</b>

DRIVER GENDER	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Male	210,021	55.4	793	70.6	41,312	53.6
Female	168,717	44.5	330	29.4	35,785	46.4
Uncoded & Errors	79	0.0	0	0.0	7	0.0
<b>TOTAL</b>	<b>378,817</b>	<b>100.0</b>	<b>1,123</b>	<b>100.0</b>	<b>77,104</b>	<b>100.0</b>

For drivers age 21-64, male drivers (70.6%) account for almost two and a half times that of female drivers (29.4%) in fatal crashes.

NUMBER OF OCCUPANTS	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
1 occupant	300,514	79.3	807	71.9	56,136	72.8
2 occupants	52,850	14.0	210	18.7	13,929	18.1
3 occupants	14,205	3.7	53	4.7	4,128	5.4
4 occupants	5,732	1.5	36	3.2	1,708	2.2
5 occupants	1,886	0.5	6	0.5	618	0.8
6+ occupants	1,339	0.4	10	0.9	380	0.5
0 occupants	1,406	0.4	0	0.0	108	0.1
Uncoded & Errors	885	0.2	1	0.1	97	0.1
<b>TOTAL</b>	<b>378,817</b>	<b>100.0</b>	<b>1,123</b>	<b>100.0</b>	<b>77,104</b>	<b>100.0</b>



## DRIVER AGE 21-64 (CONTINUED)

VEHICLE TYPE	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Passenger car, SUV, van	313,369	82.7	721	64.2	63,928	82.9
Motor home	1,105	0.3	5	0.4	197	0.3
Pickup truck	44,637	11.8	157	14.0	7,772	10.1
Small Truck under 10,000 lbs. GVWR	2,810	0.7	6	0.5	469	0.6
Motorcycle	2,480	0.7	117	10.4	1,808	2.3
Moped / goped	246	0.1	2	0.2	216	0.3
Go-cart / golf cart	18	0.0	1	0.1	7	0.0
Snowmobile	96	0.0	4	0.4	62	0.1
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	204	0.1	18	1.6	144	0.2
Other	1,658	0.4	6	0.5	261	0.3
Unknown	214	0.1	0	0.0	22	0.0
CDL Truck/Bus (breakdown below)	11,980	3.2	86	7.7	2,218	2.9
<b>TOTAL</b>	<b>378,817</b>	<b>100.0</b>	<b>1,123</b>	<b>100.0</b>	<b>77,104</b>	<b>100.0</b>

HEAVY TRUCK/BUS GROSS VEHICLE WEIGHT RATING	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
10,000 lbs. or less	210	1.8	0	0.0	15	0.7
10,001 - 26,000 lbs.	3,075	25.7	17	19.8	443	20.0
Greater than 26,000 lbs.	8,621	72.0	69	80.2	1,758	79.3
Uncoded & Errors	74	0.6	0	0.0	2	0.1
<b>TOTAL</b>	<b>11,980</b>	<b>100.0</b>	<b>86</b>	<b>100.0</b>	<b>2,218</b>	<b>100.0</b>

# DRIVER AGE 65 AND OVER

DRIVER ACTION PRIOR TO CRASH	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Going straight ahead	27,794	51.5	155	67.4	5,990	52.6
Turning left	5,483	10.2	29	12.6	1,551	13.6
Turning right	2,143	4.0	1	0.4	323	2.8
Stopped on roadway	5,803	10.8	8	3.5	1,342	11.8
In prior crash	33	0.1	0	0.0	16	0.1
Changing lanes	1,974	3.7	6	2.6	162	1.4
Backing	1,515	2.8	0	0.0	48	0.4
Slowing/stopping on roadway	4,949	9.2	11	4.8	1,049	9.2
Slowing/stopping other	67	0.1	0	0.0	16	0.1
Starting up on roadway	1,215	2.3	7	3.0	310	2.7
Starting up other	21	0.0	0	0.0	3	0.0
Entering parking	81	0.2	0	0.0	9	0.1
Leaving parking	191	0.4	0	0.0	28	0.2
Entering roadway	1,003	1.9	6	2.6	199	1.7
Leaving roadway	60	0.1	0	0.0	19	0.2
Making U-turn	165	0.3	1	0.4	45	0.4
Overtaking or passing	262	0.5	1	0.4	39	0.3
Avoiding object	21	0.0	0	0.0	3	0.0
Avoiding pedestrian	9	0.0	0	0.0	7	0.1
Avoiding vehicle (front/back)	264	0.5	2	0.9	68	0.6
Avoiding vehicle (angle)	126	0.2	0	0.0	22	0.2
Driverless moving	13	0.0	0	0.0	1	0.0
Parked	293	0.5	0	0.0	24	0.2
Crossing at intersection	12	0.0	0	0.0	5	0.0
Crossing not at intersection	2	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	1	0.0	0	0.0	0	0.0
In roadway against traffic	4	0.0	0	0.0	3	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	0	0.0	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	3	0.0	0	0.0	0	0.0
Other	67	0.1	1	0.4	17	0.1
Unknown	76	0.1	0	0.0	19	0.2
Avoiding animal	56	0.1	0	0.0	15	0.1
Negotiating a curve	213	0.4	2	0.9	51	0.4
Uncoded & Errors	14	0.0	0	0.0	1	0.0
<b>TOTAL</b>	<b>53,934</b>	<b>100.0</b>	<b>230</b>	<b>100.0</b>	<b>11,385</b>	<b>100.0</b>

## DRIVER AGE 65 AND OVER (CONTINUED)

MOST HARMFUL EVENT IN A NONCOLLISION	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Loss of control	145	0.3	2	0.9	49	0.4
Cross center/median	52	0.1	0	0.0	16	0.1
Ran off road left	96	0.2	1	0.4	23	0.2
Ran off road right	134	0.2	0	0.0	38	0.3
Re-enter road	19	0.0	0	0.0	6	0.1
Overturn	365	0.7	10	4.3	198	1.7
Separation of units	25	0.0	0	0.0	3	0.0
Fire/explosion	25	0.0	0	0.0	3	0.0
Immersion	20	0.0	2	0.9	1	0.0
Jackknife	11	0.0	0	0.0	0	0.0
Downhill runaway	3	0.0	0	0.0	1	0.0
Cargo loss/shift	31	0.1	0	0.0	0	0.0
Individual fell off	24	0.0	0	0.0	22	0.2
Other noncollision	122	0.2	0	0.0	29	0.3
<b>SUBTOTAL</b>	<b>1,072</b>	<b>2.0</b>	<b>15</b>	<b>6.5</b>	<b>389</b>	<b>3.4</b>

For drivers age 65 and over, an overturn is the most harmful event in a noncollision with the highest proportion of drivers in all crashes (0.7%), fatal crashes (4.3%), and injury crashes (1.7%).

MOST HARMFUL EVENT IN A COLLISION WITH A NONFIXED OBJECT	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Pedestrian	266	0.5	13	5.7	222	1.9
Bicyclist	219	0.4	3	1.3	170	1.5
Motor vehicle in transport	41,823	77.5	168	73.0	9,626	84.5
Parked motor vehicle	1,232	2.3	1	0.4	108	0.9
Railway train	11	0.0	0	0.0	6	0.1
Animal	5,863	10.9	0	0.0	96	0.8
Other nonfixed objects	408	0.8	2	0.9	29	0.3
<b>SUBTOTAL</b>	<b>49,822</b>	<b>92.4</b>	<b>187</b>	<b>81.3</b>	<b>10,257</b>	<b>90.1</b>

## DRIVER AGE 65 AND 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 Drivers	% of Total	Number of Drivers	% of Total
Bridge/pier/abutment	24	0.0	1	0.4	3	0.0
Bridge rail	21	0.0	0	0.0	4	0.0
Guardrail face	185	0.3	1	0.4	36	0.3
Guardrail end	44	0.1	1	0.4	11	0.1
Median barrier	168	0.3	1	0.4	69	0.6
Highway traffic sign post	254	0.5	0	0.0	25	0.2
Highway signal post	15	0.0	0	0.0	4	0.0
Luminaire/light support	257	0.5	4	1.7	77	0.7
Other pole	95	0.2	1	0.4	20	0.2
Culvert	27	0.1	0	0.0	11	0.1
Curb	109	0.2	1	0.4	13	0.1
Ditch	410	0.8	3	1.3	96	0.8
Embankment	75	0.1	1	0.4	23	0.2
Fence	47	0.1	0	0.0	6	0.1
Mailbox	147	0.3	0	0.0	11	0.1
Tree	658	1.2	13	5.7	230	2.0
Rail crossing signal	15	0.0	0	0.0	4	0.0
Building	47	0.1	1	0.4	25	0.2
Traffic island	2	0.0	0	0.0	0	0.0
Fire hydrant	43	0.1	0	0.0	7	0.1
Impact attenuator	20	0.0	0	0.0	8	0.1
Other fixed object	146	0.3	0	0.0	29	0.3
<b>SUBTOTAL</b>	<b>2,809</b>	<b>5.2</b>	<b>28</b>	<b>12.2</b>	<b>712</b>	<b>6.3</b>

For drivers age 65 and over, a tree is the fixed object associated with the highest proportion of drivers in all crashes (1.2%), fatal crashes (5.7%), and injury crashes (2.0%).

	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Uncoded & Errors	223	0.4	0	0.0	26	0.2
No event coded as most harmful	8	0.0	0	0.0	1	0.0
<b>TOTAL</b>	<b>53,934</b>	<b>100.0</b>	<b>230</b>	<b>100.0</b>	<b>11,385</b>	<b>100.0</b>

## DRIVER AGE 65 AND OVER (CONTINUED)

CRASH TYPE	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Single Vehicle	9,786	18.1	50	21.7	1,267	11.1
Head On	640	1.2	33	14.3	324	2.8
Head On - Left Turn	2,001	3.7	18	7.8	906	8.0
Angle	12,177	22.6	75	32.6	3,436	30.2
Rear End	14,931	27.7	30	13.0	3,520	30.9
Rear End - Left Turn	671	1.2	2	0.9	184	1.6
Rear End - Right Turn	552	1.0	0	0.0	89	0.8
Sideswipe - Same Direction	7,861	14.6	8	3.5	629	5.5
Sideswipe - Opposite Direction	1,106	2.1	3	1.3	191	1.7
Backing	1,224	2.3	0	0.0	25	0.2
Other	2,823	5.2	11	4.8	777	6.8
Unknown	162	0.3	0	0.0	37	0.3
Uncoded & Errors	0	0.0	0	0.0	0	0.0
<b>TOTAL</b>	<b>53,934</b>	<b>100.0</b>	<b>230</b>	<b>100.0</b>	<b>11,385</b>	<b>100.0</b>

Based on crash type, drivers age 65 and over are involved in the largest proportion of rear end crashes for all crashes (27.7%) and injury crashes (30.9%), and the largest proportion of angle crashes for fatal crashes (32.6%).

RELATIONSHIP TO ROADWAY (LOCATION OF FIRST IMPACT)	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
On Road	50,612	93.8	202	87.8	10,611	93.2
Median	258	0.5	2	0.9	51	0.4
Shoulder	856	1.6	4	1.7	169	1.5
Outside of Shoulder/Curb	1,532	2.8	22	9.6	452	4.0
Gore	80	0.1	0	0.0	24	0.2
On-Street Parking	378	0.7	0	0.0	21	0.2
Off the Roadway	9	0.0	0	0.0	2	0.0
On the Sidewalk	38	0.1	0	0.0	21	0.2
In the Bicycle Lane	8	0.0	0	0.0	4	0.0
Other/Unknown	147	0.3	0	0.0	27	0.2
Uncoded & Errors	16	0.0	0	0.0	3	0.0
<b>TOTAL</b>	<b>53,934</b>	<b>100.0</b>	<b>230</b>	<b>100.0</b>	<b>11,385</b>	<b>100.0</b>

Other than on the road crashes, drivers age 65 and over have the highest proportion where the first impact is outside the shoulder/curb for all crashes (2.8%), fatal crashes (9.6%), and injury crashes (4.0%).

ROADWAY TYPE	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Interstate Routes	5,012	9.3	15	6.5	976	8.6
U.S. & Michigan Roads	17,993	33.4	95	41.3	3,776	33.2
County & City Roads	30,847	57.2	120	52.2	6,618	58.1
Uncoded & Errors	82	0.2	0	0.0	15	0.1
<b>TOTAL</b>	<b>53,934</b>	<b>100.0</b>	<b>230</b>	<b>100.0</b>	<b>11,385</b>	<b>100.0</b>

## DRIVER AGE 65 AND OVER (CONTINUED)

TIME OF DAY	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
12:00 AM - 2:59 AM	578	1.1	3	1.3	101	0.9
3:00 AM - 5:59 AM	599	1.1	3	1.3	96	0.8
6:00 AM - 8:59 AM	4,791	8.9	11	4.8	906	8.0
9:00 AM - 11:59 AM	10,123	18.8	42	18.3	2,096	18.4
12:00 PM - 2:59 PM	13,928	25.8	65	28.3	3,265	28.7
3:00 PM - 5:59 PM	14,345	26.6	58	25.2	3,208	28.2
6:00 PM - 8:59 PM	6,979	12.9	32	13.9	1,275	11.2
9:00 PM - 11:59 PM	2,573	4.8	16	7.0	437	3.8
Unknown	18	0.0	0	0.0	1	0.0
<b>TOTAL</b>	<b>53,934</b>	<b>100.0</b>	<b>230</b>	<b>100.0</b>	<b>11,385</b>	<b>100.0</b>

For drivers age 65 and over, the 3:00 - 5:59 PM time period has the highest proportion of drivers in all crashes (26.6%). The 12:00 - 2:59 PM time period has the highest proportion of drivers in fatal crashes (28.3%) and injury crashes (28.7%).

HAZARDOUS ACTION	ALL CRASHES		FATAL CRASHES		INJURY CRASHES		HAZARDOUS CITATION ISSUED	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
None	29,208	54.2	94	40.9	5,661	49.7	67	0.6
Speed too fast	1,561	2.9	9	3.9	354	3.1	430	4.2
Speed too slow	25	0.0	0	0.0	5	0.0	7	0.1
Failed to yield	7,956	14.8	40	17.4	2,089	18.3	4,057	39.2
Disregard traffic control	1,251	2.3	18	7.8	501	4.4	725	7.0
Drove wrong way	50	0.1	3	1.3	15	0.1	15	0.1
Drove left of center	293	0.5	15	6.5	107	0.9	108	1.0
Improper passing	230	0.4	1	0.4	30	0.3	82	0.8
Improper lane use	1,748	3.2	4	1.7	162	1.4	715	6.9
Improper turn	801	1.5	2	0.9	139	1.2	347	3.4
Improper/no signal	74	0.1	0	0.0	15	0.1	28	0.3
Improper backing	1,110	2.1	0	0.0	24	0.2	302	2.9
Unable to stop in assured clear distance	5,280	9.8	12	5.2	1,225	10.8	2,572	24.8
Other	1,696	3.1	9	3.9	356	3.1	429	4.1
Unknown	1,625	3.0	11	4.8	377	3.3	28	0.3
Reckless driving	56	0.1	2	0.9	28	0.2	22	0.2
Careless/negligent driving	911	1.7	9	3.9	288	2.5	420	4.1
Uncoded & Errors	59	0.1	1	0.4	9	0.1	1	0.0
<b>TOTAL</b>	<b>53,934</b>	<b>100.0</b>	<b>230</b>	<b>100.0</b>	<b>11,385</b>	<b>100.0</b>	<b>10,355</b>	<b>100.0</b>

After no hazardous action, the second highest hazardous action category for drivers age 65 and over for all crashes (14.8%), fatal crashes (17.4%), and injury crashes (18.3%) occurred when the driver failed to yield.

## DRIVER AGE 65 AND OVER (CONTINUED)

DAY OF WEEK	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Monday	7,917	14.7	26	11.3	1,630	14.3
Tuesday	8,372	15.5	36	15.7	1,797	15.8
Wednesday	9,001	16.7	25	10.9	1,838	16.1
Thursday	8,528	15.8	42	18.3	1,844	16.2
Friday	9,149	17.0	39	17.0	1,910	16.8
Saturday	6,245	11.6	38	16.5	1,360	11.9
Sunday	4,722	8.8	24	10.4	1,006	8.8
<b>TOTAL</b>	<b>53,934</b>	<b>100.0</b>	<b>230</b>	<b>100.0</b>	<b>11,385</b>	<b>100.0</b>

DRIVER GENDER	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Male	30,918	57.3	159	69.1	6,285	55.2
Female	23,005	42.7	71	30.9	5,099	44.8
Uncoded & Errors	11	0.0	0	0.0	1	0.0
<b>TOTAL</b>	<b>53,934</b>	<b>100.0</b>	<b>230</b>	<b>100.0</b>	<b>11,385</b>	<b>100.0</b>

For drivers age 65 and over, male drivers (69.1%) account for over two times that of female drivers (30.9%) in fatal crashes.

NUMBER OF OCCUPANTS	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
1 occupant	42,346	78.5	146	63.5	8,290	72.8
2 occupants	9,759	18.1	74	32.2	2,604	22.9
3 occupants	1,035	1.9	7	3.0	316	2.8
4 occupants	367	0.7	1	0.4	107	0.9
5 occupants	82	0.2	2	0.9	29	0.3
6+ occupants	100	0.2	0	0.0	26	0.2
0 occupants	166	0.3	0	0.0	10	0.1
Uncoded & Errors	79	0.1	0	0.0	3	0.0
<b>TOTAL</b>	<b>53,934</b>	<b>100.0</b>	<b>230</b>	<b>100.0</b>	<b>11,385</b>	<b>100.0</b>

## DRIVER AGE 65 AND OVER (CONTINUED)

VEHICLE TYPE	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Passenger car, SUV, van	46,526	86.3	187	81.3	9,864	86.6
Motor home	226	0.4	1	0.4	48	0.4
Pickup truck	5,810	10.8	17	7.4	1,082	9.5
Small Truck under 10,000 lbs. GVWR	216	0.4	1	0.4	34	0.3
Motorcycle	225	0.4	15	6.5	157	1.4
Moped / goped	16	0.0	2	0.9	13	0.1
Go-cart / golf cart	3	0.0	0	0.0	1	0.0
Snowmobile	2	0.0	0	0.0	1	0.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	18	0.0	0	0.0	14	0.1
Other	128	0.2	2	0.9	26	0.2
Unknown	20	0.0	0	0.0	3	0.0
CDL Truck/Bus (breakdown below)	744	1.4	5	2.2	142	1.2
<b>TOTAL</b>	<b>53,934</b>	<b>100.0</b>	<b>230</b>	<b>100.0</b>	<b>11,385</b>	<b>100.0</b>

HEAVY TRUCK/BUS GROSS VEHICLE WEIGHT RATING	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
10,000 lbs. or less	26	3.5	0	0.0	2	1.4
10,001 - 26,000 lbs.	216	29.0	0	0.0	30	21.1
Greater than 26,000 lbs.	498	66.9	5	100.0	110	77.5
Uncoded & Errors	4	0.5	0	0.0	0	0.0
<b>TOTAL</b>	<b>744</b>	<b>100.0</b>	<b>5</b>	<b>100.0</b>	<b>142</b>	<b>100.0</b>