

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	31	0	1	237	2	235	0	0	0	148	0	118	136	0	108
1	19	0	3	229	1	227	0	0	0	0	0	0	2	0	2
2	3	0	1	236	1	235	0	0	0	2	0	2	8	0	5
3	1	0	0	245	0	245	0	0	0	2	0	1	10	2	7
4	3	0	0	269	1	268	1	0	1	3	0	2	11	0	10
5	2	0	0	268	0	267	0	0	0	7	0	4	18	1	13
6	0	0	0	298	1	297	0	0	0	5	0	5	18	0	18
7	1	0	1	310	1	309	3	0	3	11	0	8	17	1	14
8	0	0	0	319	1	317	0	0	0	12	0	9	22	0	20
9	6	0	3	308	1	307	1	0	1	19	0	15	22	0	19
10	5	0	3	318	4	314	3	0	1	18	0	16	20	2	15
11	10	0	7	303	0	302	2	0	2	24	0	17	24	1	20
12	14	0	7	332	5	327	2	0	2	47	0	36	28	0	26
13	25	0	14	322	0	319	2	0	2	62	0	48	31	2	27
14	118	2	28	402	2	400	5	1	4	66	0	57	46	3	40
15	599	0	92	512	4	508	6	0	6	42	0	39	50	0	42
16	7,789	4	766	602	6	594	9	0	9	56	0	45	54	1	42
17	10,961	11	1,099	622	5	613	20	0	14	62	1	51	47	1	42
18	13,486	15	1,547	663	7	651	26	0	19	64	2	44	39	3	31
19	13,878	15	1,635	594	8	580	60	1	47	57	1	49	46	1	39
20	13,751	13	1,680	527	6	521	84	2	59	55	0	41	58	3	49
21	13,614	12	1,627	472	6	466	86	5	64	54	0	44	63	3	53
22	13,606	24	1,555	460	5	454	94	5	70	44	0	35	49	1	40
23	13,079	14	1,553	426	4	419	87	4	63	45	0	32	51	2	44
24	12,860	12	1,614	396	6	390	101	0	75	32	0	25	38	2	30
25	12,814	16	1,499	404	2	396	98	4	77	31	0	24	48	1	41
26	12,242	17	1,417	373	7	366	94	2	75	29	0	28	48	2	43
27	10,790	17	1,247	322	4	318	78	3	61	28	0	22	44	2	35
28	10,258	10	1,218	304	4	298	81	3	55	26	0	19	35	4	29
29	9,672	14	1,123	260	3	256	74	4	55	27	1	20	38	0	28
30	9,273	10	1,062	243	5	236	63	1	47	29	0	26	37	3	28
31	9,238	8	1,076	214	0	214	60	1	40	24	0	21	30	1	27
32	8,786	11	1,009	222	1	221	64	1	52	27	0	24	32	2	26
33	8,563	9	976	197	1	194	60	3	42	29	0	18	17	1	12
34	8,680	6	1,015	192	1	190	50	1	45	22	0	18	19	0	18
35	8,481	11	962	194	2	191	61	2	47	14	0	11	32	2	26
36	8,418	9	947	176	1	175	55	2	40	17	0	14	22	2	16
37	8,022	15	940	183	1	182	54	6	37	23	2	17	26	2	22

*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	7,959	14	901	166	1	165	54	4	37	13	0	11	23	3	17
39	7,742	7	858	145	2	143	45	2	34	20	1	15	28	4	21
40	7,358	2	830	162	1	161	56	1	43	7	0	5	37	5	29
41	7,285	7	771	175	3	172	50	1	32	12	1	8	22	1	16
42	7,513	8	862	165	1	164	56	7	35	13	1	12	31	1	26
43	7,556	10	815	167	3	163	83	4	59	19	0	13	16	3	11
44	8,029	5	942	183	2	181	87	3	63	15	0	13	33	5	27
45	8,408	5	907	159	0	159	64	2	45	11	0	9	32	5	23
46	8,277	8	883	201	2	199	78	3	60	22	0	18	19	3	12
47	7,980	9	893	173	0	173	79	2	57	27	2	20	23	0	19
48	7,732	10	853	148	1	147	68	0	47	19	0	14	28	2	20
49	7,843	14	915	166	1	165	79	4	60	24	1	20	22	3	18
50	7,999	15	931	207	1	206	70	3	47	22	0	19	35	2	28
51	7,830	5	911	174	0	174	80	1	61	22	1	19	28	3	20
52	8,205	5	1,005	167	3	163	80	1	57	24	2	16	27	2	23
53	7,929	5	913	195	2	193	73	1	49	30	1	26	40	3	35
54	7,694	16	929	181	3	178	77	3	59	36	2	30	31	4	19
55	7,694	7	942	198	3	194	75	5	58	29	0	24	36	3	29
56	7,318	7	832	163	3	160	60	2	45	29	3	23	23	2	20
57	7,401	11	873	169	3	165	82	3	52	32	0	27	30	4	20
58	7,127	12	758	178	4	173	73	2	50	16	1	13	36	8	25
59	7,014	6	816	164	1	163	77	2	55	24	0	22	23	2	19
60	6,576	13	748	154	1	153	69	2	52	20	1	14	35	3	26
61	6,287	10	770	164	1	163	68	3	50	20	2	14	31	3	25
62	5,666	10	680	178	2	176	71	5	49	18	2	14	22	1	20
63	5,311	16	639	118	0	118	42	3	31	13	1	10	24	2	20
64	5,078	10	602	132	3	128	38	4	22	20	1	17	19	1	18
65	4,662	6	523	143	3	139	45	4	33	13	0	12	15	2	12
66	4,440	9	531	142	2	140	36	3	30	13	3	6	18	3	14
67	4,132	9	493	140	2	138	32	2	17	6	0	6	11	2	8
68	3,895	2	470	119	2	117	27	0	19	5	0	5	18	3	14
69	3,954	7	478	115	0	115	33	3	19	8	0	8	7	0	6
70	2,944	4	400	103	1	102	27	0	22	4	0	3	11	3	7
71	2,705	2	328	88	1	87	13	1	10	5	1	3	15	2	12
72	2,741	10	334	91	1	90	18	1	12	3	0	3	5	0	5
73	2,727	5	341	109	0	109	7	1	6	4	1	3	9	3	5
74	2,373	4	300	64	0	64	7	0	7	6	2	3	9	2	6
75	2,100	5	255	69	0	69	9	0	8	5	0	4	6	2	3
76	1,826	8	239	68	2	66	7	1	2	4	0	3	8	0	8

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	1,722	4	218	60	0	60	4	0	2	2	0	1	8	1	6
78	1,594	3	219	73	2	71	3	1	1	2	1	1	6	3	3
79	1,348	6	158	58	4	54	3	0	2	2	0	2	4	0	4
80	1,259	6	166	55	4	51	1	0	1	1	0	0	3	0	3
81	1,217	8	172	56	2	54	2	0	1	0	0	0	4	1	3
82	1,015	3	140	49	3	46	1	0	0	2	0	2	6	0	6
83	942	4	122	45	1	44	1	0	1	2	0	2	6	1	4
84	792	2	96	45	4	41	0	0	0	0	0	0	5	3	2
85	789	2	122	31	0	31	0	0	0	0	0	0	0	0	0
86	649	7	100	38	3	35	0	0	0	1	0	1	3	0	3
87	583	6	75	31	3	28	0	0	0	0	0	0	4	2	2
88	519	2	79	27	2	25	1	0	1	0	0	0	0	0	0
89	378	8	64	21	2	19	1	0	1	0	0	0	1	1	0
90	284	0	42	16	1	15	0	0	0	1	0	1	2	0	2
91	247	1	35	18	0	18	0	0	0	0	0	0	3	1	2
92	154	2	37	14	1	13	0	0	0	0	0	0	2	1	1
93	101	1	10	7	0	7	0	0	0	0	0	0	0	0	0
94	91	0	13	8	0	8	0	0	0	0	0	0	1	0	1
95	44	0	10	2	1	1	0	0	0	0	0	0	0	0	0
96	53	0	9	5	0	5	0	0	0	0	0	0	0	0	0
97	61	0	6	0	0	0	0	0	0	0	0	0	0	0	0
98	3	0	1	4	0	4	0	0	0	0	0	0	0	0	0
99	17	0	0	2	0	2	0	0	0	0	0	0	1	0	0
100	1	0	0	1	0	1	0	0	0	0	0	0	1	0	1
101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107	0	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
111	48,141	0	58	39	0	24	115	0	3	79	0	6	67	0	16
TOTAL	538,412	658	57,150	19,463	203	19,195	3,711	141	2,622	1,988	38	1,526	2,349	165	1,852
	*Includes 47,582 drivers with unknown injury severity and 433,022 with no injury			*Includes 65 passengers with unknown injury severity			*Includes 113 motorcyclists with unknown injury severity and 835 with no injury			*Includes 85 bicyclists with unknown injury severity and 339 with no injury			*Includes 106 pedestrians with unknown injury severity and 226 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	34,295	57.3	110	79.1	7,743	60.8
Turning left	5,288	8.8	6	4.3	1,382	10.8
Turning right	1,852	3.1	0	0.0	285	2.2
Stopped on roadway	3,846	6.4	4	2.9	792	6.2
In prior crash	57	0.1	0	0.0	15	0.1
Changing lanes	2,022	3.4	4	2.9	249	2.0
Backing	1,043	1.7	0	0.0	40	0.3
Slowing/stopping on roadway	6,885	11.5	3	2.2	1,188	9.3
Slowing/stopping other	70	0.1	0	0.0	16	0.1
Starting up on roadway	1,257	2.1	1	0.7	289	2.3
Starting up other	21	0.0	0	0.0	6	0.0
Entering parking	32	0.1	0	0.0	2	0.0
Leaving parking	162	0.3	0	0.0	27	0.2
Entering roadway	914	1.5	0	0.0	198	1.6
Leaving roadway	102	0.2	0	0.0	33	0.3
Making U-turn	113	0.2	0	0.0	26	0.2
Overtaking or passing	369	0.6	4	2.9	70	0.5
Avoiding object	89	0.1	0	0.0	16	0.1
Avoiding pedestrian	14	0.0	0	0.0	8	0.1
Avoiding vehicle (front/back)	494	0.8	0	0.0	114	0.9
Avoiding vehicle (angle)	204	0.3	1	0.7	49	0.4
Driverless moving	7	0.0	0	0.0	2	0.0
Parked	128	0.2	1	0.7	21	0.2
Crossing at intersection	6	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	1	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	1	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	1	0.0	0	0.0	0	0.0
Other	77	0.1	1	0.7	17	0.1
Unknown	82	0.1	1	0.7	13	0.1
Avoiding animal	200	0.3	0	0.0	64	0.5
Negotiating a curve	206	0.3	3	2.2	66	0.5
Uncoded & Errors	25	0.0	0	0.0	3	0.0
TOTAL	59,865	100.0	139	100.0	12,739	100.0

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	415	0.7	1	0.7	105	0.8
Cross center/median	49	0.1	1	0.7	14	0.1
Ran off road left	174	0.3	0	0.0	31	0.2
Ran off road right	263	0.4	0	0.0	48	0.4
Re-enter road	14	0.0	0	0.0	4	0.0
Overtake	1,503	2.5	8	5.8	633	5.0
Separation of units	14	0.0	0	0.0	3	0.0
Fire/explosion	28	0.0	1	0.7	2	0.0
Immersion	3	0.0	0	0.0	1	0.0
Jackknife	3	0.0	0	0.0	1	0.0
Downhill runaway	1	0.0	0	0.0	0	0.0
Cargo loss/shift	16	0.0	0	0.0	0	0.0
Individual fell off	49	0.1	0	0.0	45	0.4
Other noncollision	85	0.1	0	0.0	20	0.2
SUBTOTAL	2,617	4.4	11	7.9	907	7.1

For drivers age 16-20, an overturn is the most harmful event in a noncollision with the highest proportion of all crashes (2.5%), fatal crashes (5.8%), and injury crashes (5.0%).

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	159	0.3	16	11.5	128	1.0
Bicyclist	137	0.2	3	2.2	109	0.9
Motor vehicle in transport	44,650	74.6	76	54.7	9,769	76.7
Parked motor vehicle	1,265	2.1	2	1.4	163	1.3
Railway train	6	0.0	0	0.0	4	0.0
Animal	3,036	5.1	0	0.0	42	0.3
Other nonfixed objects	299	0.5	2	1.4	31	0.2
SUBTOTAL	49,552	82.8	99	71.2	10,246	80.4

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	21	0.0	0	0.0	6	0.0
Bridge rail	63	0.1	0	0.0	13	0.1
Guardrail face	495	0.8	2	1.4	69	0.5
Guardrail end	88	0.1	0	0.0	14	0.1
Median barrier	715	1.2	0	0.0	172	1.4
Highway traffic sign post	498	0.8	1	0.7	19	0.1
Highway signal post	24	0.0	0	0.0	6	0.0
Luminaire/light support	674	1.1	1	0.7	184	1.4
Other pole	193	0.3	0	0.0	23	0.2
Culvert	97	0.2	0	0.0	34	0.3
Curb	304	0.5	1	0.7	22	0.2
Ditch	1,350	2.3	3	2.2	268	2.1
Embankment	232	0.4	1	0.7	58	0.5
Fence	143	0.2	1	0.7	15	0.1
Mailbox	295	0.5	0	0.0	15	0.1
Tree	1,802	3.0	18	12.9	542	4.3
Rail crossing signal	7	0.0	0	0.0	2	0.0
Building	61	0.1	0	0.0	22	0.2
Traffic island	5	0.0	0	0.0	0	0.0
Fire hydrant	106	0.2	0	0.0	11	0.1
Impact attenuator	19	0.0	0	0.0	8	0.1
Other fixed object	286	0.5	1	0.7	44	0.3
SUBTOTAL	7,478	12.5	29	20.9	1,547	12.1

For drivers age 16-20, a tree is the fixed object associated with the highest proportion of all crashes (3.0%), fatal crashes (12.9%), and injury crashes (4.3%).

	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Uncoded & Errors	209	0.3	0	0.0	38	0.3
No event coded as most harmful	9	0.0	0	0.0	1	0.0
TOTAL	59,865	100.0	139	100.0	12,739	100.0

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	12,948	21.6	50	36.0	2,485	19.5
Head On	762	1.3	23	16.5	365	2.9
Head On - Left Turn	2,021	3.4	7	5.0	818	6.4
Angle	11,670	19.5	33	23.7	3,257	25.6
Rear End	21,181	35.4	15	10.8	4,122	32.4
Rear End - Left Turn	974	1.6	1	0.7	251	2.0
Rear End - Right Turn	539	0.9	0	0.0	74	0.6
Sideswipe - Same Direction	5,857	9.8	3	2.2	565	4.4
Sideswipe - Opposite Direction	1,038	1.7	3	2.2	169	1.3
Backing	337	0.6	0	0.0	9	0.1
Other	2,436	4.1	4	2.9	595	4.7
Unknown	83	0.1	0	0.0	25	0.2
Uncoded & Errors	19	0.0	0	0.0	4	0.0
TOTAL	59,865	100.0	139	100.0	12,739	100.0

Based on crash type, drivers age 16-20 are involved in the largest proportion of rear end crashes for all crashes (35.4%) and injury crashes (32.4%). For fatal crashes, the largest proportion of drivers are involved in single vehicle crashes (36.0%).

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	51,714	86.4	103	74.1	10,861	85.3
Median	504	0.8	2	1.4	112	0.9
Shoulder	2,264	3.8	13	9.4	460	3.6
Outside of Shoulder/Curb	4,671	7.8	19	13.7	1,165	9.1
Gore	209	0.3	1	0.7	46	0.4
On-Street Parking	114	0.2	0	0.0	15	0.1
Off the Roadway	23	0.0	0	0.0	8	0.1
On the Sidewalk	22	0.0	0	0.0	11	0.1
In the Bicycle Lane	4	0.0	0	0.0	1	0.0
Other/Unknown	311	0.5	1	0.7	58	0.5
Uncoded & Errors	29	0.0	0	0.0	2	0.0
TOTAL	59,865	100.0	139	100.0	12,739	100.0

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 (7.8%), fatal crashes (13.7%), and injury crashes (9.1%).

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	6,312	10.5	17	12.2	1,298	10.2
U.S. & Michigan Roads	17,116	28.6	34	24.5	3,776	29.6
County & City Roads	36,356	60.7	88	63.3	7,648	60.0
Uncoded & Errors	81	0.1	0	0.0	17	0.1
TOTAL	59,865	100.0	139	100.0	12,739	100.0

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 - 02:59 AM	2,199	3.7	26	18.7	512	4.0
03:00 AM - 05:59 AM	1,206	2.0	9	6.5	284	2.2
06:00 AM - 08:59 AM	7,049	11.8	14	10.1	1,380	10.8
09:00 AM - 11:59 AM	6,382	10.7	8	5.8	1,304	10.2
12:00 PM - 02:59 PM	11,309	18.9	17	12.2	2,402	18.9
03:00 PM - 05:59 PM	16,728	27.9	26	18.7	3,570	28.0
06:00 PM - 08:59 PM	9,297	15.5	15	10.8	1,982	15.6
09:00 PM - 11:59 PM	5,657	9.4	22	15.8	1,299	10.2
Unknown	38	0.1	2	1.4	6	0.0
TOTAL	59,865	100.0	139	100.0	12,739	100.0

For drivers age 16-20, the 3:00 - 5:59 PM time period is the highest proportion of all crashes (27.9%) and injury crashes (28.0%). The 12:00 - 2:59 AM and the 3:00 - 5:59 PM time periods together are the highest proportion of fatal crashes (18.7%).

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	20,458	34.2	44	31.7	3,919	30.8	124	0.6
Speed too fast	7,141	11.9	32	23.0	1,524	12.0	2750	13.4
Speed too slow	48	0.1	1	0.7	9	0.1	15	0.1
Failed to yield	7,319	12.2	8	5.8	1,929	15.1	4495	21.9
Disregard traffic control	1,536	2.6	13	9.4	638	5.0	1059	5.2
Drove wrong way	42	0.1	0	0.0	15	0.1	24	0.1
Drove left of center	326	0.5	8	5.8	111	0.9	160	0.8
Improper passing	285	0.5	4	2.9	46	0.4	125	0.6
Improper lane use	1,379	2.3	0	0.0	154	1.2	718	3.5
Improper turn	659	1.1	0	0.0	125	1.0	362	1.8
Improper/no signal	55	0.1	0	0.0	7	0.1	26	0.1
Improper backing	826	1.4	0	0.0	24	0.2	298	1.4
Unable to stop in assured clear distance	14,093	23.5	1	0.7	2,674	21.0	8162	39.7
Other	2,040	3.4	6	4.3	423	3.3	695	3.4
Unknown	1,135	1.9	7	5.0	289	2.3	54	0.3
Reckless driving	314	0.5	6	4.3	139	1.1	154	0.7
Careless/negligent driving	2,173	3.6	9	6.5	707	5.5	1329	6.5
Uncoded & Errors	36	0.1	0	0.0	6	0.0	3	0.0
TOTAL	59,865	100.0	139	100.0	12,739	100.0	20553	100.0

After no hazardous action, the second highest hazardous action category for drivers age 16-20 for all crashes (23.5%) and injury crashes (21.0%) 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 (23.0%).

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	8,216	13.7	24	17.3	1,740	13.7
Tuesday	8,651	14.5	16	11.5	1,831	14.4
Wednesday	9,620	16.1	7	5.0	1,958	15.4
Thursday	9,624	16.1	24	17.3	1,973	15.5
Friday	10,402	17.4	22	15.8	2,228	17.5
Saturday	7,433	12.4	23	16.5	1,684	13.2
Sunday	5,919	9.9	23	16.5	1,325	10.4
TOTAL	59,865	100.0	139	100.0	12,739	100.0

DRIVER GENDER	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Male	32,191	53.8	91	65.5	6,685	52.5
Female	27,669	46.2	48	34.5	6,053	47.5
Uncoded & Errors	5	0.0	0	0.0	1	0.0
TOTAL	59,865	100.0	139	100.0	12,739	100.0

For drivers age 16-20, male drivers (65.5%) account for almost two times that of female drivers (34.5%) 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	44,074	73.6	82	59.0	8,523	66.9
2 occupants	11,418	19.1	31	22.3	2,895	22.7
3 occupants	2,807	4.7	14	10.1	850	6.7
4 occupants	1,004	1.7	4	2.9	313	2.5
5 occupants	269	0.4	7	5.0	111	0.9
6+ occupants	61	0.1	1	0.7	25	0.2
0 occupants	75	0.1	0	0.0	3	0.0
Uncoded & Errors	157	0.3	0	0.0	19	0.1
TOTAL	59,865	100.0	139	100.0	12,739	100.0

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	52,947	88.4	116	83.5	11,157	87.6
Motor home	469	0.8	0	0.0	101	0.8
Pickup truck	5,514	9.2	14	10.1	1,104	8.7
Small Truck under 10,000 lbs. GVWR	369	0.6	2	1.4	73	0.6
Motorcycle	180	0.3	3	2.2	136	1.1
Moped / goped	79	0.1	1	0.7	65	0.5
Go-cart / golf cart	5	0.0	0	0.0	2	0.0
Snowmobile	12	0.0	1	0.7	9	0.1
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	56	0.1	1	0.7	51	0.4
Other	97	0.2	0	0.0	18	0.1
Unknown	35	0.1	1	0.7	2	0.0
CDL Truck/Bus (breakdown below)	102	0.2	0	0.0	21	0.2
TOTAL	59,865	100.0	139	100.0	12,739	100.0

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	4	3.9	0	0	1	4.8
10,001 - 26,000 lbs.	54	52.9	0	0	10	47.6
Greater than 26,000 lbs.	42	41.2	0	0	9	42.9
Uncoded & Errors	2	2.0	0	0	1	4.8
TOTAL	102	100.0	0	0	21	100.0

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	209,987	55.7	899	79.3	44,458	56.8
Turning left	24,514	6.5	57	5.0	6,211	7.9
Turning right	10,250	2.7	11	1.0	1,527	1.9
Stopped on roadway	45,046	11.9	32	2.8	10,427	13.3
In prior crash	341	0.1	0	0.0	106	0.1
Changing lanes	10,324	2.7	12	1.1	1,266	1.6
Backing	7,401	2.0	2	0.2	305	0.4
Slowing/stopping on roadway	43,333	11.5	34	3.0	8,626	11.0
Slowing/stopping other	588	0.2	3	0.3	98	0.1
Starting up on roadway	7,060	1.9	16	1.4	1,535	2.0
Starting up other	102	0.0	0	0.0	25	0.0
Entering parking	327	0.1	0	0.0	25	0.0
Leaving parking	839	0.2	1	0.1	158	0.2
Entering roadway	3,981	1.1	6	0.5	838	1.1
Leaving roadway	469	0.1	6	0.5	132	0.2
Making U-turn	706	0.2	2	0.2	168	0.2
Overtaking or passing	2,056	0.5	12	1.1	366	0.5
Avoiding object	359	0.1	1	0.1	75	0.1
Avoiding pedestrian	82	0.0	3	0.3	37	0.0
Avoiding vehicle (front/back)	2,842	0.8	6	0.5	680	0.9
Avoiding vehicle (angle)	1,194	0.3	4	0.4	266	0.3
Driverless moving	75	0.0	0	0.0	15	0.0
Parked	2,404	0.6	5	0.4	261	0.3
Crossing at intersection	37	0.0	0	0.0	17	0.0
Crossing not at intersection	5	0.0	0	0.0	1	0.0
Getting on/off vehicle	2	0.0	0	0.0	1	0.0
In roadway with traffic	8	0.0	0	0.0	4	0.0
In roadway against traffic	3	0.0	0	0.0	1	0.0
Standing/lying in roadway	4	0.0	0	0.0	2	0.0
Pushing/working on vehicle	1	0.0	0	0.0	0	0.0
Other working in roadway	9	0.0	0	0.0	1	0.0
Playing in roadway	0	0.0	0	0.0	0	0.0
In roadway other reason	4	0.0	0	0.0	1	0.0
Not in roadway	19	0.0	0	0.0	3	0.0
Other	462	0.1	2	0.2	112	0.1
Unknown	768	0.2	6	0.5	150	0.2
Avoiding animal	634	0.2	0	0.0	151	0.2
Negotiating a curve	825	0.2	11	1.0	257	0.3
Uncoded & Errors	146	0.0	2	0.2	28	0.0
TOTAL	377,207	100.0	1,133	100.0	78,334	100.0

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	1,718	0.5	6	0.5	533	0.7
Cross center/median	264	0.1	1	0.1	66	0.1
Ran off road left	687	0.2	1	0.1	174	0.2
Ran off road right	1,136	0.3	1	0.1	259	0.3
Re-enter road	72	0.0	0	0.0	12	0.0
Overtake	4,731	1.3	68	6.0	2,289	2.9
Separation of units	141	0.0	0	0.0	35	0.0
Fire/explosion	297	0.1	5	0.4	36	0.0
Immersion	35	0.0	3	0.3	5	0.0
Jackknife	189	0.1	0	0.0	15	0.0
Downhill runaway	9	0.0	0	0.0	4	0.0
Cargo loss/shift	304	0.1	0	0.0	14	0.0
Individual fell off	295	0.1	14	1.2	257	0.3
Other noncollision	936	0.2	1	0.1	204	0.3
SUBTOTAL	10,814	2.9	100	8.8	3,903	5.0

For drivers age 21-64, an overtake is the most harmful event in a noncollision with the highest proportion of all crashes (1.3%), fatal crashes (6.0%), and injury crashes (2.9%)

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	1,203	0.3	117	10.3	947	1.2
Bicyclist	1,141	0.3	21	1.9	889	1.1
Motor vehicle in transport	282,864	75.0	703	62.0	63,936	81.6
Parked motor vehicle	7,556	2.0	6	0.5	805	1.0
Railway train	35	0.0	2	0.2	13	0.0
Animal	39,951	10.6	5	0.4	752	1.0
Other nonfixed objects	3,251	0.9	6	0.5	255	0.3
SUBTOTAL	336,001	89.1	860	75.9	67,597	86.3

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	227	0.1	1	0.1	51	0.1
Bridge rail	313	0.1	1	0.1	48	0.1
Guardrail face	2,181	0.6	6	0.5	388	0.5
Guardrail end	427	0.1	1	0.1	110	0.1
Median barrier	3,552	0.9	4	0.4	915	1.2
Highway traffic sign post	1,875	0.5	6	0.5	138	0.2
Highway signal post	141	0.0	0	0.0	24	0.0
Luminaire/light support	2,523	0.7	16	1.4	712	0.9
Other pole	721	0.2	2	0.2	112	0.1
Culvert	327	0.1	1	0.1	107	0.1
Curb	1,161	0.3	4	0.4	170	0.2
Ditch	4,392	1.2	9	0.8	954	1.2
Embankment	824	0.2	4	0.4	219	0.3
Fence	540	0.1	0	0.0	81	0.1
Mailbox	991	0.3	0	0.0	47	0.1
Tree	6,378	1.7	98	8.6	2,042	2.6
Rail crossing signal	69	0.0	0	0.0	13	0.0
Building	375	0.1	6	0.5	133	0.2
Traffic island	36	0.0	1	0.1	6	0.0
Fire hydrant	349	0.1	0	0.0	54	0.1
Impact attenuator	71	0.0	2	0.2	20	0.0
Other fixed object	1,474	0.4	6	0.5	310	0.4
SUBTOTAL	28,947	7.7	168	14.8	6,654	8.5

For drivers age 21-64, a tree is the fixed object associated with the highest proportion of all crashes (1.7%), fatal crashes (8.6%), 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	1,370	0.4	5	0.4	161	0.2
No event coded as most harmful	75	0.0	0	0.0	19	0.0
TOTAL	377,207	100.0	1,133	100.0	78,334	100.0

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	78,783	20.9	365	32.2	11,287	14.4
Head On	4,856	1.3	187	16.5	2,316	3.0
Head On - Left Turn	10,725	2.8	68	6.0	4,563	5.8
Angle	65,792	17.4	288	25.4	18,770	24.0
Rear End	131,404	34.8	126	11.1	29,269	37.4
Rear End - Left Turn	4,929	1.3	20	1.8	1,336	1.7
Rear End - Right Turn	4,331	1.1	2	0.2	667	0.9
Sideswipe - Same Direction	46,285	12.3	19	1.7	4,354	5.6
Sideswipe - Opposite Direction	7,417	2.0	26	2.3	1,219	1.6
Backing	2,684	0.7	0	0.0	92	0.1
Other	19,054	5.1	32	2.8	4,244	5.4
Unknown	860	0.2	0	0.0	202	0.3
Uncoded & Errors	87	0.0	0	0.0	15	0.0
TOTAL	377,207	100.0	1,133	100.0	78,334	100.0

Based on crash type, drivers age 21-64 are involved in the largest proportion of rear end crashes for all crashes (34.8%) and for injury crashes (37.4%). The single vehicle type has the largest proportion of drivers in fatal crashes (32.2%).

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	345,586	91.6	932	82.3	70,839	90.4
Median	2,546	0.7	11	1.0	582	0.7
Shoulder	9,342	2.5	64	5.6	2,032	2.6
Outside of Shoulder/Curb	15,927	4.2	110	9.7	4,184	5.3
Gore	740	0.2	5	0.4	203	0.3
On-Street Parking	927	0.2	1	0.1	61	0.1
Off the Roadway	107	0.0	0	0.0	38	0.0
On the Sidewalk	167	0.0	1	0.1	69	0.1
In the Bicycle Lane	29	0.0	0	0.0	12	0.0
Other/Unknown	1,593	0.4	9	0.8	293	0.4
Uncoded & Errors	243	0.1	0	0.0	21	0.0
TOTAL	377,207	100.0	1,133	100.0	78,334	100.0

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 (4.2%), fatal crashes (9.7%), and injury crashes (5.3%).

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	53,835	14.3	145	12.8	11,142	14.2
U.S. & Michigan Roads	116,067	30.8	367	32.4	24,598	31.4
County & City Roads	206,803	54.8	621	54.8	42,469	54.2
Uncoded & Errors	502	0.1	0	0.0	125	0.2
TOTAL	377,207	100.0	1,133	100.0	78,334	100.0

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 - 02:59 AM	12,891	3.4	125	11.0	3,096	4.0
03:00 AM - 05:59 AM	12,750	3.4	96	8.5	2,317	3.0
06:00 AM - 08:59 AM	57,848	15.3	102	9.0	10,414	13.3
09:00 AM - 11:59 AM	46,759	12.4	121	10.7	9,736	12.4
12:00 PM - 02:59 PM	65,113	17.3	143	12.6	14,570	18.6
03:00 PM - 05:59 PM	99,375	26.3	213	18.8	21,454	27.4
06:00 PM - 08:59 PM	55,025	14.6	172	15.2	10,973	14.0
09:00 PM - 11:59 PM	27,191	7.2	159	14.0	5,717	7.3
Unknown	255	0.1	2	0.2	57	0.1
TOTAL	377,207	100.0	1,133	100.0	78,334	100.0

For drivers age 21-64, the 3:00 - 5:59 PM time period has the highest proportion of all crashes (26.3%), fatal crashes (18.8%), and injury crashes (27.4%).

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	210,424	55.8	515	45.5	40,166	51.3	719	0.9
Speed too fast	22,352	5.9	150	13.2	5,110	6.5	7630	9.9
Speed too slow	225	0.1	0	0.0	56	0.1	78	0.1
Failed to yield	29,536	7.8	54	4.8	7,731	9.9	17023	22.1
Disregard traffic control	6,921	1.8	58	5.1	2,889	3.7	4237	5.5
Drove wrong way	256	0.1	5	0.4	98	0.1	101	0.1
Drove left of center	1,636	0.4	37	3.3	575	0.7	678	0.9
Improper passing	1,711	0.5	4	0.4	218	0.3	676	0.9
Improper lane use	8,078	2.1	9	0.8	898	1.1	3573	4.6
Improper turn	3,340	0.9	5	0.4	582	0.7	1522	2.0
Improper/no signal	372	0.1	0	0.0	56	0.1	119	0.2
Improper backing	5,348	1.4	1	0.1	157	0.2	1703	2.2
Unable to stop in assured clear distance	54,321	14.4	34	3.0	11,175	14.3	29357	38.2
Other	12,268	3.3	61	5.4	2,811	3.6	3467	4.5
Unknown	9,173	2.4	92	8.1	2,062	2.6	307	0.4
Reckless driving	1,727	0.5	48	4.2	710	0.9	714	0.9
Careless/negligent driving	9,202	2.4	57	5.0	2,985	3.8	5015	6.5
Uncoded & Errors	317	0.1	3	0.3	55	0.1	25	0.0
TOTAL	377,207	100.0	1,133	100.0	78,334	100.0	76944	100.0

After no hazardous action, the second highest hazardous action category for drivers age 21-64 for all crashes (14.4%) and injury crashes (14.3%) 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 (13.2%).

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	53,853	14.3	138	12.2	11,090	14.2
Tuesday	58,532	15.5	143	12.6	11,592	14.8
Wednesday	61,148	16.2	156	13.8	12,405	15.8
Thursday	61,376	16.3	153	13.5	12,416	15.9
Friday	64,572	17.1	176	15.5	13,164	16.8
Saturday	43,556	11.5	200	17.7	9,929	12.7
Sunday	34,170	9.1	167	14.7	7,738	9.9
TOTAL	377,207	100.0	1,133	100.0	78,334	100.0

DRIVER GENDER	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Male	208,429	55.3	807	71.2	41,879	53.5
Female	168,675	44.7	326	28.8	36,445	46.5
Uncoded & Errors	103	0.0	0	0.0	10	0.0
TOTAL	377,207	100.0	1,133	100.0	78,334	100.0

For drivers age 21-64, male drivers (71.2%) account for almost two and a half times that of female drivers (28.8%) 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	298,032	79.0	785	69.3	56,966	72.7
2 occupants	52,796	14.0	219	19.3	14,009	17.9
3 occupants	14,608	3.9	66	5.8	4,212	5.4
4 occupants	6,041	1.6	41	3.6	1,807	2.3
5 occupants	2,066	0.5	14	1.2	668	0.9
6+ occupants	1,388	0.4	7	0.6	425	0.5
0 occupants	1,413	0.4	0	0.0	108	0.1
Uncoded & Errors	863	0.2	1	0.1	139	0.2
TOTAL	377,207	100.0	1,133	100.0	78,334	100.0

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	305,947	81.1	694	61.3	63,351	80.9
Motor home	6,966	1.8	17	1.5	1,447	1.8
Pickup truck	44,189	11.7	154	13.6	8,064	10.3
Small Truck under 10,000 lbs. GVWR	3,649	1.0	4	0.4	642	0.8
Motorcycle	2,818	0.7	124	10.9	2,107	2.7
Moped / goped	253	0.1	8	0.7	215	0.3
Go-cart / golf cart	24	0.0	0	0.0	9	0.0
Snowmobile	80	0.0	8	0.7	46	0.1
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	167	0.0	13	1.1	135	0.2
Other	1,762	0.5	7	0.6	317	0.4
Unknown	256	0.1	0	0.0	34	0.0
CDL Truck/Bus (breakdown below)	11,096	2.9	104	9.2	1,967	2.5
TOTAL	377,207	100.0	1,133	100.0	78,334	100.0

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	284	2.6	0	0.0	15	0.8
10,001 - 26,000 lbs.	2,295	20.7	12	11.5	347	17.6
Greater than 26,000 lbs.	8,426	75.9	92	88.5	1,603	81.5
Uncoded & Errors	91	0.8	0	0.0	2	0.1
TOTAL	11,096	100.0	104	100.0	1,967	100.0

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	26,643	50.9	139	62.3	5,778	51.3
Turning left	5,328	10.2	42	18.8	1,580	14.0
Turning right	2,120	4.0	0	0.0	300	2.7
Stopped on roadway	5,974	11.4	6	2.7	1,478	13.1
In prior crash	26	0.0	0	0.0	10	0.1
Changing lanes	1,810	3.5	0	0.0	144	1.3
Backing	1,579	3.0	0	0.0	54	0.5
Slowing/stopping on roadway	4,796	9.2	3	1.3	1,034	9.2
Slowing/stopping other	76	0.1	1	0.4	21	0.2
Starting up on roadway	1,205	2.3	7	3.1	302	2.7
Starting up other	19	0.0	0	0.0	4	0.0
Entering parking	76	0.1	0	0.0	5	0.0
Leaving parking	184	0.4	0	0.0	17	0.2
Entering roadway	1,048	2.0	7	3.1	231	2.1
Leaving roadway	76	0.1	0	0.0	28	0.2
Making U-turn	166	0.3	1	0.4	44	0.4
Overtaking or passing	241	0.5	5	2.2	46	0.4
Avoiding object	29	0.1	0	0.0	6	0.1
Avoiding pedestrian	6	0.0	0	0.0	2	0.0
Avoiding vehicle (front/back)	241	0.5	5	2.2	53	0.5
Avoiding vehicle (angle)	98	0.2	0	0.0	23	0.2
Driverless moving	14	0.0	0	0.0	4	0.0
Parked	309	0.6	1	0.4	32	0.3
Crossing at intersection	7	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	4	0.0	0	0.0	1	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	1	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	4	0.0	0	0.0	3	0.0
Other	56	0.1	1	0.4	13	0.1
Unknown	65	0.1	2	0.9	16	0.1
Avoiding animal	37	0.1	0	0.0	8	0.1
Negotiating a curve	86	0.2	3	1.3	24	0.2
Uncoded & Errors	38	0.1	0	0.0	6	0.1
TOTAL	52,362	100.0	223	100.0	11,267	100.0

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	139	0.3	0	0.0	44	0.4
Cross center/median	36	0.1	0	0.0	8	0.1
Ran off road left	58	0.1	0	0.0	14	0.1
Ran off road right	113	0.2	0	0.0	22	0.2
Re-enter road	7	0.0	0	0.0	1	0.0
Overtake	342	0.7	5	2.2	201	1.8
Separation of units	26	0.0	0	0.0	2	0.0
Fire/explosion	18	0.0	1	0.4	1	0.0
Immersion	4	0.0	0	0.0	2	0.0
Jackknife	7	0.0	0	0.0	0	0.0
Downhill runaway	4	0.0	0	0.0	0	0.0
Cargo loss/shift	37	0.1	0	0.0	2	0.0
Individual fell off	31	0.1	3	1.3	24	0.2
Other noncollision	117	0.2	0	0.0	28	0.2
SUBTOTAL	939	1.8	9	4.0	349	3.1

For drivers age 65 and over, an overtake is the most harmful event in a noncollision with the highest proportion of drivers in all crashes (0.7%), fatal crashes (2.2%), and injury crashes (1.8%).

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	207	0.4	12	5.4	172	1.5
Bicyclist	224	0.4	5	2.2	162	1.4
Motor vehicle in transport	41,120	78.5	165	74.0	9,622	85.4
Parked motor vehicle	1,267	2.4	0	0.0	107	0.9
Railway train	6	0.0	1	0.4	5	0.0
Animal	5,271	10.1	2	0.9	100	0.9
Other nonfixed objects	425	0.8	0	0.0	40	0.4
SUBTOTAL	48,520	92.7	185	83.0	10,208	90.6

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	20	0.0	1	0.4	5	0.0
Bridge rail	22	0.0	0	0.0	3	0.0
Guardrail face	161	0.3	3	1.3	36	0.3
Guardrail end	33	0.1	0	0.0	9	0.1
Median barrier	157	0.3	1	0.4	49	0.4
Highway traffic sign post	259	0.5	1	0.4	14	0.1
Highway signal post	18	0.0	0	0.0	1	0.0
Luminaire/light support	261	0.5	1	0.4	85	0.8
Other pole	82	0.2	0	0.0	10	0.1
Culvert	38	0.1	1	0.4	10	0.1
Curb	102	0.2	0	0.0	14	0.1
Ditch	399	0.8	2	0.9	101	0.9
Embankment	81	0.2	0	0.0	29	0.3
Fence	48	0.1	0	0.0	7	0.1
Mailbox	130	0.2	0	0.0	13	0.1
Tree	648	1.2	16	7.2	222	2.0
Rail crossing signal	12	0.0	1	0.4	2	0.0
Building	48	0.1	0	0.0	23	0.2
Traffic island	5	0.0	0	0.0	1	0.0
Fire hydrant	30	0.1	0	0.0	6	0.1
Impact attenuator	11	0.0	0	0.0	5	0.0
Other fixed object	157	0.3	1	0.4	41	0.4
SUBTOTAL	2,722	5.2	28	12.6	686	6.1

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 (7.2%), 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	168	0.3	1	0.4	21	0.2
No event coded as most harmful	13	0.0	0	0.0	3	0.0
TOTAL	52,362	100.0	223	100.0	11,267	100.0

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	8,993	17.2	53	23.8	1,223	10.9
Head On	661	1.3	36	16.1	323	2.9
Head On - Left Turn	2,036	3.9	28	12.6	922	8.2
Angle	12,341	23.6	73	32.7	3,499	31.1
Rear End	14,914	28.5	23	10.3	3,591	31.9
Rear End - Left Turn	721	1.4	2	0.9	220	2.0
Rear End - Right Turn	531	1.0	0	0.0	75	0.7
Sideswipe - Same Direction	7,396	14.1	3	1.3	561	5.0
Sideswipe - Opposite Direction	1,157	2.2	4	1.8	187	1.7
Backing	590	1.1	0	0.0	15	0.1
Other	2,875	5.5	1	0.4	618	5.5
Unknown	130	0.2	0	0.0	29	0.3
Uncoded & Errors	17	0.0	0	0.0	4	0.0
TOTAL	52,362	100.0	223	100.0	11,267	100.0

Based on crash type, drivers age 65 and over are involved in the largest proportion of rear end crashes for all crashes (28.5%) and injury crashes (31.9%), and the largest proportion of angle crashes for fatal crashes (32.7%).

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	49,075	93.7	190	85.2	10,478	93.0
Median	244	0.5	1	0.4	59	0.5
Shoulder	927	1.8	8	3.6	189	1.7
Outside of Shoulder/Curb	1,545	3.0	23	10.3	437	3.9
Gore	66	0.1	1	0.4	22	0.2
On-Street Parking	206	0.4	0	0.0	12	0.1
Off the Roadway	13	0.0	0	0.0	6	0.1
On the Sidewalk	35	0.1	0	0.0	15	0.1
In the Bicycle Lane	7	0.0	0	0.0	1	0.0
Other/Unknown	201	0.4	0	0.0	46	0.4
Uncoded & Errors	43	0.1	0	0.0	2	0.0
TOTAL	52,362	100.0	223	100.0	11,267	100.0

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 (3.0%), fatal crashes (10.3%), and injury crashes (3.9%).

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	4,794	9.2	19	8.5	989	8.8
U.S. & Michigan Roads	17,131	32.7	82	36.8	3,721	33.0
County & City Roads	30,346	58.0	122	54.7	6,540	58.0
Uncoded & Errors	91	0.2	0	0.0	17	0.2
TOTAL	52,362	100.0	223	100.0	11,267	100.0

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 - 02:59 AM	554	1.1	7	3.1	95	0.8
03:00 AM - 05:59 AM	589	1.1	7	3.1	94	0.8
06:00 AM - 08:59 AM	4,504	8.6	14	6.3	894	7.9
09:00 AM - 11:59 AM	10,028	19.2	40	17.9	2,150	19.1
12:00 PM - 02:59 PM	13,710	26.2	53	23.8	3,224	28.6
03:00 PM - 05:59 PM	13,885	26.5	61	27.4	3,092	27.4
06:00 PM - 08:59 PM	6,728	12.8	30	13.5	1,322	11.7
09:00 PM - 11:59 PM	2,334	4.5	11	4.9	388	3.4
Unknown	30	0.1	0	0.0	8	0.1
TOTAL	52,362	100.0	223	100.0	11,267	100.0

For drivers age 65 and over, the 3:00 - 5:59 PM time period has the highest proportion of drivers in all crashes (26.5%) and fatal crashes (27.4%). The 12:00 - 2:59 PM time period has the highest proportion of drivers in injury crashes (28.6%).

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	27,900	53.3	88	39.5	5,522	49.0	87	0.8
Speed too fast	1,472	2.8	10	4.5	346	3.1	380	3.7
Speed too slow	29	0.1	0	0.0	8	0.1	7	0.1
Failed to yield	7,838	15.0	46	20.6	2,139	19.0	3997	38.8
Disregard traffic control	1,317	2.5	13	5.8	529	4.7	755	7.3
Drove wrong way	53	0.1	4	1.8	20	0.2	19	0.2
Drove left of center	291	0.6	8	3.6	103	0.9	115	1.1
Improper passing	253	0.5	2	0.9	34	0.3	93	0.9
Improper lane use	1,668	3.2	5	2.2	156	1.4	698	6.8
Improper turn	828	1.6	1	0.4	135	1.2	362	3.5
Improper/no signal	71	0.1	0	0.0	15	0.1	24	0.2
Improper backing	1,171	2.2	0	0.0	28	0.2	275	2.7
Unable to stop in assured clear distance	5,331	10.2	8	3.6	1,240	11.0	2618	25.4
Other	1,702	3.3	7	3.1	368	3.3	363	3.5
Unknown	1,350	2.6	24	10.8	287	2.5	15	0.1
Reckless driving	54	0.1	1	0.4	20	0.2	15	0.1
Careless/negligent driving	989	1.9	6	2.7	308	2.7	478	4.6
Uncoded & Errors	45	0.1	0	0.0	9	0.1	1	0.0
TOTAL	52,362	100.0	223	100.0	11,267	100.0	10302	100.0

After no hazardous action, the second highest hazardous action category for drivers age 65 and over for all crashes (15.0%), fatal crashes (20.6%), and injury crashes (19.0%) 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	7,693	14.7	36	16.1	1,649	14.6
Tuesday	8,253	15.8	36	16.1	1,749	15.5
Wednesday	8,393	16.0	33	14.8	1,826	16.2
Thursday	8,532	16.3	30	13.5	1,767	15.7
Friday	9,006	17.2	31	13.9	1,929	17.1
Saturday	5,989	11.4	33	14.8	1,346	11.9
Sunday	4,496	8.6	24	10.8	1,001	8.9
TOTAL	52,362	100.0	223	100.0	11,267	100.0

DRIVER GENDER	ALL CRASHES		FATAL CRASHES		INJURY CRASHES	
	Number of Drivers	% of Total	Number of Drivers	% of Total	Number of Drivers	% of Total
Male	30,095	57.5	152	68.2	6,326	56.1
Female	22,259	42.5	71	31.8	4,939	43.8
Uncoded & Errors	8	0.0	0	0.0	2	0.0
TOTAL	52,362	100.0	223	100.0	11,267	100.0

For drivers age 65 and over, male drivers (68.2%) account for over two times that of female drivers (31.8%) 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	40,795	77.9	158	70.9	8,188	72.7
2 occupants	9,702	18.5	57	25.6	2,635	23.4
3 occupants	1,031	2.0	6	2.7	278	2.5
4 occupants	386	0.7	1	0.4	95	0.8
5 occupants	97	0.2	1	0.4	25	0.2
6+ occupants	87	0.2	0	0.0	20	0.2
0 occupants	196	0.4	0	0.0	18	0.2
Uncoded & Errors	68	0.1	0	0.0	8	0.1
TOTAL	52,362	100.0	223	100.0	11,267	100.0

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	44,153	84.3	165	74.0	9,492	84.2
Motor home	909	1.7	1	0.4	200	1.8
Pickup truck	5,726	10.9	26	11.7	1,099	9.8
Small Truck under 10,000 lbs. GVWR	389	0.7	4	1.8	76	0.7
Motorcycle	261	0.5	18	8.1	191	1.7
Moped / goped	20	0.0	2	0.9	15	0.1
Go-cart / golf cart	7	0.0	0	0.0	4	0.0
Snowmobile	7	0.0	0	0.0	5	0.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	15	0.0	0	0.0	11	0.1
Other	138	0.3	3	1.3	35	0.3
Unknown	26	0.0	0	0.0	2	0.0
CDL Truck/Bus (breakdown below)	711	1.4	4	1.8	137	1.2
TOTAL	52,362	100.0	223	100.0	11,267	100.0

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	19	2.7	0	0.0	2	1.5
10,001 - 26,000 lbs.	176	24.8	1	25.0	27	19.7
Greater than 26,000 lbs.	507	71.3	3	75.0	107	78.1
Uncoded & Errors	9	1.3	0	0.0	1	0.7
TOTAL	711	100.0	4	100.0	137	100.0