

Crashes by Number of Units Involved

While crashes involving a single vehicle occur less frequently than crashes involving multiple vehicles, the resulting injuries are often more severe. Single-vehicle crashes were 2.3 times as likely to result in a fatality as multiple-vehicle crashes were in 2019. Table 6 shows the number of crashes and injuries involving both single and multiple vehicles by the severity of the crash and injury. Multiple-vehicle crashes include crashes between more than one motorized vehicle and crashes between a motor vehicle and a pedestrian, bicyclist, train, or equestrian.

Type of Crash	Single Vehicle		Multiple Vehicles	
	Crashes	Injuries	Crashes	Injuries
Fatal	95	99	106	125
Suspected Serious Injury	330	385	601	769
Suspected Minor Injury	822	1,003	2,119	2,886
Possible Injury	1,145	1,512	4,136	6,776
Property Damage	5,098		12,563	
Total	7,490	2,999	19,525	10,556

In 2019, single-vehicle crashes represented only 28% of all crashes, yet accounted for 47% of all fatal crashes. Of the 95 fatal single-vehicle crashes, 80 (84%) occurred on rural roadways.

Of the 106 multiple-vehicle fatal crashes, 13 involved a pedestrian, 4 involved a bicycle, and 1 involved a snowmobile. The other 88 (83%) involved two or more motor vehicles. Of the 114 fatal multiple-vehicle crashes, 69 (or 65%) occurred on rural roadways.

Figures 2 and 3, on the following page, show the most prevalent contributing circumstances for single- and multiple-vehicle crashes. The “all other contributing circumstances” category combines the remaining contributing circumstances, i.e., contributing circumstances with percentages less than 2%. Contributing circumstances of none, not applicable and unknown were excluded from the total in the percentage calculation.

Speed played the biggest role in single-vehicle crashes, contributing to 22% of single-vehicle crashes. Animal(s) in the Roadway was the second most prevalent contributing circumstance for single-vehicle crashes at 17%. Fail to Maintain Lane was the third most prevalent contributing circumstance for single-vehicle crashes at 15% as well as contributing to 3% of multiple vehicle crashes.

Follow Too Close was the most prevalent contributing circumstance for multiple vehicle crashes, with Inattention/Distraction and Fail to Yield with just slightly fewer occurrences. Each of the three was a contributing factor to roughly 1 in 5 multiple vehicle crashes. Inattention/Distraction also contributed to 11% of single vehicle crashes.

Impaired driving contributed to 9% of single vehicle crashes and 4% of multiple vehicle crashes.

Figure 3
Single-Vehicle Crashes – Contributing Circumstances: 2019

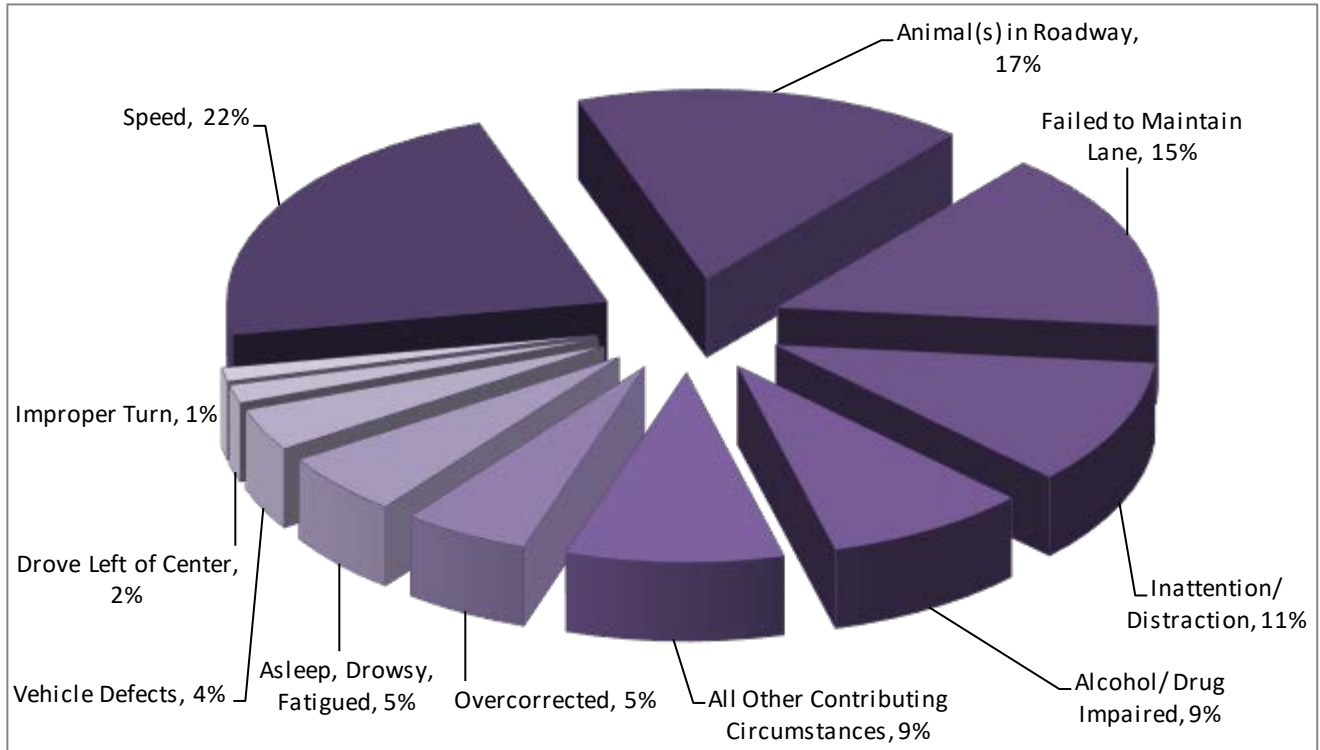


Figure 4
Multiple-Vehicle Crashes – Contributing Circumstances: 2019

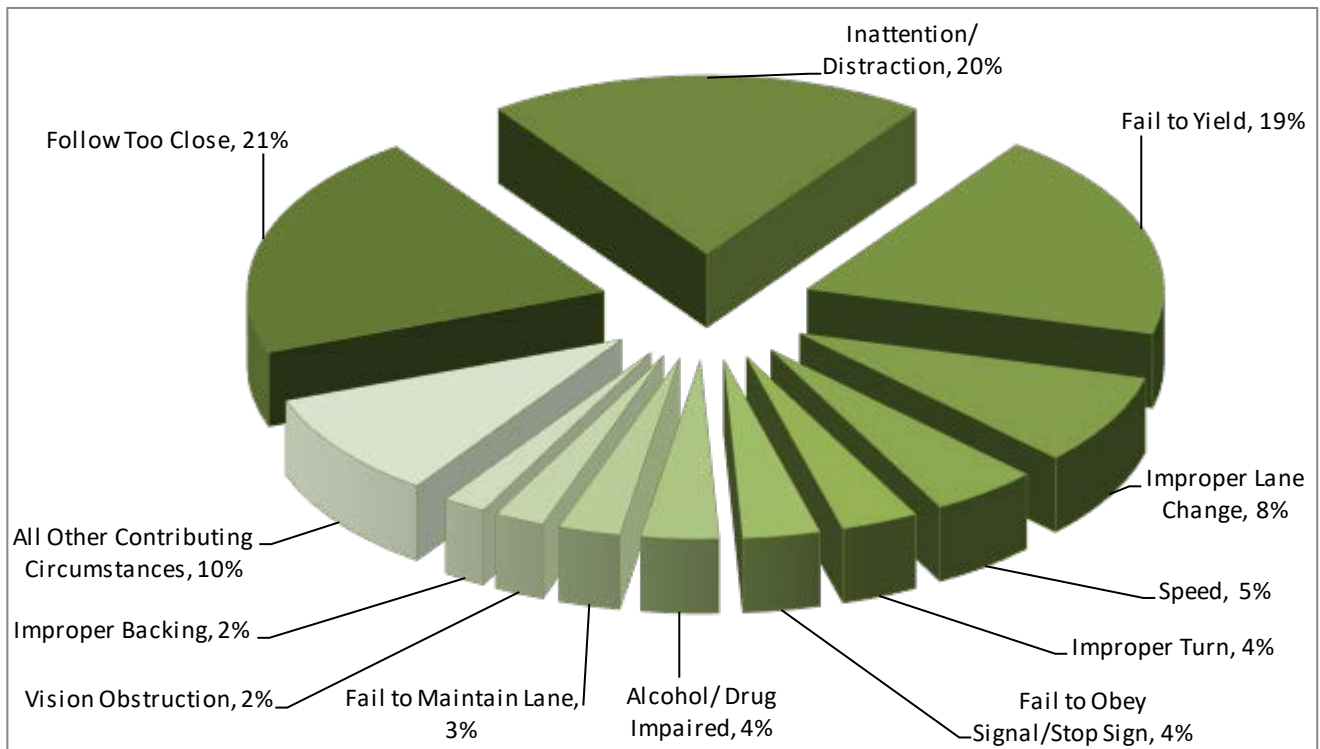


Table 7 shows the most harmful events for fatal single- and multiple-vehicle crashes.

Table 7	
Most Harmful Events for Fatal Crashes Involving Single and Multiple Vehicles: 2019	
Single-Vehicle Crashes	Multiple-Vehicle Crashes*
Overturn (60.0%)	Head On (29.5%)
Tree (11.6%)	Angle (13.7%)
Immersion (4.2%)	Rear-End (13.7%)
Other Fixed Object (4.2%)	Pedestrian (12.4%)
Guardrail Face (3.2%)	Angle - Turning (7.3%)
Utility/Light Support (3.2%)	Overturn (4.7%)
Embankment (2.1%)	Pedalcycle (3.8%)
Fire / Explosion (2.1%)	Side Swiped Opposite (3.8%)
Bridge/Pier/Abutment (1.1%)	Parked Car (2.1%)
Building Wall (1.1%)	Side Swiped - Same Direction (1.3%)
Ditch (1.1%)	Fire / Explosion (0.9%)
Fence (1.1%)	Other (0.9%)
Other (1.1%)	Other Object Not Fixed (0.9%)
Other Non-Collision (1.1%)	Rear-End Turning (0.9%)
Other Object Not Fixed (1.1%)	Same Direction Turning (0.9%)
Other Post, Pole, or Support (1.1%)	Struck by Falling/Shifting Cargo (0.9%)
Separation of Units (1.1%)	Cargo Loss / Shift (0.4%)
	Ditch (0.4%)
	Non-Contact Unit (0.4%)
	Other Post, Pole, or Support (0.4%)
	Separation of Units (0.4%)
	Traffic Sign Support (0.4%)

*The percentages represent the number of vehicles the most harmful event was attributed to. Multiple units involved in a single crash may not have the same most harmful event. In 2019, there were 234 units involved in the 106 fatal multiple vehicle crashes.

Overturn was the leading most harmful event for fatal single-vehicle crashes. Single-vehicle rollovers accounted for 61% of the single vehicle fatalities and 27% of all fatalities in 2019.

Of the 48 passenger motor vehicle occupants killed in single-vehicle rollovers, 9 (or 19%) were wearing seat belts or were in a child safety seat. Of the 38 passenger motor vehicle occupants who were killed in single-vehicle rollovers and not wearing a seat belt, 31 (or 82%) were totally or partially ejected from their vehicle.

Seat belts are estimated to be more effective in preventing fatalities in rollover crashes. Seat belt use reduces fatalities by 74% in rollover crashes involving passenger cars and by 80% in rollover crashes involving light trucks³. By these estimates, 29 of the 38 unbelted passenger motor vehicle occupants killed in rollover crashes may have survived if they had been wearing their seat belt.