Motor Vehicle Safety Fact Sheet (2013)

Fatalities

Motor vehicle crashes
- 3,311 children ages 19 and under died in motor vehicle crashes in 2011 as occupants or drivers. This is a 50% decrease in the number of fatalities since 2000, and 51% decrease in the death rate.¹
- Teens ages 15-19 years old made up 75% of motor vehicle occupant/driver fatalities in 2011.¹
- Boys made up 62% of motor vehicle occupant/driver fatalities in 2011.¹
- Of children ages 8 and under who died in motor vehicle crashes in 2011, 29% were unrestrained.¹

Frontovers and backovers
- 262 children ages 14 and under died in not-in-traffic crashes in 2007. 45% of these deaths were backovers, and 49% were frontovers.²

Heatstroke
- 32 children, ranging in age from 2 months to 5 years, died from heatstroke while left in cars in 2012.³

2000-2011 MV Occupant Crash Fatalities and Death Rate Among Children Ages 19 and Under

Death Rate per 100,000 Children
Person Type codes used were 1: Driver of a MV In-Transport, 2: Passenger of a MV In-Transport, 9: Unknown Occupant Type in a MV In-Transport
Injuries

**Motor vehicle crashes**
- 476,773 children ages 19 and under were seen in emergency rooms for motor vehicle crash injuries in 2011. Of these, 293,530, or 62%, were ages 15 to 19.⁴

**Frontovers and backovers**
- 92,000 children ages 14 and under are seen in emergency rooms for not-in-traffic crash injuries each year, based on annualized estimates from 2008 to 2010.⁵

**Heatstroke**
- <500 children ages 14 and under are seen in emergency rooms for heat exhaustion in cars each year, based on annualized estimates from 2008 to 2010.⁵

Additional Statistics

**Child passenger safety**
- Motor vehicle crashes are the number one cause of death among children ages 1 to 19.⁴
- Children should ride in a back seat until they are at least 13 years of age.⁶ ⁷
- Children 2 to 5 years of age using safety belts prematurely are four times more likely to suffer a serious head injury in a crash than those restrained in child safety seats or booster seats.⁸
- When installed and used correctly, child safety seats and safety belts can prevent injuries and save lives. Child safety seats can reduce fatal injury by up to 71 percent for infants and 54 percent for toddlers (ages 1 to 4).⁶
- The overall critical misuse for child restraints is about 73 percent. Infant seats have the highest percent of critical misuse, followed by rear-facing convertible seats.⁹
- It is estimated that 309 children were saved due to restraint use in 2009 alone.¹⁰

**Frontovers and backovers**
- Sports utility vehicles and trucks are involved in more backovers than cars.¹¹
- Approximately 39 percent of backover deaths occurred at home in the driveway, an apartment parking lot or in a townhome complex.¹¹
- Drivers in backover and frontover deaths are often family members or family friends of the injured child.¹²

**Heatstroke**
- Heatstroke is the number one cause of non-crash, vehicle-related death in children ages 14 and under.²
- Within 10 minutes, the inside temperature of a vehicle can be up to 20 degrees hotter than the outside temperature; after 30 minutes the vehicle’s temperature can be up to 34 degrees hotter.¹³
- A child’s body does not have the same internal temperature control as an adult’s and can warm three times to five times faster. Body temperature may rise to 106 degrees Fahrenheit within 10 to 15 minutes.¹³¹⁴
- More than 50 percent of hyperthermia deaths among children in vehicles occurred when a child was “forgotten” by a parent or caregiver, 30 percent of deaths occurred when a child gained access to an unattended vehicle and 17 percent occurred when a child was intentionally left in a vehicle.¹⁵

### Teen passengers and teen drivers
- The risk for crashes is higher for newly licensed teen drivers, teens driving with other teens, and male teens, compared to other teenagers.¹⁶
- Mile for mile, teens ages 16 to 19 are three times more likely to be involved in a crash compared to older drivers.¹⁷
- Compared with other age groups, teens have the lowest rate of seat belt use. Only 54% of high school students reported always wearing a seat belt when riding with someone else.¹⁶
- Comprehensive graduated driver licensing (GDL) programs have been linked to a 38% reduction in fatal crashes, and a 40% reduction in injury crashes.¹⁶

### References


Last updated March 2013. If you have a question about this factsheet, please call 202-662-0600.