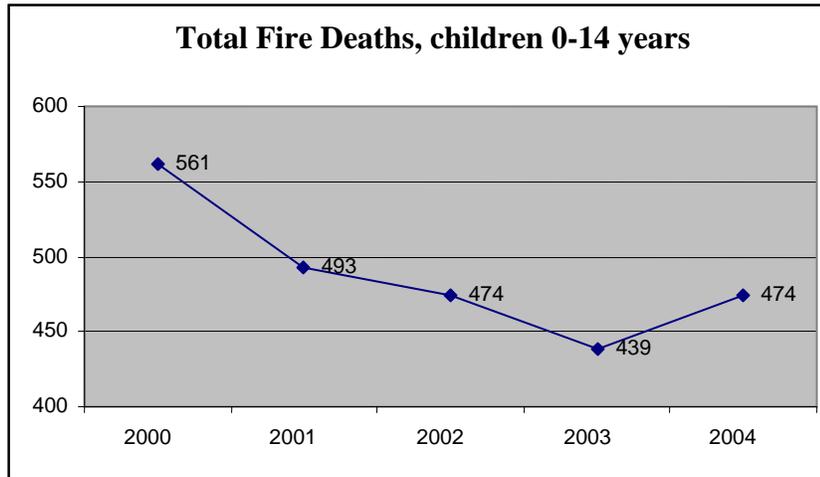


Fire Safety

Key Facts

- Each year, approximately 488 children ages 14 and under die in residential fires.¹



- An average of 116,600 children are injured from a fire/burn-related incident, each year.²
- Fires and burns are the third leading cause of unintentional death among children aged 1-14 years.³
- When a child is injured or dies from a residential fire, a smoke alarm is not working or not present in two-thirds of these occurrences.^{4 5}
- Each year approximately 300 people are killed in fires started by children playing with fire.⁶
- Having a working smoke alarm reduces one's chances of dying in a fire by nearly half.⁷

Where, When and How

- Children playing with fire account for 4 percent of home fires. These fires cause 40 percent of home fire-related deaths among children under age 5.⁸
- Nearly 40 percent of home fires and more than 50 percent of all home fire-related deaths occur in the 6 percent of houses without smoke alarms.⁹
- During the cold-weather months of December through March, home fires and home fire-related deaths are more likely to occur.^{10 11}
- Smoking materials (e.g., cigarettes) are the leading cause of fire-related death and the fourth leading cause of fire-related injury in homes.^{12 13}
- Home cooking equipment is the leading cause of injuries in residential fires.¹⁴

Who

- Children under 5 years of age are at the greatest risk from home fire death and injury; their death rate is nearly twice the national average.^{15 16}
- Children living in rural areas have a dramatically higher risk of dying in a residential fire. Death rates in rural communities are more than twice the rates in large cities and more than three times higher than rates in large towns and small cities.^{17 18}
- Black children are more than three times as likely as white children to die in a fire.¹⁹
- Male children have a slightly higher risk for fire-related deaths than females, with 57 percent of deaths occurring to boys ages 14 and under.²⁰

Proven Interventions

- On average, a \$33 smoke alarm generates \$940 in benefits to society.²¹
- Smoke alarms and sprinkler systems combined could reduce fire-related deaths by 82 percent and injuries by 46 percent.²²

Costs

- Each year in the United States, \$280 million in property is destroyed by children playing with fire.²³
- The total annual cost of fire- and burn-related deaths among children ages 14 and under is more than \$2.6 billion. Children ages 4 and under account for more than \$1.4 billion of these costs.²⁴

Laws and Regulations

- Many states and the District of Columbia have laws requiring the use of smoke alarms in new and existing homes. A few states still have no comprehensive smoke alarm laws. Other states have a variety of laws covering specific situations such as new dwellings or multi-occupancy dwellings only.²⁵
- In 1994, the U.S. Consumer Product Safety Commission (CPSC) issued a mandatory safety standard requiring disposable and novelty cigarette lighters to be child-resistant.²⁶ Since this has been in effect, the number of deaths and injuries associated with these fires has declined by 31 percent and 26 percent, respectively.²⁷
- To protect children from burns, the CPSC issued regulations requiring that children's sleepwear must be flame-resistant and self-extinguish if a flame causes it to catch fire. The rules cover all children's sleepwear above size 9 months and up to size 14. Children's sleepwear must be either flame-resistant or be snug-fitting.²⁸

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- ¹ National Center for Health Statistics. Centers for Disease Control and Prevention. National Vital Statistics System. 2000 to 2004 mortality data. Hyattsville (MD): National Center for Health Statistics, 2007.
- ² National Center for Health Statistics. Centers for Disease Control and Prevention. National Vital Statistics System. 2001-2005 mortality data. Hyattsville (MD): National Center for Health Statistics, 2007.
- ³ National Center for Health Statistics. Centers for Disease Control and Prevention. National Vital Statistics System. 2004 mortality data. Hyattsville (MD): National Center for Health Statistics, 2007.
- ⁴ United States Fire Administration. Children and fire: the experiences of children and fire in the United States. Emmitsburg (MD): U. S. Fire Administration, 1997 January.
- ⁵ United States Fire Administration (USFA). More than 3,000 Die in Residential Fires Each Year, USFA Study Shows. [Press Release] Washington (DC), March 2005.
- ⁶ United States Fire Administration- Quick Response Program. Fire Safety in the News Children & Fire, <http://www.usfa.dhs.gov/downloads/pdf/mediacorps/ffwf-1.pdf>.
- ⁷ United States Fire Administration- Quick Response Program. Fire Safety in the News Children & Fire, <http://www.usfa.dhs.gov/downloads/pdf/mediacorps/ffwf-1.pdf>.
- ⁸ Hall JR. Children Playing with Fire. Quincy (MA): National Fire Protection Association, March 2005.
- ⁹ Ahrens M. U.S. experience with smoke alarms. Quincy (MA): National Fire Protection Association, 2001.
- ¹⁰ Ahrens M. The U.S. fire problem overview report - leading causes and other patterns and trends. Quincy (MA): National Fire Protection Association, 2001.
- ¹¹ National Fire Protection Association (NFPA). Home fires. [Fact Sheet] Quincy (MA): NFPA 2002.
- ¹² Ahrens M. The U.S. fire problem overview report - leading causes and other patterns and trends. Quincy (MA): National Fire Protection Association, 2002.
- ¹³ Hall JR. The Smoking-Material Fire Problem. Quincy (MA): National Fire Protection Association, November 2004
- ¹⁴ Ahrens M. The U.S. fire problem overview report - leading causes and other patterns and trends. Quincy (MA): National Fire Protection Association, 2002
- ¹⁵ U.S. Consumer Product Safety Commission (CPSC). CPSC releases new report on residential fires. Release #01-176. Washington (DC): U.S. CPSC, 2001 June.
- ¹⁶ Hall JR. Characteristics of Home Fire Victims Including Age and Sex. Quincy (MA): National Fire Protection Association, July 2005.
- ¹⁷ United States Fire Administration. Socioeconomic factors and the incidence of fire. Emmitsburg (MD): U. S. Fire Administration, 1997 June.
- ¹⁸ Karter MJ. Fire loss in the United States during 2001. Quincy (MA): National Fire Protection Association, 2002.
- ¹⁹ National Center for Health Statistics. Centers for Disease Control and Prevention. National Vital Statistics System. 2001-2004 mortality data. Hyattsville (MD): National Center for Health Statistics, 2007.
- ²⁰ National Center for Health Statistics. Centers for Disease Control and Prevention. National Vital Statistics System. 2001-2004 mortality data. Hyattsville (MD): National Center for Health Statistics, 2007.
- ²¹ Pacific Institute of Research and Evaluation. Injury Prevention: What Works? A Summary of Cost-Outcome Analysis for Injury Prevention Programs, Fact Sheets, 2005, November 28.
- ²² Rohr KD. U.S. experience with sprinklers. Quincy (MA): National Fire Protection Association, 2000 January.
- ²³ United States Fire Administration- Quick Response Program. Fire Safety in the News Children & Fire, <http://www.usfa.dhs.gov/downloads/pdf/mediacorps/ffwf-1.pdf>.
- ²⁴ Hill D. Personal communication. Landover (MD): Children's Safety Network, Economics and Insurance Resource Center, 2004.
- ²⁵ Safe Kids Worldwide. Public Policy Department. Washington (DC): SKW, 2007.
- ²⁶ United States Consumer Product Safety Commission. Fire Fact Sheet. Washington (DC): US CPSC, 1996 January.
- ²⁷ Hall JR. Children playing with fire. Quincy (MA): National Fire Protection Association, 2001.
- ²⁸ Safe Kids Worldwide. Public Policy Department. Washington (DC): SKW, 2007.