

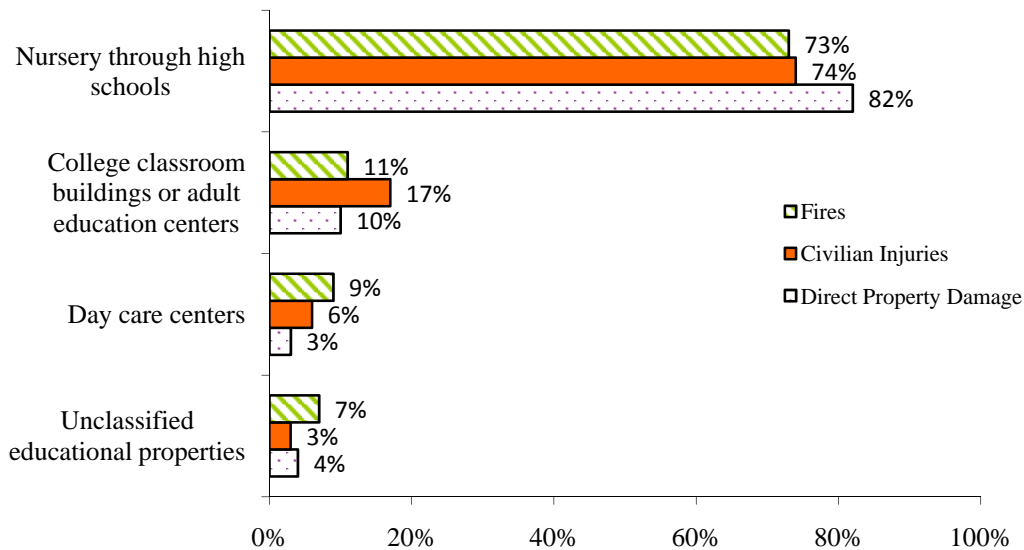


Structure Fires in Educational Properties

U.S. fire departments responded to an estimated average of **6,650** structure fires in educational properties in 2003-2006, annually. These fires caused annual averages of **88** civilian fire injuries and **\$90 million** in direct property damage.

These estimates are derived from the U.S. Fire Administration National Fire Incident Reporting System (NFIRS) Version 5.0 and NFPA's annual fire department experience survey. Educational property includes Preschool through high schools, adult education centers, and day-care centers.

**Structure Fires in Educational Properties, by Occupancy Type
 2003-2006 Annual Averages**



In 2006, 34% of structure fires in educational properties occurred in structures with automatic suppression systems present.

- During 2003-2006, where automatic suppression equipment was present and known, 88% of AES systems in structure fires in these properties were sprinklers.
- Of these fires, 93% of systems operated when the fire was large enough to activate them. When the automatic suppression system failed and the fire was large enough to activate it,
 - 48% of failures were due to the system being shut off
 - 33% were due to manual intervention which defeated the system



Educational Property Structure Fires by Facility Type

The following estimates are annual averages for 2003-2006

Day Care Centers

- 600 structure fires
- 5 civilian injuries
- \$3.1 million in direct property damage
- Leading Causes
 - Cooking equipment
 - Heating equipment
 - Electrical distribution and lighting equipment
- Area of Origin
 - Kitchen or cooking area
 - Bathroom
 - Bathroom
- Item 1st Ignited
 - Cooking materials including food
- 8% of fires in these properties extended beyond room of origin
- Peak Times
 - During week
 - 9 a.m.-Noon

Preschools through Grades 12

- 4,870 structure fires
- 65 civilian injuries
- \$74.2 million in direct property damage
- Leading Causes
 - Contained trash or rubbish fire
 - Intentional
 - Cooking equipment
- Area of Origin
 - Contained trash or rubbish fire
 - Kitchen or cooking area
 - Bathroom
- Item 1st Ignited
 - Trash or rubbish
- 6% of fires in these properties extended beyond room of origin
- Peak Times
 - Weekdays
 - 11 a.m.- 2 p.m.

College Classroom Buildings and Adult Ed. Centers

- 750 structure fires
- 15 civilian injuries
- \$9.4 million in direct property damage
- Leading Causes
 - Cooking equipment
 - Contained trash and rubbish
 - Intentional
- Area of Origin
 - Kitchen or cooking area
 - Contained trash or rubbish fire
 - Laboratory
- Item 1st ignited
 - Cooking materials, including food
- 5% of fires in these properties extended beyond the room of origin
- Peak Times
 - During the week
 - 11 a.m.-8 p.m.