



This Is Fire!

A Factsheet on the Nature of Fire

Every day Americans experience the horror of fire. But most people don't understand fire. Only when we know the true nature of fire can we prepare ourselves and our families. Each year more than 4,000 Americans die and 20,000 are injured in fires, many of which could be prevented.

The U. S. Fire Administration (USFA), a part of the U. S. Department of Homeland Security, believes that fire deaths can be reduced by teaching people the basic facts about fire. Below are some simple facts that explain the particular characteristics of fire.

Fire is **FAST!**

THERE IS LITTLE TIME!

In less than 30 seconds a small flame can get completely out of control and turn into a major fire. It only takes minutes for thick black smoke to fill a house. In minutes, a house can be engulfed in flames. Most fires occur in the home when people are asleep. If you wake up to a fire, you won't have time to grab valuables because fire spreads too quickly and the smoke is too thick. There is only time to escape.



Fire is **HOT!**

HEAT IS MORE THREATENING THAN FLAMES.

A fire's heat alone can kill. Room temperatures in a fire can be 100 degrees at floor level and rise to 600 degrees at eye level. Inhaling this super hot air will scorch your lungs. This heat can melt clothes to your skin. In

five minutes a room can get so hot that everything in it ignites at once: this is called flashover.

Fire is **DARK!**

FIRE ISN'T BRIGHT, IT'S PITCH BLACK.

Fire starts bright, but quickly produces black smoke and complete darkness. If you wake up to a fire you may be blinded, disoriented and unable to find your way around the home you've lived in for years.

Fire is **DEADLY!**

SMOKE AND TOXIC GASES KILL MORE PEOPLE THAN FLAMES DO.

Fire uses up the oxygen you need and produces smoke and poisonous gases that kill. Breathing even small amounts of smoke and toxic gases can make you drowsy, disoriented and short of breath. The odorless, colorless fumes can lull you into a deep sleep before the flames reach your door. You may not wake up in time to escape.



Fire Safety Tips

IN THE EVENT OF A FIRE, REMEMBER TIME IS THE BIGGEST ENEMY AND EVERY SECOND COUNTS!

Escape first, then call for help. Develop a home fire escape plan and designate a meeting place outside. Make sure everyone in the family knows two ways to escape from every room. Practice feeling your way out with your eyes closed. Never stand up in a fire, always crawl low under the smoke and try to keep your mouth covered. Never return to a burning building for any reason; it may cost you your life.

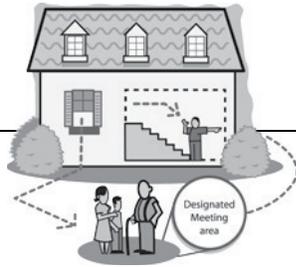
Finally, having a working smoke alarm dramatically increases your chances of surviving a fire. And remember to practice a home escape plan frequently with your family.

For more information contact:

The U. S. Fire Administration
16825 South Seton Avenue
Emmitsburg, MD 21727
or
Visit the USFA Web site:
www.usfa.fema.gov



Homeland Security



Get Out Safely!

A Factsheet on Fire Escape Planning

More than 4,000 Americans die each year in fires, and 20,000 are injured. Deaths resulting from failed emergency escapes are particularly avoidable. The U. S. Fire Administration (USFA), a part of the U. S. Department of Homeland Security, believes that having a sound escape plan will greatly reduce fire deaths and protect you and your family's safety if a fire occurs.

HAVE A SOUND FIRE ESCAPE PLAN

In the event of a fire, remember - time is the biggest enemy and every second counts! Escape plans help you get out of your home quickly. In less than 30 seconds a small flame can get completely out of control and turn into a major fire. It only takes minutes for a house to fill with thick black smoke and become engulfed in flames.

SPECIAL CONSIDERATIONS

PRACTICE ESCAPING FROM EVERY ROOM IN THE HOME

Practice escape plans every month. The best plans have two ways to get out of each room. If the primary way is blocked by fire or smoke, you will need a second way out. A secondary route might be a window onto an adjacent roof or using an Underwriter's Laboratory (UL) approved collapsible ladder for escape from upper story windows. Make sure that windows are not stuck, screens can be taken out quickly and that security bars can be properly opened. Also, practice feeling your way out of the house in the dark or with your eyes closed.

SECURITY BARS REQUIRE SPECIAL PRECAUTIONS

Security bars may help to keep your family safe from intruders, but they can also trap you in a deadly fire! Windows and doors with security

bars must have quick release devices to allow them to be opened immediately in an emergency. Make sure everyone in the family understands and practices how to properly operate and open locked or barred doors and windows.

IMMEDIATELY LEAVE THE HOME

When a fire occurs, do not waste any time saving property. Take the safest exit route, but if you must escape through smoke, remember to crawl low, under the smoke and keep your mouth covered. The smoke contains toxic gases which can disorient you or, at worst, overcome you.

NEVER OPEN DOORS THAT ARE HOT TO THE TOUCH

When you come to a closed door, use the back of your hand to feel the top of the door, the doorknob, and the crack between the door and door frame to make sure that fire is not on the other side. If it feels hot, use your secondary escape route. Even if the door feels cool, open it carefully. Brace your shoulder against the door and open it slowly. If heat and smoke come in, slam the door and make sure it is securely closed, then use your alternate escape route.

DESIGNATE A MEETING PLACE OUTSIDE AND TAKE ATTENDANCE

Designate a meeting location away from the home, but not necessarily across the street. For example, meet

under a specific tree or at the end of the driveway or front sidewalk to make sure everyone has gotten out safely and no one will be hurt looking for someone who is already safe. Designate one person to go to a neighbor's home to phone the fire department.

ONCE OUT, STAY OUT

Remember to escape first, then notify the fire department using the 911 system or proper local emergency number in your area. Never go back into a burning building for any reason. Teach children not to hide from firefighters. If someone is missing, tell the firefighters. They are equipped to perform rescues safely.

Finally, having working smoke alarms installed on every level of your home dramatically increases your chances of survival. Smoke alarm batteries need to be tested every month and changed with new ones at least once a year. Also, consider replacing the entire smoke alarm every ten years, or as the manufacturer guidelines recommend.

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Homeland Security



Working Together for Home Fire Safety

A Factsheet on Home Fire Prevention

More than 4,000 Americans die each year in fires and 20,000 are injured. An overwhelming number of fires occur in the home. There are time-tested ways to prevent and survive a fire. It's not a question of luck. It's a matter of planning ahead.

EVERY HOME SHOULD HAVE AT LEAST ONE WORKING SMOKE ALARM

Buy a smoke alarm at any hardware or discount store. It's inexpensive protection for you and your family. Install a smoke alarm on every level of your home. A working smoke alarm can double your chances of survival. Test it monthly, keep it free of dust and replace the battery at least once a year. Smoke alarms themselves should be replaced after ten years of service, or as recommended by the manufacturer.

PREVENT ELECTRICAL FIRES

Never overload circuits or extension cords. Do not place cords and wires under rugs, over nails or in high traffic areas. Immediately shut off and unplug appliances that sputter, spark or emit an unusual smell. Have them professionally repaired or replaced.

USE APPLIANCES WISELY

When using appliances follow the manufacturer's safety precautions. Overheating, unusual smells, shorts and sparks are all warning signs that appliances need to be shut off, then replaced or repaired. Unplug appliances when not in use. Use safety caps to cover all unused outlets, especially if there are small children in the home.



ALTERNATE HEATERS

- Portable heaters need their space. Keep anything combustible at least three feet away.
- Keep fire in the fireplace. Use fire screens and have your chimney cleaned annually. The creosote buildup can ignite a chimney fire that could easily spread.
- Kerosene heaters should be used only where approved by authorities. Never use gasoline or camp-stove fuel. Refuel outside and only after the heater has cooled.

AFFORDABLE HOME FIRE SAFETY SPRINKLERS

When home fire sprinklers are used with working smoke alarms, your chances of surviving a fire are greatly increased. Sprinklers are affordable--they can increase property value and lower insurance rates.

PLAN YOUR ESCAPE

Practice an escape plan from every room in the house. Caution everyone to stay low to the floor when escaping from fire and never to open doors that are hot. Select a location where everyone can meet after escaping the house. Get out then call for help.

CARING FOR CHILDREN

Children under five are naturally curious about fire. Many play with matches and lighters. Tragically, children set over 20,000 house fires every year. Take the mystery out of fire play by teaching your children that fire is a tool, not a toy.

CARING FOR OLDER PEOPLE

Every year over 1,200 senior citizens die in fires. Many of these fire deaths could have been prevented. Seniors are especially vulnerable because many live alone and can't respond quickly.

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