Inexpected Ways FICES Most heartbreaking losses are surprisingly easy to prevent. This guide tells



ost fires are unexpected because they're caused by the most ordinary, everyday items that you normally consider safe: a stove burner, a candle, an electric space heater, the water heater, an extension cord, a cigarette. What typically makes them dangerous are mental lapses, poor

judgment, hurried actions and simple carelessness.

While everyone makes mistakes, you can vastly cut down deadly fire risks by exercising good safety habits and simple prevention steps. In this article, we'll outlin the "Big 7" most common causes of preventable fires and tell you the simple things you can and should do to keep them from starting.

Apparently, a stove burner was left on under a frying pacontaining grease used for frying chicken. She was the

#1 Source: Cooking fires

The problem

The grease in an unattended frying pan catches on fire

and ignites nearby combustibles, which in turn ignite curtains, cabinets or anything else in the vicinity.

A true fire story

WAUSAU, WI—A sleeping 4-yearold girl died of smoke inhalation in a house fire that started about 30 minstatistics:
23%
of fires,
9% of

On average, every year one out of every eight homes will have a kitchen cooking fire. Cooking fires mostly occur on the cooktop, usually in the first 15 minutes of cookin A common scenario is an unattended frying pan on a home burner. If a fire starts, don't carry the pan outside; slip a lid over the flames from the side to keep from burning your arm. Many grease fires become full-scale house fire

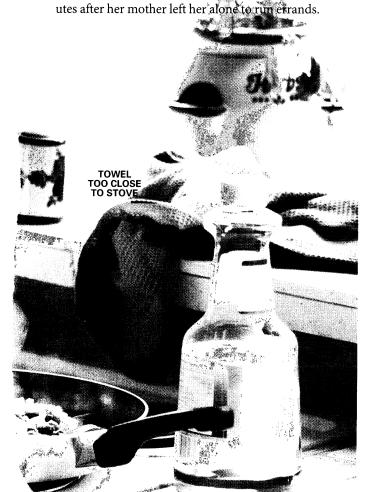
when a flaming pan is carried through the house, drip-

ping a flaming grease trail all the way to the door.



- Never leave the kitchen while something is cooking on the stove.
- Keep combustibles at least 3 ft, away from the cooktop. This includes curtains and wall hangings TIP: Post a reminder note near the range for a week or two until everyone gets the message.





#2 Source: Heating equipment

The problem

Vood stoves and space heaters ignitng nearby combustibles are responsile for the lion's share of heating fires.

A true fire story

The statistics:

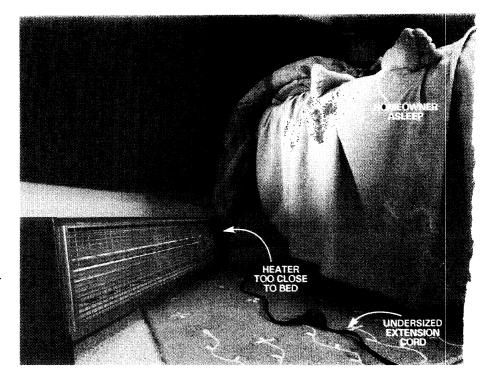
15% of fires, 13% of deaths her brother and her two sisters early one morning, fire officials said. Manuel, age 11, smelled smoke in an upstairs room

and was able to get two of his sisters outside but was unable to rescue his 3-month-old sister, who was asleep in the master bedroom. An electric pace heater in the bedroom appears to have ignited a hearby pile of clothes. The mother was driving her husband to work when the fire started. A smoke detector

Nost deaths from heating equipment occur when yood stoves and space heaters are in use and ignite

t down because it would go off when they cooked.

ad been installed near the kitchen, but the family took



nearby combustibles while everyone's asleep. Here are other common ways that wood stoves cause fires:

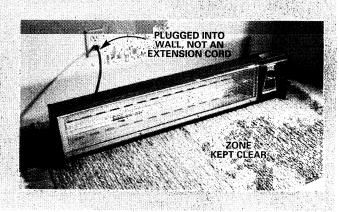
- If they're not disposed of properly, embers in discarded ashes smolder for up to two weeks and can ignite other trash.
- Chimney disrepair and creosote buildup can combine to create a chimney fire that can ignite adjoining wall framing.
- Sparks or even just heat can ignite combustibles that are located too close to the wood stove.

More FIRES >>

The solution

- Keep space heaters at least 3 ft. away from drapes, bedding and other flammables.
- Plug space heaters directly into outlets, not into extension cords.
- Don't use space heaters while sleeping.
- Empty wood-stove ashes in a metal container and store them outside away from combustibles for at least a week before dumping them into the trash.
- Have your chimney inspected and cleaned every year.
- Keep any and all combustible objects at least 5 ft. away from the stove or fireplace.

TIP: Establish a designated space heater zone in rooms where space heaters are used. The zone should be clear of blowing drapes and at least 5 ft. away from other combustibles.



#3 Source: **Electrical** fires

The problem

Overloaded extension cords, hidden electrical shorts, bad connections, and oversized bulbs and fixtures can ignite nearby combustibles and burn down your house.

A true fire story

FLORIDA—Fire and smoke spread through a single-story home, killing two in a late-night blaze. Investigators determined that an electrical short in a five-outlet power strip

The statistics:

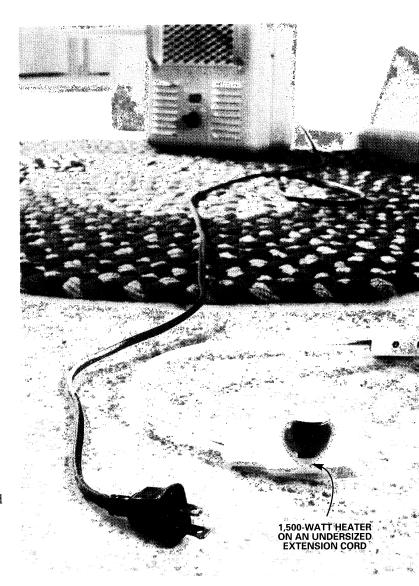
9% of fires, 10% of deaths overloaded with seven appliances started the fire. Excessive heat melted plastic wires and ignited the carpet and a television stand.

Crews doused the flames and removed a 74-year-old man and a 59-year-old woman from the home. The man had already died of smoke inhalation and the woman later succumbed to second- and third-degree burns.

Electricity and heat caused by shorts, overloading or bad connections go hand in hand. The heat generated is often enough to ignite combustibles such as wood framing, rugs or even the insulation around the cord or wire.

While a few of the electrical causes are tough to spot, there are telltale clues that can tip you off to dangerous concealed wiring hazards.

- Electrical cords that are warm to the touch can signal overloading.
- Charred or plastic burning odors may indicate oversized bulbs and light fixtures.
- Warm switch or receptacle plate covers may mean a poor electrical connection.
- Frequently tripping circuit breakers may be caused by a defective breaker or possibly a short in the cables buried in walls or ceilings.



The solution

- Replace extension cords that are undersized or frayed.
- Never run extension cords under rugs
- Replace undersized cords with larger-gauged ones or plug appliances directly into outlets.
- Call an electrician to track down hidden problems causing frequently tripping circuit breakers.
- Call an electrician to open up and troubleshoot electrical boxes that have warm covers.
- Check all the light bulbs in your home to make sure bulb wattages don't exceed the fixture's recommended maximum.

#4 Source: Appliances

The problem

After problems with stoves and heaters, the biggest culprits in appliance fires are lint in dryers and combustibles near gas water heaters.

A true fire story

PORTSMOUTH, VA—Clothes piled

The statistics:

7% of fires, 4% of deaths

against a water heater started a fire that took the life of a 7-year-old girl. A neighbor who noticed the fire was able to kick in the back door and res-

cue five of the children ages 2 to 10, but dense smoke made it impossible for him to save the 7-year-old. The mother had gone to the store and left the children in the care of her next-door neighoor, who wasn't with the children when he fire broke out. A fire department spokesperson said, "There should be olenty of space between a water heater and any other materials," and "there should never be anything within two eet of any heating appliance."

Since water heaters are often in the same room as the laundry, clothes end to get piled up against the water neater near the flame. The problem is vorse when that flimsy cover plate alls off the burner access.

ouilt-up dust and lint ignite from either the burners or the heating elements and create a fire path to ouilt-up lint within the vent hose. The vinyl then catches on fire and

Dryer vents catch on fire when Especially dangerous are dryers that re vented with flexible vinyl hoses. ights anything near it.



The solution

- Make sure protective water heater combustion chamber covers are in place.
- Pull the back service panel from the dryer cabinet and clean all the lint from the interior and around the drum. (We'll show you how in "You Can Fix It" next month.)
- Clean built-up lint from the vent line.
- Replace vinyl vent lines with smooth-walled metal ducts.

TIP: Mark a "combustible-free" zone 3 ft. away from your water heater with masking tape.



#5 Source: Smoking

The problem

Smoking kills more people than any other cause of fire because the fires usually start when everyone's asleep.

A true fire story

MINNESOTA—A man died after he fell asleep while smoking in bed. He awoke to find his bed and clothing in flames. Disoriented, he opened a

The statistics:

5% of fires, 23% of deaths closet and ignited the clothes hanging inside before struggling through the bedroom door and collapsing on the

hallway floor where his clothes lit the carpeting on fire. He was pronounced dead at the scene and the fires were extinguished.

If a cigarette smolders in the bedclothes or drops on the carpet when the smoker falls asleep, the gases from smoldering fabrics will actual-

ly lull the smoker into a deeper and deeper sleep. Live butts that fall between cushions or are tossed into trash cans can take hours to ignite, and when they finally do, the household's in bed, asleep.

More FIRES >>

The solution

- Don't smoke in bed.
- Use large ashtrays on tables.
- Soak ashtrays under the faucet before throwing cigarette butts in the trash.

TIP: When nagging isn't doing the trick, it might be time to buy a sign like the one shown.





#6 Source: **Candles**

The problem

Like cooking fires, most candle fires occur when candles burn unattended near combustibles—usually in bedrooms.

A true fire story

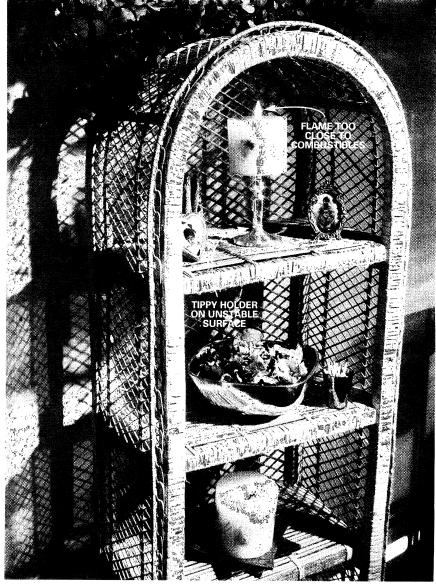
NDIANA—A 23-year-old woman and her two daughters, ages 11 months and 2 years, died when wind from an open window blew curtains across an unattended candle, spreading flames to near-oy combustibles. The house had wo smoke alarms, one battery-operated, the other hard-wired.

The statistics:

5% of fires, 3% of deaths Both were inoperable. Firefighters found the 11-month-old girl in a crib in the living room, dead from smoke

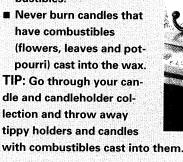
nhalation and burns. Her mother nd sister were found next to a bed, dead of moke inhalation. All three had been napping when the fire broke out.

the recent popularity of candles and the 50 perent surge in candle-initiated fires in the last 10 ears is no coincidence. Couple that with burning andles near combustibles or on shaky holders nd there's a huge potential for a catastrophic fire. Using candles safely calls for the utmost in ttention and care. They're simply a high-risk em because you can easily set them near comustibles without noticing, leave them unattended nd forget about them entirely. They'll often get oft and fall out of a holder and ignite nearby ombustibles or even ignite an underlying woodn holder or shelf. (It's wishful thinking, but if I ad my way, we'd only burn candles at the dinner able and nowhere else.)



The solution

- Use only tip-proof containers.
- Burn candles only while you're awake and in the same room with them.
- Keep candles at least 3 ft. away from combustibles.





#7 Source: Children playing with fire

The problem

Not only do children playing with fire start 5 percent of the residential fires; they're also the most likely ones to die from those fires.

A true fire story

ΓENNESSEE—A 2-year-old and nis 23-year-old mother died when

The statistics:

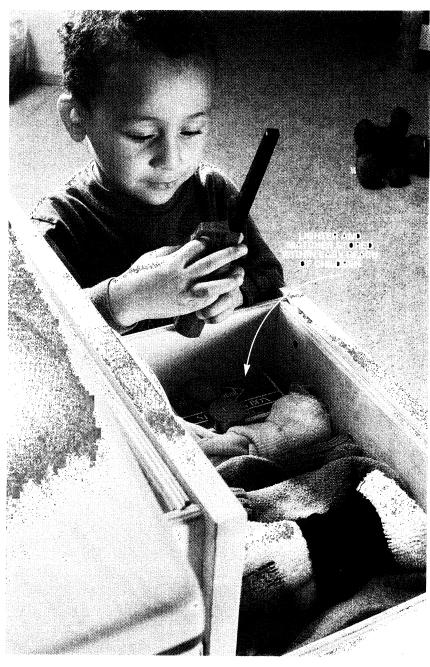
> 5% of fires, 8% of deaths

a fire spread through the house. The children's 28-year-old father, who rescued his three daugh-

ers before reentering the house to search for his wife and son, also lied. There were no batteries in he kitchen's smoke alarm.

The fire apparently began in a ront bedroom under a bed. They elieve that one of the children was playing with a lighter or matches nd ignited a foam mattress. Flames then spread to the hallway, iving room and kitchen. A padocked door prevented the victims rom leaving the home.

children will often start fires while hiding in places like losets or under beds, where they're surrounded by comoustibles. Their first reaction is often to hide from you or he fire after it starts. There, they become overcome by moke and/or make it difficult for firefighters to find hem. It's obvious that you shouldn't leave matches and ghters lying around, but you also have to be vigilant round burning candles.



The solution

■ Store matches and lighters up high, well out of the reach of children.

