



Fire Safety

Fire Prevention



Top 4 Fire Risks

1. Cooking
2. Heating
3. Electrical
4. Smoking



Cooking Fire Stats

- FACT: Cooking was the leading cause of reported home fires and home fire injuries in 2015-2019 and the second leading cause of home fire deaths.
- Cooking caused 49% of reported home fires, 20% of reported home fire deaths, and 42% of home fire injuries.



Cooking Fire Prevention

Consider installing Temperature Limiting Control burners to prevent fire and damage to your buildings.



BBQ's on Decks



GRILLING STATISTICS from NFPA

10,600 home fires are started by grills each year, on average

July is the peak month for grill fires, followed by June, May, and August





Heating Fire Facts

- 2nd leading cause of home fires
- 3rd leading cause of home deaths
- 2014-2018 Fire Data showed
 - Fire Departments responded to more than 48k fires **per year**.
 - Accounts for 14% of all reported home fires during this period.
 - Annual losses of 500 civilian deaths, 1,350 civilian injuries,
 - \$1.1 billion in direct property damage



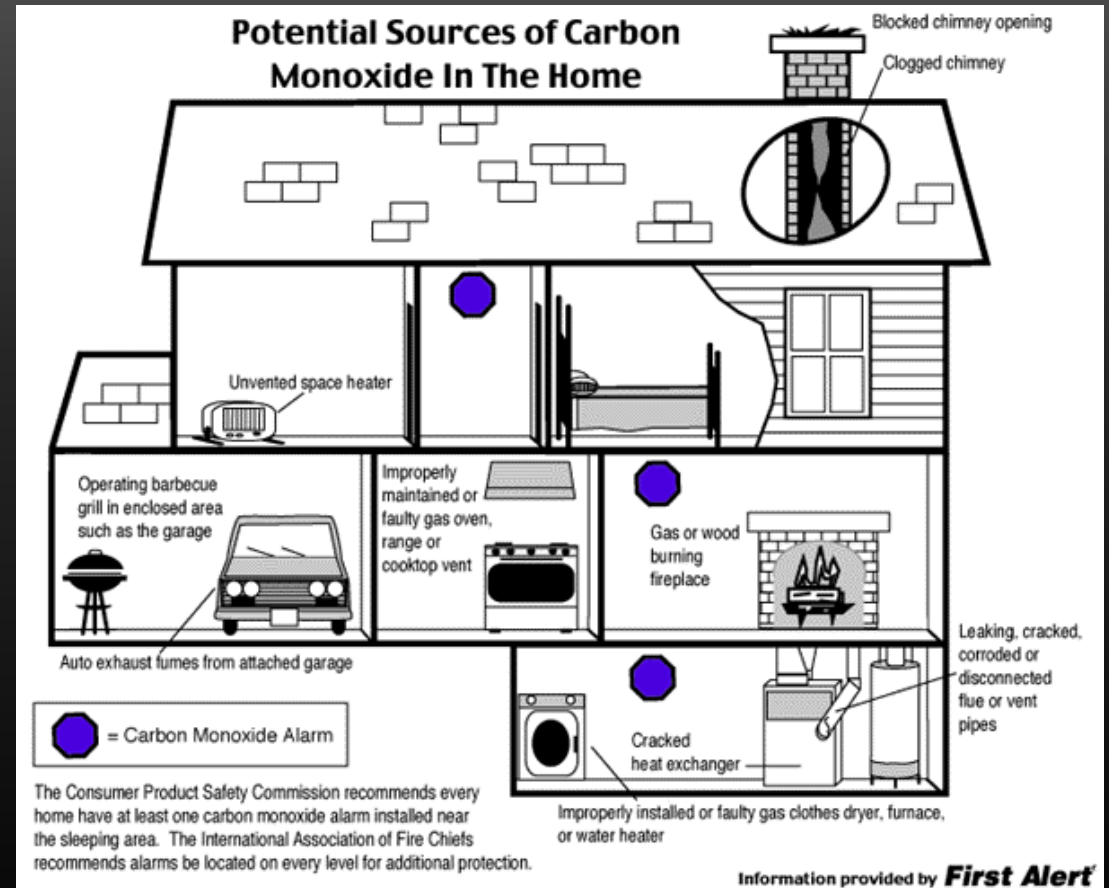
Heating Fire Prevention

- Keep combustibles away from baseboard heaters
- Have heating equipment inspected annually by professional HVAC or electrical technicians.
- Ensure heating repairs and new installations are completed by professionals.
- Install and maintain Carbon Monoxide alarms
 - ✓ Test at least annually



Carbon Monoxide Alarms

- Carbon Monoxide (CO) is an odorless, colorless and tasteless, poisonous gas.
- The majority of fire fatality victims die from CO poisoning.
- First line of defense is working Smoke and CO Detectors.





FAQ Smoke Alarms

- Make sure all units have the required alarms at move-in and during annual inspection by management.
- Replace devices every 10 years.
- Keep a log of manufacturer's date for each unit.
- Always install 10 year alarms.

The advertisement features a white, circular smoke alarm with a central lens and three curved lines below it. The background is a gradient of dark blue and red. At the top left is the Kidde logo with 'United Technologies' underneath. To the right of the logo is '10 YEAR BATTERY*' in large, bold letters. Below this, the text 'Never Replace Battery-Lasts Ten Years' is displayed. On the left side, a green circular graphic shows a 9V battery with a red 'X' over it and '\$40' below it, with the text 'Never Change a Battery — Save up to \$40 in battery costs over the life of the alarm'. The word 'MICRO' is written vertically in large, bold letters, followed by 'Profile Design' in a smaller font. On the right side, a circular inset shows a fire with the text 'Ionization Sensor May sense fast flaming fires more quickly!'. At the bottom right, there is a 'UL LISTED' logo and a 'WARRANTY 10 YEAR* AGAIN' logo. The bottom left corner features the 'Ionization Technology' logo. The bottom right corner has a logo that says 'ALWAYS ON SEALED LITHIUM BATTERY'.



Electrical Fire Stats

Electrical Fire Facts:

- 3rd Leading Cause of Home Fires
- Ranks 1st in direct property damage fires.
- Tied (with Heating) for 3rd in leading cause of home deaths
- 2014-2018 Fire Data showed:
 - Fire Departments responded to more than 34,000 (10%) electrical fires per year.
 - \$1.4 Billion in direct property damage annually.



Electrical Fire Prevention

- Hire licensed electricians for all electrical repair/service work.
- Make sure inspections are completed and passed before final payment.
- Update aging or well-worn electrical outlets.
- Consider installing timers on bathroom fans.
- Plug appliances directly into wall receptacles.
 - Do NOT use extension cords or power strips.
- Keep area around meter and other electrical equipment clear of combustibles.



Electrical Fire Prevention

Replace Bad Outlets



Prioritize Bath Fan Maintenance



Time to Replace Outlets?





Outlets – What to Watch For

- The outlet is not working
- Burn marks or melting
- Cracks and chips
- Plugs fall out easily
- Outlet feels hot to the touch
- You smell smoke or see a spark
- Outlets are not grounded
- Flickering Power



Smoking Fire Stats

4th Leading Cause of Home Fires

2012-2016 Smoking Fire Facts:

- Average of 18,100 (5%) of home fires were started by smoking materials.
- Killed average of 590 (23%) of people per year.
- Injured average of 1,120 (10%) of people per year.
- Caused \$476 million in direct property damage per year.
- One in 20 home structure fires were started by smoking materials.



Smoking Fire Prevention

- Provide tenants with simple metal buckets filled with sand or provide outdoor ashtrays.
- Educate tenants not to put cigarettes out into potted plants, flowerbeds or any other areas that could ignite easily.
- Provide smokers posts so they have a designated, proper receptacle for disposable in common areas.
- Do not allow smoking inside units. Most deaths result from fires started in the living room, family rooms and bedrooms.

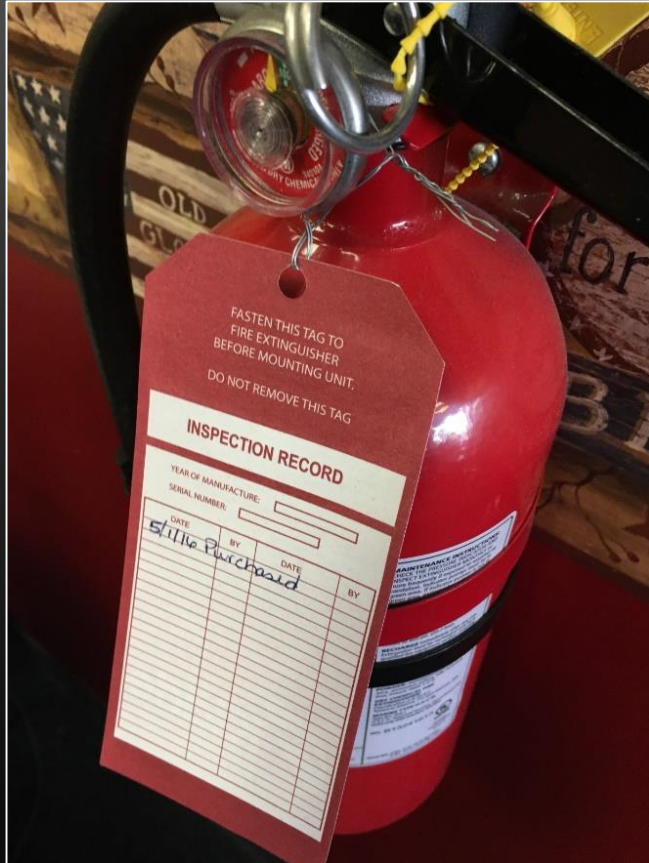
Don't Plant Your Butts!



Provide Proper Disposal Options



Fire Extinguishers



Clean and Well Kept Property



Cluttered = Invitation for Trouble



Tidy = Fewer Opportunities



Dumpster Fire Concerns





Safety Inspections

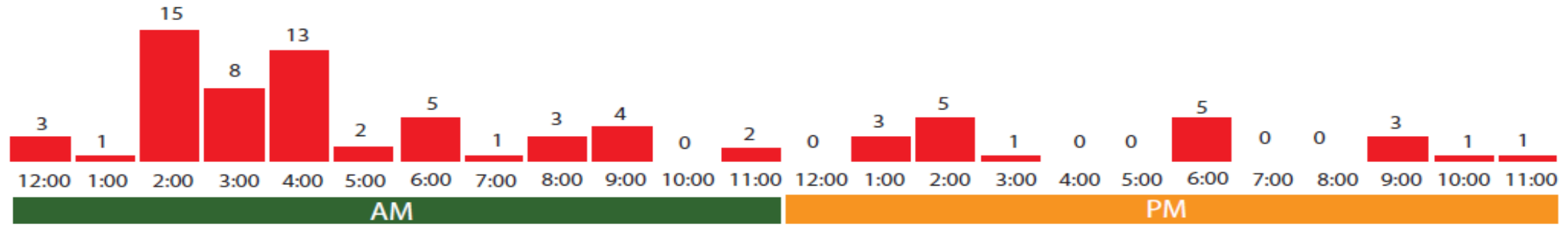
- Perform regular inspections.
- We have a sample checklist for your use.
- Feel free to develop your own and expand/modify as necessary.
- Recommend annual inspections at a minimum.

GENERAL	Pass	Fail	n/a
Address #'s are intact and identifiable from the street.			
The unit is maintained in a clean, safe and sanitary (no litter, trash or debris) manner.			
KITCHEN			
Stove and oven are kept clean and free of grease.			
Cooking surface and surrounding area is free of clutter - paper/hand towels, etc.			
Cooking area is free from burn marks or charring - results of unattended cooking.			
LIVING AREA			
Entry/exit doors are operable and equipped with a deadbolt lock.			
Windows are accessible and open easily for emergency escape.			
Baseboard, wall, and portable heaters are allowed at least 18 inches of clearance.			
Fireplace is equipped with a safety screen.			
If used: chimney/flu safety inspection and cleaning have been performed.			
Matches and lighters are kept out of reach of children.			
Candles are in non-combustible, non-tip holders and are away from combustibles.			
Smoking materials are disposed of properly.			
Walls and ceiling are free from large holes - which could spread smoke and fire.			
General housekeeping is maintained in good order.			
Bathroom fan in good working condition & dust free.			
Electrical outlets are in good condition and not overloaded.			
SLEEPING AREAS			
Area surrounding beds are free from evidence of smoker's carelessness.			
Baseboard, wall, and portable heaters are allowed at least 18" of clearance.			
Electrical outlets are in good condition and not overloaded.			
SMOKE & CARBON MONOXIDE ALARMS			
Smoke alarm is present, 10 or less years old, and in appropriately mounted location.			
Smoke alarm, when tested, alerts positively.			
Smoke alarm device appears to be free from tampering or damage.			
Carbon monoxide (CO) alarm is present, 7 years old or less, and working.			
SPRINKLER SYSTEM			
Sprinkler heads are free from hanging items.			
PATIO, DECK, BALCONY & OUTSIDE SPACE			
Barbeque ashes are properly disposed of in a metal container.			
Area is clear of rubbish, flammable liquids, and flammable hazards.			
Smoking materials are being properly disposed of in appropriate containers.			



Response Readiness

FIRE FATALITIES HAPPEN AROUND THE CLOCK



PROPERTY USE



37	SINGLE FAMILY	2	SHED
14	MULTI-FAMILY	2	BUSINESS
6	MOTOR HOME/RV	4	VEHICLE
4	MANUFACTURED HOMES	1	TRACTOR TRAILER
5	OUTDOOR	1	BOAT

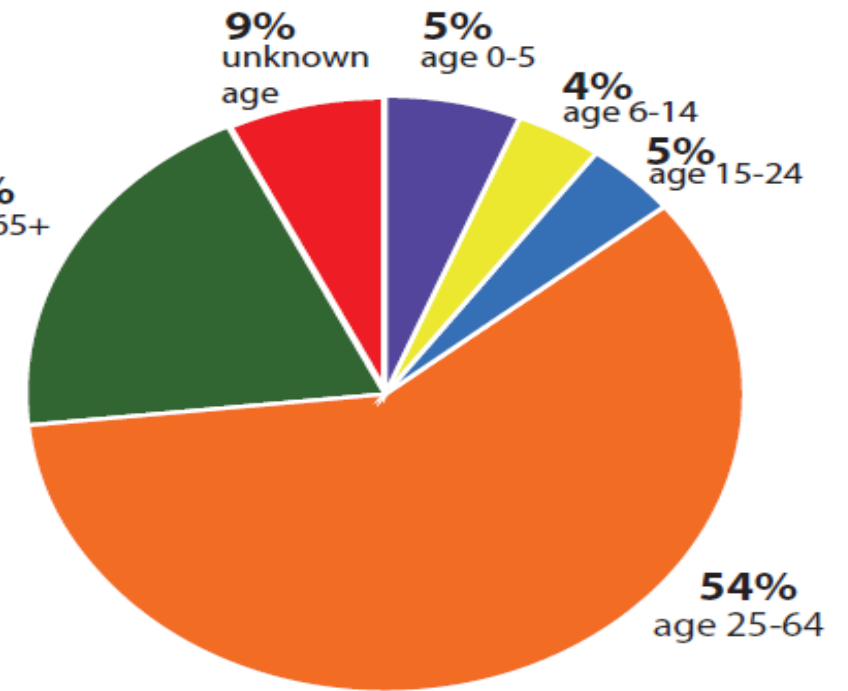
*One fire fatality occurred in a location that has not been determined by the reporting agency

FIRE DEATHS BY AGE & GENDER

63%
MALE



36%
FEMALE



*Percentages rounded to nearest whole number, and thus may not total 100%; 1% not shown for gender percentages accounts for 1 fatality where the deceased was unable to be identified.

SMOKE ALARMS



20	PRESENT (6 OPERATED, 5 DID NOT OPERATE, 9 UNKNOWN)
14	NOT PRESENT
30	UNKNOWN

*Twelve fire fatalities occurred in locations where smoke alarms are not normally installed



Fire Spread – Why it Matters

 **HOME FURNISHING COMPARISON** 



NATURAL  04:31 **SYNTHETIC**



How Will We Know Where to Go?

- Keep address and building numbers visible from the street.
- Numbers should be painted different color than building – contrasting colors.
- Do not allow trees/shrubs to hide numbers.
- A monument sign will be required for larger complexes.





Address #'s

Visible from the Street



Contrasting Color from Building

Monument Signs





Fire Lanes

- Essential for maneuvering fire apparatus.
- 20' unobstructed width required.
- 'No Parking' signage
- On private roadways must be enforced by management.



Hydrant Access – 3 Feet





Fire Protection Systems

- Fire Alarm & Sprinkler Systems
 - Annual system inspections required of both.
 - Maintain and repair as needed.
 - Set up account at www.tegrisfire.com for owner/manager of facility if you have alarm or sprinkler systems.
 - Keep riser room properly heated.
 - Update keys in Knox box as necessary by calling our office.



Fire Protection Systems



Fire Alarm System



Fire Riser Room



Fire System Identification

Label Riser Room Access Door



Label FDC Appropriately





Key Fire Safety Principles

- Have working smoke alarms and test them.
- Develop an escape plan and practice it.
- Always have two ways out clear of obstructions.
- Keep fire extinguishers accessible & serviced.
- Close doors as you are exiting to prevent spread.
- **Call 9-1-1**

Questions?



Fire Prevention Division

Office: 509-585-4302

Email: fireprevention@ci.kennewick.wa.us

www.go2kennewick.com/fire