READY, SET, GO!

YOUR PERSONAL WILDFIRE ACTION PLAN







READY, SET, GO! Wildfire Action Plan

ildfires are a year-round reality in Hays County. This means that both firefighters **and** residents must be prepared against the threat from brush fires at all times.

Firefighters train hard and make countless preparations to be ready for a wildfire. Residents need to do the same. Successfully preparing for a wildfire requires you to take personal responsibility for protecting yourself, your family and your property.

The Hays County Office of Emergency Management works with all of the Emergency Services Districts and fire departments within the county and we take every precaution to help protect you and your property from a wildfire. But the reality is, during a major wildfire, there will simply not be enough fire engines or firefighters to defend every home, especially during the first hours of a major wildfire. You must become part of the solution.

If your home borders a natural area, what firefighters call the Wildland Urban Interface, you are directly at risk from a wildfire. And, if you live within one mile of a natural area, you live in the Ember Zone. Homes in the Ember Zone are at risk from wind-driven embers from a wildfire. Recent fires have resulted in homes being destroyed by fires started by embers, not the wildfire itself.

This publication will help guide you through the process of making your home resistant to wildfires, and your family ready to leave early and safely. We call this process, "Ready, Set, Go!"

You will learn about the Ember Zone and how to retrofit your home with features that protect it from embers. We'll show you the importance of having defensible space around your home and the preparations you need to make so you can leave early, evacuating before the fire reaches you.

Fire is, and always has been, a natural part of the beautiful area where we've chosen to live. Wildfires, fueled by a build-up of dry vegetation and driven by hot, dry winds, are extremely dangerous and almost impossible to control. Many residents have built their homes and landscaped without fully understanding the impact a fire could have on them. This publication will help you prepare your home so you can leave early, confident that you've done everything you can reasonably do to protect your home.

It's not a question of if, but when, the next wildfire will occur. That's why the most important person protecting your life and property is not a firefighter, but you. With advance planning and preparation, you can dramatically increase your safety and the survivability of your property.

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Living in the Wildland Urban Interface and the Ember Zone



Defensible Space Works!

If you live next to a natural area, the Wildland Urban Interface, you must provide firefighters with the defensible space they need to protect your home. The buffer zone you create by removing weeds, brush and other vegetation helps to keep the fire away from your home and reduces the risks from flying embers.





A home within one mile of a natural area is in the Ember Zone. Wind-driven embers can attack your home. You and your home must be prepared well before a fire occurs. Ember fires can destroy homes or neighborhoods far from the actual flame front of the wildfire.

What is Defensible Space?



Defensible space is the required clearance between a structure and natural vegetation that provides firefighters with the room they need to defend the structure. Under normal conditions, defensible space creates a sufficient buffer to slow the spread of a wildfire. It reduces the amount of direct flame and radiant heat from the fire-front and gives firefighters an advantage in protecting the structure.



Zone One extends 30 feet out from buildings, structures, decks, etc.

- Remove all dead or dying vegetation.
- Trim tree canopies regularly to keep their branches a minimum of 15 feet from structures and other trees, and 10 feet from chimneys.
- Remove leaf litter (dry leaves/pine needles) from yard, roof and rain gutters.
- Relocate woodpiles or other combustible materials into Zone Two.
- Remove combustible material and vegetation from around and under decks.
- Remove or prune vegetation near windows.
- Remove "ladder fuels" (low-level vegetation that allows the fire to spread from the ground to the tree canopy). Create a separation between low-level vegetation and tree branches. This can be done by reducing the height of low-level vegetation and/or trimming low tree branches.



Zone Two extends 30 to 100 feet out from buildings, structures and decks. You can minimize the chance of fire jumping from plant to plant by removing dead material and removing and/or thinning vegetation. The minimum spacing between vegetation is three times the diameter of the plant.

- · Remove "ladder fuels."
- Cut or mow annual grass down to a maximum height of 4 inches.
- Trim tree canopies regularly to keep their branches a minimum of 10 feet from other trees.



What is a Hardened Home?

A hardened home is one where the use of fire-safe construction materials and the quality of the defensible space around it give the home a good chance of surviving a wildfire even if unattended. Windborne embers often pose the biggest threat to homes, so a properly hardened home resists both flames and embers. There are many measures you can take to help safeguard your home from a wildfire. While you may not be able to accomplish everything listed below, any one of them will help increase your home's, and possibly your family's, safety and survival during a wildfire.





ROOFS

Roofs are the most vulnerable surface on a home. They offer a large area for embers to land and, because roof valleys often collect leaf debris, they are particularly susceptible to ember fires. In addition to roof valleys, open ends of barrel tiles and rain gutters are also common points of origin for ember fires.

EAVES

Embers can gather under open eaves and ignite exposed wood or other combustible material.

VENTS

Embers can enter the attic or other concealed spaces and ignite combustible materials. Vents in eaves and cornices are particularly vulnerable, as are any unscreened vents. Screen vents with ½-inch metal mesh.

WALLS

Combustible siding or other combustible or overlapping materials provide surfaces or crevices for embers to nestle and ignite.

WINDOWS and DOORS

Embers can enter gaps in doors, including garage doors. Plants or combustible storage near windows can be ignited from embers and generate heat that can break windows and/or melt combustible frames.

BALCONIES and DECKS

Embers can collect in or on combustible surfaces or the undersides of decks and balconies, ignite the material and enter the home through walls or windows.

To harden your home even further, consider protecting your home with a residential fire sprinkler system. In addition to extinguishing a fire started by an ember that enters your home, it also protects you and your family.

Tour a Wildfire Ready Home

Home Site and Yard: Ensure you have at least a 100-foot radius of defensible space (cleared vegetation) around your home. Note that even more clearance may be needed for homes in severe hazard areas. This means looking past what you own to determine the impact a common slope or neighbor's yard will have on your property during a wildfire.

Cut dry weeds and grass before noon when temperatures are cooler to reduce the chance of sparking a fire.

Landscape with fire-resistant plants that have a high moisture content and are low growing.

Keep woodpiles, propane tanks and combustible materials away from your home and other structures such as garages, barns and sheds.

Ensure that trees are far away from power lines.

Roof: Your roof is the most vulnerable part of your home because it can easily catch fire from windblown embers. Homes with wood-shake or shingle roofs are at high risk of being destroyed during a wildfire.

Build your roof or re-roof with fire-resistant materials such as composition, metal or tile. Block any spaces between roof decking and covering to prevent ember intrusion.

Clear pine needles, leaves and other debris from your roof and gutters.

Cut any tree branches within 15 feet of your roof.

Vents: Vents on homes are particularly vulnerable to flying embers.

All vent openings should be covered with ½-inch or smaller metal mesh. Do not use fiberglass or plastic mesh because they can melt and burn.

Attic vents in eaves or cornices should be baffled or otherwise protected to prevent ember intrusion (mesh is not enough).

Windows: Heat from a wildfire can cause windows to break even before the home ignites. This allows burning embers to enter and start internal fires. Single-paned and large windows are particularly vulnerable.

Install dual-paned windows with the exterior pane of tempered glass to reduce the chance of breakage in a fire.

Limit the size and number of windows in your home that face large areas of vegetation.

Inside: Keep working fire extinguishers on hand. Install smoke alarms on each level of your home and near bedrooms. Test them monthly and change the batteries twice a year. Address: Make sure your address is clearly visible from the road. Walls: Wood products, such as boards, panels or shingles, are common siding materials. However, they are

combustible and not good choices for fire-prone areas.

Build or remodel with fire-resistant building materials,

Be sure to extend materials from foundation to roof.

such as brick, cement, masonry or stucco.

Garage: Have a fire extinguisher and tools such as a **Driveways and Access Roads:** Driveways should shovel, rake, bucket and hoe available for fire be designed to allow fire and emergency vehicles emergencies. and equipment to reach your house. Install a solid door with self-closing hinges between Access roads should have a minimum 10-foot clearliving areas and the garage. Install weather stripping ance on either side of the traveled section of the around and under door to prevent ember intrusion. roadway and should allow for two-way traffic. Store all combustibles and flammable liquids away Ensure that all gates open inward and are wide enough to accommodate emergency equipment. from ignition sources. Trim trees and shrubs overhanging the road to a minimum of 13 1/2 feet to allow emergency vehicles to pass. Non-Combustible Fencing: Make sure to use noncombustible fencing to protect your home during a wildfire. Non-Combustible Boxed in Eaves: Box in eaves with non-combustible materials to prevent accumulation of embers. Raingutters: Screen or enclose rain gutters to prevent accumulation of plant debris. Water Supply: Have multiple garden hoses that are long enough to reach any area of your home and other structures on your property. If you have a pool or well, consider a pump. Deck/Patio Cover: Use heavy timber or nonflammable construction material for decks. Enclose the underside of balconies and decks with fire-resistant materials to prevent embers from blowing **Chimney:** Cover your chimney and stovepipe outlets with a non-flammable screen of 1/4-inch wire mesh or smaller underneath. to prevent embers from escaping and igniting a fire. Keep your deck clear of combustible items, such as baskets, dried flower arrangements and other debris. Make sure that your chimney is at least 10 feet away from any tree branches. The decking surface must be ignition resistant if it's within 10 feet of the home.

READY, SET, GO!

Create Your Own Wildfire Action Plan

Now that you've done everything you can to protect your house, it's time to prepare your family. Your Wildfire Action Plan must be prepared with all members of your household well in advance of a fire.

Use these checklists to help you prepare your Wildfire Action Plan. Each family's plan will be different, depending on their situation.

Once you finish your plan, rehearse it regularly with your family and keep it in a safe and accessible place for quick implementation.

GET READY Prepare Your Family







| | Create a Family Disaster Plan that includes meeting locations and communication plans and rehearse it regularly. Include in your plan the evacuation of large animals such as horses. |
|---|--|
| | Register your phone number(s) at www.warncentraltexas.org so you can receive emergency messages. |
| | Have fire extinguishers on hand and train your |
| | family how to use them. |
| | Ensure that your family knows where your gas, electric and water main shut-off controls are and how to use them. |
| | Plan several different evacuation routes. |
| _ | Designate an emergency meeting location outside the fire hazard area. |
| _ | Assemble an emergency supply kit as recommended by the American Red Cross. |
| | Appoint an out-of-area friend or relative as a point of contact so you can communicate with family members who have relocated. |
| | Maintain a list of emergency contact numbers posted near your phone and in your emergency supply kit. |
| Ш | Keep an extra emergency supply kit in your car |

Have a portable radio or scanner so you can stay updated on the fire.

in case you can't get to your home because of

fire.

GET SET As the Fire Approaches

| | Alert family and neighbors. | OU | TSIDE CHECKLIST |
|------------------|---|----|---|
| | Dress in appropriate clothing (i.e., clothing made from natural fibers, stuch as cotton, and work boots). Have goggles and a dry bandana or particle mask handy. | | Gather up flammable items from the exterior of the house and bring them inside (e.g., patio furniture, children's toys, door mats, etc.) or if you have one, place them in your pool. |
| | Ensure that you have your emergency supply kit on hand that includes all necessary items, such as a battery powered radio, spare batteries, emergency contact numbers, and ample drinking water. Stay tuned to your TV or local radio stations for | | Don't leave sprinklers on or water running - they can waste critical water pressure. |
| | | | Leave exterior lights on. |
| | | | Back your car into the driveway. Shut doors and roll up windows. |
| _ | updates, or check the fire department Website. | | Have a ladder available. |
| | Remain close to your house, drink plenty of water and keep an eye on your family and pets until you are ready to leave. | | Patrol your property and extinguish all small fires until you leave. |
| | | | Seal attic and ground vents with pre-cut plywood or commercial seals if time permits. |
| INSIDE CHECKLIST | | | OU ARE TRAPPED: SURVIVAL TIPS |
| | Shut all windows and doors, leaving them | | |
| | Shut all willdows and doors, leaving them | Ш | Shelter away from outside walls. |
| П | unlocked. | | Shelter away from outside walls. Bring garden hoses inside house so embers don't destroy them. |
| | _ | | Bring garden hoses inside house so embers don't |
| | unlocked. Remove flammable window shades, lightweight curtains and close metal shutters. Move flammable furniture to the center of the | | Bring garden hoses inside house so embers don't destroy them. |
| | unlocked. Remove flammable window shades, lightweight curtains and close metal shutters. Move flammable furniture to the center of the room, away from windows and doors. | | Bring garden hoses inside house so embers don't destroy them. Patrol inside your home for spot fires and |
| | unlocked. Remove flammable window shades, lightweight curtains and close metal shutters. Move flammable furniture to the center of the | | Bring garden hoses inside house so embers don't destroy them. Patrol inside your home for spot fires and extinguish them. Wear long sleeves and long pants made of natural fibers such as cotton. |
| | unlocked. Remove flammable window shades, lightweight curtains and close metal shutters. Move flammable furniture to the center of the room, away from windows and doors. Leave your lights on so firefighters can see your | | Bring garden hoses inside house so embers don't destroy them. Patrol inside your home for spot fires and extinguish them. Wear long sleeves and long pants made of natural |



Patrol your property and extinguish small fires.

Place wet towels under doors to keep smoke and

After the fire has passed, check your roof and extinguish any fires, sparks or embers.

Check inside the attic for hidden embers.

embers out.

GOI Early!

By leaving early, you give your family the best chance of surviving a wildfire. You also help fire fighters by keeping roads clear of congestion, enabling them to move more freely and do their job.

WHEN TO LEAVE

Leave early enough to avoid being caught in fire, smoke or road congestion. Don't wait to be told by authorities to leave. In an intense wildfire, they may not have time to knock on every door. If you are advised to leave, don't hesitate!

WHERE TO GO

Leave to a predetermined location (it should be a low-risk area, such as a well-prepared neighbor or relative's house, a Red Cross shelter or evacuation center, motel, etc.)

HOW TO GET THERE

Have several travel routes in case one route is blocked by the fire or by emergency vehicles and equipment. Choose an escape route away from the fire.

WHAT TO TAKE

Take your emergency supply kit containing your family's and pet's necessary items.



EMERGENCY SUPPLIES

The American Red Cross recommends every family have an emergency supply kit assembled long before a wildfire or other emergency occurs. Use the checklist below to help assemble yours. For more information on emergency supplies, visit the American Red Cross Web site at

| | Three-day supply of water (one gallon per person per day). |
|-----|---|
| | Non-perishable food for all family members and pets (three-day supply). |
| | First aid kit. |
| | Flashlight, battery-powered radio, and extra batteries. |
| | An extra set of car keys, credit cards, cash or traveler's checks. |
| | Sanitation supplies. |
| | Extra eyeglasses or contact lenses. |
| | Important family documents and contact numbers. |
| | Map marked with evacuation routes. |
| | Prescriptions or special medications. |
| | Family photos and other irreplaceable items. |
| | Easily carried valuables. |
| | Personal computers (information on hard drives and disks). |
| | Chargers for cell phones, laptops, etc. |
| Not | te: Keep a pair of old shoes and a flashlight |

handy in case of a sudden evacuation at night.

My Personal Wildfire Action Plan

During **High Fire Danger** days in your area, monitor your local media for information on brush fires and be ready to implement your plan. Hot, dry and windy conditions create the perfect environment for a wildfire.

| Important Pho | ne Numbers: | | | |
|------------------|--------------------------------|----------------------------------|---------------------|---|
| Emergency: Call | 911 | | | |
| Family: _ | | _ | | |
| - | | _ | | |
| _ | | _ | | |
| School: _ | | | | w |
| | | | | |
| | | | | |
| Meeting Location | n(c): | | | |
| Meeting Location | II(5). | | | |
| Location of Eme | ergency Supply Kit: | | | |
| Location of Line | rigericy Supply Mit. | | | |
| | | | | |
| What to Take: | Emergency Supply Kit | Extra Clothes | Prescriptions | |
| | Keys/Cash/Credit Cards Photos | Insurance Papers Computer/Disks | Important Documents | |
| | | Computer/ Disks | | |
| | | | | |
| Notes: | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Hays County Office of Emergency Services For more information:

Haysinformed.com

READY, SET, GO!

Residential Safety Checklist Tips to Improve Family and Property Survival During A Wildfire

| | nulle | TES | NU |
|----|---|-----|---------------|
| 1. | Does your home have a metal, composition, or tile (or other non-combustible) roof with capped ends and covered fascia? | | |
| 2. | Are the rain gutters and roof free of leaves, needles and branches? | | |
| 3. | Are all vent openings screened with $^{1}/_{8}$ inch (or smaller) mesh metal screen? | | |
| 4. | Are approved spark arrestors on chimneys? | | |
| 5. | Does the house have non-combustible siding material? | | |
| 6. | Are the eaves "boxed in" and the decks enclosed? | | |
| 7. | Are the windows made of at least double-paned or tempered glass? | | |
| 8. | Are the decks, porches and other similar areas made of non-combustible material and free of easily combustible material (e.g. plastic furniture)? | | |
| 9. | Is all firewood at least 30 feet from the house? | | |
| | | | |
| | Defensible Space | Yes | No |
| 1. | Is dead vegetation cleared to the recommended defensible space area? (Consider adding distance due to slope of property.) | | |
| 2. | Is there separation between shrubs? | | |
| 3. | Are ladder fuels removed? | | |
| 4. | Is there a clean and green area extending at least 30 feet from the house? | | |
| 5. | Is there a non-combustible area within five feet of the house? | | |
| 6. | Is there separation between trees and crowns? | | $\overline{}$ |
| | | | _ |
| | Emergency Access | Yes | No |
| 1. | Is the home address visible at night? | | |
| 2. | Is the home address made of fire-resistant materials? | | |
| 3. | Are street signs present at every intersection leading to the house? | | |
| 4. | If a water supply is present, is it clearly marked for firefighters? | | |
| 5. | Is flammable vegetation within 10 feet of the driveway cleared and are overhanging obstructions removed? | | |
| 6. | If a long driveway is present, does it have a suitable turnaround area? | | |

