

Ready, Set, Go!

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Saving Lives and Property through Advanced Planning and Action

The wildland fire season is a year-round reality in the United States. This strains firefighting resources and emphasizes the need for residents to be proactive and prepared for the threat of wildland fire.

Wildland fire is, and always has been, a natural occurrence. Hills, canyons, grasslands, and forests burn periodically as part of a healthy ecosystem. Wildland fires are fueled by dry vegetation, driven by increasing seasonal temperatures and fanned by dry winds. Wildland fires have become increasingly dangerous with the inclusion of built environments in the wildland-urban interface (WUI), an area or zone where human development meets or mixes with natural vegetation.

Studies show as many as 80 percent of homes lost to wildland fires could have been prevented. In addition, wildland fire related deaths can occur because people wait too long to leave their homes.

Proactive mitigation around your property and safe and early evacuation can help protect you, your household, and your property. This Action Guide provides tips

and tools you need to prepare for wildland fire threat, gain situational awareness when a fire starts, and act early as directed by local officials.

Remember, all efforts to improve defensible space on your property can decrease property damage and help firefighters with suppression efforts. Taking advanced personal action can result in improved safety for all involved.

The Ready, Set, Go! Program works in collaboration with existing, local wildland fire public education efforts and amplifies the common goal for wildland fire preparedness.

The tips on the following pages are designed to help guide your actions to create a safer environment for you, your household, and first responders.

It is not a question of if, but when, the next major wildland fire will occur.

Use this Action Plan to help you become wildland fire ready! Visit us at kansasforests.org to learn more about becoming prepared.

Kansas Prairies

Fire Adapted Ecosystems

Prescribed burns continue the cycle

Historically, our entire state burned every 2-6 years. Not all at once, but in smaller patches. As a result of the cyclical fires, fuel loads were low and fires burned with lower intensity. Kansans can still see the results of this cycle in areas of the state where landowners intentionally use fire to maintain their land.

But, our prairies have changed

Long-term fire suppression across the state has resulted in high fuel loads. As a result, our wildfires are burning hotter and causing more damage year after year. Eastern Red Cedar, a native to Kansas, has escaped it's historical niche and now carpets many parts of the state. Cedar is highly susceptible to fire and requires extra resources and advanced firefighting tactics.

Fire mindset

Adopting a "fire mindset" is crucial to protecting your home. First, homeowners need to recognize that wildfires are a real threat for our generation. Just like tornadoes, wildfires need to be prepared for and taken seriously. Second, take a real look at your property. Consider it's weaknesses. This guide will help you identify those weak points and correct them.

Kansans must own their safety

In the face of increasing catastrophic wildfires, homeowners cannot depend on firefighters to save their property. Often there are many fires burning simultaneously and local resources may be quickly exhausted. According to the National Fire Incident Reporting System, nearly 80% of the firefighters in Kansas are volunteers, and another 15% are partially volunteer.

During busy fire seasons, the work load can become very heavy for a few local volunteers who are also working regular jobs. Ultimately, the protection of your property hinges on the actions you take in the months and years prior to a wildfire.

Wind and low humidity drive our fires

For most of our state, wind speed and relative humidity drive fire activity. As a result, our fires can move VERY quickly. Residents need at least two evacuation routes to allow for escape no matter what direction the fire is coming from. When it is time to evacuate, failing to know where to go can be deadly.

Know the Threat

Since 1965, Eastern Red Cedar in Kansas has increased by 23,000 %. This has resulted in increasingly severe wildfires.

In many cases, areas with increasing amounts of Eastern Red Cedar are often parceled for home and building site development. Over time, young trees will increase in size and spread as parent trees become mature and produce seed.

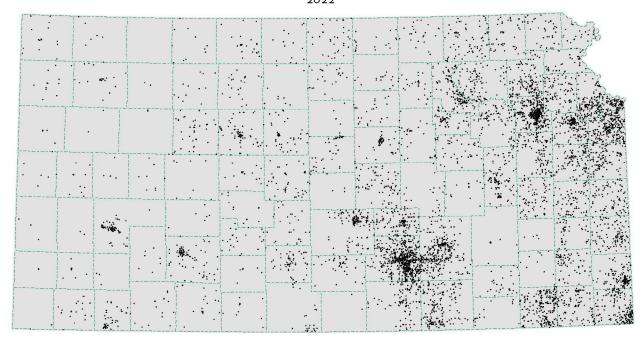


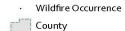
Also, as the cedar trees become larger, the can encroach into property access points and escape routes making access and evacuation difficult. Added to the threat is combustive heat from and ember cast on homes and structures.



Wildfires Can Occur Every Month of the Year

Reported Wildfire Occurrences Kansas Office of the State Fire Marshal

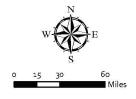




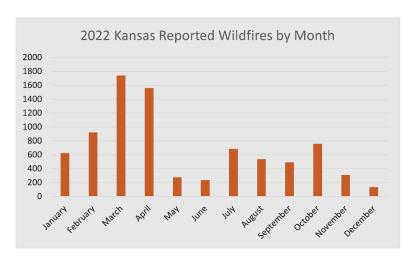




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This data was collected by the Kansas Office of the State Fire Marshal and mapped by the Kansas Forest Service.

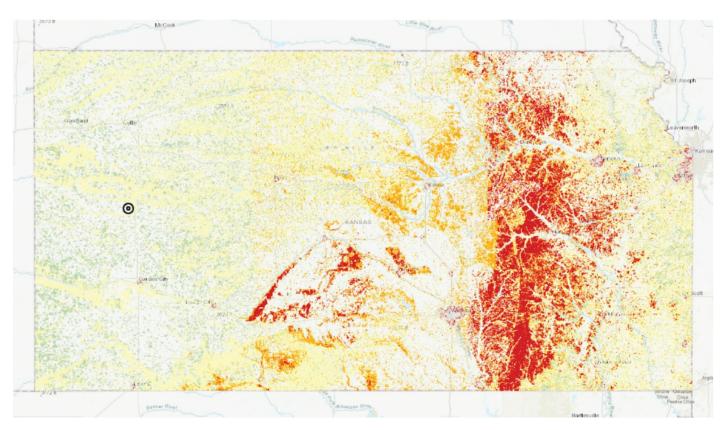


Wildfire Risk Assessment Portal

A tool for assessing wildfire risk

In 2023, Kansas launched the Wildfire Risk Assessment Portal. The Kansas Forest Service and the Timmons Group developed the portal as a tool for communities, fire departments and landowners to utilize for wildfire mitigation and resiliency after a fire.

The risk portal has been a collaborative effort many years in the making. The development of this tool is based on a decade of wildfire occurrence data, recent fuels data and historic fire weather in our state. For assistance using the portal, reach out to your Kansas Forest Service District Fire Management Officer.



kansaswildfirerisk.org





Vegetation Management

- Eliminate fuels within 30 feet of your home.
- Replace mulch with rock.
- Remove landscaping plants that are high in resins, oils or waxes.
- Trim tree branches allowing clearance of 6' or greater above ground vegetation. Don't exceed pruning more than 1/3 of the tree crown.
- Remove leaf litter around trees, under decks and against walls.
- Keep lawn watered.
- Mow lawn short. Do this before extreme fire weather occurs!

Home Construction

- Use metal fencing for the panel closest touching your home.
- Use non-flammable roofing, decking and siding.
- Use 1/8" mesh to screen attic vents and openings.
- Clean duff from gutters, under decking, and in cracks.
- Inspect your roof, particularly the ends of tiles, to ensure embers cannot penetrate under them.

Access

- Trim tree branches along driveway to provide a 12' wide and 15' high clearance so fire engines can access your property.
- Make sure electrical service lines have 15' high of clearance so fire engines can access your property.
- Clear obstacles so that engines have room to turn around and exit your driveway.
- Know two ways to evacuate your home.
- Clearly mark your driveway entrance with the street and house number.

LANDOWNERS

Prepare your Property

- Establish and maintain firebreaks around pastures and structures.
 Although bare soil or very sparce vegetation is best practice, anything that reduces fuel load and continuity helps.
- Create a safe zone for equipment that is free from all vegetation (concrete, gravel pad, or bare soil).
- Keep copies of gate keys and a written list of combinations.
- Keep an emergency supply kit in all ranch and personal vehicles.
- Reinforce fences with metal posts.
- Remove dead vegetation and combustible materials around all structures.
- Consider using growing season burns to reduce fuel loads and improve range health. Contact your Kansas Forest Service District Fire Management Officer for more information.
- Establish a relationship with your fire district. Exchange contact information.
- Tour your property with the district fire chief. Identify your priority assets and trouble spots.

When Threatened

- Close all windows and doors.
- Turn on all interior and exterior lights.
- Shut off gas supply and propane tanks.
- Unlock and open all gates.
- Evacuate!



Begins with property owners taking action

Fire-Resistant Landscaping

If you live next to a dense vegetation area, the WUI, you should provide defensible space to better protect your home. This will create a safer area for firefighters to operate if they have the capacity to defend your home. Creating a defensible space by removing weeds, dried grass, brush, and other vegetation helps keep the flames away from your home and reduces the risk of ignition from flying embers.

Consider This

Unmanaged and overgrown vegetation between and around homes increases the risk of wildland fire spreading into homes and endangering lives and property. Pre-fire planning through mitigation and vegetation management allows firefighters the ability to fight wildland fires more safely. The work you complete today may save your home and protect a firefighter tomorrow.

Ember Zone

An ember is a small, glowing fragment from a wildland fire that is carried by the wind. Embers are light enough to travel long distances and are the primary reason homes ignite, often at significant distances from the actual flame front of a wildland fire. Embers travel inside your home through vents, windows, and other openings.



Begins with property owners taking action



Homes on the Wildland Boundary are at Risk

If your home is within one mile of a natural area, it may be considered part of the Wildland-Urban Interface (WUI). Keep in mind, embers can destroy homes or neighborhoods far from the actual front of the fire. Use the information in this Guide to help you prepare your property.

Red Flag Warning

A Red Flag Warning is issued by the National Weather Service when low humidity, warm temperatures, dry fuels, and strong winds could combine to produce extreme fire behavior. Fires occurring during a Red Flag day can be very dangerous and spread rapidly. You should always follow the instructions provided by your local emergency response organizations and be prepared to take immediate action.

Create Defensible Space

Defensible space is the area around your home in which vegetation, debris, and other combustible fuels have been removed to slow the spread of fire to and from the home.

Properly applied, defensible space will prevent your home from igniting due to



direct flame contact or radiant heat. Defensible space is essential to help protect a structure and create a safer area for firefighters during a wildland fire. You should create defensible space by removing weeds, brush, and firewood, and by spacing out vegetation around your property.

Although this might seem like a daunting task, we recommend starting in Zone 1 and working your way out. Follow the considerations below for each zone and your property can become safer with each step.

Remember the Ember Zone

Embers are burning pieces of airborne material that can be carried more than a mile by the wind. Research points to embers and small flames as the main way homes ignite in wildland fires.

ZONE 1

ZONE 2

ZONE 3

0-5 feet around your home, or to property line.

- Use hard scape such as concrete or noncombustible rock mulch around your home.
- Clean roofs and gutters of dead leaves, debris, and pine needles.
- Store firewood and other combustible materials away from your home, garage, or attached deck.
- Prune away touching or over-hanging branches from the roof to a distance of at least 10 feet.
- Replace or repair any loose or missing shingles or roof tiles to prevent ember penetration.
- Rake and remove flammable vegetation, such as leaves and needles or wood mulch, from underneath your deck and away from your home.
- Use non-wood, lowgrowing herbaceous vegetation. Succulents, or other fire-resistant plants, are recommended choices.

5-30 feet around your home, or to property line.

- Create vegetation groups or islands to break up continuous fuels around your home.
- Remove ladder fuels to create a separation between low-level vegetation and tree canopies to keep fire from climbing into trees.
- Remove leaf and needle debris from the yard.
- Keep lawns, native grasses, and wildflowers less than four inches in height.
- Store firewood and other combustible materials away from outbuildings such as a shed or barn.
- recreational vehicles, storage sheds, and other combustible structures out of this zone and into Zone 3. If unable to move, create defensible space around them as if they were a part of your home.

30-200 feet around your home, or to property line.

- Create and maintain a minimum of 10 feet between the tree crowns.
- Safely remove ladder fuels up to a height of 6 feet and greater above ground vegetation, while retaining at least 75 percent of the crown, to create separation between the ground and tree branches. This helps reduce chances of fire from climbing into the tree canopies.
- Store firewood in this area, keeping it a safe distance from your structure.
- Create space between shrubs and trees to eliminate a continuous fuel bed at the ground level.
- Remove dead trees, shrubs, and all other dead or dry vegetation.
- Create separation
 between your property
 and your neighbors.
 Consider that your trees
 may pose a greater risk to
 your neighbor's home
 than to your own.



Harden Your Home

Construction materials and the quality of the defensible space surrounding the structure are what increases the chance of survival in a wildland fire. Embers from a wildland fire will find the weak spot in your home's fire protection scheme and can easily lodge in small, overlooked, or seemingly inconsequential areas. Look at where snow drifts form on your roof and deck and around your home - these are the areas where embers will collect. Below are some home hardening measures you can take to safeguard your home.

Balconies and Decks

Construct your balconies or decks with fire resistant materials and do not store combustible items underneath them. If there is a fire threat, bring any into your home. Embers can collect in or on combustible surfaces, or beneath decks and balconies, igniting the material and giving a path for the fire to enter your home. **Remove pine needles, leaves, grass**, or any other flammable materials from underneath your deck.

Roofs

Roofs are vulnerable to embers that become lodged and can start a fire, especially anywhere on the roof with litter buildup. **Roof valleys**, open ends of **barrel tiles**, and **rain gutters** are all points of entry. Block off all open spaces, and regularly inspect these areas. Remove any combustible material.

Harden Your Home

Eaves

Embers can gather under open eaves and ignite combustible material. Enclose your eaves with **noncombustible or ignition-resistant materials** to prevent ember intrusion, and regularly clear away debris that collects here.

Vents

Embers can enter the attic or other concealed spaces and ignite combustible materials through open and unscreened vents. Vents in eaves, gables and cornices are particularly vulnerable if not properly screened with wire mesh. Use **corrosion resistant metal mesh** to screen all vents, and check them regularly to remove any debris that collects in front of the screen.

Walls and Fencing

Combustible siding or fencing provides surfaces and crevices for embers to nestle and ignite. Ensure wooden fences do not connect directly to the house. Create a **break in the fence** by using a gate or noncombustible substitute to connect to the house. Build or remodel with **noncombustible or ignition-resistant materials** wherever possible, regularly clear away debris from any crevices, and perform annual upkeep.

Windows and Doors

Embers can enter gaps in doors, including garage doors. Install **weather proofing** around your garage door; and if your garage is attached to your home, make sure the interior door is solid and on **self-closing hinges**.

Plants or combustible storage near windows can be ignited from embers and generate heat that can break windows and/or melt combustible frames. Wherever possible, use **dual-paned windows with tempered glass**, as they are less likely to shatter from radiant heat.

Tour a Wildland Fire Prepared Home

Home Site and Yard: Ensure all vegetation within 200 feet around your home or to your property line is well-managed. This area may need to be enlarged in severe fire hazard areas due to topographic conditions. This may mean considering the impact a common slope or neighbor's yard may have on your wildland fire risk. Remember the importance of routine maintenance: creating defensible space is not something you do just once, it's continual. Maintain your defensible space and remove any regrowth. Keep woodpiles, propane tanks, and combustible materials away from your home and other structures such as detached garages, barns, and sheds. Ensure trees are away from power lines.

Roof: Use a Class A fire-rated roof covering, such as composition shingles, metal, or tile, when roofing or re-roofing. Block any spaces between roof decking by using a noncombustible underlayment covering to minimize ember intrusion. Clear pine needles, leaves, and other debris from your roof and gutters. Prune tree branches within 10 feet of your roof.

Deck/Patio Cover: Use heavy timber or noncombustible construction material for decks.

Keep your deck clear of combustible items, such as baskets, flower arrangements, and other material. Combustible materials should not be stored under your deck.

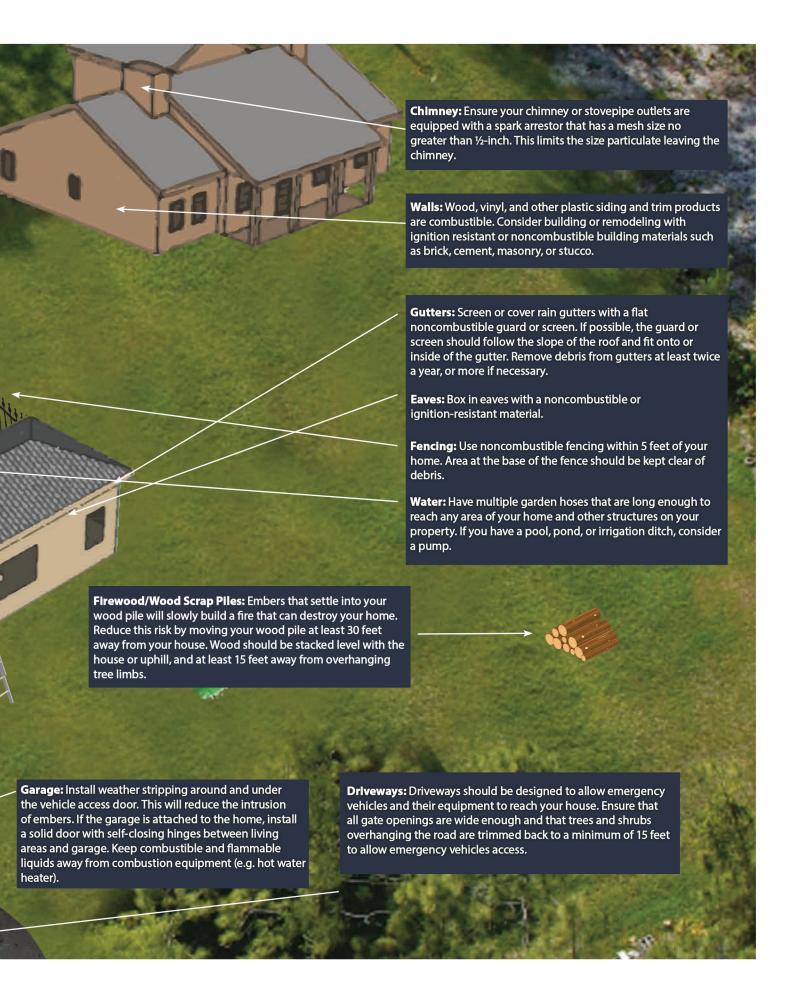
Inside: Keep working fire extinguishers on hand. Install smoke alarms on each level of your home and near bedrooms. Test them monthly and change the batteries twice a year.

Address: Make sure your address is clearly visible from the road and constructed of noncombustible materials. Reflective numbering is recommended. Check with your local fire department to see if they offer reflective address signs.

Ladders: Having a ladder readily accessible could assist responders in protecting your home during a wildland fire.

Vents: At a minimum, all vent openings should be covered with 1/8-inch corrosion resistant metal mesh.

Windows: Radiant heat from burning vegetation or a nearby structure can cause the glass in windows to break. This will allow flames to enter your home and start internal fires. Single-pane and large picture windows are particularly vulnerable to glass breakage. Install dualpaned windows with a minimum of one pane being tempered glass to reduce the chance of breakage during a fire. Metal blinds are best to protect the interior from radiant heat.



Create Your Own Action Plan

Your Wildland Fire Action Plan must be prepared with all members of your household well in advance of a wildland fire. Use these checklists to help you get Ready and Set with situational awareness in the threat of wildland fire.

Create a plan that includes evacuation meeting locations and communication plans - rehearse it regularly. Include the evacuation of all pets and large animals, which may include horses and livestock, in your plan.
Sign up for your local emergency notification system. Check your local fire department or emergency management agency websites for information on the system used in your area.
Designate an emergency meeting location outside the wildland fire hazard area.
Plan and practice several different evacuation routes.
Have fire extinguishers on hand and teach your household how to use them.
Ensure that everyone in your household knows where your gas, electric, and water main shut-off controls are located and how to use them.
Assemble a Go Kit as recommended by the American Red Cross. Keep an extra kit in your vehicle. Check this page for a list of recommended emergency supplies.
Have a portable radio or scanner so you can stay updated on the fire and weather emergency announcements.

Emergency Supplies for Go Kit

The American Red Cross recommends every household have an emergency supply kit assembled long before a wildland fire or other emergency occurs. Use the checklist below to help assemble yours. For more information on emergency supplies visit .

☐ Three-day supply of water (one gallon per person, per day) and non-perishable food for household members (3 day supply).
☐ First aid kit and sanitation supplies, including toilet paper and baby wipes.
☐ Flashlight, battery-powered radio, and extra batteries.
☐ An extra set of car keys, credit cards, cash, or traveler's checks.
☐ Extra eyeglasses, contact lenses, prescriptions, and medications.
☐ Important household member documents and contact numbers, including insurance documents.
☐ Map marked with evacuation routes. It is important to have a printed map in case your phone dies. It may also be easier to see the printed map than a phone screen under smokey conditions.
☐ Easily carried valuables and irreplaceable items.
☐ Personal electronic devices and chargers.
☐ Keep a pair of old shoes and a flashlight handy in case of a sudden evacuation at night.



Set

Prepare and Be Aware

Monitor fire weather conditions and	Inside Checklist, If Time Allows
fire status. Check your local fire department or emergency management websites and social media accounts for wildland fire information. Stay tuned to your TV or local radio stations for updates, including Red Flag Warnings in your area.	 Close all windows and doors. Remove all shades and curtains from windows and ensure all blinds remain open, unless you have metal blinds. Close all metal blinds. Move furniture to the center of the room, away from windows and
Alert household and neighbors. Dress in appropriate clothing (i.e., clothing made from natural fibers, such as cotton, and work boots). Have goggles and a dry bandana or particle mask handy.	 doors. Turn off pilot lights and air conditioning units. Leave your lights on so firefighters can see your house in smoky conditions.
Ensure your Go Kit includes all necessary items, such as a battery powered radio, spare batteries, emergency contact numbers, and drinking water.	
Remain close to your house, drink plenty of water, and ensure your household members and pets are accounted for and ready to leave.	

Set

Prepare and Be Aware



Outside Checklist, If Time Allows

- ☐ Make sure combustible items are a safe distance away from the exterior of the house (e.g., patio furniture, children's toys, door mats, etc.) If you have time, place these items inside your garage or home where they will not become a hazard.
- ☐ Turn off propane tanks and other gas at the meter.
- ☐ Don't leave sprinklers on or water running unless on private well. They can affect critical water pressure.
- ☐ Leave exterior lights on.
- ☐ Back your car into the driveway to facilitate a quick departure. Shut doors and roll up windows.
- □ Have a ladder ready to use to cover attic vents. Use pre-cut plywood or commercial seals. Use the same for ground vents. Do so in a safe manner, and only if time permits.
- Patrol your property and extinguish small fires, if you can do so safely, until you leave.

Set

Prepare and Be Aware



If You Are Trapped

- ☐ If you have become trapped and cannot evacuate, call 9-1-1 immediately.
- ☐ Stay in your home, sheltering away from walls, until the fire passes or emergency personnel tell you differently. Follow their instructions and commands.
- ☐ Look for spot fires and extinguish if found inside house.
- ☐ Wear long sleeves, long pants, and a bandana made of natural fibers, such as cotton.
- ☐ Stay hydrated.
- ☐ Ensure you can exit the home if it catches fire. Remember, if it's hot inside the house, it is four to five times hotter outside. Be prepared.
- ☐ Fill sinks and tubs for an emergency water supply.
- ☐ Place wet towels under doors to keep smoke and embers out.
- ☐ After the fire has passed, check your roof and extinguish any fires, sparks, or embers if you are able to safely do so. Check the attic as well.



Go!

Act Early

Leaving early gives you and your household members the best chance of surviving a wildland fire. You also help firefighters by keeping roads clear of congestion, enabling them to move more freely and do their job in a safer environment. Be sure to follow the direction of your local authorities.

When to Leave

If there is a possible threat to your home or evacuation route. Leave early enough to avoid being caught in fire, smoke, or road congestion. If you are advised to leave by local authorities, do not hesitate!

Where to Go

Go to a predetermined, low-risk area such as a 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. Choose the safest route away from the fire.

What to Take

Take your Go Kit containing your household members' and pet's necessary items.



My Personal Wildland Fire Action Guide

Write up your Wildland Fire Action Plan and post it in a location where every member of your household can see it. Rehearse it with your household.

During high-fire-danger days in your area, monitor your local media for information and be ready to implement your plan. Hot, dry, and windy conditions create the perfect environment for a wildland fire.

Important Phone Numbers

Out-of-Area Contact	Phone:
Work:	
School:	
Other:	<u> </u>
Evacuation Routes	
1	
2	
2	· · · · · · · · · · · · · · · · · · ·
3	
Where to Go	
Location of Emergency Supplies	
Notes	

Contact your local fire department for more tips to prepare before a wildland fire.

Residential Safety Checklist

Tips to Improve Household and Property Survival During a Wildland Fire

Get Ready

- Sign up for your local emergency alert system.
- Dispose of or relocate combustible material from around your home.
- Trim trees and bushes allowing ample space between your home and landscape vegetation.
- Arrange your Go Kit with prescription medication, emergency supplies, important documents and other essential items.

Prepare and Be Aware

- Make sure you have your Go Kit on hand in an accessible place.
- Alert household and neighbors of your action plan. Ensure your household members and pets are accounted for and ready to leave.
- Monitor local fire weather conditions and listen to emergency notification systems.

Act Early

- Get your Go Kit and leave well before the threat approaches following a planned, accessible route.
- Stay aware of the situation and follow your plan.
- Cooperate with local authorities during evacuation and re-entry processes.









wildlandfirersg.org



Connect with your local District Fire Management Officer



kansasforests.org



The Kansas Forest Service is an equal opportunity provider and does not discriminate based on non-merit reasons. For more information, see the link above or call our office at 785-532-3300.