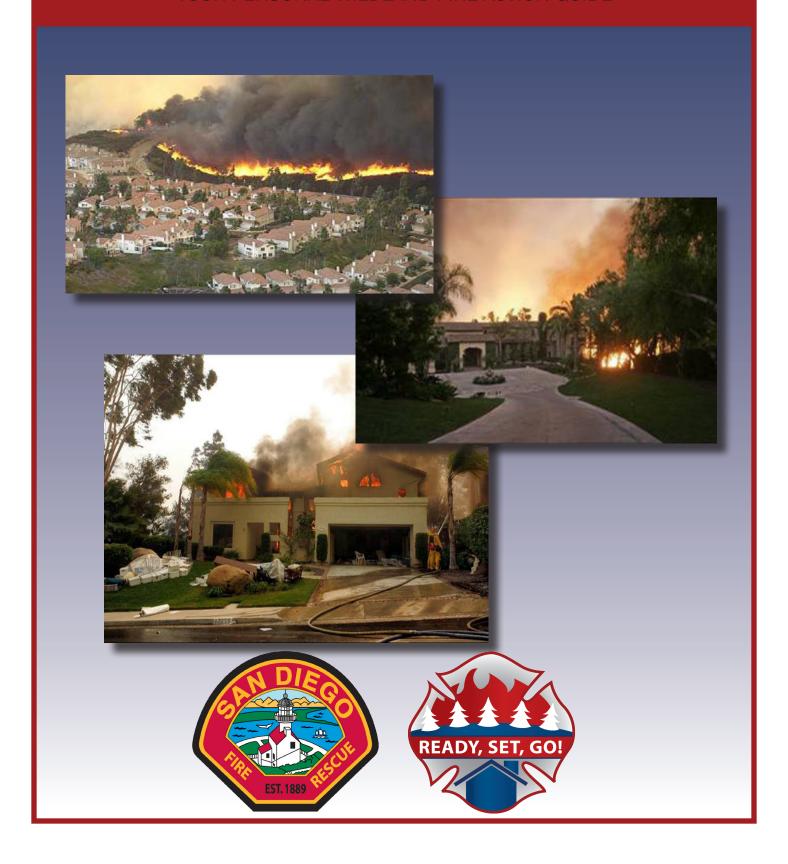
READY, SET, GO!

YOUR PERSONAL WILDLAND FIRE ACTION GUIDE



READY, SET, GO!

Wildland Fire Action Guide

Saving Lives and Property through Advance Planning



ire season is a year-round reality in our region, requiring firefighters and residents to be on heightened alert for the threat of wildland fire.

With our many canyons, San Diego has hundreds of linear miles of Wildland Urban Interface (WUI). Each year, wildland fires consume hundreds of homes in the WUI. Studies show that as many as 80 percent of those homes could have been saved if their owners had followed a few simple fire-safe practices. In addition, wildland fire-related deaths occur because people wait too long to leave their home.

The San Diego Fire-Rescue Department takes every precaution to help protect you and your property from wildland fire. However, the reality is that in a major wildland fire event, there will simply not be enough fire resources or firefighters to defend every home.

Successfully preparing for a wildland fire enables you to take personal responsibility for protecting yourself, your family and your property. In this Action Guide, we hope to provide the tips and tools you need to prepare; to know what to do when a fire starts; and to leave early.

The Ready, Set, Go! Program works in complementary and collaborative fashion with the Firewise® Communities Program and other wildland fire public education efforts.

Fire has always been a natural occurrence in Southern California. Our hills and canyons burned periodically long before we built homes here. Wildland fire, fueled by a build-up of dry vegetation and driven by seasonal Santa Ana winds, are extremely dangerous and difficult to control. Many homes have been built and landscaped without fully understanding what a fire can do and few families are adequately prepared for a quick evacuation.

It is not a question of **if** but **when** the next major wildland fire will occur. Advance planning and preparation are our best defense. We hope you find the tips in the following pages helpful and take them to heart.

Javier Mainar

Chief, San Diego Fire-Rescue Department

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INSIDE

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Safety Checklist

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Living in the Wildland Urban Interface and the Ember Zone

Ready, Set, Go! begins with a house that firefighters can defend

Defensible Space Works!

If you live next to a naturally vegetated area, often called the Wildland Urban Interface, provide firefighters with 100 feet of defensible space to protect your home. The buffer zone you create by removing weeds, brush and thinning vegetation helps keep the fire away from your home and reduces the risk from flying embers. Firewise Communities and the Fire-Rescue Department's brush management guidelines provide valuable guidance on property enhancements.







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 wildland fire.





What is Defensible Space?



Defensible space is the required space between a structure and the wildland area that, under normal conditions, creates a sufficient buffer to slow or halt the spread of wildland fire to a structure. It protects the home from igniting due to direct flame or radiant heat. Defensible space is essential for structure survivability during wildland fire conditions. For more information about defensible space zones and preparedness techniques within each, visit the San Diego Fire-Rescue website at http://www.sandiego.gov/fire/services/brush

ZONE ONE

Zone One extends 35 feet from your home.

- Must be permanently irrigated to maintain succulent growth.
- Is primarily low-growing plant material, with the exception of trees. Plants shall be low-fuel and fire-resistive.
- Trim tree canopies regularly to remove dead wood and keep branches a minimum of 10 feet from structures, chimney outlets and other trees.
- Remove leaf litter (dry leaves/pine needles) from yard, roof and rain gutters.
- · Relocate woodpiles and 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 would allow the fire to spread from the ground to the tree canopy). Create a separation between low-level vegetation and tree branches by reducing the height of the vegetation and/or trimming low branches.

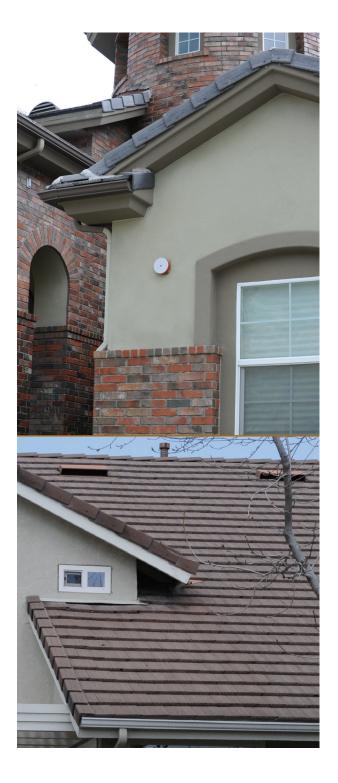
ZONE TWO

Zone Two extends 35 to 100 feet from your home.

- Minimize the chance of fire jumping from plant to plant by removing dead material and removing or thinning vegetation seasonally. The minimum spacing between vegetation is three times the dimension of the plant.
- There should be no permanent irrigation in Zone Two.
- Remove "ladder fuels."
- Cut or mow annual grass down to a maximum height of 4 inches.
- Trim tree canopies regularly to keep branches a minimum of 10 feet from other trees.

What is a Hardened Home?

Construction materials and the quality of the defensible space surrounding a home are what gives it the best chance to survive a wildland fire. Embers from a wildland fire can find the weak link in your home's fire protection scheme and gain the upper hand because of a small, overlooked or seemingly inconsequential factor. However, there are measures you can take to safeguard your home from wildland fire. While you may not be able to accomplish all the measures listed below, each will increase your home's, and possibly your family's, safety and survival during a wildland fire.



ROOFS

Roofs are the most vulnerable surface where embers land because they can lodge and start a fire. Roof valleys, open ends of barrel tiles and rain gutters are all points of entry.

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 through vents and ignite combustible materials. Vents in eaves and cornices are particularly vulnerable, as are any unscreened vents.

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 through open windows and gaps in doors, including garage doors. Plants or combustible storage near windows can ignite 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 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 year-round from any fire that may start in your home.

Tour a Wildland Fire Prepared Home

Home Site and Yard: Ensure you have at least a 100-foot radius of defensible space (thinned 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 neighbors' yard will have on your property during a wildland fire.

Cut and remove 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 wildland fire.

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 ten feet of your roof.

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

All vent openings should be covered with $\frac{1}{6}$ inch 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 wildland fire 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 and carbon monoxide detectors 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, such as brick, cement, masonry or stucco.

Be sure to extend materials from foundation to roof.

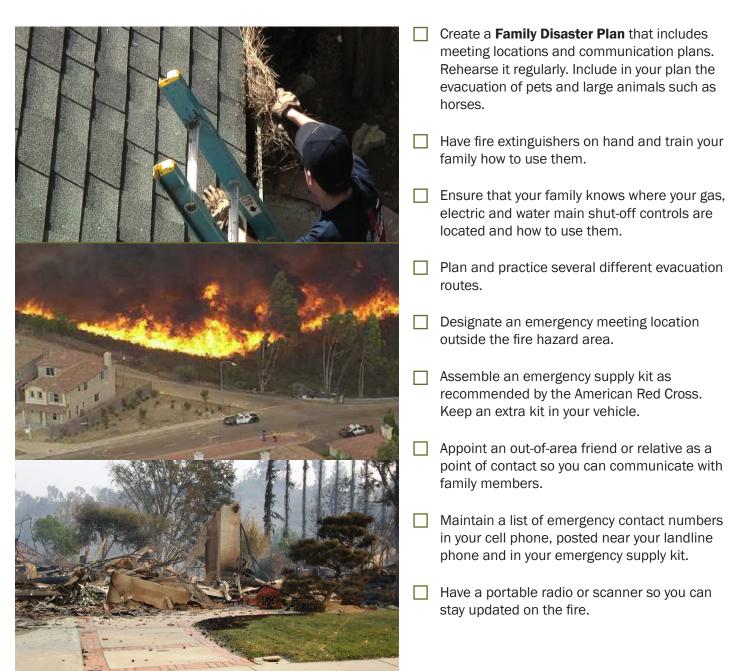


READY, SET, GO!

Create Your Own Action Guide

Now that you've done everything you can to protect your house, its time to prepare your family. Your **Wildland Fire Action Guide** must be prepared well in advance of a fire. Include *all* members of your household. Use these checklists to help you gain a situational awareness of the threat and to prepare your Wildland Fire Action Guide. For more information on property and home preparedness before a fire threat, review the preparedness checklist on the Firewise Communities website, www.firewise.org

Ready – Preparing for the Fire Threat



Set – Situational Awareness when a Fire Starts

	Evacuate as soon as you are set!	OU	TSIDE CHECKLIST, IF TIME ALLOWS		
	Alert family and neighbors.		Bring combustible items from the exterior of		
	Dress in appropriate clothing (i.e. clothing made from natural fibers, such as cotton, and work boots). Have goggles and a dry bandana or		the house inside (items such as patio furniture, children's toys, door mats, etc.) or place them in the pool, if you have one.		
	particle mask handy.		Turn off propane tanks and gas at the meter.		
	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 updates, or check the Fire-Rescue Department Web site www.sandiego.gov/fire, Facebook page and Twitter feed.		Don't leave sprinklers on or water running - they can waste 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 available.		
			Patrol your property and extinguish all small fires until you leave.		
	Remain close to your house, drink plenty of water and keep an eye on your family and pets until you are ready to leave.		Cover attic and ground vents with pre-cut plywood or commercial covers.		
INSIDE CHECKLIST, IF TIME ALLOWS			IF YOU ARE TRAPPED: SURVIVAL TIPS		
			Remain inside your home until the fire passes.		
Ш	Close all windows and doors, but leave them unlocked.		Shelter away from outside walls.		
	Remove flammable window shades and curtains and close metal shutters.		Bring garden hoses inside the house so embers don't destroy them.		
	Move furniture to the center of the room, away from windows and doors.		Patrol inside your home for spot fires and extinguish any you find.		
	Turn off pilot lights and air conditioning.		Wear long sleeves and long pants made of natura fibers such as cotton.		
	Leave your lights on so firefighters can see your house and other structures under smoky		Stay hydrated.		
	conditions.		Ensure you can exit the home if it catches fire (remember if it is hot inside the house, it is four to five times hotter outside).		
7.			Fill sinks and tubs for an emergency water supply.		
1			Place wet towels under doors to keep smoke and embers out.		
			After the fire has passed, check your home and roof. Extinguish any fires, sparks or embers.		
			Check inside the attic for hidden embers.		
			If there are fires that you cannot extinguish with a small amount of water or in a short period of time, call 9-1-1.		

Go – Leave Early

By leaving early, you give your family 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.

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 wildland fire, they may not have time to knock on every door. If you are advised to leave by local authorities, 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 prepared emergency supply kit containing your family and pet's necessary items.



EMERGENCY SUPPLIES

The American Red Cross recommends every family 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 the American Red Cross Web site at www.redcross.org.

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 and 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, valuable and other irreplaceable items that are easy to carry.
Personal computers, hard drives, disks and flash drivers.
Chargers for electronic communication de-

Note: Keep a pair of old shoes and a flashlight handy in case of a sudden evacuation at night.

vices.

My Personal Wildland Fire Action Guide

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:	





Safety Checklist Tips To Improve Family and Property Survival During A Wildland Fire

	Home	Yes	No
1.	Does your home have a metal, composition, 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 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 double-paned or tempered glass?		
8.	Are decks, porches and similar areas made of non-combustible material and are they free of easily combustible material?		
9.	Is all firewood at least 30 feet from the house?		
_			
	Defensible Space	Yes	No
1.	Defensible Space Has dead vegetation been removed from the defensible space zones around your home? (Consider adding distance due to slope of property.)	Yes	No
	Has dead vegetation been removed from the defensible space zones	_	No
2.	Has dead vegetation been removed from the defensible space zones around your home? (Consider adding distance due to slope of property.)		No
2. 3.	Has dead vegetation been removed from the defensible space zones around your home? (Consider adding distance due to slope of property.) Is the required separation between shrubs maintained?		No
 3. 4. 	Has dead vegetation been removed from the defensible space zones around your home? (Consider adding distance due to slope of property.) Is the required separation between shrubs maintained? Have ladder fuels been removed?		No
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Ready, Set, Go! www.wildlandfireRSG.org www.sandiego.gov/fire













