

## Here's How to Get Started: Create a Firewise Landscape in Seven Steps

### Step One

Evaluate the environment around your home. What will catch on fire? Be on the lookout for those "little things" that can burn your home. Also consider slope, prevailing winds, vegetation type and density, and exposure to direct sun.

### Step Two

Determine what you need to do. Start with the closest Home Ignition Zone and work toward the Defensible Space Zone and through the Wildland Fuel Reduction Zone.

### Step Three

Develop a plan for correcting any firewise problems identified in steps one and two. Consider completing your work prior to June 1st of each year before fuel conditions become too dry. Make sure your power tools have approved spark arresters and, if working in the summer months, complete all work before 10 am. Coordinate with adjacent land owners if possible and incorporate existing formal landscape features.

### Step Four

Consider codes and regulations related to *defensible space*, burning, work performed near waterways, and tree removal; if necessary, secure permits such as burn permits.

- The Department of Forestry & Fire Protection (CDF) should be consulted if any wood products from your property are sold, traded or bartered. Types of regulated wood products include sawmill logs, firewood or wood chips. For more information, contact CDF at 530/538-7111.
- The Department of Fish & Game should be notified and consulted if work occurs near a river, stream, lake, or tributaries. Call 916/358-2900, or look on the web at: <http://www.dfg.ca.gov/1600/1600.html>
- Before cutting down trees, residents of Paradise should review 1998 Town of Paradise Tree Preservation Ordinance 301, Section 2; and also the Paradise Municipal Code, Section 8.50.160.

### Step Five

Implement the plan. Get help and any needed equipment. Begin work in the Home Ignition Zone and work out from there. Remember: It's the little things—such as patio furniture, leaves, needles, bark, etc.—that can ignite and cause a fire to your home.

### Step Six

Remove all slash and debris generated during the fuel modification process by chipping, burning or disposal at your local vegetative waste site. Contact your local fire department for permit requirements. For information on the Community Chipper Program, sponsored by the Butte County Fire Safe Council, phone 530/877-0984.

### Step Seven

Continue to monitor and evaluate the firewise condition of your home and landscape. Maintain your home's resistance to fire and the *defensible space* in the surrounding property on a routine basis—annually or more frequently, if needed.

Publication design and printing: Cedar Creek Publishing; 530/872-0850  
Artist: David Thompson; 530/877-4944

This brochure was made possible by the Community Based Wildfire Prevention Grant Program of the Sacramento Regional Foundation, in cooperation with the Bureau of Land Management.

## For more information:



**Butte County Fire Safe Council**  
767 Birch Street  
Paradise, CA 95969  
phone: 530/877-0984  
[www.ButteFireSafe.org](http://www.ButteFireSafe.org)

Contact your local fire department for guidance in making your home and property firewise, defensible space regulations and burn permits:

- California Department of Forestry & Fire Protection/ Butte County Fire Department; also serving the cities of Biggs and Gridley; 530/538-7111  
<http://www.ButteFire.com> • <http://www.fire.ca.gov>
- Paradise Fire Department; 530/872-6265  
<http://www.TownOfParadise.com>
- Chico Fire Department; 530/895-4930  
[http://www.ci.chico.ca.us/fire/home\\_Page.asp](http://www.ci.chico.ca.us/fire/home_Page.asp)
- Oroville Fire Department; 530/538-2487  
<http://www.CityOfOroville.org/Fire/FireDepartment.html>

## On the Web:

- <http://www.ButteFireSafe.org>  
Home site for the Butte County Fire Safe Council
- <http://www.firewise.org>  
National Wildland/Urban Interface Fire Program
- <http://ceres.ca.gov/foreststeward>  
California Forest Stewardship
- <http://www.tree-pruning.com>  
Information on tree pruning techniques
- <http://www.fire.ca.gov>  
California Department of Forestry & Fire Protection; includes forest management information
- <http://www.firesafecouncil.org>  
California State Fire Safe Council

## Other references:

- *Will Your Home Survive?* by R.D. Harell and William Teie (Deer Valley Press, 2001); 800/455-1950
- *California Wildfire Landscaping; How To Comply With the High Fire Hazard Law* by Maureen Gilmer (Taylor Publishing, 1994)
- *Sunset Western Landscaping Guide* (Sunset Publishing, 1997)
- *Pruning Mature Trees*  
International Society of Arboriculture  
P.O. Box 3129, Champaign, IL 61826
- Contact your local community or property owners' association for landscaping guidelines and applicable CC&Rs

# A Homeowner's Guide to Firewise Landscaping in Butte County



## Brushland



Produced by the Butte County Fire Safe Council. Our mission is to "provide education, exchange information and foster fire prevention and fire safety within the County of Butte."

[www.ButteFireSafe.org](http://www.ButteFireSafe.org)

## Is Your Home a Safe Place to Stay?

You live in an area of natural beauty—but it's also prone to wildfire. In fact, it's not a matter of *if* the brushlands of Butte County will burn, it's a matter of *when* that will happen.

Fortunately, you can take steps today to dramatically improve your odds of survival by making your property "firewise."

A firewise property is one where the home and landscape resist the impact of fire. A firewise landscape is a beautiful landscape that not only protects your home from fire but can also increase the value of your home.

## The Fire Environment

Fire behavior is affected by a variety of factors—some of these you can do something about and others are weather-related and beyond your control. Understanding these terms will help you make your home and the surrounding property firewise.

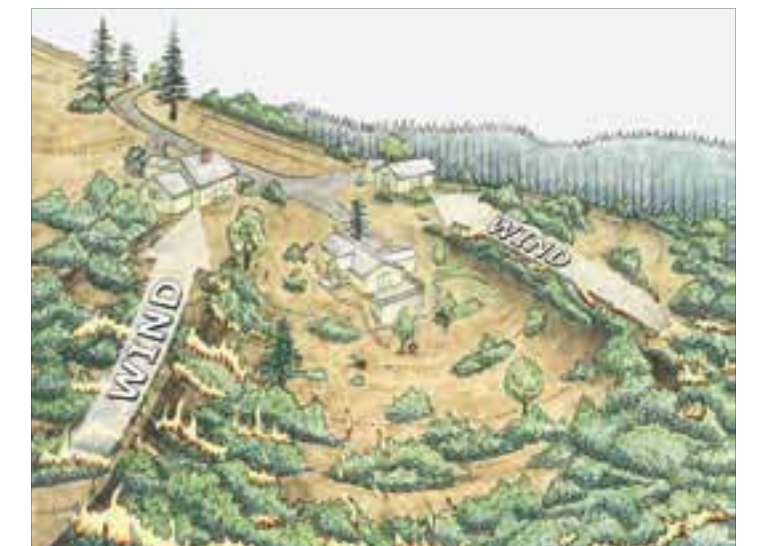
**Fuels:** Any flammable materials that will burn. This includes everything from the home itself to plants, dried leaves in the rain gutter, brush, wood shingles, patio furniture and decking material. If it will burn, it's a fuel.

**Ignition:** The point at which a fire starts as a result of fuel contacting with embers, firebrands (hot, flying embers), direct flame, or superheated air.

**Topography:** Primarily slope or the steepness of the incline on which your house is situated. Also your home's location on the slope and proximity to canyons or ravines.

**Weather:** Primarily wind, but also air temperature and humidity (moisture content of the air).

**eXtreme X-Factor:** A multiplication factor used to increase the *defensible space* around a home due to eXtreme fire behavior factors such as slope, and/or constant or unusually strong winds. If your home is located **on or near** the top of a slope and/or **receives constant or unusually strong winds**, such as occurs in the Feather River, Butte Creek and Chico Creek canyons, you must increase the *defensible space* in Zones 2 and 3 by a multiplication of 1.5 (**X-Factor**). For instance, in Zone 2, increase the *defensible space* from 30 feet to 45 feet; and in Zone 3 increase from 100 feet to 150 feet.



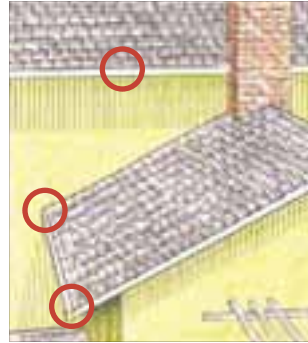
During the summer and fall months, a combination of low humidity, high temperatures and strong winds results in a "red flag" weather warning. During such a condition, the fire danger is very high. The X-Factor explained above helps provide that extra margin of *defensible space* necessary to keep your property firewise.

## Home Ignition Zone

(The home plus 10 ft distance)

It's the 'little things' that will endanger your home. Just a little ember landing on a little pile of flammable material will burn it. Spend a morning searching out and getting rid of those flammable little things outside and your home will be much safer.

1. Keep your rain gutters and roof clean of all flammable material.



2. Get rid of dry grass, brush and other flammable materials around your home—and don't forget leaves, pine needles and bark walkways. Replace with well maintained (watered) landscape vegetation, green lawn, and landscape rocks.

3. Clear all flammable materials from your deck. This includes brooms, stacked wood and easily ignitable patio furniture. Also enclose or board up the area under your deck to keep it from becoming a fuel bed for hot embers.



4. Move woodpiles and garbage cans away from your home. Keep woodpiles away from the home a distance of 2 times the height of the pile—more if lot size allows.

5. Use fine mesh screen (1/4" or less) to cover eaves, roof and foundation vents to prevent windblown embers from entering.

6. Inspect and clean your chimney every year. Trim away branches within 10 feet. Install a spark arrester with 1/4" or smaller mesh screen.



7. Got a propane tank? Get rid of any flammable materials within 10 feet of it and, if possible, position it at least 30 feet from any structures.

Burning embers landing on wood shake roofs are one of the leading risk factors for losing your home to a wildfire. If possible, replace wood shingle roofs with non-flammable (Class-A) roofing materials, such as asphalt shingles, tile or metal roofing.

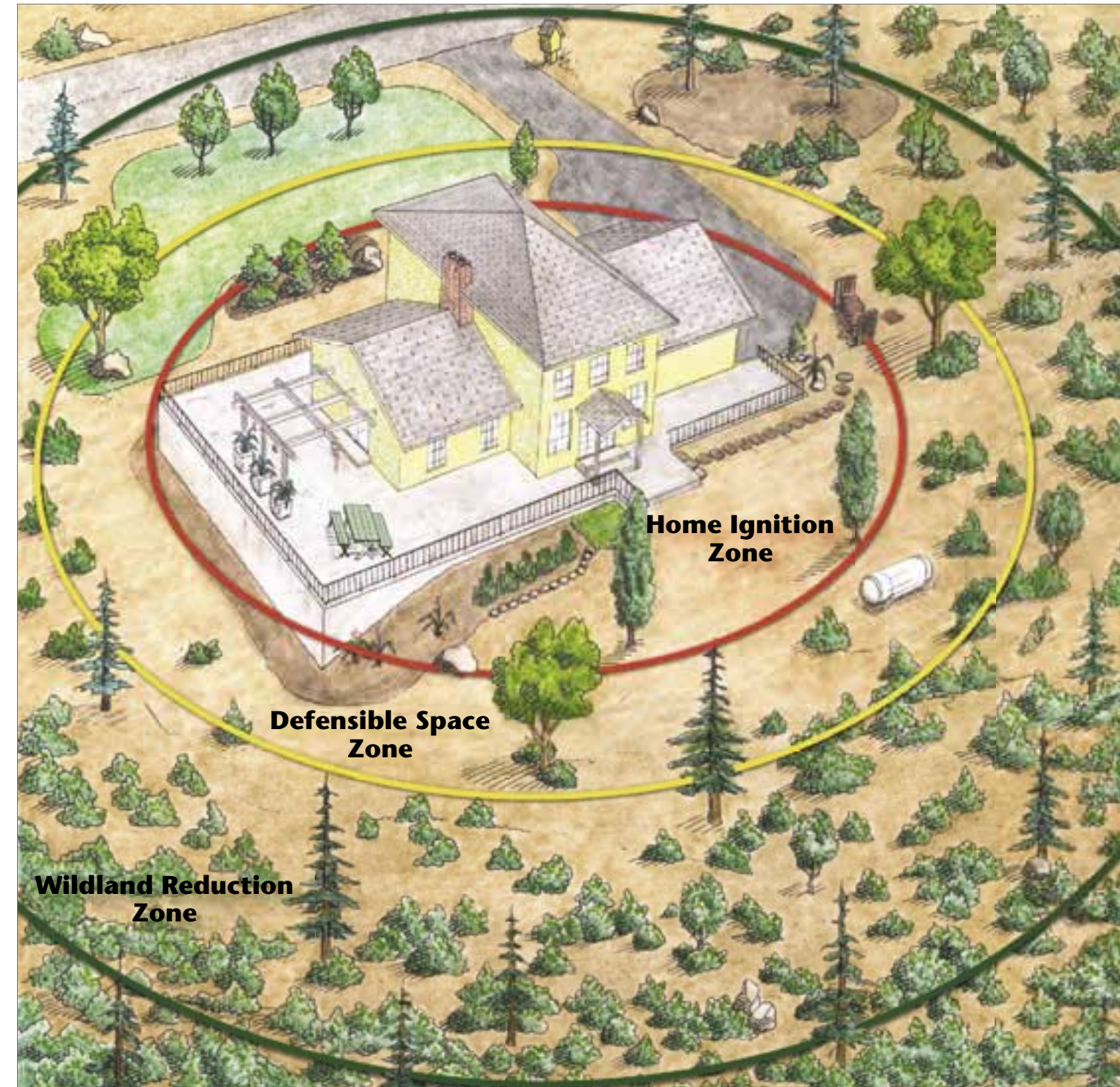
## Defensible Space Zone (minimum of 30 feet distance) • Keep this area lean and green!

Your "defensible space" is the area out to about 30 feet from your home (as required under State Public Resources Code 4291 or other local ordinances). This is the area where you've modified the landscaping to allow your house to survive on its own—greatly improving the odds for firefighters who are defending your home.

If your home is on a slope or subject to high winds, extend the distance of this zone based upon the "X-Factor." This zone may increase, then, to 45 feet (1.5 X 30 feet).

Create a *Defensible Space Zone* by keeping in mind the three R's of defensible space:

- **Remove**—dead and dying grass, shrubs and trees.
- **Reduce**—the density of vegetation (fuel) and ladder fuels, those fuels extending from the ground to the tree canopies.
- **Replace**—hazardous vegetation with less flammable, irrigated landscape vegetation including lawn, or other low growing groundcovers and flowering plants.



Find out more ways to make your home fire safe: [www.ButteFireSafe.org](http://www.ButteFireSafe.org)

## Wildland Fuel Reduction Zone

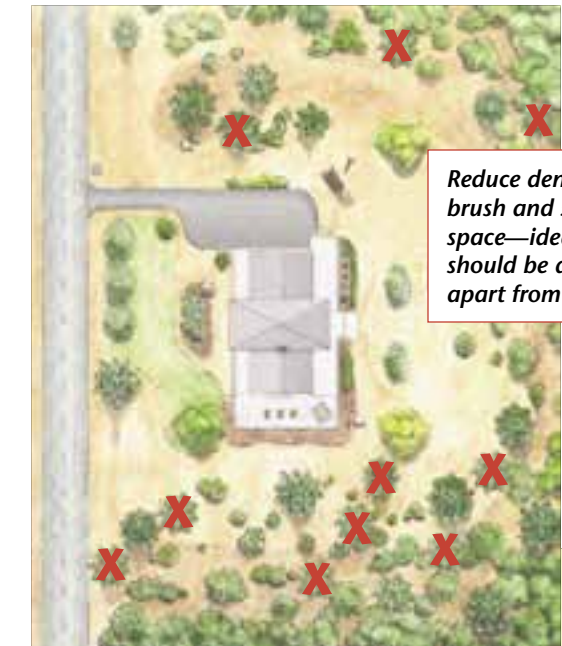
(30 to 100 ft—or more—distance)

Getting rid of the undergrowth and thinning out densely-crowded smaller trees in this outlying area will reduce fire intensity and slow the spread of a fire moving toward your home. Defensible space increases the odds of your home's survival.

Experts recommend a minimum of 10 feet of spacing between individual trees and shrubs, measured at the crown (widest part) of the tree or shrub. You may need to increase this distance based on your property's X-Factor.

Mature trees should also be limbed up 10 feet, or 1/3 of their live crown height, whichever is greater.

It's possible, depending upon the size of your property, that you will be limited by your property boundary and unable to complete the firewise measures identified in Zones 2 and 3. If this happens, talk with your neighbors and ask for their cooperation. A safer home means a safer neighborhood for everyone.



Reduce density by giving brush and shrubs more space—ideally they should be about 10 feet apart from one another.

Fire "climbs" neighboring trees—don't give it a ladder that reaches from low to high. Limb live trees up to 10 feet or 1/3 of live crown height, whichever is greater.

