ARBORISTS AND WILDFIRE PREPAREDNESS



Kari Hines: Firewise Coordinator



Tree Protection

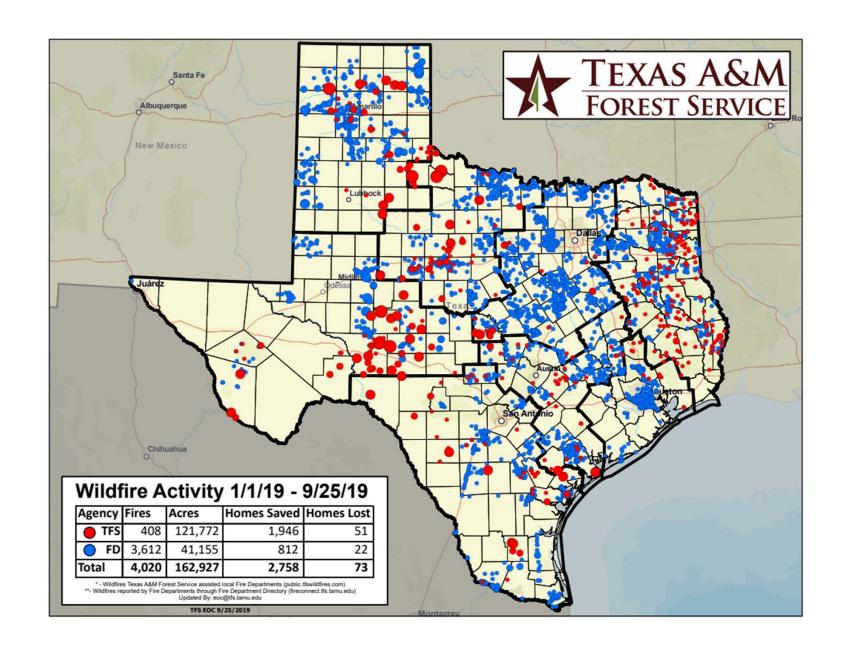
- Lightning
- □ Erosion
- Drought
- □ Insects
- Diseases

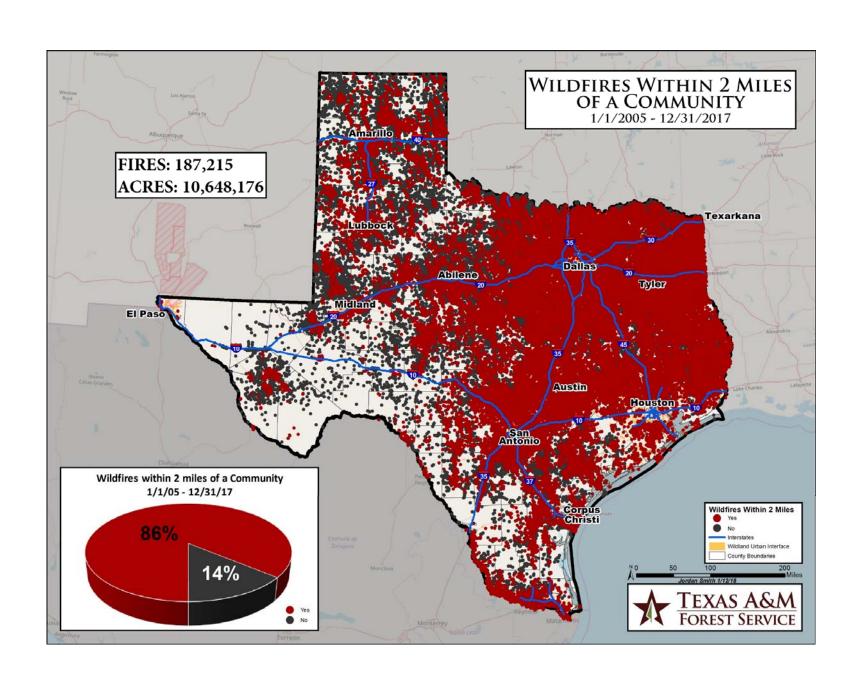
Why not wildfire too?



Wildfire in Texas

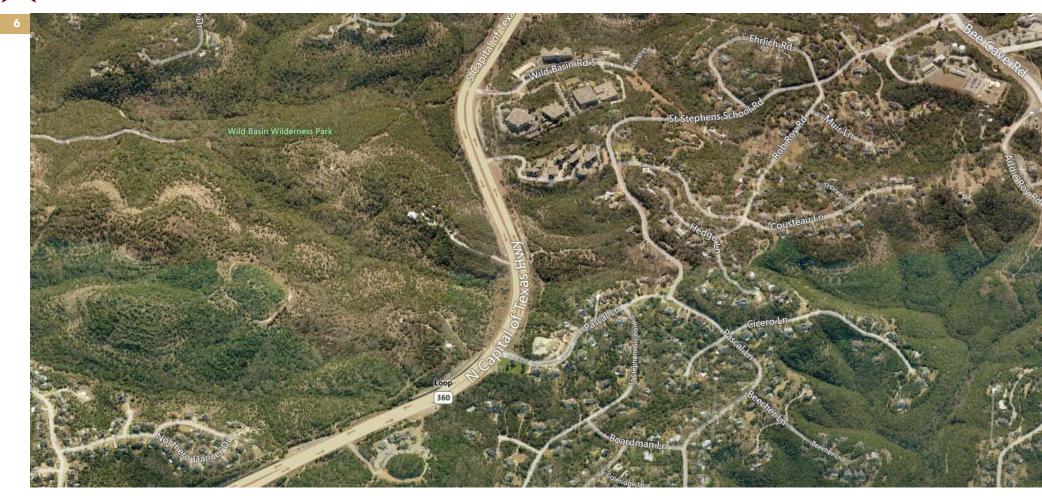
- Wildfire is a natural part of almost all Texas ecosystems
- Many Texas residents do not realize that previous suppression have throw the environment out of balance, increasing the chance of catastrophic wildfires.







So, What's the Problem?





Ignition Causes

• Humans cause over 90% of the wildfire in Texas

 Burn piles and debris burning is the #1 source of human caused wildfire



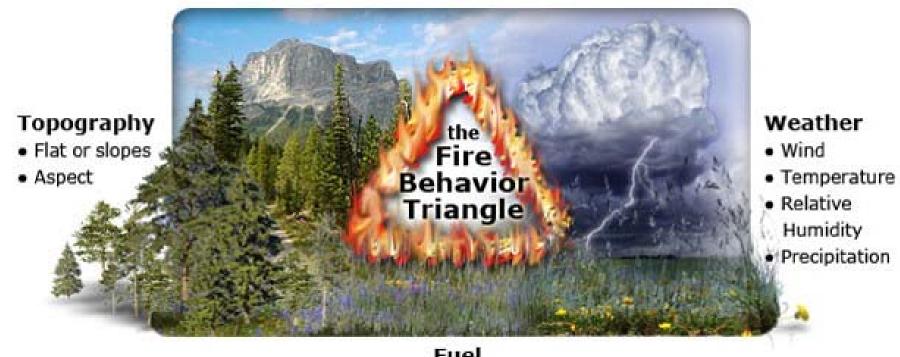


Wildfire 101

The Fire Triangles



The Fire Triangles



Fuel

• Fine or Heavy • Arrangement & continuity • Fuel Moisture



What Is The Wildland Urban Interface?

Formal definition of WUI:

"A geographic area where formerly urban structures, primarily homes, are built in immediate proximity to naturally occurring flammable fuels."



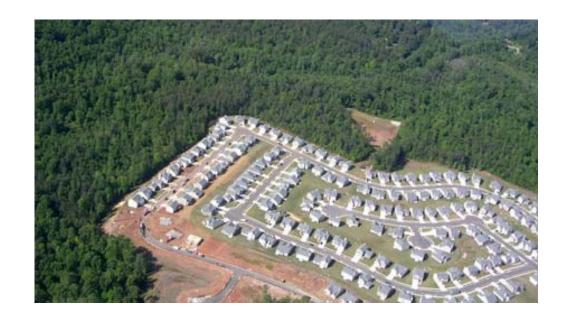


Where human habitat meets wildlife habitat



Classic WUI

Where subdivisions or urban neighborhoods occur adjacent to rural or wildland areas







Intermix WUI

Homes, farms, ranches and resort areas scattered in the rural areas and wildlands





Land that is undergoing a transition from agricultural, forest or rangeland uses to urban land uses



★ Occluded WUI

Wildland that lie within a larger developed area such as parks, forests, greenbelts and other recreational areas







Publication Details

High wildfire damage in interface communities in California

Kramer, Heather Anu; Mockrin, Miranda H.; Alexandre, Patricia M.; Radeloff, Volker C.

Year Published

2019

Publication

International Journal of Wildland Fire

Abstract

Globally, and in the US, wildfires pose increasing risk to people and their homes. Wildfire management assumes that buildings burn primarily in the wildland–urban interface (WUI), where homes are either ignited directly

(especially in internix WUI areas, where houses and wildland fuels intermingle), or via firebrands, the main threat to buildings in the interface WUI (areas with minimal wildland fuel, yet close to dense wildland vegetation). However, even urban areas can succumb to wildfires. We examined where wildfire damages occur among urban, rural and WUI (intermix and interface) areas for approximately three decades in California (1985–2013). We found that interface WUI contained 50% of buildings destroyed by wildfire, whereas intermix WUI contained only 32%. The proportion of buildings destroyed by fires among classes was similar, though highest in interface WUI areas (15.6%). Our results demonstrate that the interface WUI is where most buildings were destroyed in California, despite less wildland fuel. Sontinued advancement of models, mitigation and regulations tailored for the interface WUI, both for California and elsewhere, will complement the prior focus on the intermix WUI.





Methods of Ignition

Radiant Heat Flame Impingement **Embers**



Radiant Heat







Flame Impingement

Flame fronts move through vegetation or objects that contact combustible materials (deck supports, vegetation, etc.).





The ignition of these materials can lead to the burning of the structure.

*

Embers

An ember shower can start 30 minutes or more before the fire and can be sustained for two hours or more after the fire has passed.









Usually, trees don't burn down homes, it's the homes that burn down trees.





Protecting Landscapes Protects Urban Forests







A Healthy Landscape is a Fire Resistant Landscape





Preventing Ecosystem Loss

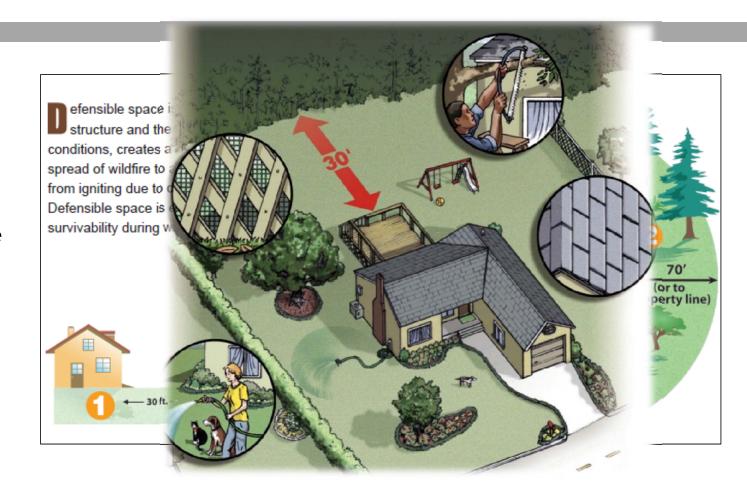
- Mulching
- PrescribedFire
- HandThinning
- Mowing
- And More!





Preventing Home Loss

- Three Keys of RiskReduction
- Defensible Space
- Fire-ResistantLandscaping
- 3. Home Hardening



Marketing



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HOME

ARBORIST SERVICES

FIRE MITIGATION

TREE SPRAYING

CONTACT US

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Professional Wildfire Mitigation Service For Durango Colorado And The Four Corners







Woodchuck Tree Service offers wildfire mitigation done professionally by a crew led by ISA Certified Arborists. Creating defensible space does not mean clear cutting around your home. It entails managing trees, brush, or other vegetation to slow the spread of fire while maintaining the beauty of your forest.



PROTECT YOUR HOME & FAMILY FROM FOREST FIRES

While the Colorado foothills west of Denver are a beautiful place to live, the area is unfortunately prone to devastating wildfires. For that reason, fire mitigation is one of the most important and effective ways to protect yourself, your family and your home from the risk of catastrophic damage in a forest fire.

WHAT IS WILDFIRE MITIGATION?

Wildfire mitigation allows you to minimize the destructive effects a wildfire has on your property by creating a defensible space around your home and modifying the home's construction (for example, the materials used to build your house). Defensible space is the area around your house where the vegetation, including shrubs and trees, has been modified or removed to reduce the intensity of a wildfire and slow its spread.

FIRE MITIGATION SERVICES FROM LAM TREE SERVICE

Our tree care professionals focus on reducing the amount of combustible plant fuels around your property to create a defensible space.

We focus on three levels of potential threats to your property:

GET A FREE QUOTE

Call us at 303-674-8733 or contact us online to get a free estimate for Fire Mitigation or a firewise landscaping consultation.

REQUEST AN ESTIMATE

FIRE MITIGATION RESOURCES

For more details about creating a fire resistant landscape to prevent or reduce wildfire damage to your home, check out our Firewise Landscaping Resource page.

Consumer Advisory from the Colorado Department of Regulatory Agencies.



Not Just for Commercial Arborists

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Feedback

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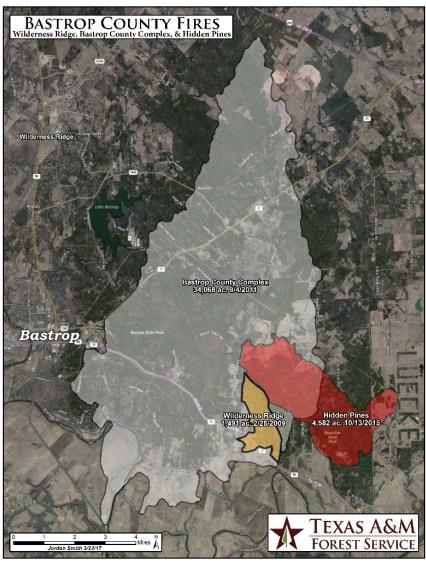
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Not Just for Commercial Arborists







What Do You Get Out of the WRRQ Course?

- Course taught by experienced professionals
- Take a peak into the world on how wildfires burn and how you can help your community by becoming a "pre- first responder"
- Be included on a public list of fellow arborists who are WRRQ qualified

Thank you!

Any questions?