Winter Fire Weather Webinar

Weather & Wildfire:

What you should know.

What your audience should know.

Dec. 11, 2015 10 a.m. ★ Juan Acuna
 ★ Tom Spencer
 ★ Stuart Coombs





Winter Fire Weather Webinar: 2016 Winter Fire Weather Outlook

AGENDA

- Introductions
- Winter fire weather outlook
- Wildland fire fuels
- Wildfire prevention
- Working with Texas A&M Forest Service
- Live Q&A

Organizer: Jessica Jackson, Communications Specialist

Winter Fire Weather Webinar: 2016 Winter Fire Weather Outlook

FEATURED SPEAKERS



Juan Acuna Fire Weather Analyst



Tom Spencer
Predictive Services
Department Head



Stuart Coombs
Wildland Urban Interface
Specialist



Who we are

CONSERVE

PROTECT

LEAD

Texas A&M Forest Service

- State agency under the Texas Legislature
 - conserve forests and natural resources
 - protect lives and property
- Member of the Texas A&MUniversity System



What we do

CONSERVE

PROTECT

LEAD

Predictive Services Department

We study

- weather patterns
- drought cycles
- wildfire occurrence
- the status of vegetation statewide

To predict when and where dangerous fire conditions may occur



Why we do what we do

CONSERVE

PROTECT

LEAD

Predictive Services Department

We develop daily and seasonal forecasts to assist the state and local governments prevent, prepare for and respond to wildfire.



How we do what we do

CONSERVE

PROTECT

LEAD

Predictive Services Department

- Maintain online resources in partnership with the Texas A&M University AgriLife Spatial Sciences Laboratory.
- Use technology to make information, tools and resources readily-available, easily-accessible and science-based.
- Use remote-automated weather stations across the state to gather information.

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Juan Acuna Fire Weather Analyst

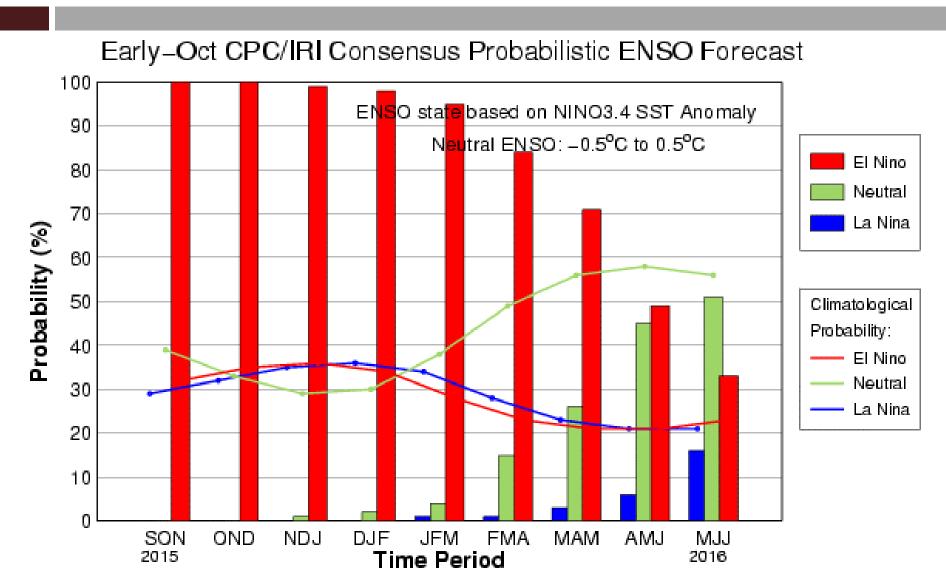


2016 Winter/Spring Weather Outlook

- ENSO Alert System Status: El Niño Advisory
 - El Niño conditions are present.*
- Positive equatorial sea surface temperature (SST)
 anomalies continue across most of the Pacific Ocean.
- There is an approximately 95% chance that El Niño will continue through Northern Hemisphere winter 2015-16, gradually weakening through spring 2016.*

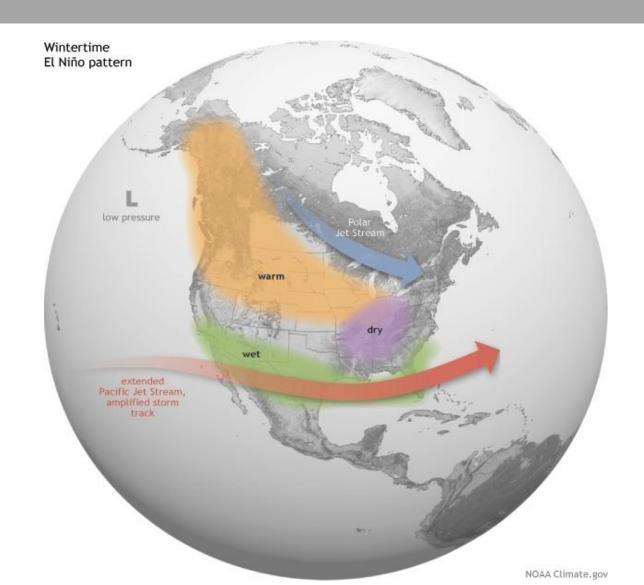


El Nino Probability





Typical El Nino Winter Effects



Temperature



2010 El Nino

Average Monthly Temperature and Rainfall

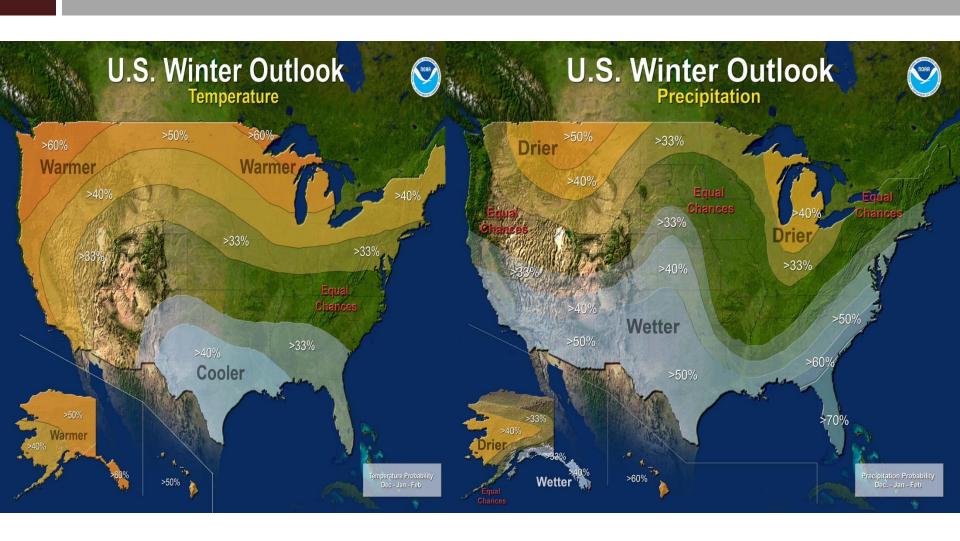
Year = 2010 State = TX



SCIPP (www.southernclimate.org)



Winter Forecast



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FEATURED SPEAKER



Tom Spencer
Predictive Services
Department Head



Winter/Spring 2016

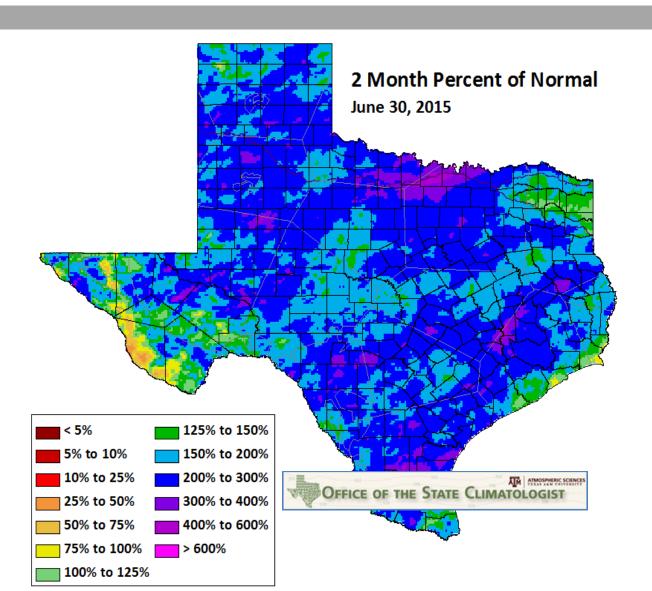
"Setting the Stage"

- El Nino influenced weather forecast
 - Above normal precip
 - Below normal temps
- Above normal grass fuel loading in the plains regions
- Grass fuels are generally the fuel type of concern during winter/spring fire seasons
- Fires are usually wind driven



Spring & Early Summer Rains

Grows Bumper Crop of Grass





Hardeman County





Taylor County





Post Oak and Grass Palo Pinto County





Sutton County Hill Top Grasses



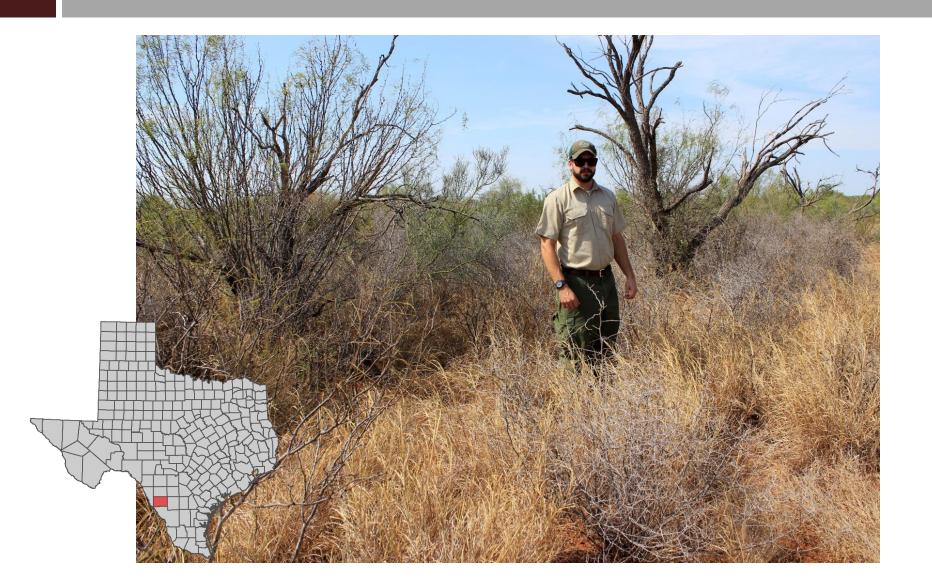


Edwards County Grasses





Dimmit County Grass and Shrub





Grass Fires (Heavy Loading)

Increased intensities

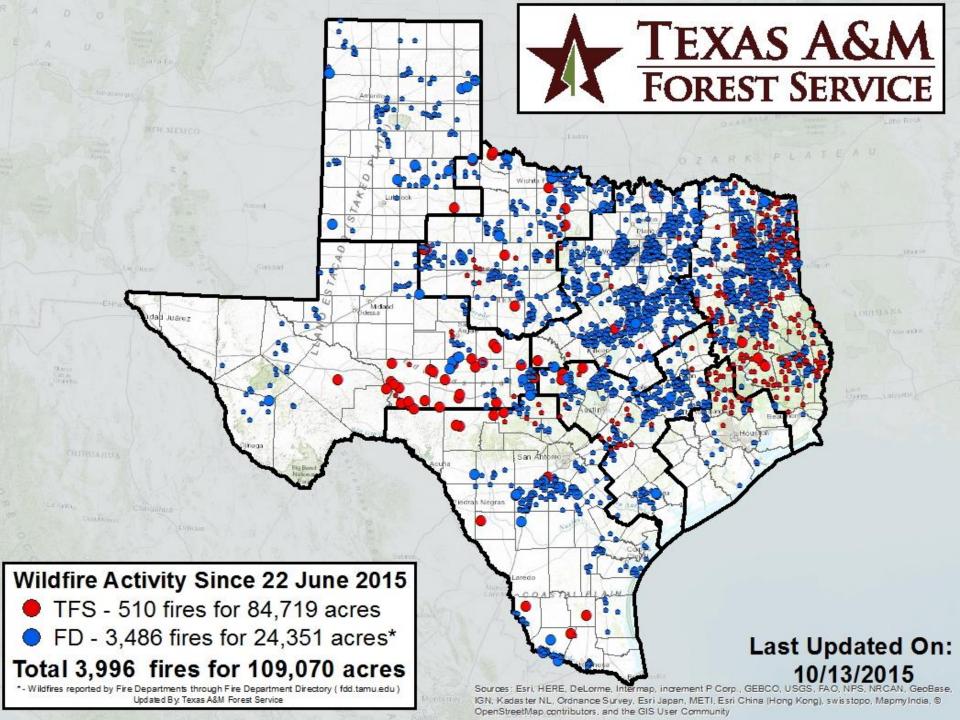




Increased difficulty of control







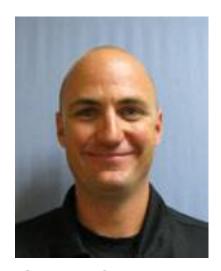


Outlook Summary Winter/Spring 2016

- With El Nino moisture:
 - Expect fuel dryness to stay below critical levels
 - ☐ Green-up to occur on time
- Fire occurrence with El Nino is usually below normal; but this year could be different
 - Heavy grass fuel loading could increase fire intensities
 - Increased fire size
 - Increased difficulty of control
 - Fires could burn in dry grass on top of wet ground
 - Awareness of grass loading is key safety concern for this winter/spring fire season

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Stuart Coombs
Wildland Urban Interface
Specialist



Being "FIREWISE"

Firewise Landscaping in Texas



Fire resistant does not mean fire proof. Homeowners should maintain a healthy landscape with proper cleaning, pruning and watering. Put the right plant in the right place.





THE RIGHT PLANT FOR THE RIGHT PLACE

The purpose of this guide is to provide basic information about Firewise landscaping. It will help Texas landowners choose the "right plant for the right place" by explaining fire-resistant plant characteristics. The first 30 feet from your home in all directions is called your defensible space. Maintaining defensible space around your home's chance of surviving a wildfire.

The following landscape elements apply across Texas and at all scales. Larger properties should incorporate the entire ignition zone, which is 200 feet from their home. Owners of smaller properties also need to evaluate what is within their defensible space and ignition zone and make needed adjustments. Property owners also may want to consider working with adjacent landsowners.

Portions of the guide are adapted from the "Fire in the Wildland-Urban interface" series produced as a joint product of the University of Florida, Institute of Food and Agricultural Sciences (IFAS) and the USDA Forest Service, Southern Research Station, Southern Center for Wildland-Urban Interface Research and Information.



Bluebonnets

Fire Resistant Materials

FOR HOME REPAIR AND CONSTRUCTION



have to live in a concrete block home with stainless steel doors and a metal deck all the way around it.
You just have to to remember – it's the little things

Jack Cohen, Research Physical Scientist, U.S. Forest Service

that count.



A home located within the Wildland Urban Interface (WUI) may be at risk in the event of a wildfire. Lands and communities adjacent to and surrounded by wildlands are part of the WUI. However, there are precautions that a homeowner can take to reduce a home's risk. It begins by learning what parts of your home might burn if exposed to direct flame contact, radiant heat or embers.

Several sections of a home are vulnerable to a wildfire because of their size or placement. For example, the roof is a large surface, capable of catching burning embers. The embers may get lodged between the shingles or ignite leaf or pine litter on a roof. Other sections that are vulnerable to wildfires are windows, decks, fencing, vents and eaves.

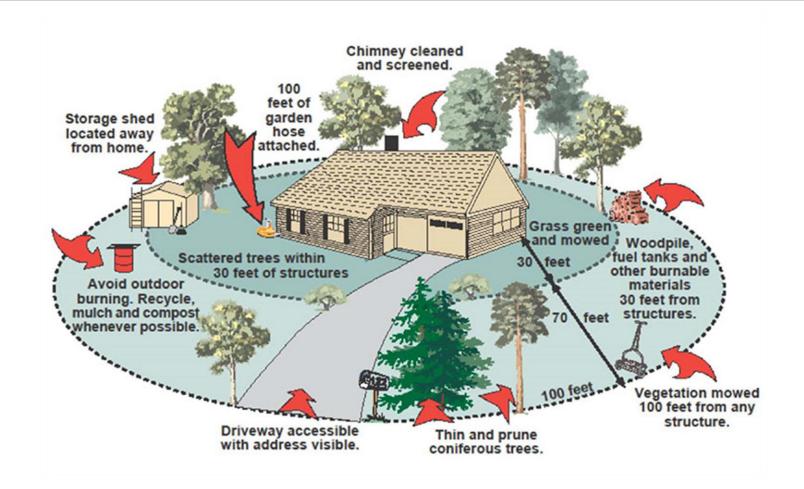
"Hardening a home" is a term used to describe the retrofitting process that reduces a home's risk to wildfire. This involves using non-combustible building materials and keeping the area around your home free of debris. The following pages will describe each section and offer alternative building materials that will reduce a home's risk to wildfire.



Firewise construction and landscaping helped protect this home from wildfire.



Home Ignition Zone/ Defensible Space





Being "Embers Aware"

Be Embers Aware

IT'S THE LITTLE THINGS THAT COUNT



Overhanging branches can drop embers onto a roof.

You don't have to live in a concrete block home with stainless steel doors and a metal deck all the way around it.
You just have to to remember – it's the little things

Jack Cohen, Research Physical Scientist, U.S. Forest Service

that count.

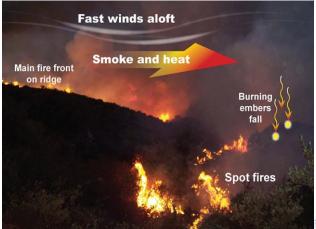


What is the greatest threat to homes?

Embers, also known as firebrands, pose the greatest threat to a home. These fiery little pieces of wood shoot off from the main fire and get carried to other areas by fast-moving air currents.

A high-intensity fire can produce a virtual blizzard of embers. Some can travel more than a mile before landing. They can get into the smallest places and easily start a fire that can burn down an entire home.









Please Visit

To learn more, request one of these brochures.

 Plan and Prepare: Is Your Home Ready?

 Fire Resistant Materials for Home Repair and Construction

 Vegetation Management in the Wildland Urban Interface

Be Embers Aware



http://tfsweb.tamu.edu/ProtectYourHome/



Ready, Set, Go Basics





- Ready: Mitigate long before a fire occurs
- Set: Situational awareness when fire occurs
- □ Go!: Evacuate early

- READY-Assemble emergency supplies, plan escape routes and make sure the plan is known.
- SET- Stay aware of the latest news and information on the fire from local media, fire departments and public safety.
- GO- Follow your personal wildland fire action plan.



Fireworks Safety

- Follow all manufacture's warnings
- Use outside
- Obey burn bans and local ordinances
- Ignite in an area free of vegetation (mineral soil, cement)
- Keep a hose or fire extinguisher nearby
- Avoid sending fireworks into others' homes and property
- Adults only



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Thank you for attending

Resources:

- http://ticc.tamu.edu
- http://tfsweb.tamu.edu/currentsituation
- http://dispatchtracker.tamu.edu
- http://tfsweb.tamu.edu/firedanger
- http://tfsweb.tamu.edu/mediaresources

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- For questions email: newsmedia@tfs.tamu.edu