

WILDLAND FIRE POTENTIAL WINTER/SPRING 2018

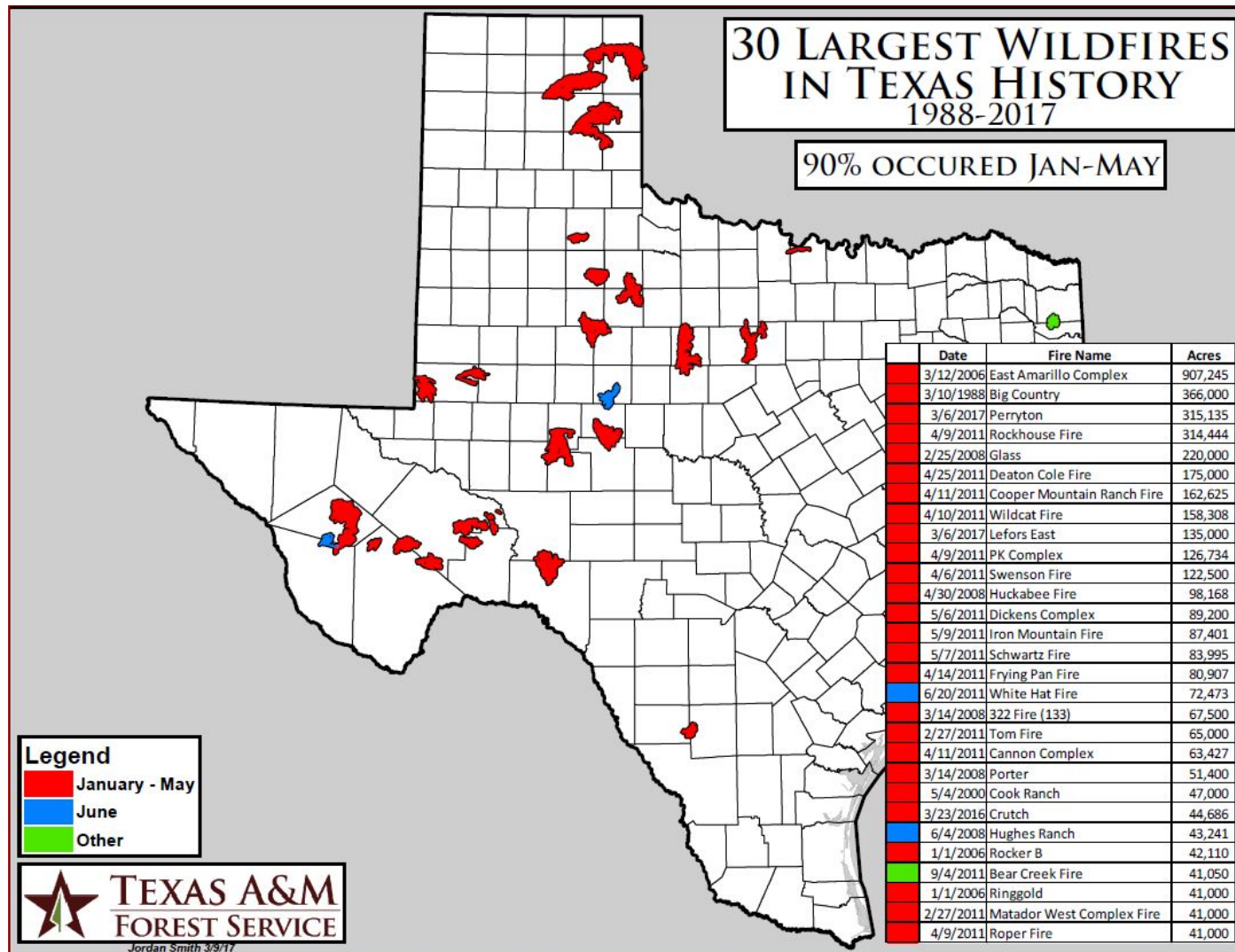
2018 TMD Wildfire Roundtable

Austin Texas
December 6th 2017

Dormant Season Fire Potential Considerations

- **Drought**
 - Persistent
 - Emerging
- **Fine Fuel Condition**
 - Below-Normal-Above Normal Loading
- **Seasonal Temperature and Precipitation**

Significant fires are more likely to occur in the grass dominant fuelscape of the western Texas Plains during the dormant season

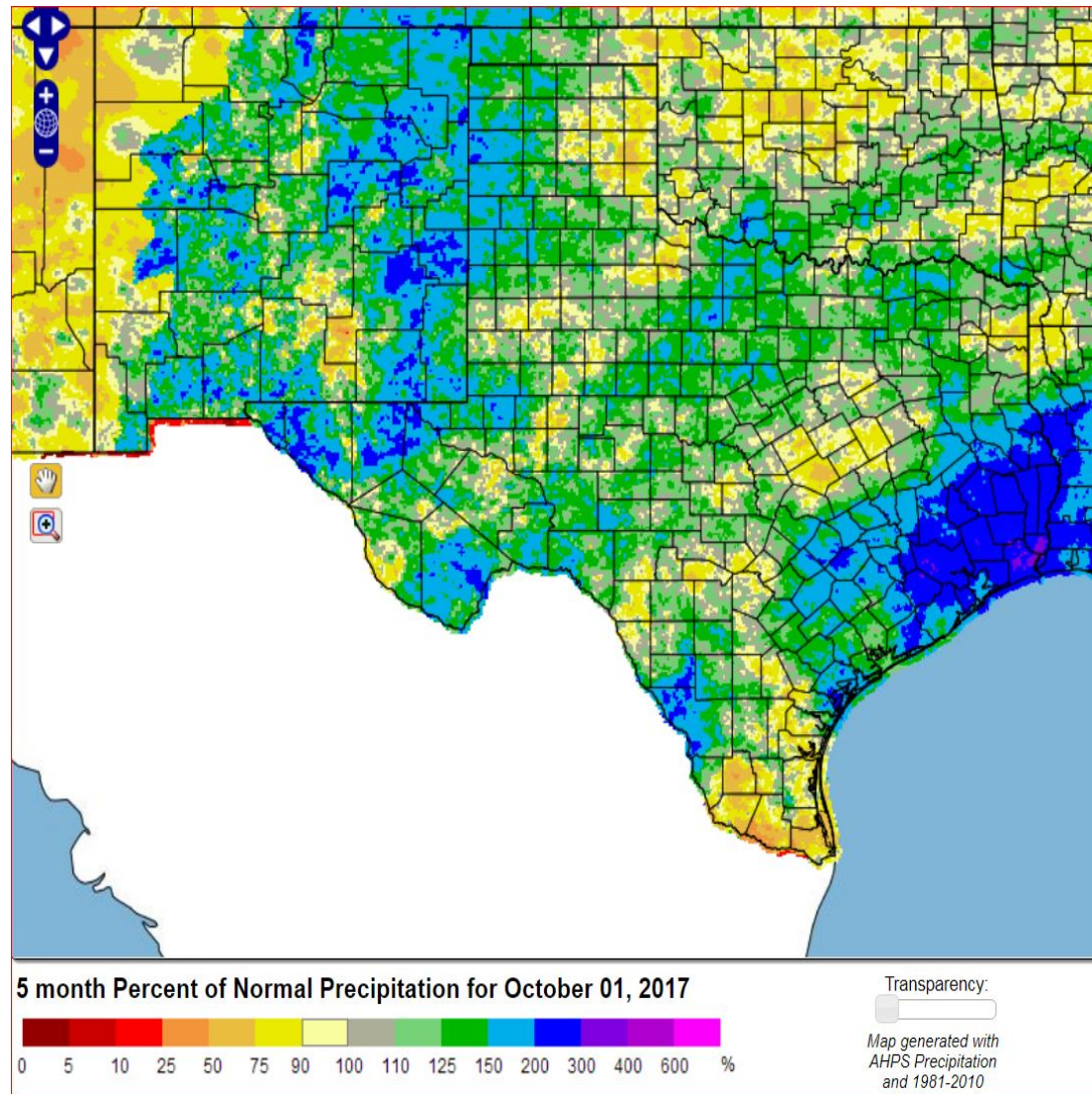


Growing Season Percent of Normal Rainfall

Above normal rainfall during the May through September growing season has produced a widespread crop of abundant grasses.

An above normal crop of grass or fine fuel loading on the grass dominant fuelscape of the Texas Plains increases the underlying risk for wildfire occurrence through the winter and spring season ahead.

The type of wildfire that occurs (initial attack or significant fire) depends on the amount of drying prior to the ignition and the fire weather present at the time of ignition.



Above normal grass loading can lower the fire weather and fuel dryness thresholds normally required to produce wildland fire activity.

Above normal grass loading northwest of
Amarillo



Grasses just south of Andrews



Above normal fine fuel loading enhances fire spread and increases a fire's resistance to control

**Grazing contrast in
Crockett County south of Ozona**



**Heavy load grass and brush fuels
south of Big Spring**

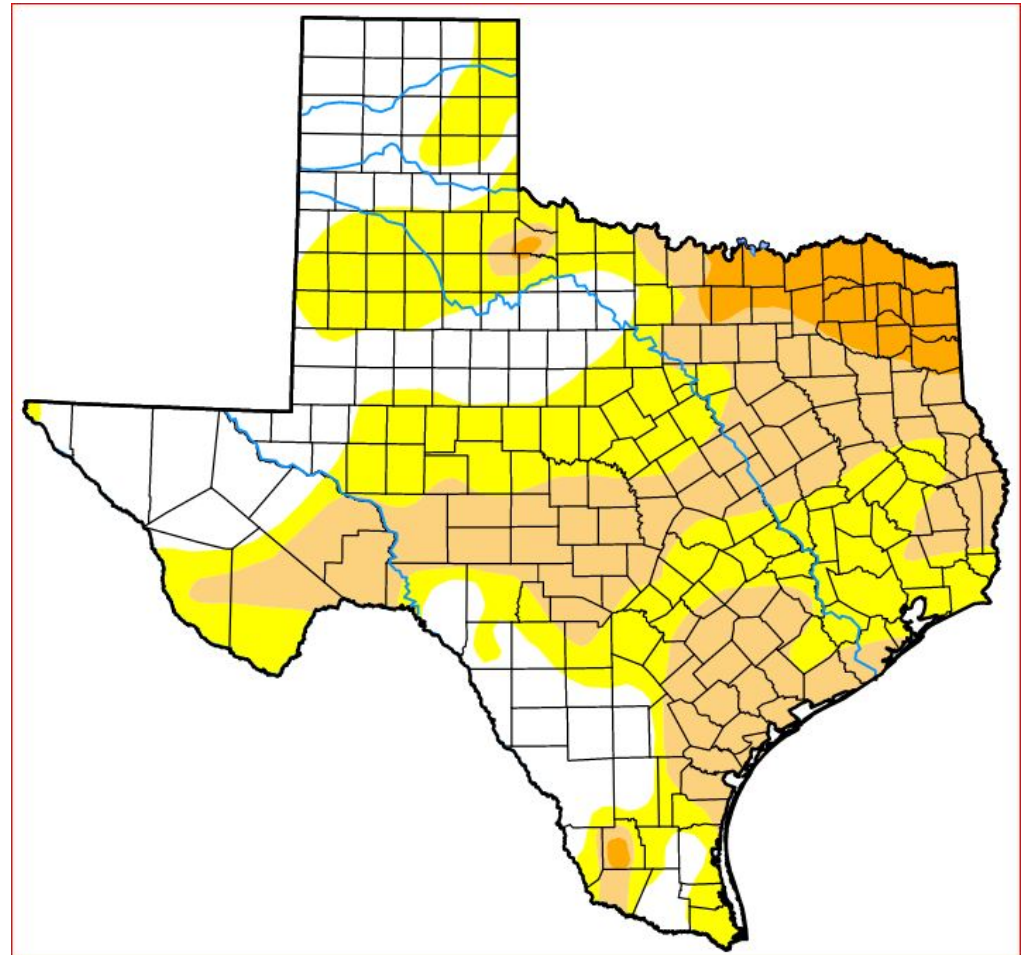


Current Drought Conditions

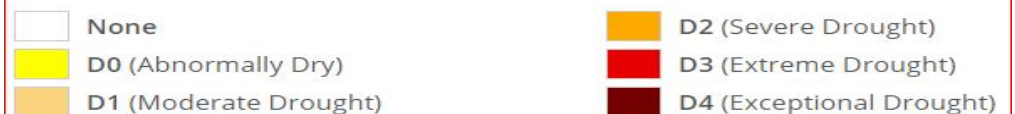
Emerging drought will be a factor for increased fire potential through the dormant season.

Drought increases the potential for above normal fire activity in central and Eastern Texas during the dormant season.

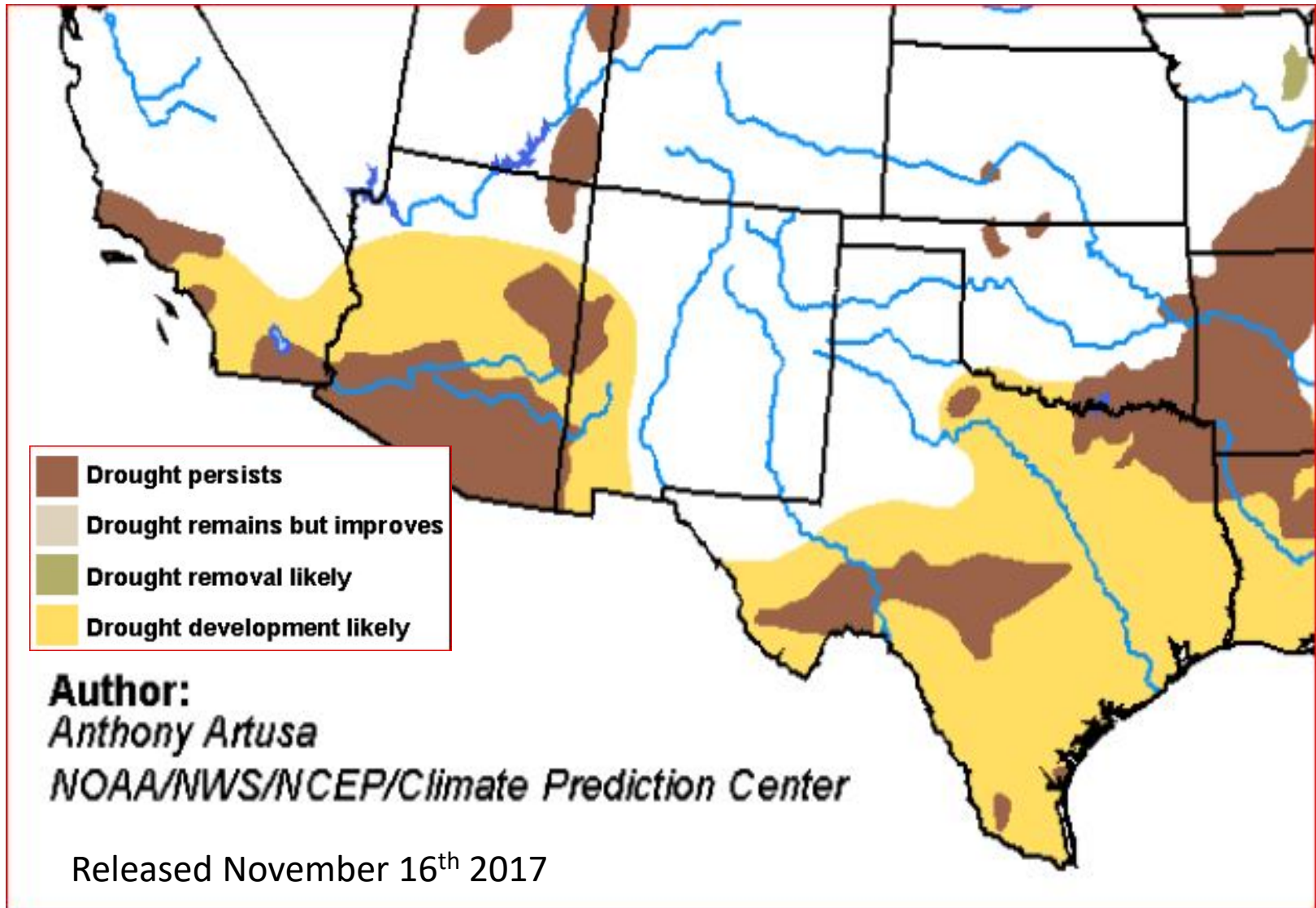
Week	Date	None
Current	2017-11-28	28.73
Last Week	2017-11-21	40.02
3 Months Ago	2017-08-29	96.14
Start of Calendar Year	2016-12-27	75.85
Start of Water Year	2017-09-26	70.54
One Year Ago	2016-11-29	66.37



Intensity and Impacts



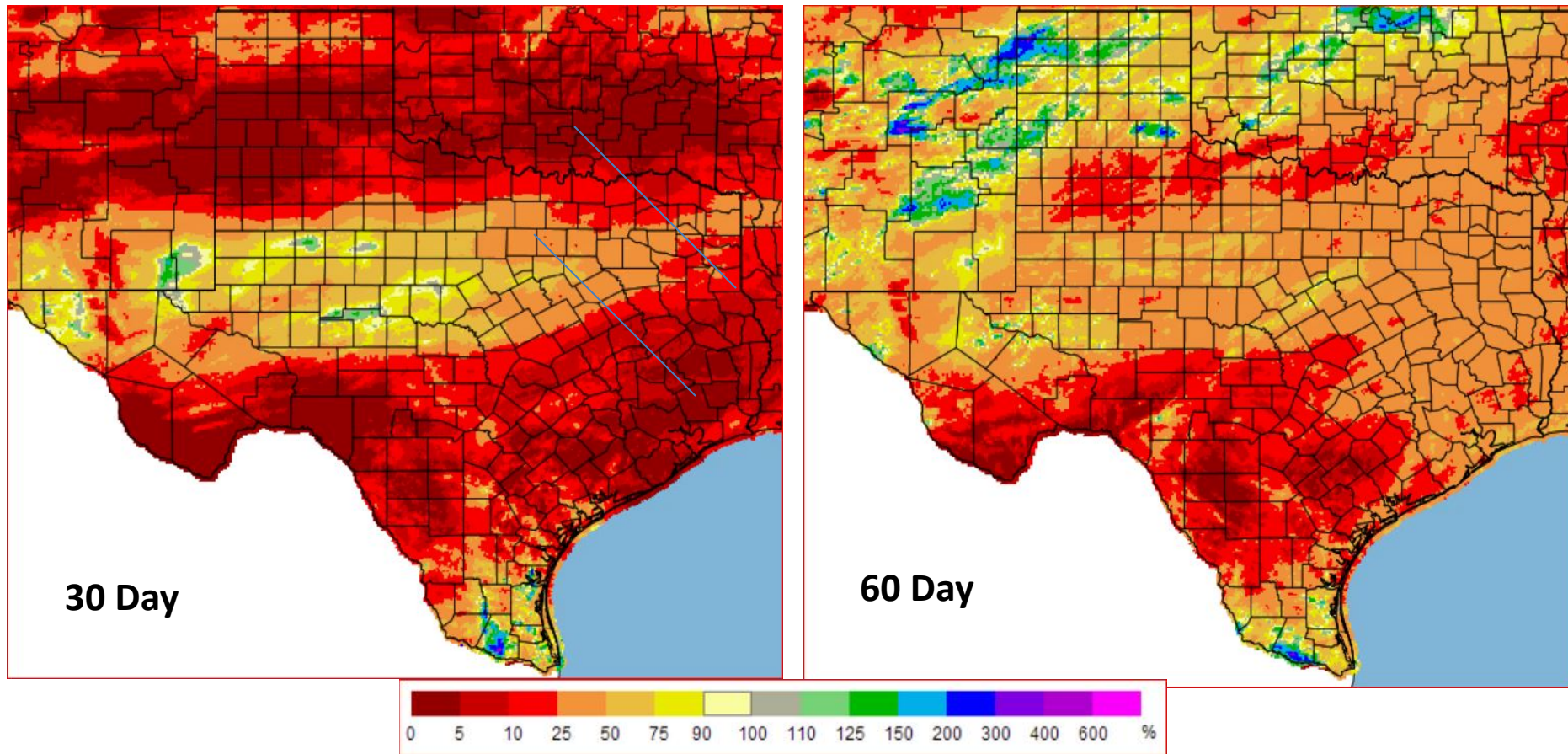
Seasonal drought outlook through February 2018



Percent of Normal Rainfall

Rainfall deficits continue to climb across a large portion of the state. Wildland fuels in areas depicting rainfall deficits less than 25% of normal over the last 60 days are more likely to support significant fire activity when critical fire weather is present.

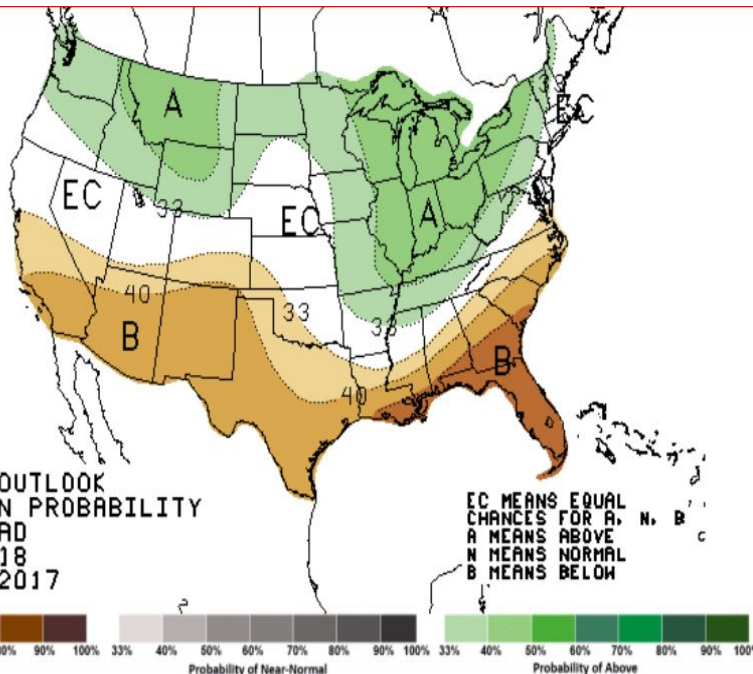
Current precipitation trends could be signaling an earlier onset of winter fire activity.



Precipitation and Temperature Outlook for January, February and March



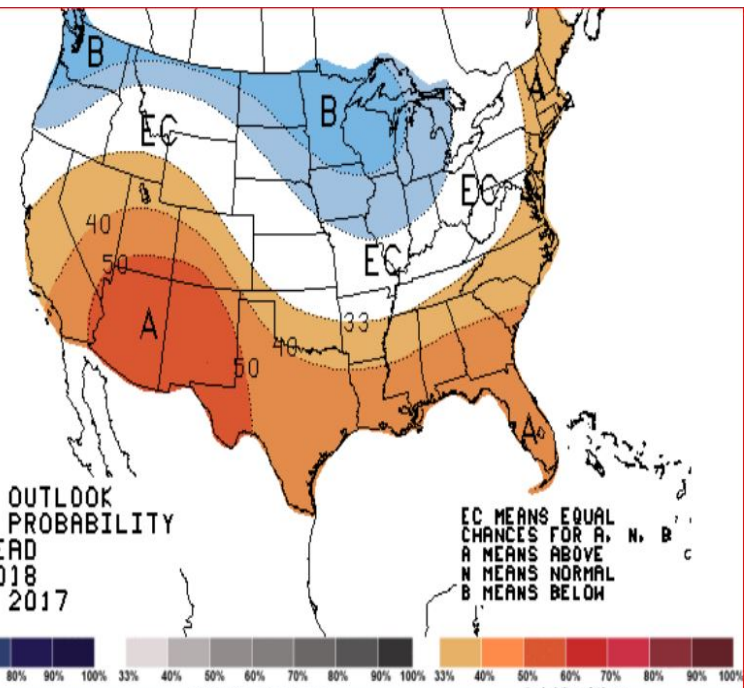
THREE-MONTH OUTLOOK
PRECIPITATION PROBABILITY
1.5 MONTH LEAD
VALID JFM 2018
MADE 16 NOV 2017



EC MEANS EQUAL
CHANCES FOR A, N, B
A MEANS ABOVE
N MEANS NORMAL
B MEANS BELOW

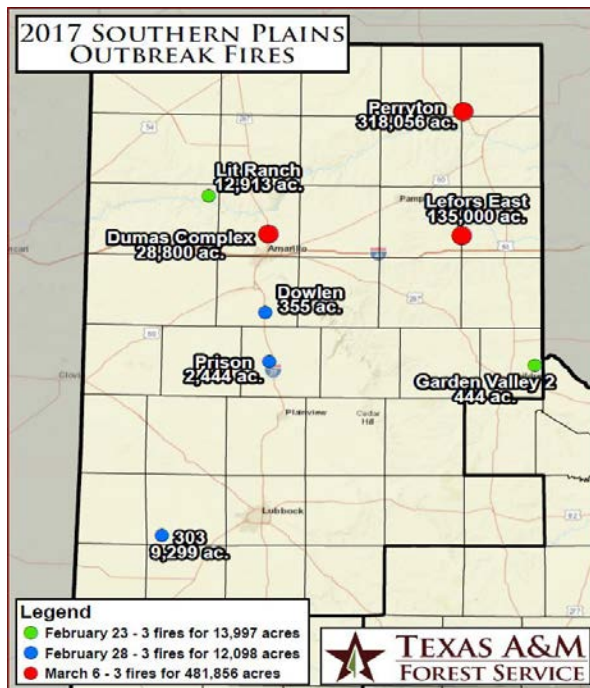
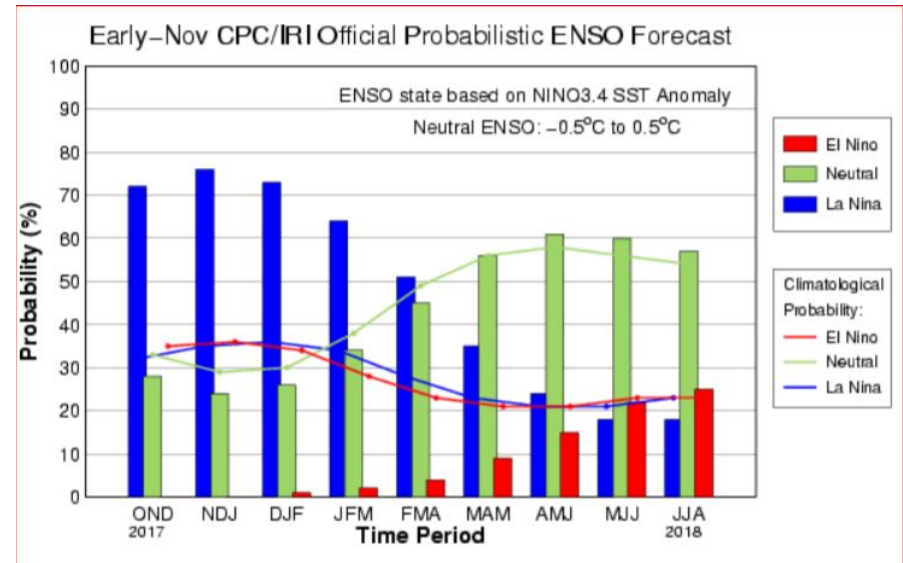


THREE-MONTH OUTLOOK
TEMPERATURE PROBABILITY
1.5 MONTH LEAD
VALID JFM 2018
MADE 16 NOV 2017



EC MEANS EQUAL
CHANCES FOR A, N, B
A MEANS ABOVE
N MEANS NORMAL
B MEANS BELOW

The March 6th Dumas Complex was one of six significant wildfires occurring last winter during high impact fire weather events in an ENSO neutral winter. Current winter ENSO forecasts advertise a 50-70% chance for La Nina conditions. La Nina conditions are more favorable for high impact fire weather events than ENSO neutral or El Nino conditions.



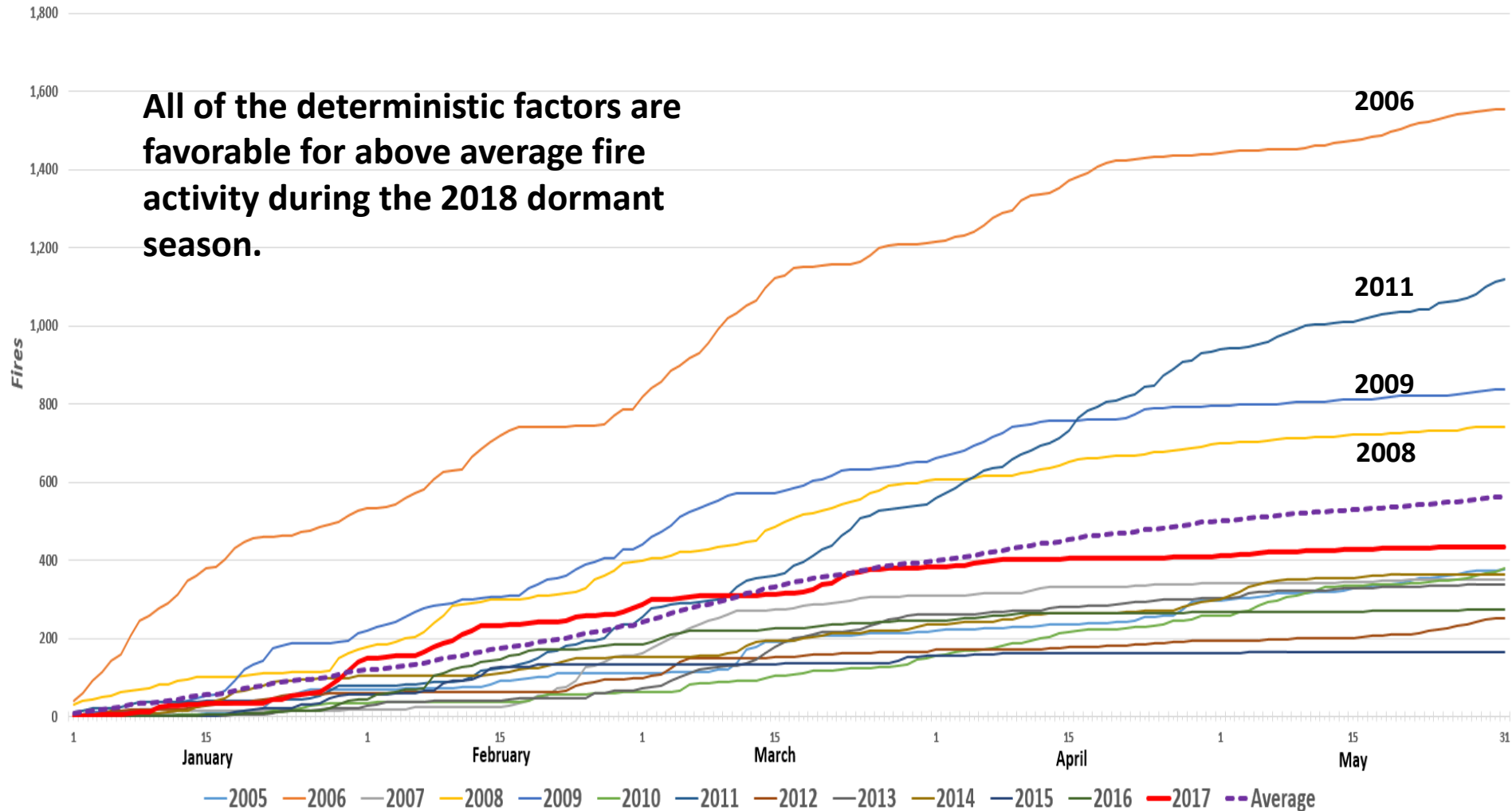
Historical Dormant Season Fire Activity

January-May Daily TFS Wildfire Response 2005-2017

2017: 436 Fires

Average: 562 Fires

All of the deterministic factors are favorable for above average fire activity during the 2018 dormant season.



2018 Dormant Season Summary

- A widespread above normal crop of grass, emerging drought and the potential for an active fire weather pattern signals above normal fire activity through the 2018 dormant season.
- There is a strong possibility for multiple high impact fire weather events that are capable of producing wildfire outbreaks.
- Central and Eastern Texas will be in play this winter with continued drought development.