

## SOUTHERN FIRE BEHAVIOR OUTLOOK

<b>FORECAST VALID FOR: August 8, 2011</b>	<b>DATE/TIME ISSUED: August 8/0800 Hrs</b>
<b>NEXT UPDATE: August 9, 2011</b>	<b>SIGNED: Warren Appelhans</b>

\*This is a general fire behavior outlook for the Southern Geographic Area. It is intended to provide wildland fire managers with an overall view of fire behavior potential and to assist wildland firefighters with making sound decisions and maintaining situational awareness based on current and expected fire behavior. This outlook is not intended to replace onsite observations or spot weather forecasts issued by the National Weather Service.

Some products provided in the outlook often are not updated prior to posting. Refer to updated information on the Southern Area Coordination Center Website as it becomes available:  
<http://gacc.nifc.gov/sacc/index.htm>

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### **Fire Weather Summary:**

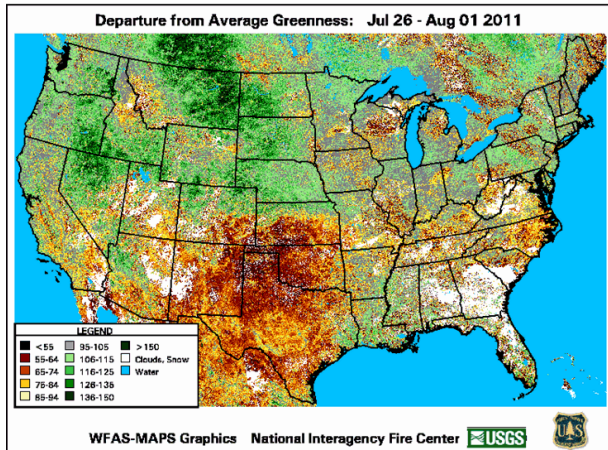
**\*\*\*Red Flag Warnings/Fire Weather Watches and Advisories\*\*\***

A Red Flag Warnings has been issued in Oklahoma for the following counties for high temperatures, low relative humidity, and wind 20 miles per hour with gusts to 30. Oklahoma counties Pawnee, Washington, Osage, Nowata, Creek, Okfuskee, Okmulgee, Wagoner, Tulsa, Rodgers, and Mayes.

- For complete fire weather information and specific detailed forecasts see:  
<http://www.weather.gov>
- Refer to the MesoWest Regional Surface Maps to access weather observations.  
<http://mesowest.utah.edu/index.html>
- For updated fire danger and fuel moisture values link to:  
<http://wfas.net/>

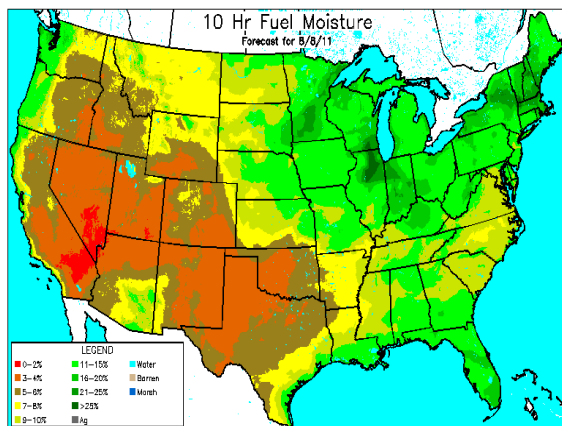
**Fuels Conditions:**

State of the Fuels will be updated weekly or as the conditions warrant.

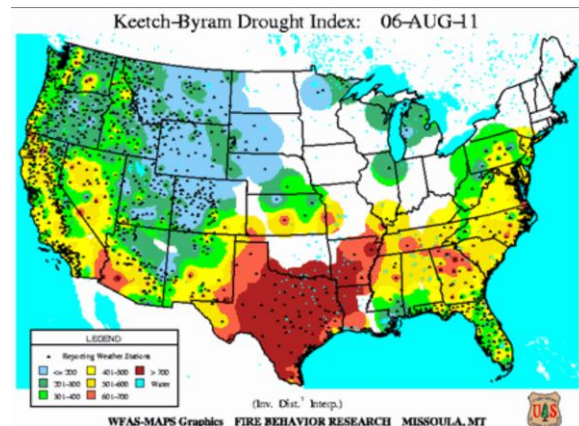


The live and dead fuels in Oklahoma and Texas remain extremely dry (lower single digits). Due to prolonged drought, in central Texas, Juniper stands are stressed to the point of mortality and oak stands have dropped their leaves. Fires are spreading and growing in the absence of wind. Spotting from convection is also common. The ERC's and KDBI's throughout most of Texas and Oklahoma are at all-time maximums.

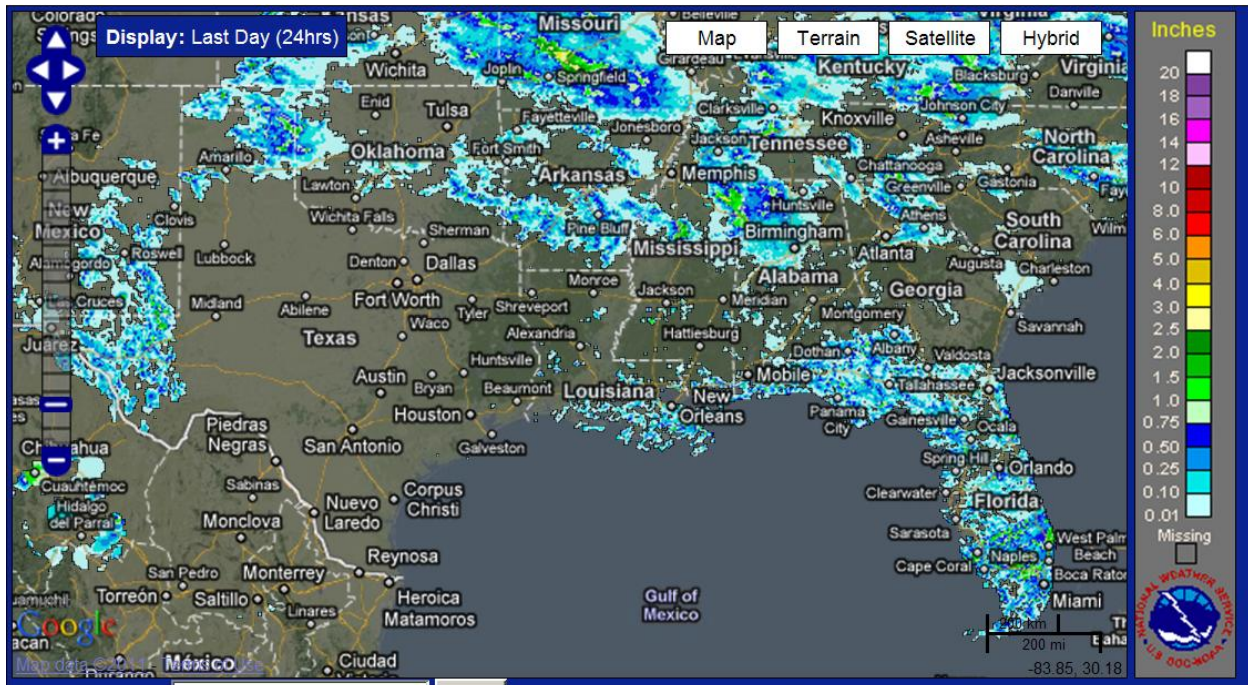
WFAS—10 Hour Forecast Fuel Moisture

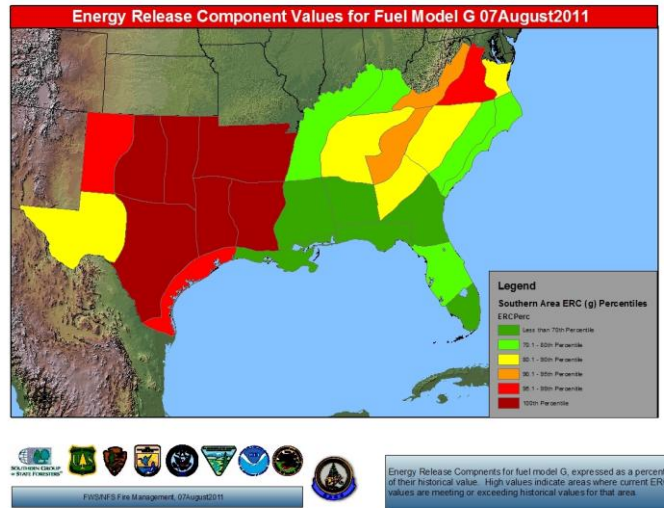


WFAS — KDBI



Southern Area 2 – 24 hour precip, ending August 8, 2011 @ 06:47





### Fire Behavior Outlook

Ensure **LCES** and the **Standard Fire Orders** are implemented prior to any action on a fire.

A **Critical Weather \*\*\*A Red Flag Warning\*\*\*** has been issued for today **Monday** for high temps, low RH, and winds to 20 miles per hour with gusts to 30 during the heat of the day. The Critical area will cover Eastern Oklahoma and border areas with Arkansas and Texas.

#### **Texas and Oklahoma Plains**

**Very High** probability of large fire growth. Fires can be fuel and or terrain driven in the absence of wind. Fine fuel moistures continue to be extremely dry with little rebound overnight. Spotting from convection and rolling embers is common. Gusts up to 30 mph can be expected through Monday, August 8 tapering off during evening hours.

#### **Texas and Oklahoma**

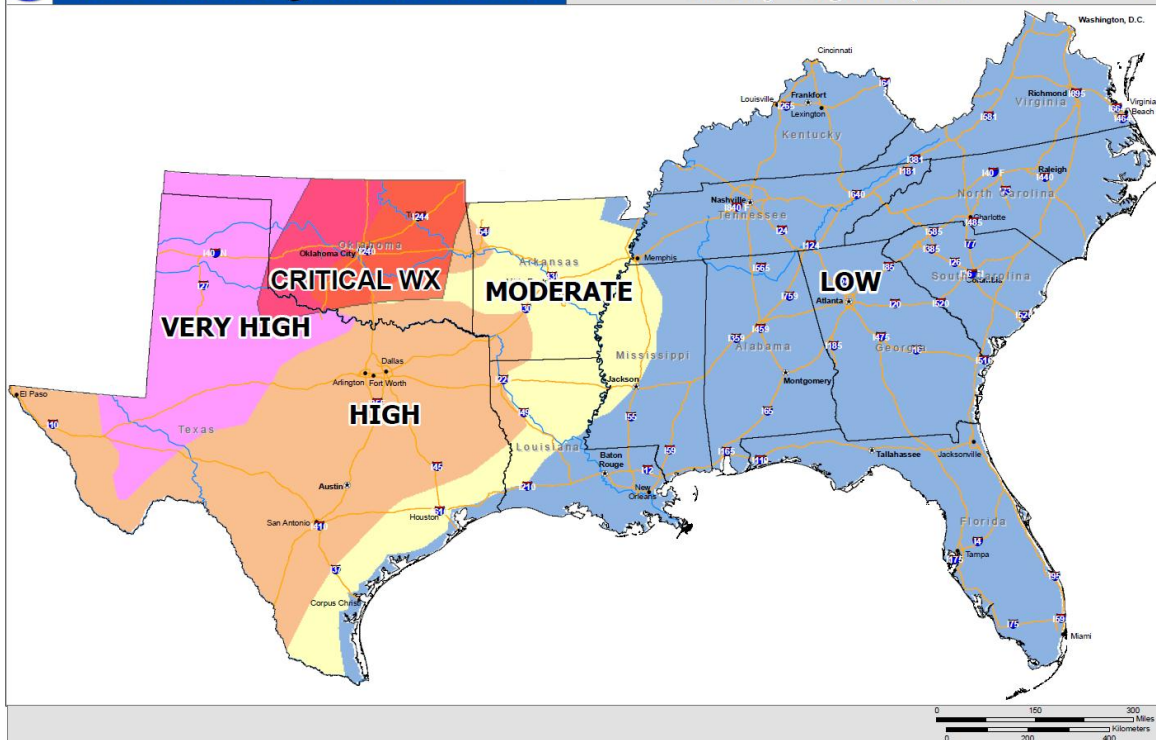
**High** probability of large fire growth. Like the very high probability areas, the majority of this area has not received precipitation for several weeks so live fuels are cured or extremely dry. Transition to shrub and timber types is likely. Resistance to control is very high.

#### **Arkansas, Northern Louisiana, Eastern Mississippi and Inland Coastal Texas**

**Moderate** fire behavior can be expected today with any new start. These areas are forecast to have low fine fuel moistures on Monday and KDBI values continue to be high. These areas did not received wetting rain from two (AR) to seven (TX coast) days.

#### **Geographic Area East of the Mississippi**

**Low** fire behavior expected. These areas have received enough precipitation over the last week to moderate ERC and KDBI values. Rain is expected over the area through mid week. Ignitions may become established but should not spread rapidly.



This product is intended to depict **GENERAL** fire behavior potential in the Southern Area. Information summarized from various sources applicable to the geographic area scale and is not intended to provide site specific fire behavior conditions. Individual fire behavior forecasts using fuels, weather and topography must be used for specific incidents.

**FIRE BEHAVIOR INTERPRETATION:**

Visual assessment of active flame length and evaluation of potential effectiveness of various resources and capabilities. The implications of observed or expected fire behavior are critical components of suppression strategies and tactics, in particular terms of determining resistance to control, effectiveness and safety of various resources.

FIRE BEHAVIOR ADJECTIVE RATING	FLAME LENGTH (FEET)	INTERPRETATION FOR FIRE MANAGEMENT
LOW	0-4	Generally attack at the head or flanks are successful, handline should hold fire with very little resistant to control.
MODERATE	4-8	Fire is too intense for direct attack at the head. Handline cannot be relied upon, additional support from engine, dozer, tractor plow or air support is needed.
HIGH	8-11	Fire can present control problems; torching, crowning and spotting can be expected. Control efforts at head of fire are often ineffective.
VERY HIGH	11+	Crown runs, intense surface burning and spotting are common; control efforts at head are ineffective.
EXTREME		Although uncommon, can best be described as erratic fire behavior that goes beyond human methods of control or prediction. Rare events such as well developed and sustained fire whirls, independent crowning and plume dominated fire growth.

The Hauling Chart is an excellent tool for measuring safety and potential effectiveness of fireline resources. Additionally, the Hauling Chart is also a useful tool to help firefighters get a perspective on the relative difficulty of constructing and holding a control line as affected by resistance to line construction by fire behavior.

**Outlook:**

A **Critical Weather Watch** has been issued for Monday for winds increasing to 20 miles per hour and gusts up to 30 miles per hour during the heat of the day. The Critical area will cover Eastern Oklahoma and border areas with Arkansas and Texas. East of the Mississippi scattered showers will persist through the beginning of the week.

Stay updated by viewing the Southern area 7 day Significant Fire Potential product:

[http://gacc.nifc.gov/sacc/predictive/outlooks/Fire\\_Potential.htm](http://gacc.nifc.gov/sacc/predictive/outlooks/Fire_Potential.htm)

Longer range outlooks reference the Climate Prediction Center link:

<http://www.cpc.ncep.noaa.gov/index.php>

