



# Williamson County Fire Marshal's Office

3189 SE Inner Loop, Georgetown, Texas 78626  
Phone: (512) 943-3679



## Burn Ban Evaluation Matrix August 21, 2024

<u><b>Evaluation Factor</b></u>	<u><b>Source(s)</b></u>	<u><b>Comment</b></u>	<u><b>Supports Burn Ban</b></u>
<b>Relative Humidity Values - NWS</b>	Short Term Forecast	Midday values have been dropping into the upper 20's stripping moisture with sunny days	YES
<b>KBDI Texas A&amp;M</b>	Current Condition	Williamson Counties average KBDI value is 583 with portions of the county experiencing a high value approaching 689	YES
<b>KBDI (Change) Texas A&amp;M</b>	Current Condition	+6 to +9 daily changes observed for past 7 days	YES
<b>Forecast 10 Hour Fuel Moisture (Percentile) Nelson Model</b>	Current Condition	4% – 10% Fine dry grasses will readily ignite. Conditions would support extensive fire spread	YES
<b>Average Temperature (Fahrenheit) NWS</b>	Current Condition	The week of August 20, 2024 starts with daytime temperatures in the upper-100's	YES
<b>Texas Drought Monitor</b>	TAMU	"Abnormally Dry" status. Seasonal decline continues	YES

**Recommendation: BURN BAN**

## August 19, 2024 – August 23, 2024, Discussion

The week of August 20, 2024, starts with daytime temperatures in the upper 100's and mid to upper 70's at night. 1 to 10-hour fuel moistures continue to fall, and 100-hour, and 1000-hour fuels continue to lose moisture. This week will see afternoon relative humidity values continue to drop into the 30's to upper 20's creating afternoon potential for grass fires to ignite and spread.

### **Soil Moisture**

**100% of Williamson County is classified by the U.S. Drought Monitor as D0 Abnormally Dry.** There is minimum forecasted rain that would deliver adequate amounts to reverse the drying trend. Currently, Williamson County has an average KBDI value of 583 with isolated areas experiencing a max value of 689.

**Relative Humidity levels have been dropping into the 30's to upper 20's during the afternoon hours.**

### **Dead Fuel Moisture Status**

The 1-hour and 10-hour fuel moistures continue to fall, and the 100-hour and 1000-hour fuels continue to lose moisture. Recent above average temperatures, and sunny dry days support conditions for elevated fire risk and fire spread potential.

### **Summary**

Williamson County will see elevated fire weather conditions through the week of August 20, 2024. The combination of above average temperatures, heated winds and lower relative humidity values will continue to produce a risk of elevated fire danger.

**Recommendation: BURN BAN**

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