



Williamson County Fire Marshal's Office

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



Burn Ban Evaluation Matrix September 16, 2024

<u>Evaluation Factor</u>	<u>Source(s)</u>	<u>Comment</u>	<u>Supports Burn Ban</u>
Relative Humidity Values - NWS	Short Term Forecast	Midday values have been dropping into the upper 30's stripping moisture with sunny days	YES
KBDI Texas A&M	Current Condition	Williamson Counties average KBDI value is 610 with portions of the County experiencing a high value of 696	YES
KBDI (Change) Texas A&M	Current Condition	+6 to +9 daily changes observed for past 7 days	YES
Forecast 10 Hour Fuel Moisture (Percentile) Nelson Model	Current Condition	26% – 50% Fine dry grasses will readily ignite. Conditions would support extensive fire spread	YES
Average Temperature (Fahrenheit) NWS	Current Condition	The week of September 16, 2024, starts with daytime temperatures in the mid to upper 90's	YES
Texas Drought Monitor	TAMU	"Abnormally Dry" status. Seasonal decline continues	YES

Recommendation: BURN BAN

September 16, 2024 – September 20, 2024, Discussion

The week of September 16, 2024, starts with daytime temperatures in the mid to upper 90's and mid to upper 70's at night. 1 to 10-hour fuel moistures are beginning 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 40's to low 30's creating afternoon potential for grass fires to ignite and spread.

Soil Moisture

75.9% 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 610 with isolated areas experiencing a max value of 696.

Relative Humidity levels have been dropping into the 40's to low 30's during the afternoon hours.

Dead Fuel Moisture Status

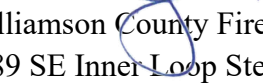
The 1-hour and 10-hour fuel moistures continue to fall, and the 100-hour and 1000-hour fuels continue to lose moisture. Recent above average temperatures, and sunny dry days support conditions for elevated fire risk and fire spread potential.

Summary

Williamson County will see elevated fire weather conditions through the week of September 16, 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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