

# Southern Plains PSA Critical Thresholds

August 1, 2007

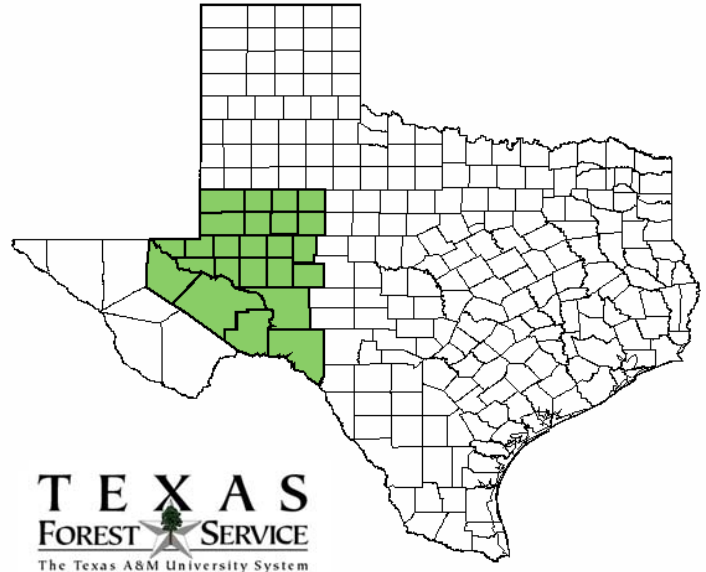
**RAWS:** Barnhart, Midland, Kickapoo Caverns  
S.P., Paint Creek

**Data Years:** 2000-2007

**Fuel Types:** Grass, Mesquite brush,  
Juniper/Oak brush

**Critical Fire Weather Thresholds:**  
Relative Humidity 15% or less  
20' Windspeed 15 mph or More

**Peak Fire Seasons:**  
Primary June through August with summer drying  
Secondary December through March with cured grasses and wind events



## Dead Fuel Moisture Thresholds

	Percentiles				
	3	4-10	11-25	26-50	51-100
<b>1000-hr</b>	7	8	9-10	11-12	13
<b>100-hr</b>	6	7	8-9	10-11	12

1000-hr 3% range low 6% at Midland; high 10% at Kickapoo Caverns S.P.  
100-hr 3% range low 4% at Midland; high 8% at Kickapoo Caverns S.P.

## NFDRS Thresholds (Fuel Model G)

	Percentiles				
	97	90-96	75-89	50-74	0-49
<b>ERC</b>	75	66-74	57-65	48-56	0-47
<b>BI</b>	101	82-100	66-81	51-65	0-50
<b>KBDI</b>	658	635-657	555-634	478-554	0-477

ERC 97% range high 81 at Midland; low 56 at Kickapoo Caverns S.P.  
BI 97% range high 106 at Midland; low 81 at Kickapoo Caverns S.P.

## Live Fuel Moisture

	Percentiles				
	3	4-10	11-25	26-50	51-100
<b>Juniper</b>	70	71-80	81-90	91-110	111-300
<b>Oak</b>	70	71-75	76-85	86-100	101-300
<b>Mesquite</b>	90	91-95	96-105	106-120	121-300