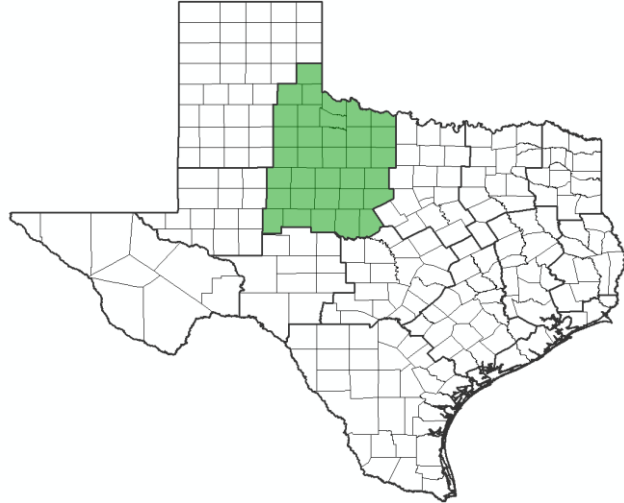


Rolling Plains PSA Critical Thresholds and Fire Data

April 2018

Fire Weather Stations:

RAWS – Caprock, Matador, Jayton, Gail, Paint Creek, Coleman, Hamby, Miller Creek, Possum Kingdom, Comanche
ASOS – Sheppard AFB



Data Years: 2001-2017

Critical Fire Weather Thresholds:

Relative Humidity 20% or less
20' Wind speed 20 mph or greater
Temperature 90° or greater



Fuels: Improved and native grasses, Sagebrush, Juniper/Mesquite brush, Juniper/Oak brush



Peak Fire Season:

January through April with cured grasses and wind events
July-September with summer drying

Normal TFS Wildfire Response and Acres Burned by Month

Based on 2005-2017 Fire Occurrence Data

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Fires	3	6	4	1	1	2	4	6	2	0	0	1	31
Acres	2,500	3,000	2,500	500	500	500	4,000	2,000	300	0	0	100	15,900

Dead Fuel Moisture Thresholds

	Percentiles				
	3	4-10	11-25	26-50	51-100
1000-hr	9	10-11	12-13	14-15	16
100-hr	7	8-9	10	11-13	14
10-hr	4	5	6	7-8	9

NFDRS Thresholds (Fuel Model G)

	Percentiles				
	97	90-96	75-89	50-74	0-49
ERC	75	62-74	52-61	42-51	0-41
BI	92	79-91	66-78	52-65	0-51
KBDI	693	588-692	498-587	405-497	0-404

Live Fuel Moisture

	Percentiles				
	3	4-10	11-25	26-50	51-100
Sand Sage	48	49-73	74-88	89-108	109+
Juniper	66	67-77	78-84	85-94	95+
Mesquite	58	59-92	93-104	105-119	120+
Live Oak	78	79-82	83-86	87-91	92+

Significant Fire Potential Matrix

The Significant Fire Potential (SFP) Matrix is a daily situational awareness and decision making tool at the local level based on a fire weather station's observed and forecast ERC and forecast BI. A significant fire is defined as a wildland fire that will require the mobilization of additional resources from outside the area of the fires origin (Extended attack, ICT3+).

Miller Creek RAWS 2017		Local Preparedness Level Energy Release Component G (ERC)			
		1 0-44	2 45-61	3 62-78	4 79+
Dispatch Level Burning Index G (BI)	1 0-60	Low	Low To Moderate	Moderate To Low	Moderate
	2 61-84	Low To Moderate	Moderate To Low	Moderate	Moderate To High
	3 89-98	Moderate To Low	Moderate	High	High
	4 99+	Moderate	Moderate To High	High	Very High

To Use: Find nearest [Fire Weather Station](#) to open Matrix. Open [SFP Indices](#) page for forecast ERC and BI of chosen fire weather station. Plot ERC and BI for intersection and SFP forecast.

*Example: 4/29/11 Miller Creek RAWS Forecast
 ERC: 68 BI: 128
 SFP Forecast: High
 Clark Ranch Fire, 7,000 Acres in Throckmorton County*