

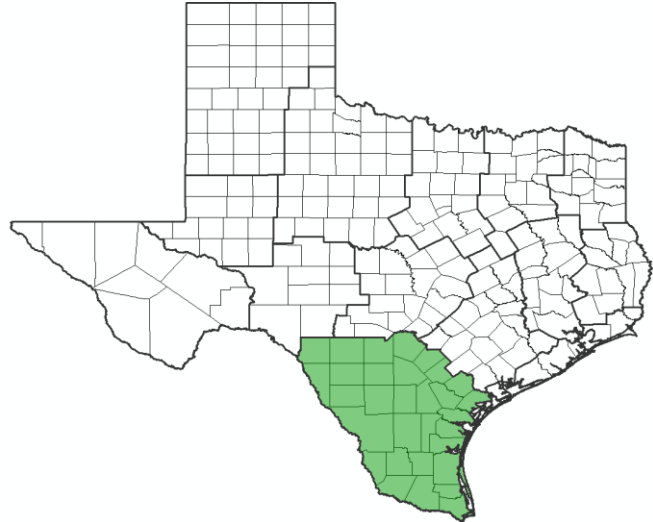
# South Texas PSA Critical Thresholds and Fire Data

April 2018

## Fire Weather Stations:

**RAWS** – Kickapoo Caverns, Victoria, George West, Pearsall, Hebbronville, Lin-San Manuel, Laguna Atascosa, Santa Anna, La Puerta

**ASOS** – Del Rio International, Hondo Municipal, Stinson Municipal, La Salle County Airport, Alice International



**Data Years:** 2001-2017

## Critical Fire Weather Thresholds:

Relative Humidity 30% or less  
20' Wind speed 15 mph or greater  
Temperature 90° or greater



**Fuels:** Improved and native grasses, Oak Timber, Mesquite grasslands, Chaparral, Juniper brush, Coastal grasses



## Peak Fire Season:

January through March with cured grasses and wind events

## 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
<i>Fires</i>	2	2	2	1	0	0	0	1	0	0	0	0	8
<i>Acres</i>	1,500	1,800	500	100	0	0	0	150	0	0	0	0	4,050

## Dead Fuel Moisture Thresholds

	Percentiles				
	3	4-10	11-25	26-50	51-100
<b>1000-hr</b>	13	14	15	16	17
<b>100-hr</b>	11	12	13	14-15	16
<b>10-hr</b>	6	7	8	9	10

### NFDRS Thresholds (Fuel Model G)

	Percentiles				
	97	90-96	75-89	50-74	0-49
ERC	57	51-56	44-50	36-43	0-35
BI	68	56-67	47-55	37-46	0-36
KBDI	705	656-704	581-655	466-580	0-465

### Live Fuel Moisture

	Percentiles				
	3	4-10	11-25	26-50	51-100
Mesquite	75	76-96	97-120	121-131	132+
Brazilian Bluewood	70	71-96	97-140	141-152	153+
Lime Pricklyash	51	52-74	75-104	105-132	133+
Whitebrush	57	58-67	68-130	131-204	205+

### 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+).

Linn San RAWS 2017	Local Preparedness Level Energy Release Component G (ERC)				
		1 0-38	2 39-47	3 48-51	4 52+
Dispatch Level Burning Index G (BI)	1 0-41	Low	Low To Moderate	Moderate To Low	Moderate
	2 42-58	Low To Moderate	Moderate To Low	Moderate	Moderate To High
	3 59-67	Moderate To Low	Moderate	High	High
	4 68+	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: 1/22/17 Linn San RAWS Forecast*

*ERC: 39 BI: 114*

*SFP Forecast: Moderate to High*

*Hopper Fire, 8,000 Acres in Brooks County*