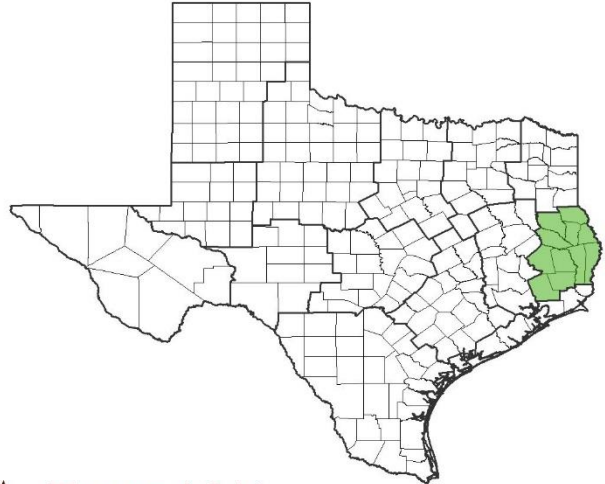


Southeast Texas PSA Critical Thresholds and Fire Data

April 2018

Fire Weather Stations:

RAWS – Lumberjack, Lufkin, Zavalla, Woodville, Southern Rough, Coldsprings, Dayton, Kirbyville, Sabine South, Sabine North



Data Years: 2001-2017

Critical Fire Weather Thresholds:

Relative Humidity 30% or less
20' Windspeed 15mph or more
Temperature 90° or greater



Fuels: Pine Plantation, Yaupon Brush, Mixed Timber, Slash



Peak Fire Seasons:

June through October with summer drying
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>	21	22	39	20	15	20	15	33	24	25	16	8	258
<i>Acres</i>	260	375	550	200	100	120	75	300	200	150	100	60	2,490

Dead Fuel Moisture Thresholds

	Percentiles				
	3	4-10	11-25	26-50	51-100
1000-hr	16	17	18	19-20	21
100-hr	13	14-15	16	17	18
10-hr	7	8	9	10	11

NFDRS Thresholds (Fuel Model G)

	Percentiles				
	97	90-96	75-89	50-74	0-49
ERC	42	36-41	31-35	25-30	0-24
BI	44	38-43	30-37	23-29	0-22
KBDI	697	661-698	580-660	469-579	0-468

Live Fuel Moisture

	Percentiles				
	3	4-10	11-25	26-50	51-100
Loblolly Pine	110	111-121	122-134	135-144	145+
Red Oak	87	88-95	96-100	101-107	108+
Yaupon	96	87-102	103-108	109-118	119+

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+).

Woodville RAWS 2017		Local Preparedness Level Energy Release Component G (ERC)			
		1 0-28	2 29-37	3 38-43	4 44+
Dispatch Level Burning Index G (BI)	1 0-25	Low	Low To Moderate	Moderate To Low	Moderate
	2 26-38	Low To Moderate	Moderate To Low	Moderate	Moderate To High
	3 39-48	Moderate To Low	Moderate	High	High
	4 49+	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: 10/18/15 Woodville RAWS Forecast

ERC: 48 BI: 38

SFP Forecast: Moderate to High

Pate Hill Fire, 445 Acres in Polk County