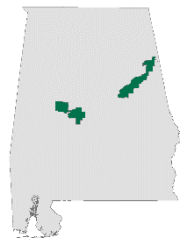


Fire Danger Rating Area - Shoal Creek - ERC



Fire Danger Area: Shoal Creek RD

Forecast Zone: ALZ027

Weather Stations: 012902 Shoal Creek RAWS

*Meets NWCG Wx Station Standards

Local Thresholds – WATCHOUT:

Combinations of any of these factors can increase fire behavior:
 20' windspeed over 15 mph; Temperatures over 75 degrees; Relative humidity < 25%; 1000-hr fuel moistures < 18%.

Graph Interpretation: Energy Release Component (ERC)

- **ERC gives seasonal trends calculated from hourly temperature, RH, precipitation duration, & solar radiation. Wind is NOT part of ERC calculation.**

Max: Highest ERC by day 2006-2019

Average: shows peak fire season

90th% = 90th percentile means 10% of days in analysis had ERC over 32

Past Experience/Local Knowledge:

- **Problematic fire behavior is likely if ERC >23 (56th Percentile) or BI is >27 (57th Percentile).**
- Green fuels that contain volatile oils and waxes can burn even under high fuel moisture content.
- If RH levels do not recover overnight, expect consistent fire behavior with spotting to occur. Some fuels are ready to burn <1 hour after rainfall. If RH levels do not recover overnight, expect active fire behavior earlier in the day and later into the night with increased potential for spotting.
- Smoldering duff has the potential for reburn and could require extended mop-up and monitoring.

Graph Interpretation: Burning Index (BI)

- **BI gives day to day fluctuations calculated from hourly temperature, RH, wind, solar radiation, & precipitation.**

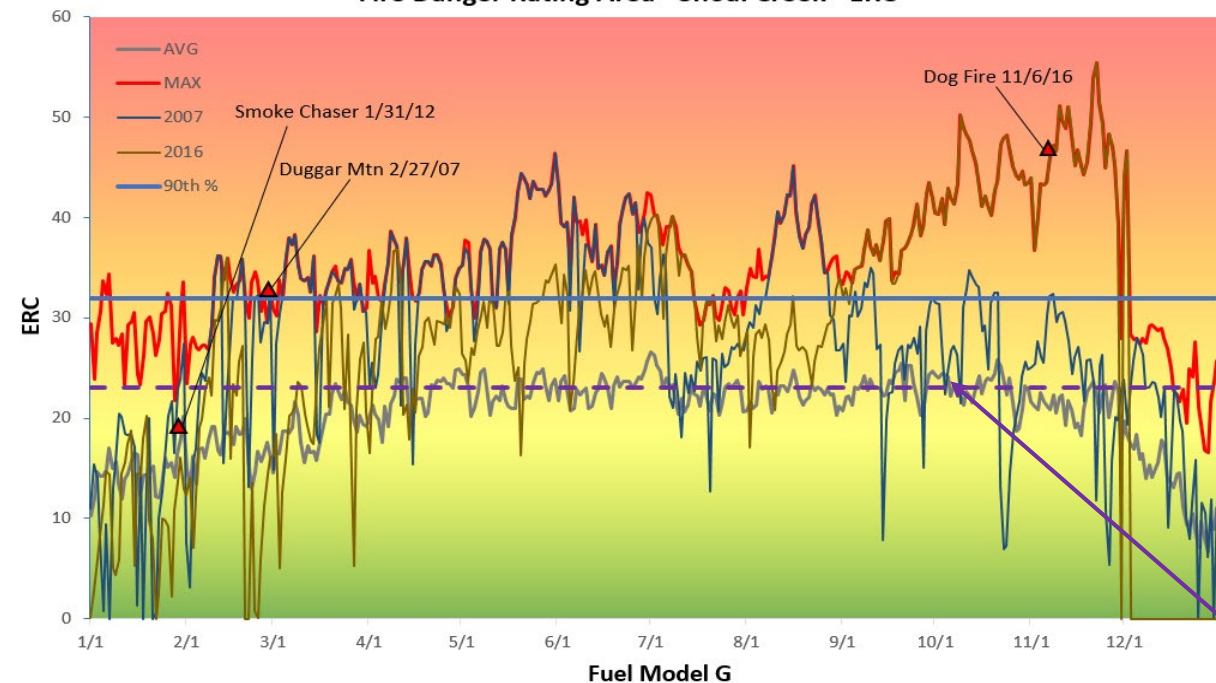
Max: Highest Burning Index by day 2006-2019

Average: shows peak fire season

90% = 90th percentile means 10% of days in analysis had BI over 39

Responsible Agency: USFS National Forests in Alabama

Card Produced: 10/18/2019



Fire Danger Rating Area - Shoal Creek - Burning Index

