Fire Danger Area: South Central Sierra – 531
Forecast Zone: CAZ296
Weather Stations: 044112 El Portal RAWS
044109 Wawona RAWS
Stations meets NWCG Weather Station Standards

Local Thresholds – WATCHOUT:
Combinations of any of these factors can increase fire behavior:
20’ windspeed over 10 mph; Temperatures over 95 degrees; Relative humidity < 15. Large fires become more frequent when ERC exceeds 85 and BI exceeds 110.

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 2009-2019
Average: shows peak fire season
85% = 85th percentile means 15% of days in analysis had ERC over 85

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 2009-2019
Average: shows peak fire season
85% = 85th percentile means 15% of days in analysis had BI over 110

Past Experience/Local Knowledge:
- 2015 & 2018 both were abnormally dry years, with 2018 resulting in the most acres burned during the analysis period
- Problematic fire behavior is likely if ERC >85 or BI is >110
- Fuel Model B is highly volatile, low elevation grass & shrubs
- Expect grass/brush fires to escape initial attack when BI > 110
- Extended high pressure with low RH recovery= increase potential for large fires
- Steep slopes/inaccessible terrain make suppression difficult
- Expect strong diurnal winds in the Merced River drainage – upslope during the heat of the day and downslope between 2000 and early morning hours

Responsible Agency: NPS CA-YNP
Pocket Card Created: 06/2020
Fire Danger Area: South Central Sierra - 531
Forecast Zone: CAZ296
Weather Stations: 043612 White Wolf RAWS
044102 Crane RAWS
Station meets NWCG Weather Station Standards

Local Thresholds – WATCHOUT:
Combinations of any of these factors can increase fire behavior: 20’ windspeed over 10 mph; Temperatures over 80 degrees; Relative humidity < 15. Large fires become more frequent when ERC exceeds 75 and BI exceeds 60.

Past Experience/Local Knowledge:
• 2015 & 2018 both were abnormally dry years, with 2018 resulting in the most acres burned during the analysis period
• Problematic fire behavior is likely if ERC >75 or BI is >60
• Fuel Model Y is a timber vegetation type
• Expect grass/brush fires to escape initial attack when BI > 60
• Extended high pressure with low RH recover = increase potential for large fires
• Watch for strong east (Mono) winds under a Great Basin high pressure system
• Expect increased fire behavior and control difficulty in post high-severity patches with heavy dead fuels and snags

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 2009-2019
Average: shows peak fire season
85% = 85th percentile means 15% of days in analysis had ERC over 75

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 2009-2019
Average: shows peak fire season
85% = 85th percentile means 15% of days in analysis had BI over 60

Responsible Agency: NPS CA-YNP
Pocket Card Created: 06/2020
Yosemite National Park

**Fires (353) (Solid)**

**Acres (206227) (Hatch)**

**Total Fires and Acres by Year**

- 2009: Fires 270, Acres 31
- 2013: Fires 182, Acres 53
- 2017: Fires 206, Acres 12

**Month**

- January: Fires 1, Acres 0
- February: Fires 5, Acres 1
- March: Fires 10, Acres 2
- April: Fires 12, Acres 3
- May: Fires 59, Acres 5
- June: Fires 78, Acres 7
- July: Fires 81, Acres 4
- August: Fires 75, Acres 5
- September: Fires 4, Acres 0
- October: Fires 31, Acres 0
- November: Fires 12, Acres 0
- December: Fires 10, Acres 0

**Size Class**

- A: 270
- B: 53
- C: 11
- D: 1
- E: 0
- F: 3

**Cause Class**

- 1: 182
- 2: 13
- 3: 19
- 4: 98
- 5: 2
- 6: 9
- 7: 43

**Fires/F-Day (F-Days=259)**

- 1: 206
- 2: 31
- 3: 12
- 4: 10
- 5: 5
- 6: 0
- 7: 0
- 8: 0
- 9: 0
- 10+: 0