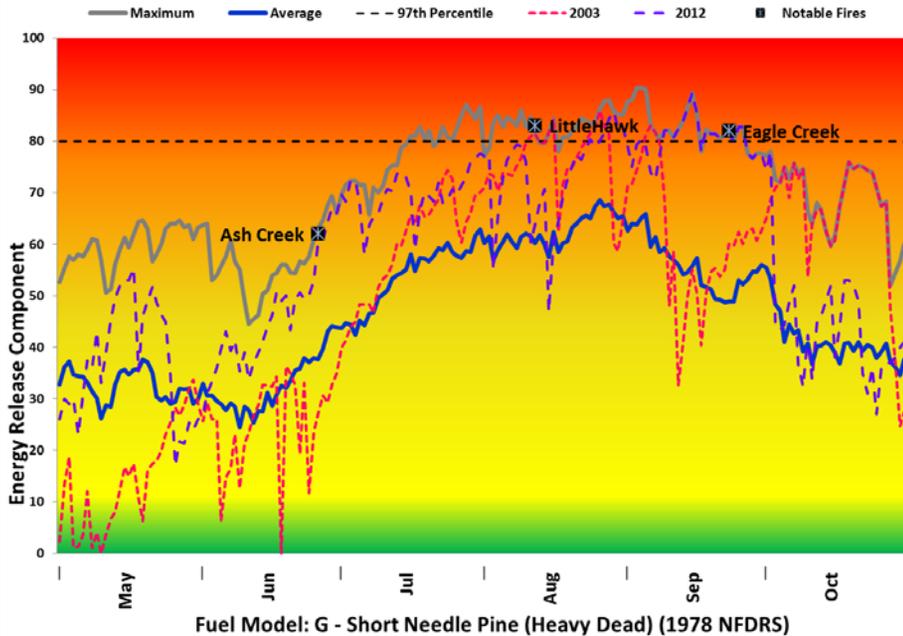


Fire Danger

Northern Cheyenne (MTNCA)

ERC-G

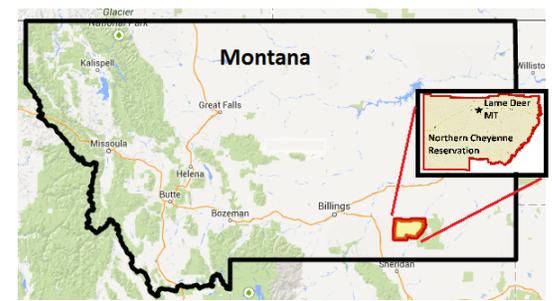


Extreme

Moderate

Fire Danger Area:

- Northern Cheyenne Reservation
- NWS Fire Wx Zone: BYZ 131
- Wx Sta.: NC SIG* (243902-Badger Pk, 245105-Wolf Mtn, 245201-Ft Howes)
- * Meets NWCG wx station stds



Fire Danger Interpretation:



- Extreme** - Use extreme caution
- (Caution)** - Watch for change
- Moderate** - Lower potential (but always be aware)

- Maximum daily BI and ERC for 1998-2012 (15 fire seasons; 2728 days with wx obs)
- Average - Shows typical fire season's BI and ERC values over that period
- - 97th percentile - Only 3% of the 2728 days from 1998-2012 had BI > 52 or ERC > 80

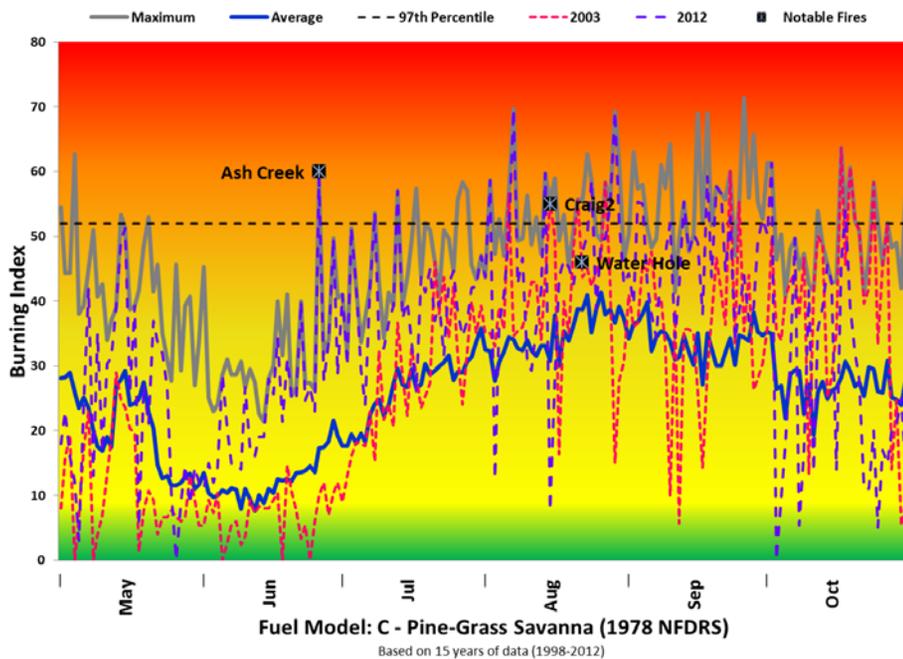
Remember what Fire Danger tells you:

- Burning Index shows day-to-day fluctuations calculated from: daily temp, RH, & wind; 24-hr temp & RH ranges, and precip duration. BI relates to expected flame length (BI/10=FL).
- Energy Release Component shows seasonal trends calculated from: daily temp & RH; 24-hr temp & RH ranges, and precip duration. Wind is NOT a input.
- The PocketCard represents conditions over a large area. Anticipate differences based on your site's specific fuels, weather, and topography.
- Pay particular attention to WIND (forecasted and your current obs). It's the fire behavior factor that changes most (speed, direction, gusts/fronts).

Fire Danger

Northern Cheyenne (MTNCA)

BI-C



Extreme

Moderate

Local Thresholds - Watch out:

These factors are known to significantly increase fire behavior:

- Temperature over 90°F
- Daytime RH less than 25%
- 20' windspeed over 20 mph (equates to eye-level winds over 8 mph)
- 1-Hour Fuel Moisture under 5%
- Poor overnight RH recovery (<35%)

Notable Fires and Years to Remember:

- Ash Creek Fire (started 6/25/12, 250k total ac)** - Rapid rates of spread and large fire growth. 6/26: ERC-G=60, BI-C=59*. 6/29: ERC-G=67*, BI-C=50. 7/1: ERC-G=70*, BI-C=54*. Temps >90°F (max. 108°); sustained winds 8-20 mph (gusts to 45); min. RH 5%. Burned 110k ac. in the first 3 burning periods, with sustained crown fire in juniper & pine. On 7/1, frontal passage winds of 35-45 mph resulted in fire advancing 7 mi. over 7 hrs.
- Craig2 Fire (started 8/14/03†, 9180 total ac)** - Aggressive nighttime fire behavior. 8/15: ERC-G=82*, BI-C=55*. Burned actively all night (8/14-15) due to poor overnight RH recovery (nighttime RH <35%).
- Little Hawk (started 8/12/03†, 25k total ac)** - Extreme fire behavior and resistant to control. 8/12: ERC-G=82*, BI-C=43. Jumped several dozer & retardant lines; 9 ft flame lengths in heavy fuels
- Water Hole (started 8/22/11†, 19k ac)** - Large size even tho BI & ERC were below 97th percentile. 8/22: ERC-G=64, BI-C=44. Poor RH recovery, 90° temp, & gusty winds caused aggressive fire spread
- Eagle Creek Fire (started 9/22/12, 4150 total ac)** - Late season fire that grew large. 9/23: ERC-G=81*, BI-C=53. 2012 - Dry year; ERC increased to record-high levels in Aug & Sept.

* Denotes record high ERC or BI values for those dates, for the 15-year period observed

† Multiple Fire Days: 12 fires started between 8/11-14/03; 8 fires started on 8/22/11