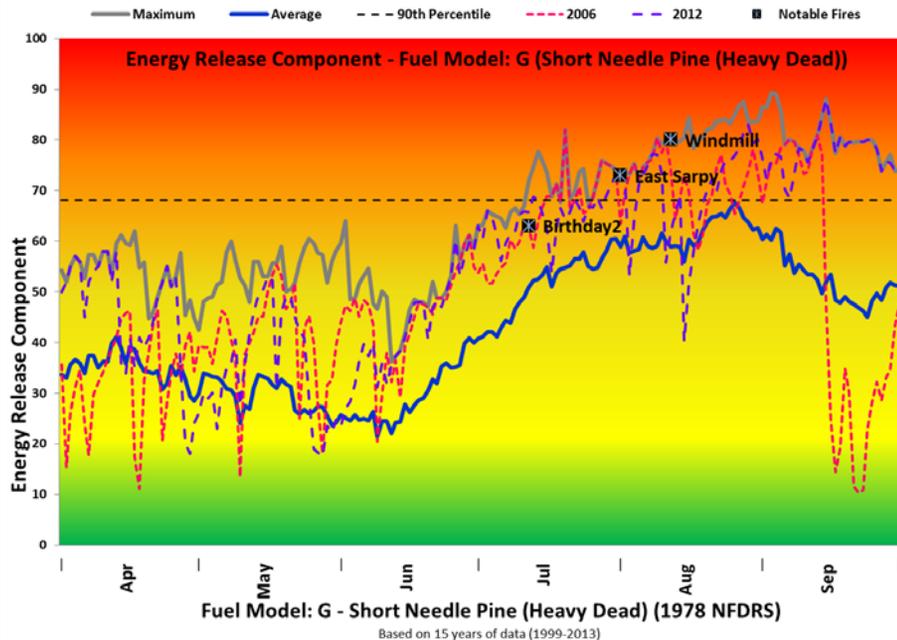


Fire Danger

Crow Agency (MTCRA)

ERC-G



Extreme

Moderate

Fire Danger Area:

- Crow Reservation
- NWS Fire Wx Zone: BYZ129
- Wx Sta: PSA13 SIG*†
- * 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 ERC and BI for 1999-2013 (15 fire seasons; 2737 days with wx obs)
- Average - Shows typical fire season's ERC and BI values over that period
- - 90th percentile - Only 10% of the 2737 days from 1999-2013 had ERC > 68 or BI > 41

Remember what Fire Danger tells you:

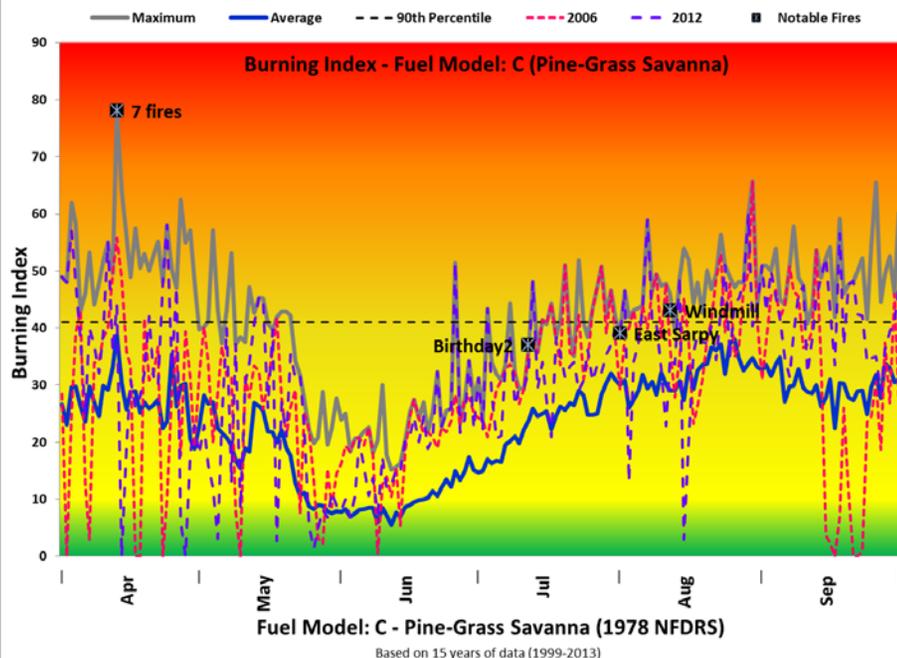
- Energy Release Component shows seasonal trends calculated from: daily temp & RH; 24-hr temp & RH ranges, and precip duration. Wind is NOT an input.
- Burning Index shows day-to-day fluctuations calculated from: daily temp, RH, & wind; 24-hr temp & RH ranges, and precip duration. BI relates to expected flame length (BI/10=FL).
- 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). Wind is the fire behavior factor that changes most (speed, direction, gusts/fronts).

† Wx Stations in SIG: 243902-Badger Pk, 245105-Wolf Mtn, 245106-Pryor Mtn, 245107-Bighorn Mtn, 245201-Ft Howes.

Fire Danger

Crow Agency (MTCRA)

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 20%
- 20' windspeed over 20 mph (equates to eye-level winds over 8 mph)

Factors contributing to extreme fire behavior: Seasonal and multi-season drought, resulting in low live fuel moistures (herb FMC < 90%) especially with high volumes of fine flashy fuels; extremely dry atmosphere (min RH < 10%), and poor nighttime recovery (max RH < 35%); and wind events, especially downdraft outflows from T-storms or frontal passages. Morning indicators suggesting possible afternoon T-storms: 49-52°F dewpoint and/or cirrocumulus clouds (featherlike, ribbon streaks).

Notable Fires and Years to Remember:

- Windmill Complex (started 8/12/03, 30k total ac)** - Original fire grew from 0 to 1000 ac. in under 2 hrs. 8/12: ERC-G=80*, BI-C=43*; 8/16: ERC-G=84*, BI-C=52*. Herbaceous FMC 40%, min RH 6-11%. On 8/16, one of the Windmill Complex fires, the Little Hawk fire, grew 6000 acres. Extreme winds from approaching front caused a 3-mile run in 15 minutes at midnight.
- 7 fires (started 4/13/05, 34 total ac)** - Multiple structures burned by wildfire in town of St. Xavier. 4/13: ERC-G=53, BI-C=78*.
- All time highest BI resulted from high winds (20-25 mph), above avg temps (50-77°F), and low RH (12-20%). Note that this occurred pre-green-up.
- Birthday2 (started 7/12/06, 6k total ac)** - 0 to 6,194 ac in 72 hrs. High local winds. ERC-G=63, BI-C=36*.
- East Sarpy Complex (started 8/1/12, 82k total ac)** - Grew to 11,000 ac. in first burning period. 8/1: ERC-G=73*, BI-C=39*. Max temp 95°F, min RH 17%. Erratic fire behavior w/ running & crowning

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

FF+ 4.1 build 1415, 11/19/2013, MTCRA_PocketCard_2013.mdb, MTCRA_PocketCard_2013.xlsx, MTCRA-PocketCard-2013.jpg

Responsible Agency: BIA - Crow Agency

Based on design by NWCG Fire Danger Working Team