

# FIRE DANGER POCKET CARD

Boise Interagency Dispatch Center

<http://fam.nwcg.gov/fam-web/pocketcards/>



Developed & Approved by:  
ID-BOD, ID-SWS, ID-BOF,  
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## FIRE DANGER FACTS

### ENERGY RELEASE COMPONENT

- ERC is calculated from the 1300 RAWs daily observation of temperature, humidity, daily temperature & RH ranges, and precipitation.
- ERC can serve as a good characterization of a fire season as it tracks seasonal fire danger trends.
- ERC has low variability and is the best fire danger component for indicating effects of intermediate to long-term drying on fire behavior.
- Wind is **NOT** part of the ERC calculation.

### BURNING INDEX

- BI gives day to day fluctuations calculated from the 1300 RAWs daily observation of temperature, wind, RH, daily temperature & RH ranges, and precipitation duration.
- Wind has a major influence on BI.
- BI is an estimate of the potential difficulty of fire control as a function of how fast and how hot a fire could burn.
- Divide BI by 10 gives an estimate of the flame length.

DISPATCH LEVELS	BOISE MTNS ERC	SNRVR / FTHLS BI	OWYHEE BI
<b>HIGH</b> Potential for high to extreme intensity. Expect high rates of spread, flame length, and control difficulty. Spot fires are a constant danger.	<b>57+</b>	<b>39+</b>	<b>63+</b>
<b>MODERATE</b> Fires in open cured grasslands will burn briskly and spread rapidly on windy days. Timber fires spread slowly to moderately fast. Short distance spotting may occur.	<b>33-56</b>	<b>27-38</b>	<b>34-62</b>
<b>LOW</b> Containment problems not expected. Fires tend to spread slowly by creeping and smoldering, and burn in irregular fingers.	<b>0-32</b>	<b>0-26</b>	<b>0-33</b>

**LOCAL THRESHOLDS** Any of these factors significantly increase the potential for extreme fire behavior.

	BOISE MOUNTAINS	SNAKE RIVER/FOOTHILLS	OWYHEE CANYONLANDS
20 FT WIND SPEED (mph)	>5	>7	>8
RH (%)	<25	<20	<15
TEMPERATURE (°F)	>80	>85	>84
FACTOR	ERC >56	BI >38	BI >62

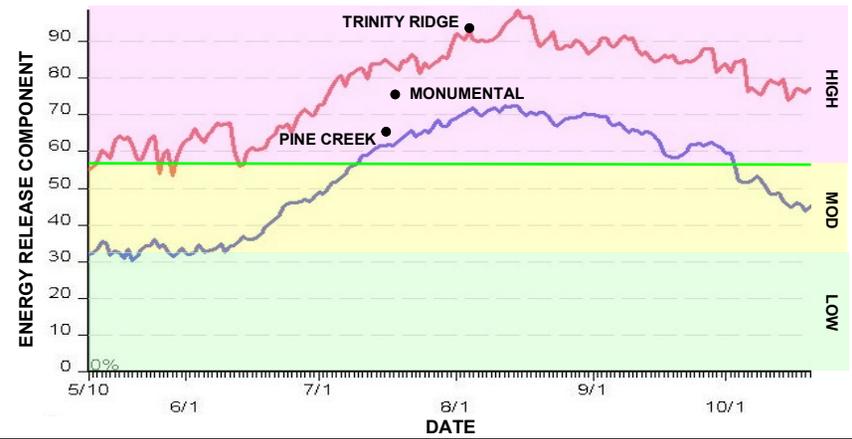
**PAST FIRE EXPERIENCE** - Weather taken from closest RAWs station

DATE	FIRE NAME	FDRA	SIZE	BI	ERC	TEMP	RH	WIND
08/03/12	TRINITY RIDGE	BOISE MTNS	146,832	—	92	85	8	5
07/17/07	MONUMENTAL	BOISE MTNS	174,231	—	75	83	19	4
07/15/13	PINE CREEK	BOISE MTNS	2797	—	66	97	9	5
08/08/13	MUDD (PONY COMPLEX)	SNRVR/FTHLS	135,231	43	—	97	6	9
08/14/11	BLAIR	SNRVR/FTHLS	39,577	47	—	98	7	11
08/10/06	CHERRY	SNRVR/FTHLS	54,350	51	—	93	12	10
08/15/13	JUNI	OWYHEE	2225	67	—	94	11	7
07/09/12	JACKS	OWYHEE	48,894	91	—	98	6	13
7/6/07	CRUTHCHER CROSSING	OWYHEE	38,124	71	—	102	4	8

## BOISE MOUNTAINS FIRE DANGER RATING AREA

MAXIMUM, AVERAGE, 53rd PERCENTILE. Data Years: 1987-2013

FUEL MODEL G—Dense Conifer



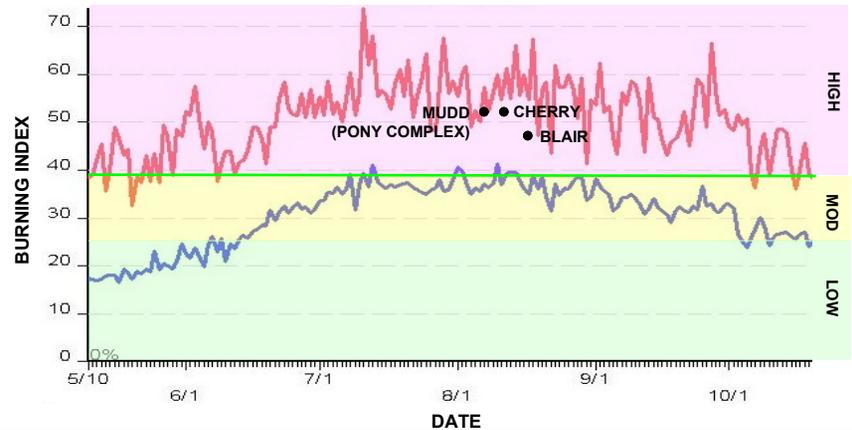
Fire Wx Zones: 403, 421  
Wx STATIONS (SIG):  
Weiser River, Ski Hill,  
Pine Creek, Town Creek,  
(Meets NWCG Wx Station Standards)



## SNAKE RIVER / FOOTHILLS FIRE DANGER RATING AREA

MAXIMUM, AVERAGE, 80th PERCENTILE. Data Years: 1990-2013

FUEL MODEL A—Western Annual Grasses

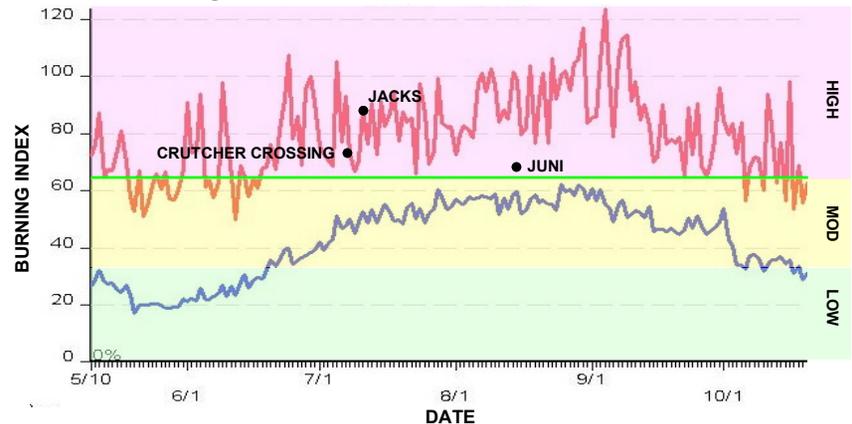


Fire Wx Zones: 400, 420, 424  
Wx STATIONS (SIG):  
Mountain Home, Horse Butte,  
Cattish,  
(Meets NWCG Wx Station Standards)

## OWYHEE CANYONLANDS FIRE DANGER RATING AREA

MAXIMUM, AVERAGE, 80th PERCENTILE. Data Years: 1990-2013

FUEL MODEL T—Sagebrush, Grass



Fire Wx Zones: 423  
Wx STATIONS (SIG):  
Owyhee Ridge, Brace Flat,  
Triangle,  
(Meets NWCG Wx Station Standards)