

MOUNTAIN – FIRE DANGER RATING AREA

FIRE DANGER POCKET CARD

Salmon-Challis National Forest

US Wildland Fire Service

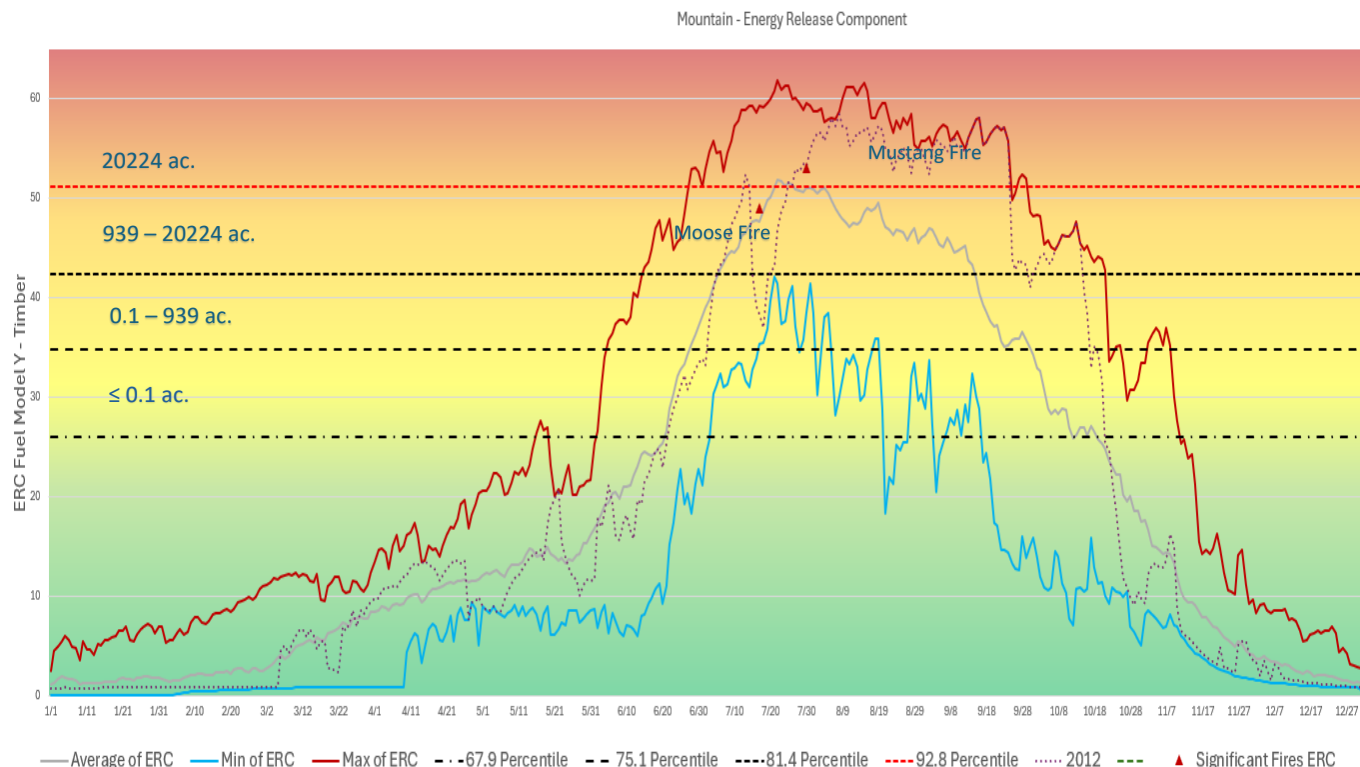
Weather Zone 475

Fuel Model Y

RAWS: Indianola, Bearskin, Red Rock

*All stations comply with NWCG weather standards

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REMEMBER – What Fire Danger tells you:

- Energy Release Component (ERC) gives seasonal trends calculated from daily max temperature, relative humidity (RH), and daily precipitation.
- Wind is NOT part of the ERC calculation.
- Burning Index (BI) is very reactive to WINDY conditions.
- Pay attention to local conditions and variations across the landscape; Fuel, Weather, and Topography.
- Listen to weather forecasts, especially WIND and Minimum RH.
- Drainages may be susceptible to local winds, especially when in alignment.
- Fire Danger is calculated for the driest and most exposed part of the Area and is intended to provide the current worst-case scenario.

WATCH OUT – When dry fuels are combined with any of the following:

- Dry Cold Front Passage – Strong winds combined with Low Relative Humidity.
- Alignment of Wind and Slope.

Energy Release Component (ERC) – 5 levels, each level represents the threshold above which most fires of a certain class were historically discovered.

ERC	PERCENTILES	LOCAL THRESHOLDS	
0 - 26	0 – 67.9	• Temperatures greater than 80 degrees.	Max = Highest ERC by day, 2005-2024
26.1 – 34.8	70 – 75.1	• 1000-hr fuel moistures less than 10%	AVG = Average ERC by day, 2005-2024
34.9 – 42.4	75.2 – 81.4	• Relative Humidity less than 10%	*2012 = A year to Remember (Mustang)
42.5 – 51.2	81.5 – 92.8	• 20-ft Wind Speed greater than 15 mph	*2022 = Moose
51.3+	92.3+		

PAST EXPERIENCE: MUSTANG FIRE

*Asterix denotes FIRE START DATE OF 7/30/2012

The Mustang burned throughout the summer of 2012 making large runs on several days.

Conditions:

7/30: ERC 51, BI 28; Winds SW @ 8 mph with gusts 15-20, RH 6%, Temp 96°, 1,000-hr FM 11%.

On 8/13 at 0600, the fire was 8,274 acres and by 0600 on 8/14 had grown to over 36,369 acres. Red Rock RAWs reported conditions of peak wind at 24 mph, high temp of 81°, and RH of 7%. ERC 57, BI 34, 1,000 hr. FM 9%.

The 2 previous days before 8/13 were just as windy, hot, and dry with 8/12 being the worst with 30mph peak wind, 80° temps, and 5% min humidity. For the previous 28 days prior to 8/13 Red Rock only registered .03" of rain.

9/10: ERC 55, BI 35; Winds WSW 10 mph with gusts to 20-25; RH 11%, Temp 86°, 1,000-hr FM 9%.