

Bear River Wildfire Ready Watershed Project

Summer 2024

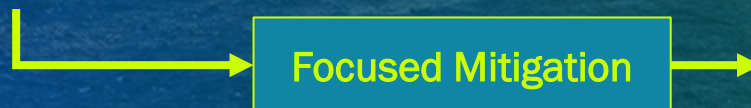


Project Components

Bear River Wildfire Ready Watershed Project is Comprised of Two Primary Components

Wildfire Ready Action Plan

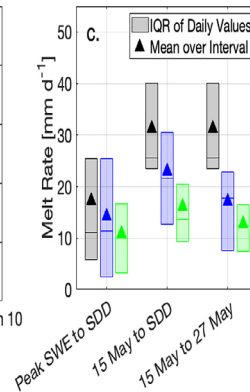
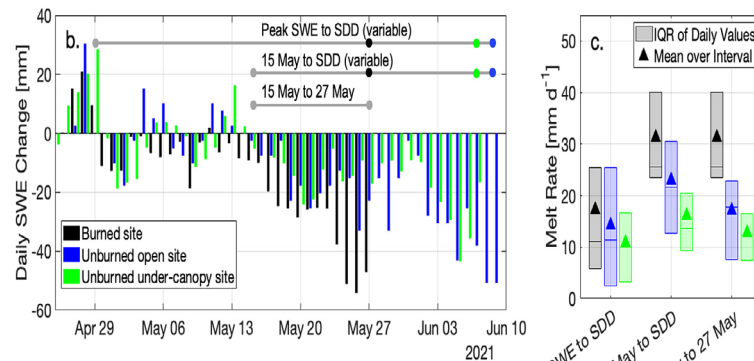
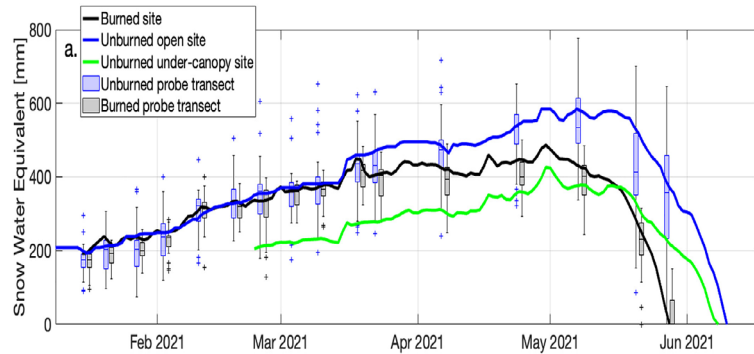
- Watershed Scale Wildfire Risk Analysis.
- Project Analysis Cost = \$153,000.
- Additional Implementation Funding Available = \$22,000.
- Funding: CWCB Grant (\$131,250), UYWCD Funds (\$43,750).
- Wildfire Risk Potential Analysis and Post-Fire Hazards Potential Analysis.
- Projected Completion in Fall of 2024.



Hazardous Fuels Reduction

- Forestry and Vegetation Management Activities within the Bear River WRAP Project Area.
- Project Cost = \$1,375,000.
- Funding: **COSWAP** Grant (\$980,000), UYWCD Funds (\$395,000).
- Proposed Action NEPA Authorization Underway
- Initial “on-the-ground” activities expected in 2025.

Declines in Peak Snow Water Equivalent and Elevated Snowmelt Rates Following the 2020 Cameron Peak Wildfire in Northern Colorado



“Working in the 2020 Cameron Peak wildfire scar in Colorado, we found that **a burned site accumulated less snow than unburned portions of the study area. The largest snowpack changes occurred in the spring, when snow in the burned site melted up to 144% faster** and melted out 11–13 days earlier than unburned areas.”

[Geophysical Research Letters, Volume: 50, Issue: 6, First published: 28 March 2023, DOI: \(10.1029/2022GL101294\)](https://doi.org/10.1029/2022GL101294)

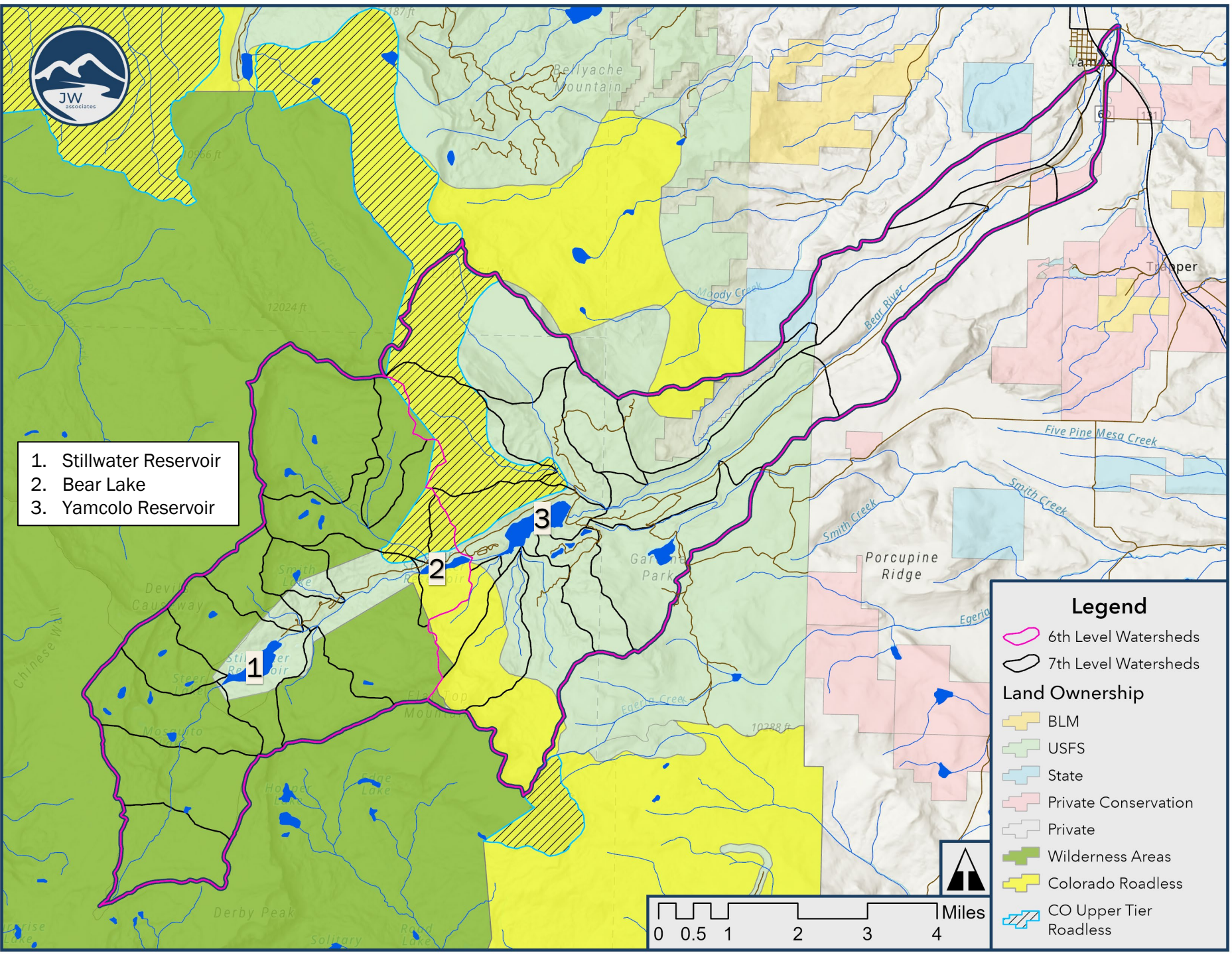
Daniel McGrath, Lucas Zeller, Randall Bonnell, Wyatt Reis, Stephanie Kampf, Keith Williams, Marianne Okal, Alex Olsen-Mikitowicz, Ella Bump, Megan Sears, Karl Rittger

Bear River Watershed

Total Area = 33,308 Acres

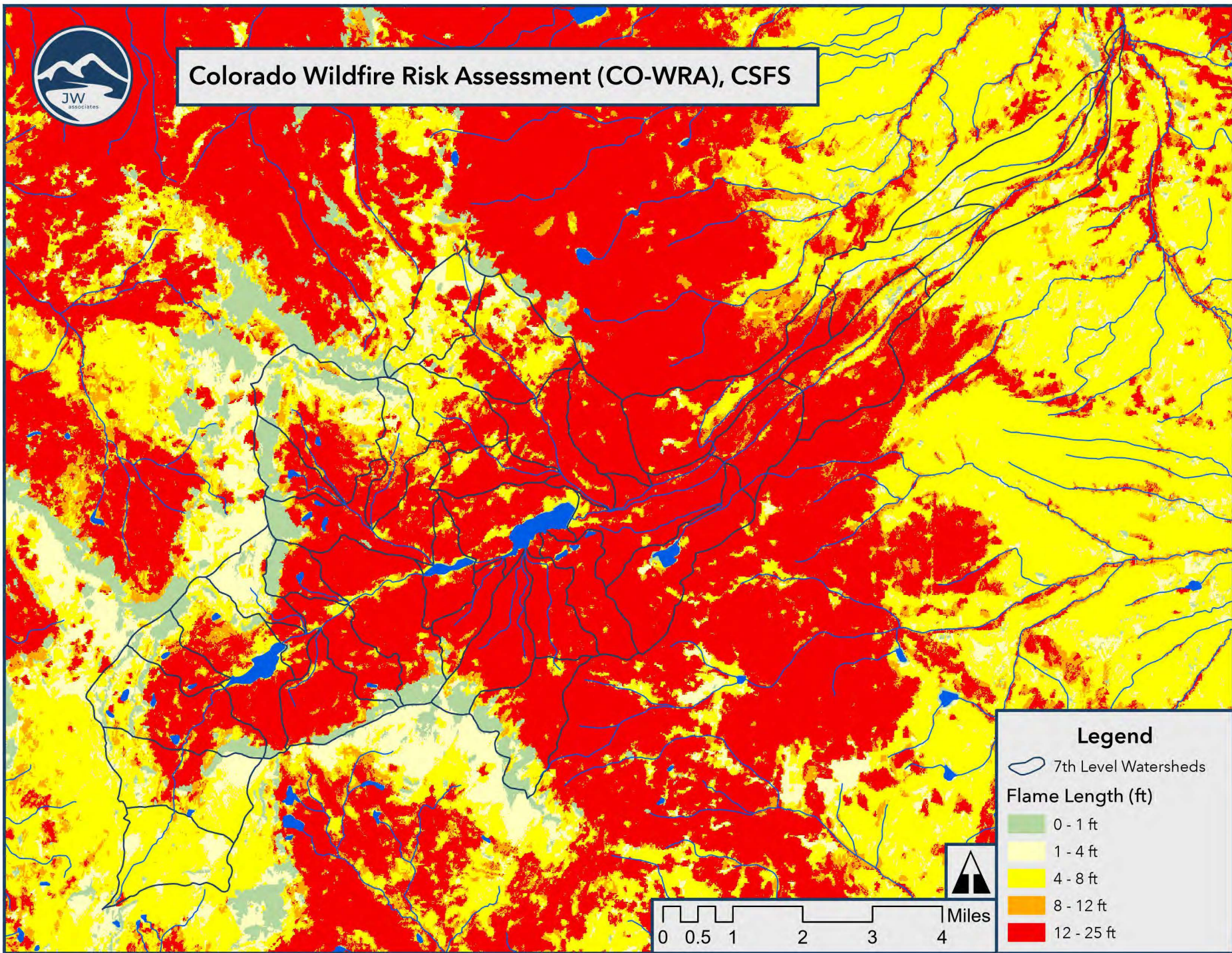
2 - 6th Level Watersheds average 16,654 acres

29 - 7th Level Watersheds average 1,148 acres





Colorado Wildfire Risk Assessment (CO-WRA), CSFS



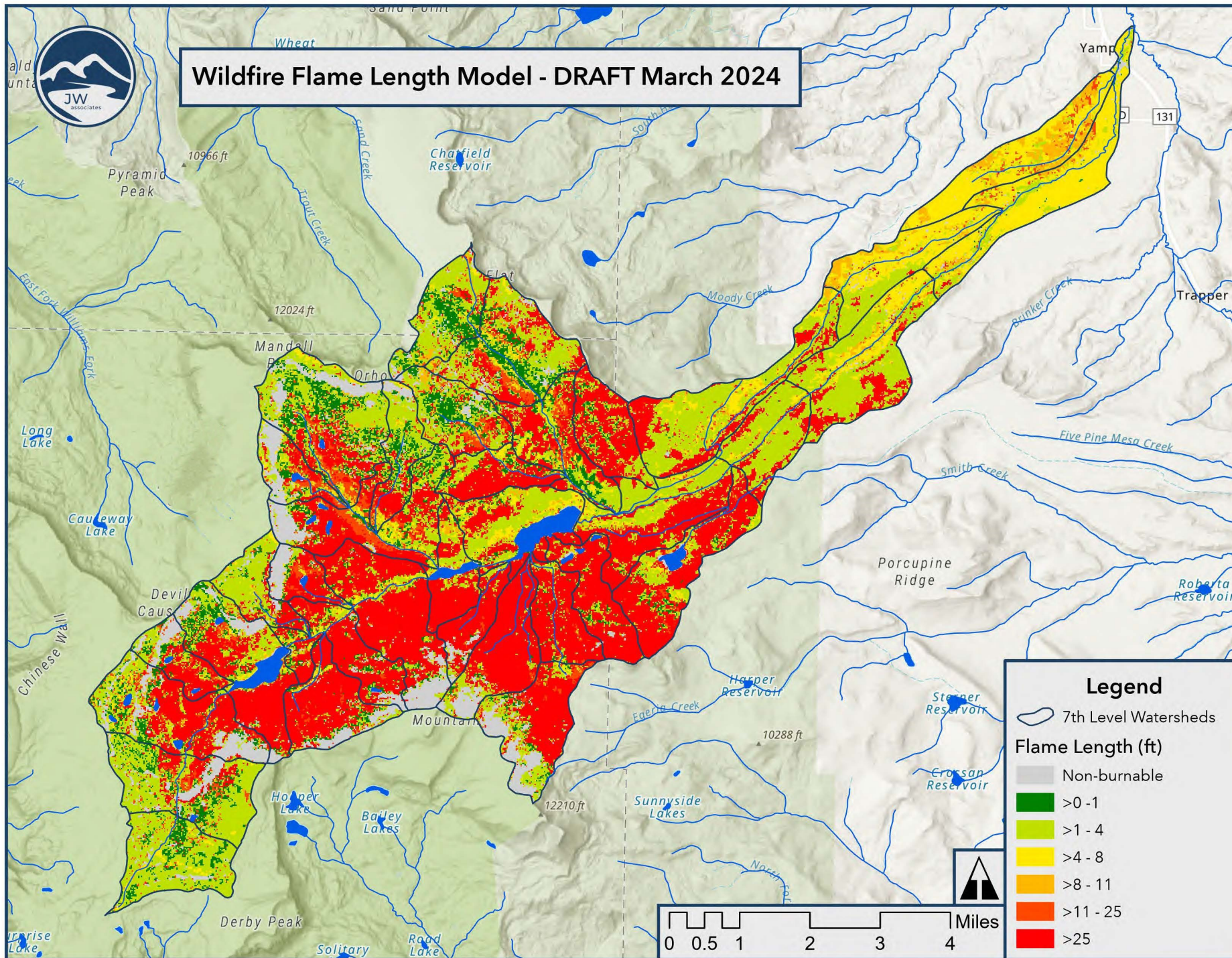
Legend

- 7th Level Watersheds
- Flame Length (ft)
 - 0 - 1 ft
 - 1 - 4 ft
 - 4 - 8 ft
 - 8 - 12 ft
 - 12 - 25 ft





Wildfire Flame Length Model - DRAFT March 2024



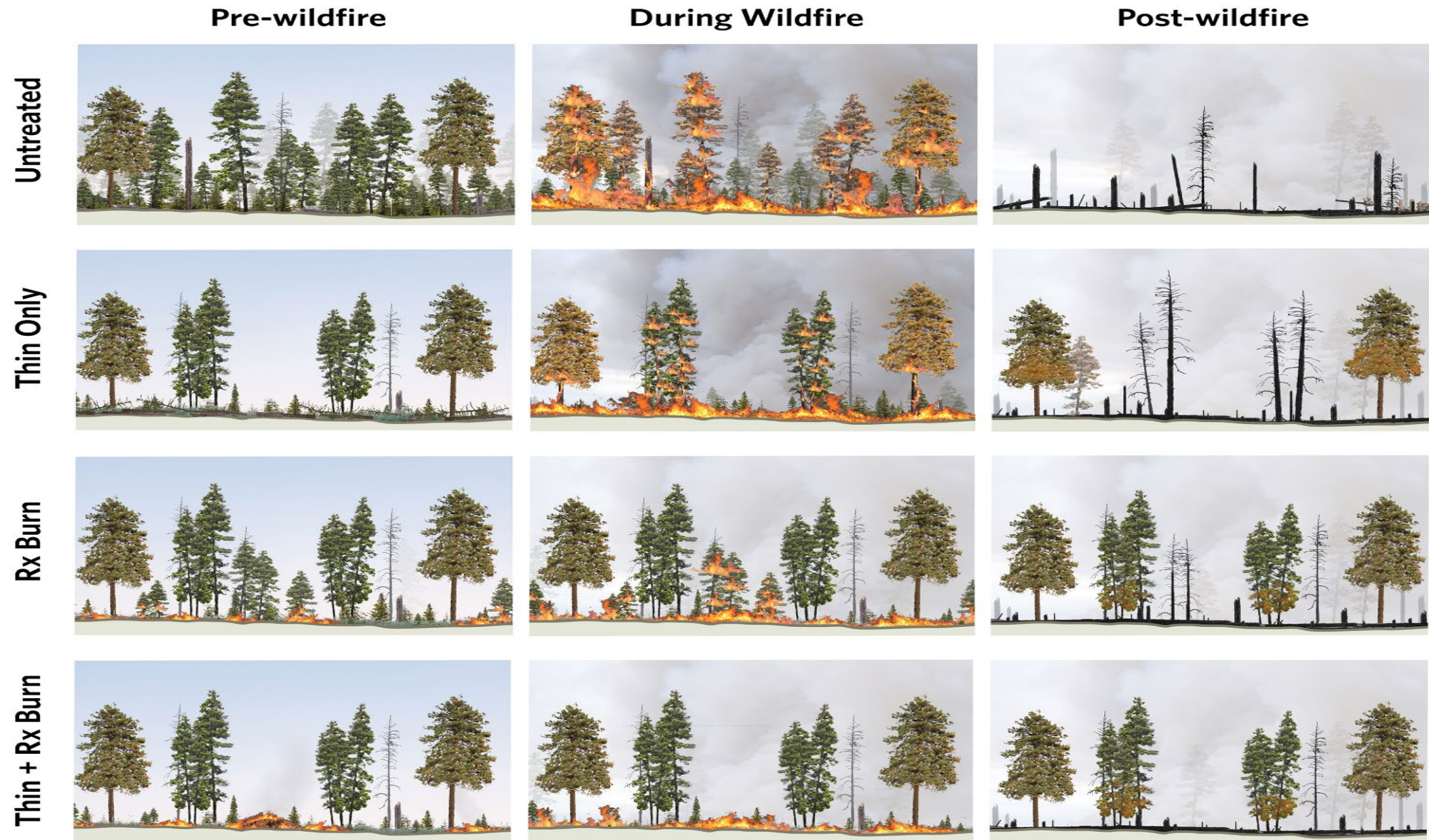
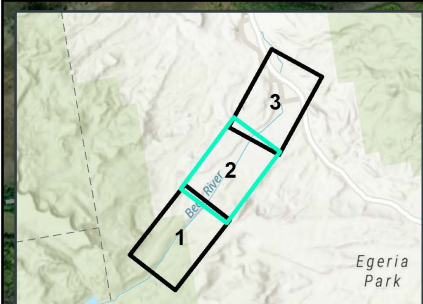


Figure 1 Taken From - *Tamm review: A meta-analysis of thinning, prescribed fire, and wildfire effects on subsequent wildfire severity in conifer dominated forests of the Western US*
 Kimberley T. Davis, Jamie Peeler, Joseph Fargione, Ryan D. Haugo, Kerry L. Metlen,
 Marcos D. Robles, Travis Woolley



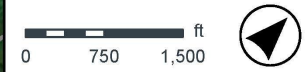
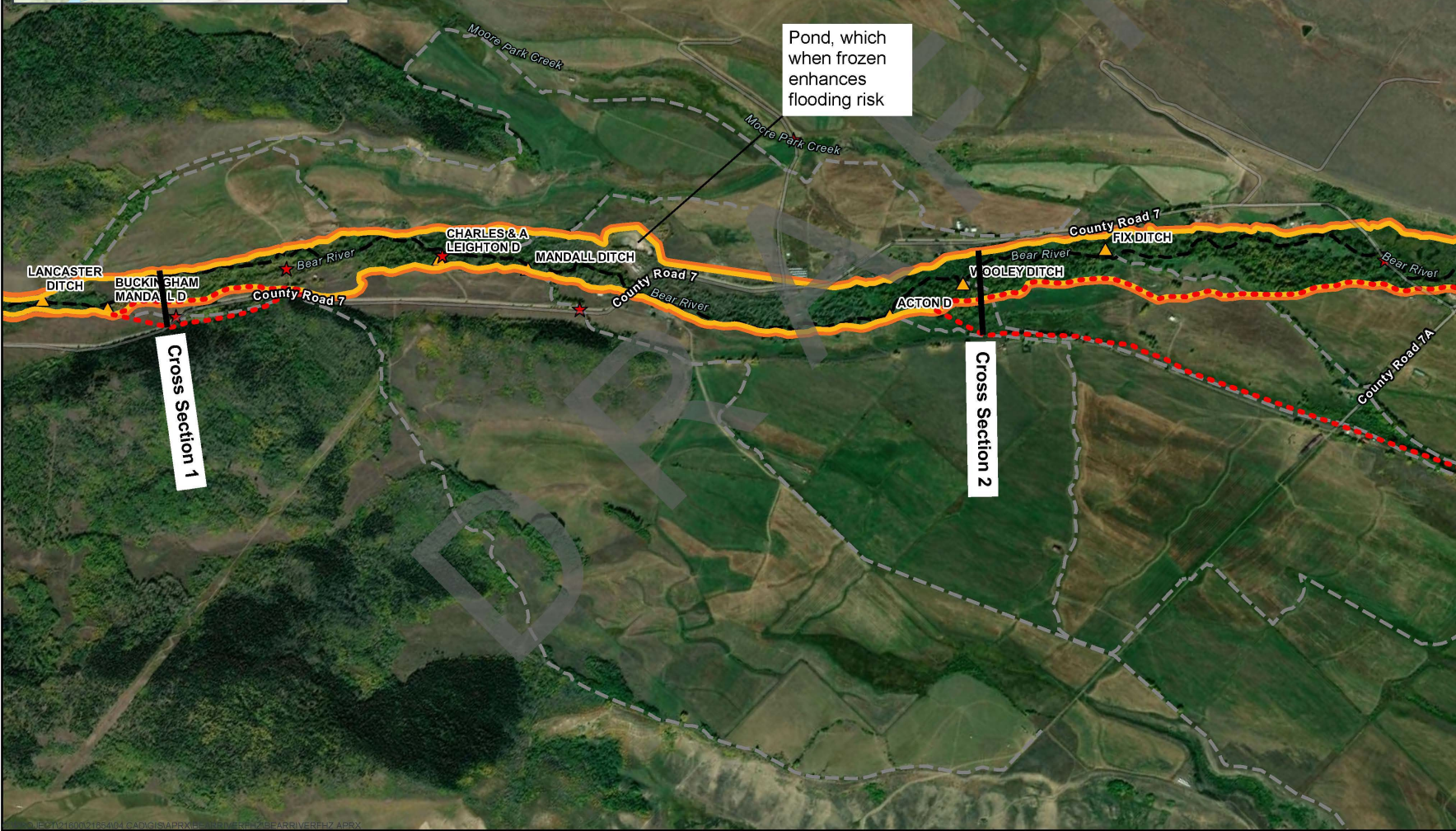
FLUVIAL HAZARD ZONE MAPS

BEAR RIVER WILDFIRE READY ACTION PLAN
PROJECT 21654.A

ROUTT COUNTY, CO

PAGE 2 OF 3

- Bear River
- Ditches
- ▲ Headgates
- ★ Road Crossings
- Active Stream Corridor
- Fluvial Hazard Buffer
- Avulsion Hazard Zone



Data Sources:
Date: 6/20/2024
Disclaimer: This data is not to survey accuracy and is meant for planning purposes only.

