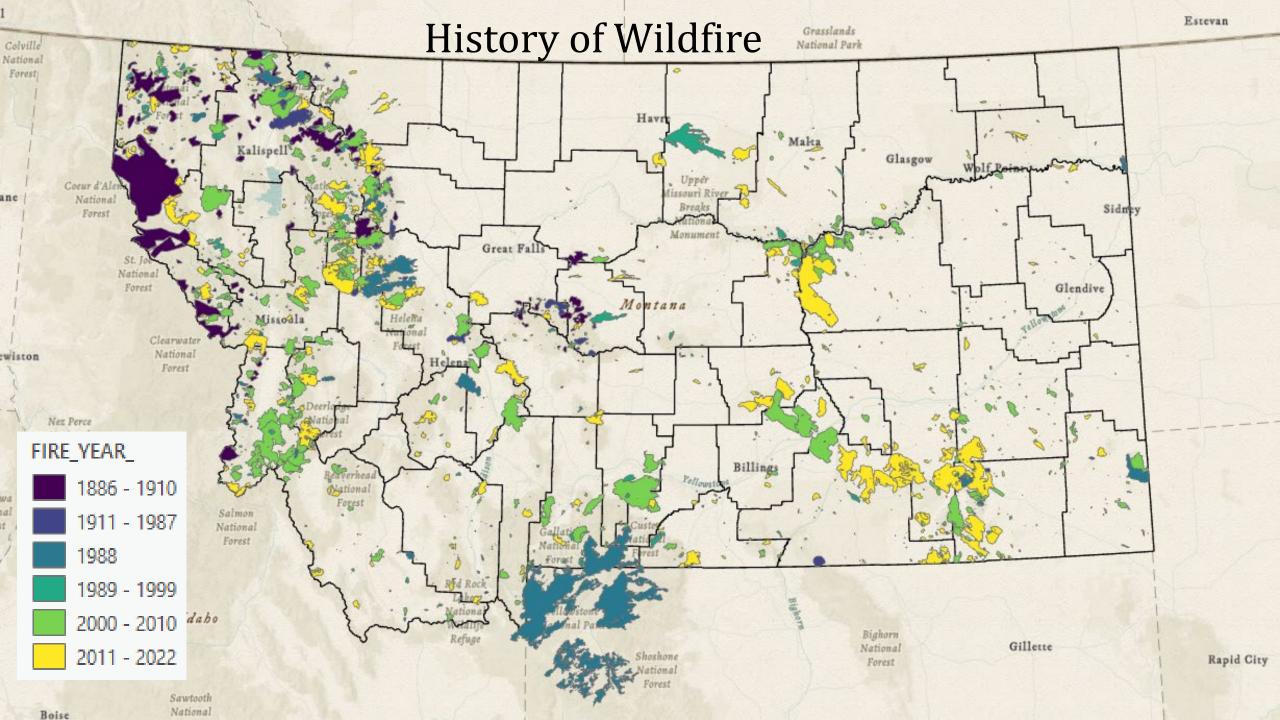
Wildfire Suppression and Mitigation

Assessing and Planning for Costs to the State of Montana

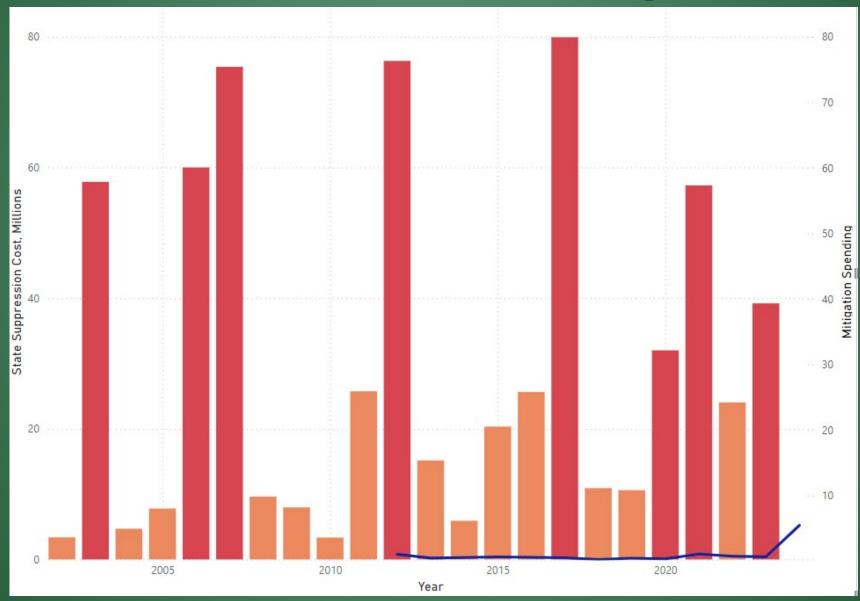


Key Points

- 1. Wildfires are a significant, variable, and hard-to-predict cost to the state and its partners
- 2. Regardless of policy or funding changes, wildfires will continue to impose risk on the state and its residents, and that risk may be increasing over time
- 3. Much of the state's newly taxable value is in areas that have high wildfire risk



Wildfire Suppression Cost and Mitigation Spending



Suppression vs. Mitigation

- **Suppression**: Putting out the wildfires
- **Mitigation**: Practices that reduce the severity/frequency of wildfires
- Mitigation is cheaper than suppression but impossible to quantify events that don't happen
- Reduce burnable fuels with more planned burns off-season and letting wildfires burn if not a risk to structures
- Changes to zoning and building codes seems to be a promising mitigation strategy

Measuring Risk Reduction and Desired Condition

- Measure effectiveness of treatment program (reduced risk, improved condition)
- **Track** accomplishments over time and amount of treatment
- **Compare** different spatial treatment scenarios
- Identify baseline risk

Risk reduction

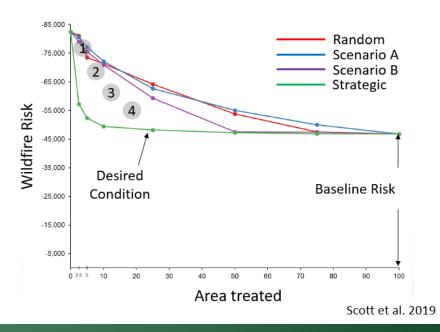
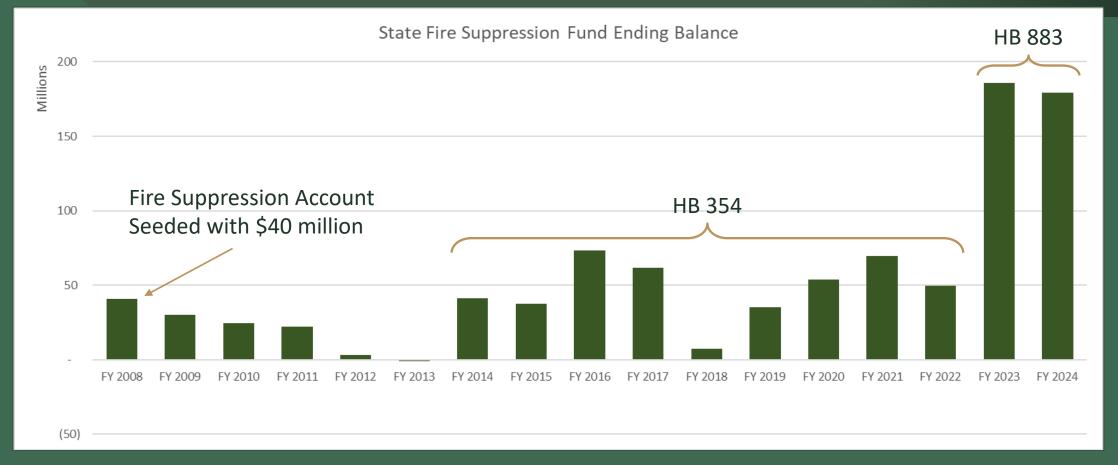
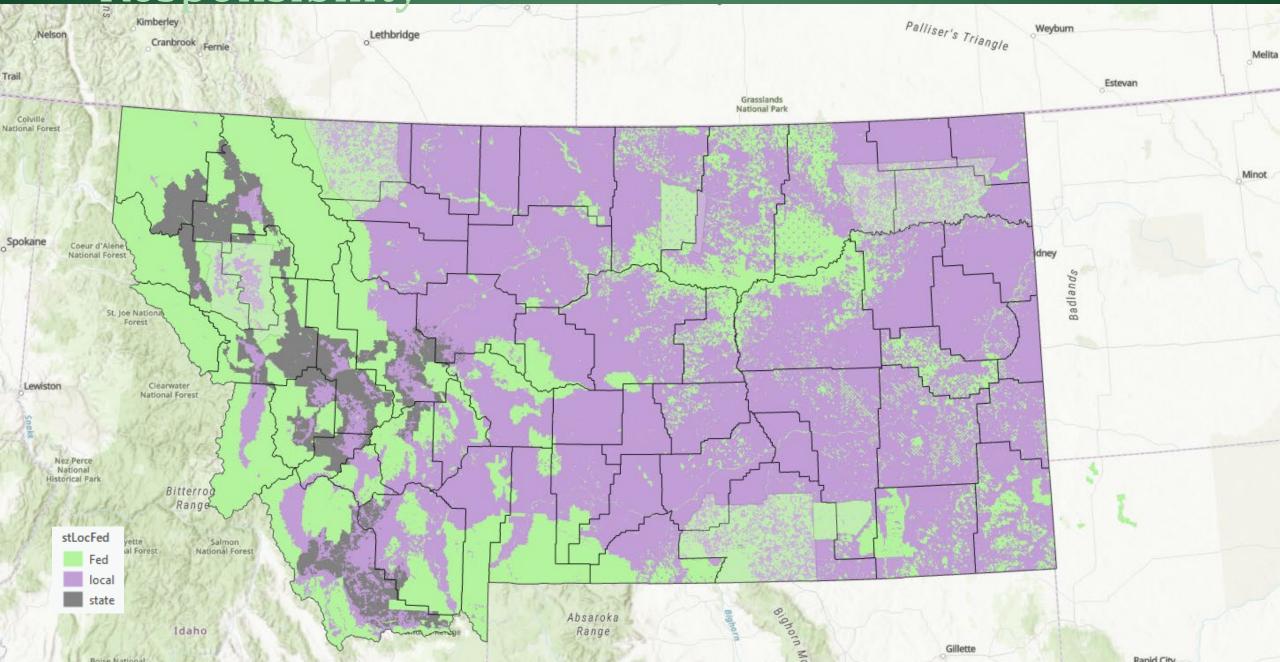


Image courtesy of USDA FireLab, Missoula

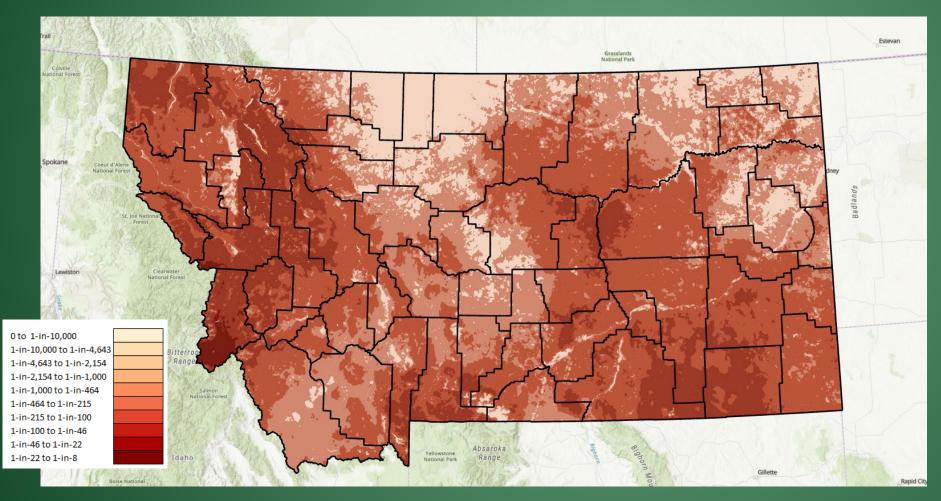
Montana Wildfire State Special Revenue Fire Suppression Account



Responsibility



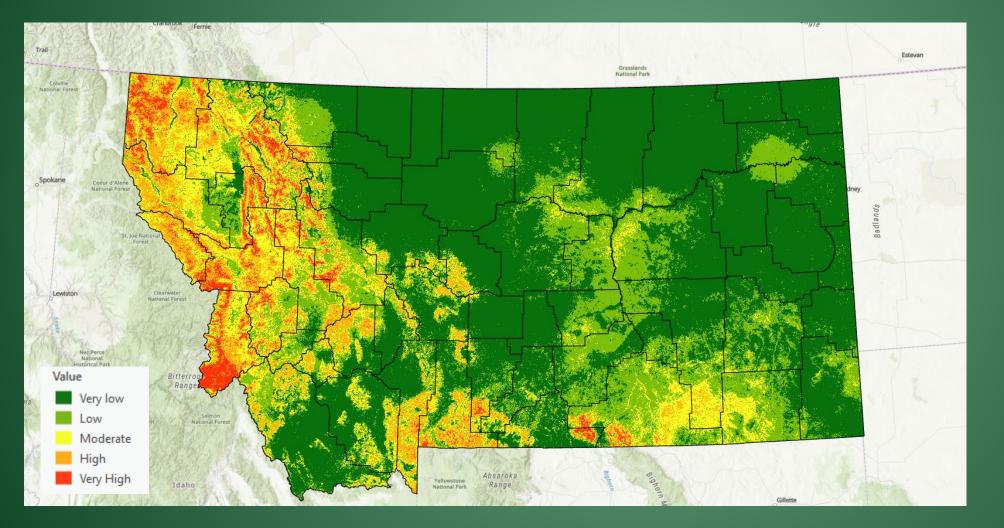
Burn Probability



Annual Likelihood that fire will occur in a given location (currently based on 2015 fuel conditions, update about to be be released.)

nttps://wildfirerisk.org/wpcontent/uploads/2022/12/WildfireRiskToCom nunities Methods Revised Nev2020.odf

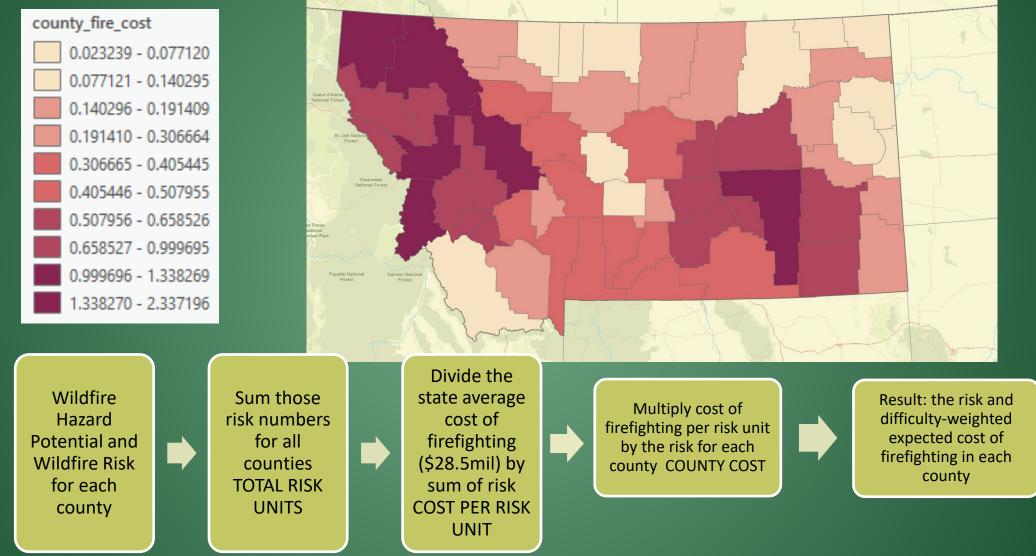
Wildfire hazard potential



Relative potential for a fire that may be difficult to control

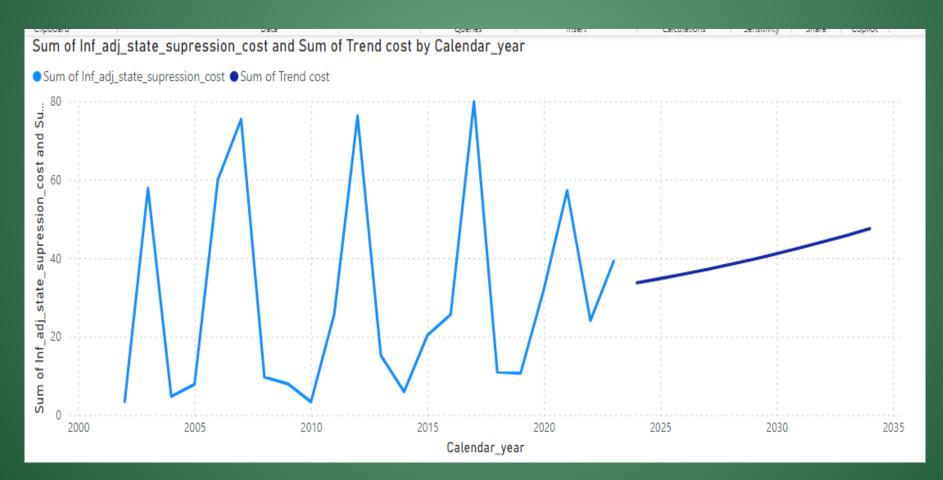
https://wildfirerisk.org/wpcontent/uploads/2022/12/wildfireRisk ToCommunities Methods Revised No v2020.pdf

State Fire Cost by County from MARA Model, in Millions of Dollars (Projected Annual Average, risk-weighted, will be inflated?)

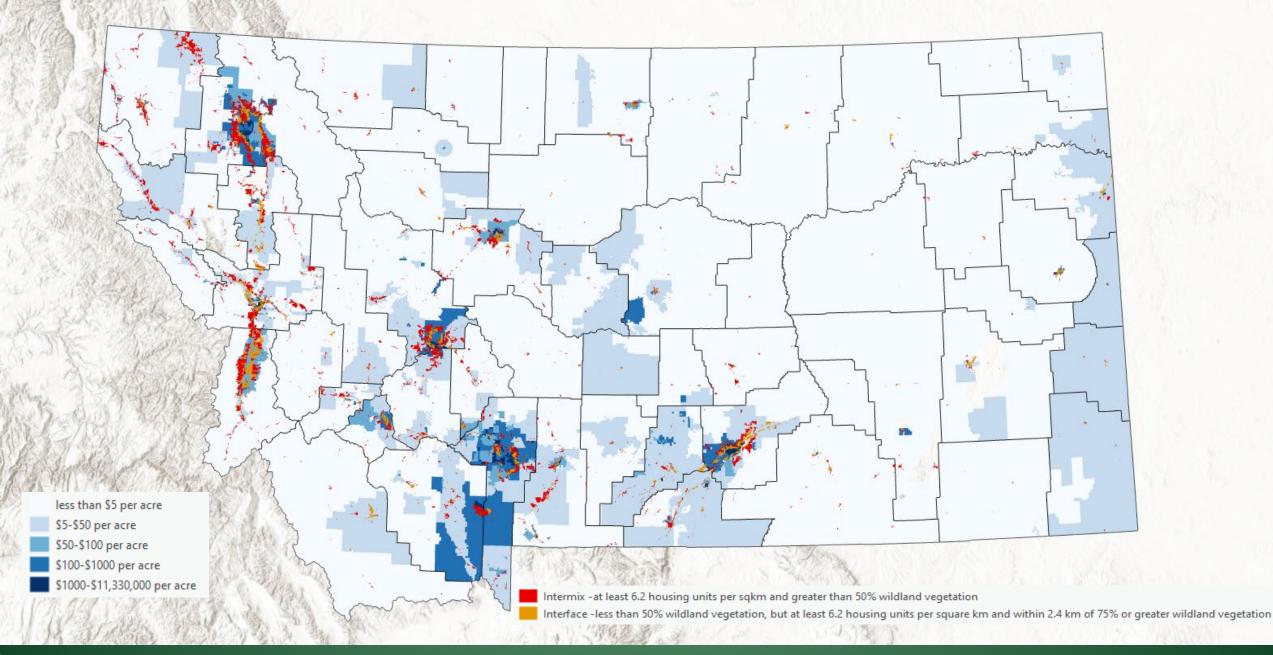


Mara Model Trendline

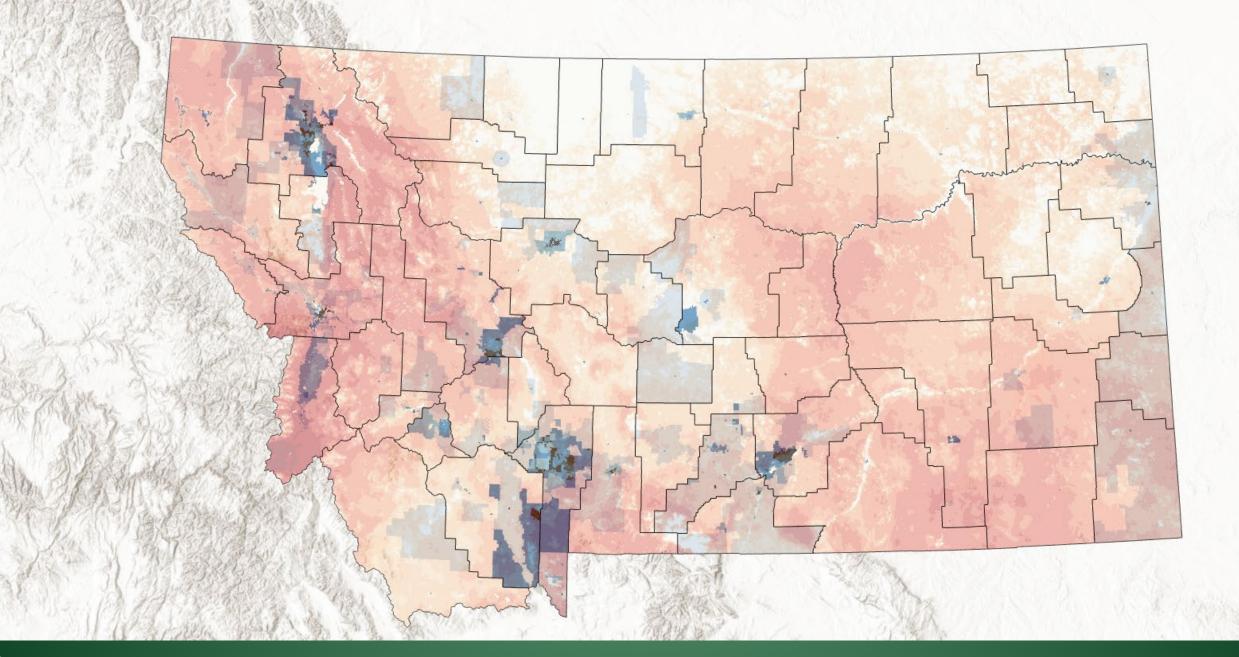
• 5-year average, CPI adjusted forward



Newly taxable value and the Wildland Urban Interface (WUI) 2014-2023



Newly taxable value and Burn Probability



Fin.