

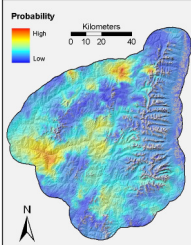
# PROBABILITY OF BURNING MODEL IMPROVES WILDLAND FIRE PLANNING

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## Fire stewardship is improved with information about how the probability of burning varies across a landscape:

**Opportunities for WFU**



Average annual probability of burning from lightning ignitions in the Selway-Bitterroot Wilderness.

Estimates of probability of burning identify where the greatest opportunities for WFU are. High probabilities indicate where WFU opportunities are relatively common or frequent, while low probabilities indicate where opportunities are relatively rare.

This information is useful for fire management planning and supporting the go/no-go decision.

- **Where is fire most likely to burn?**  
Risk assessment, prioritization, prevention planning
- **Where are opportunities for Wildland Fire Use?**  
Fire Management Planning (FMP), go/no-go decision support
- **What is the effect of suppression on adjacent lands?**  
Evaluate management objectives, cross-boundary planning

**Overview of BurnPro:**

The GIS model BurnPro predicts the average annual probability of burning for every pixel in a raster landscape. BurnPro uses topography, historic weather, fuels maps, and historic ignition locations to estimate the likelihood of burning given the speed and direction a fire might burn from any ignition point, the length of the fire season, and the frequency of fire-stopping rain events during the fire season.

