

# Healthy Forest Restoration Act

- Provides improved statutory processes for hazardous-fuel reduction projects on certain types of at-risk National Forest System lands
- Provides authorities and direction to help reduce hazardous fuel and restore healthy forest

## Authorization of the Pettijohn Project

- Authorized under Section 102 (5) (B) of the Healthy Forest Restoration Act.
- This hazardous fuels reduction project will provide enhanced protection from catastrophic wildfire for the endangered species, threatened species, or habitat of the endangered species or threatened species



# Purpose and Need

- Current landscape fuels conditions in the LSR are conducive to the rapid spread of fire and reduced fire suppression effectiveness. There is a high probability that a fire start within or adjacent to the project area would result in the loss of existing and developing old-growth habitat in the LSR. Utilizing prescribed fire as a management tool to maintain lowered fuel loading is currently not safe or feasible.
- The Clear Creek LSR is currently dominated by mature (approximately 80 to 110 years old) conifer forest and includes less than the desired amount of old-growth habitat



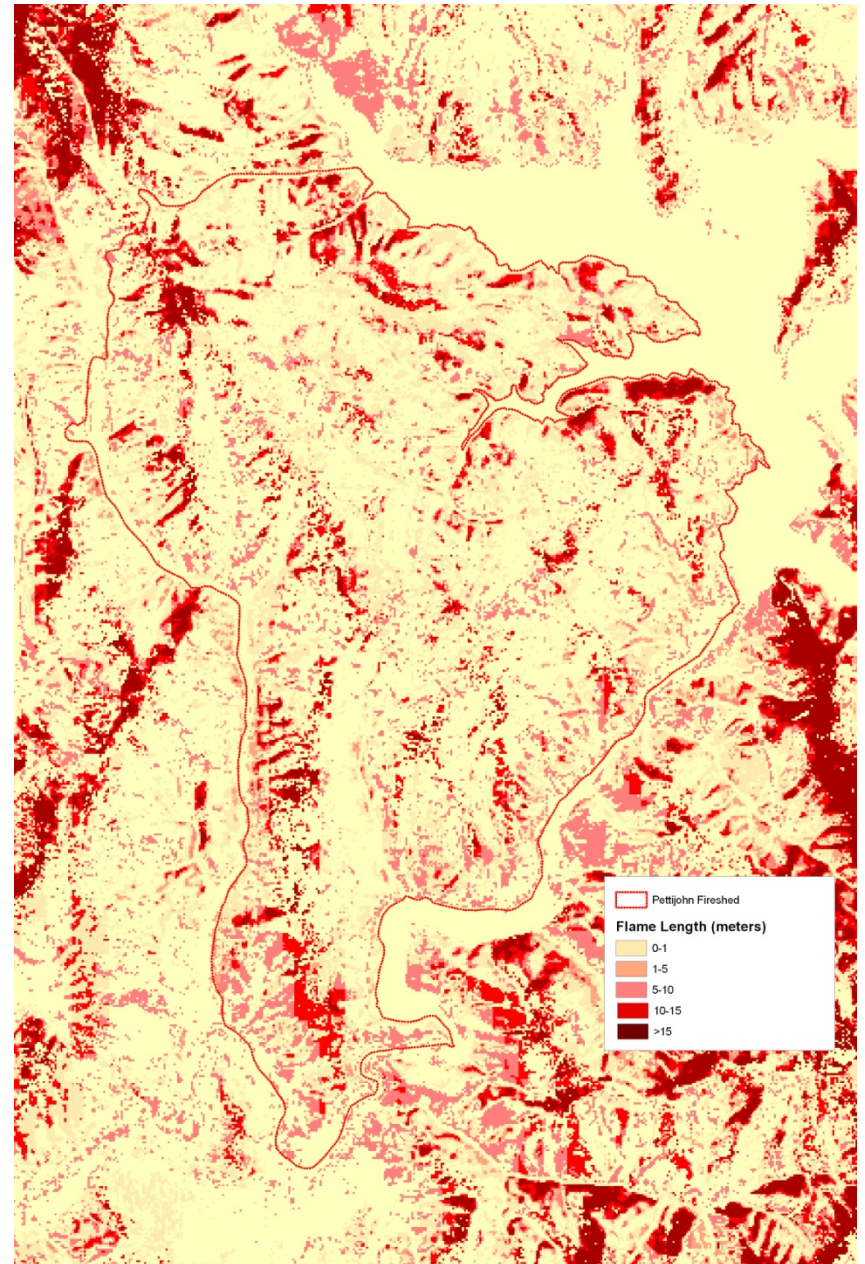
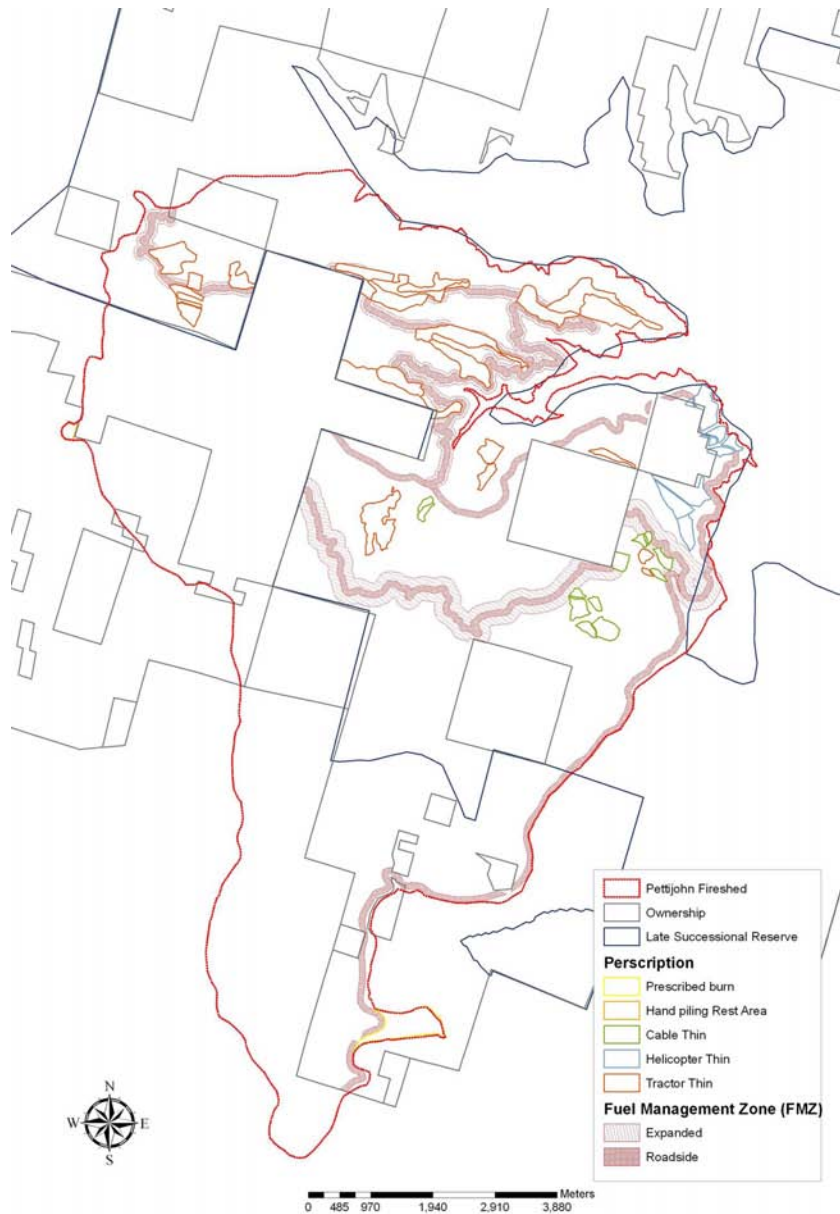
# Project Objectives

- Reduce fuels: reduce fuel loading within existing and developing old-growth habitat to levels that allow fire to pass through an area without destroying old growth forest stands.
- Fire fighter safety: provide for increased fire fighter safety and effectiveness during future wildfires;
- Old-growth habitat improvement: accelerate the development of old-growth habitat conditions.



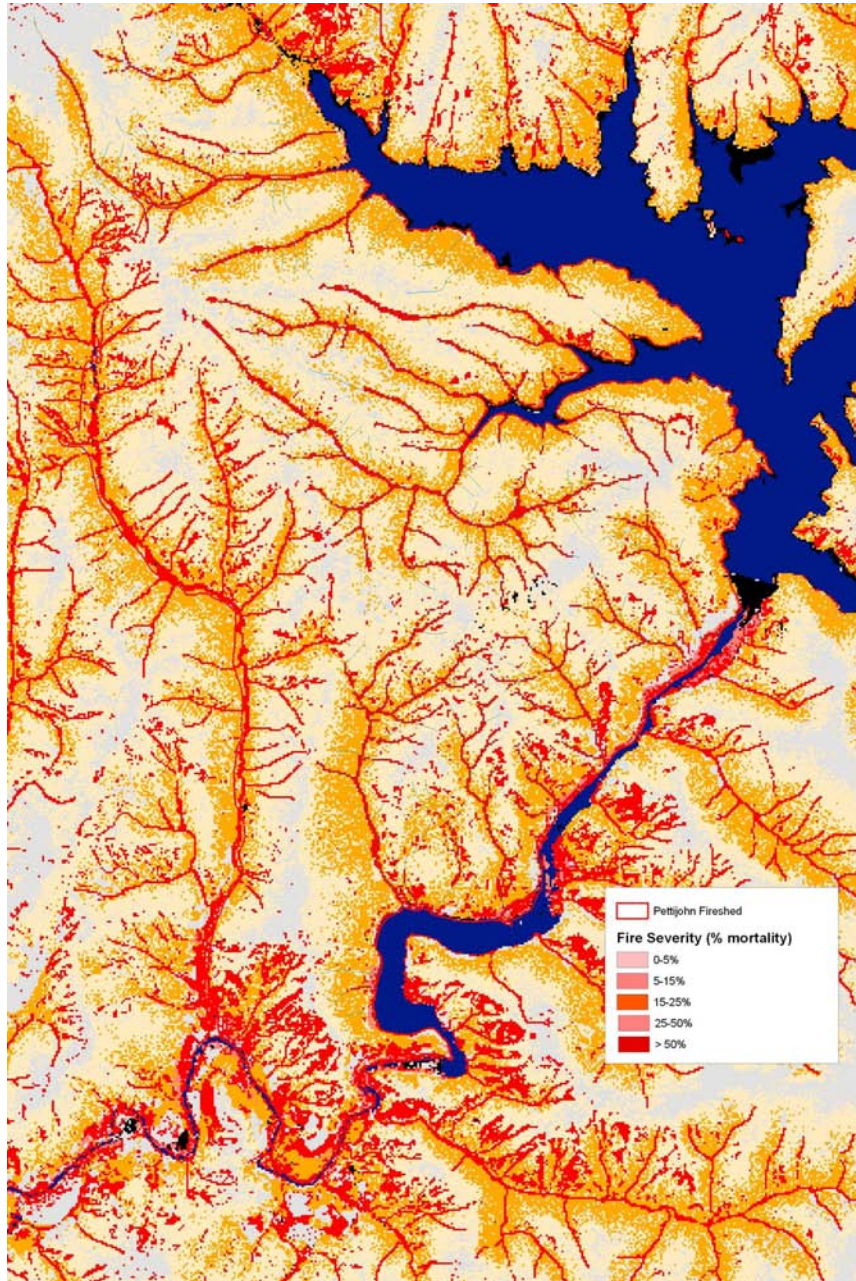


# Fire Risk Modeling

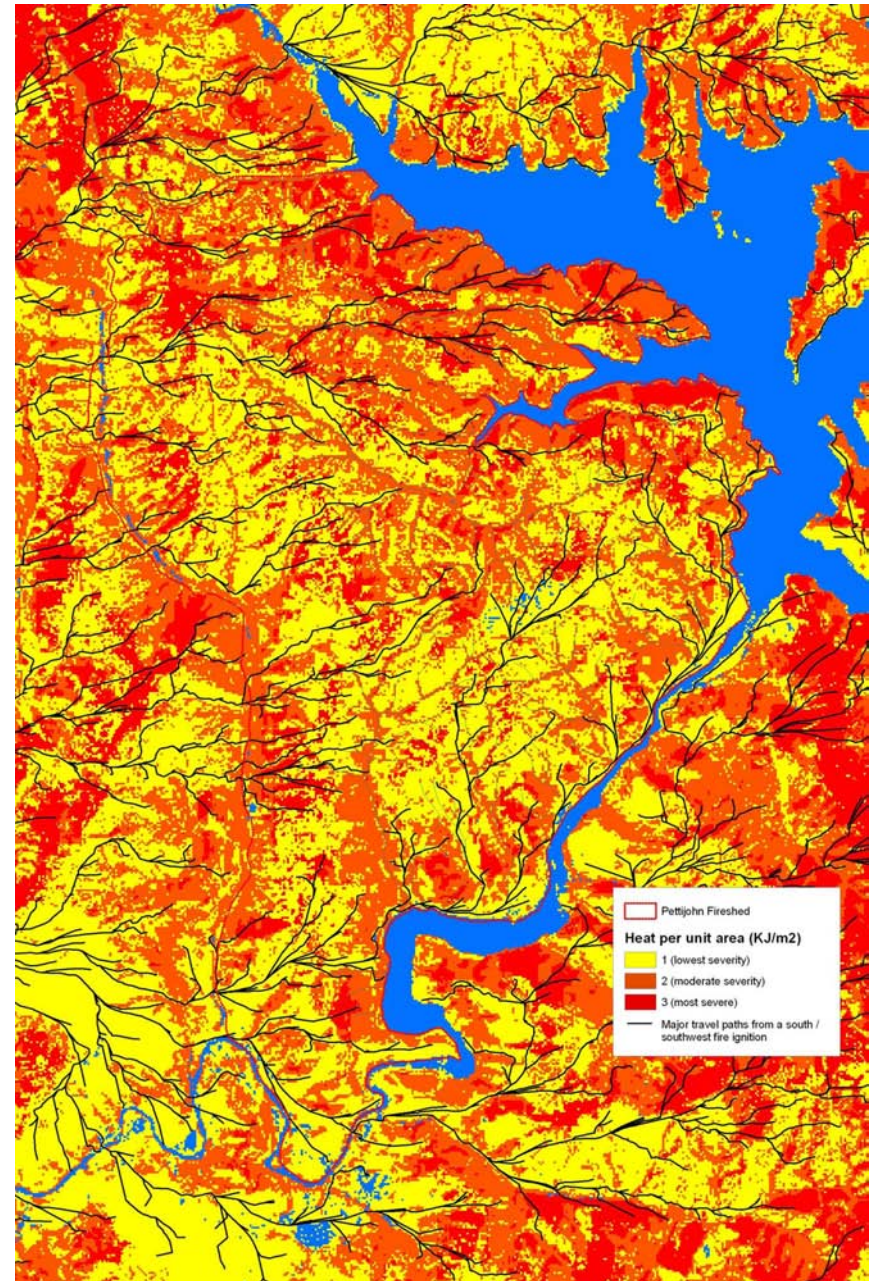




# Fire Severity



# Crown Fire Risk

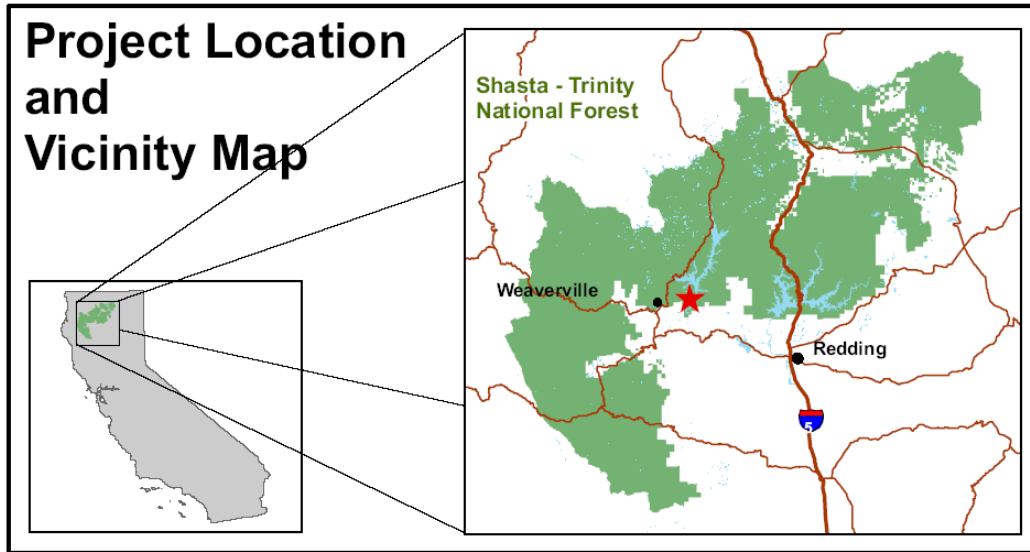




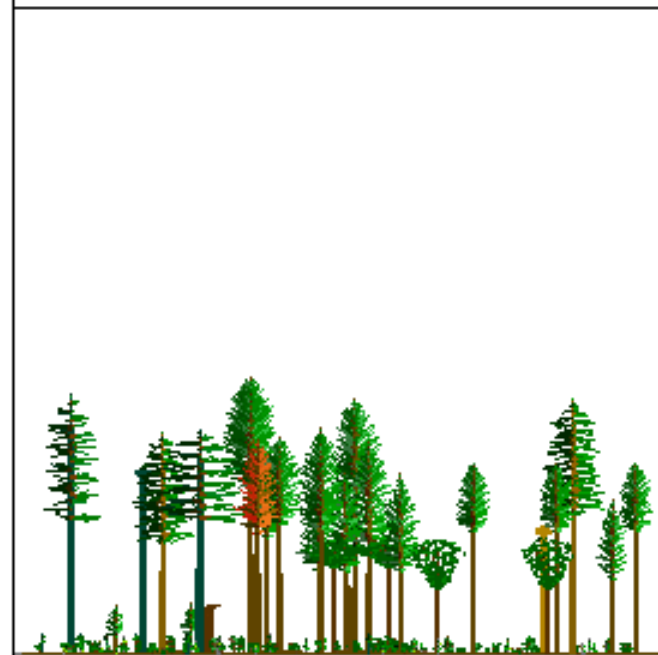
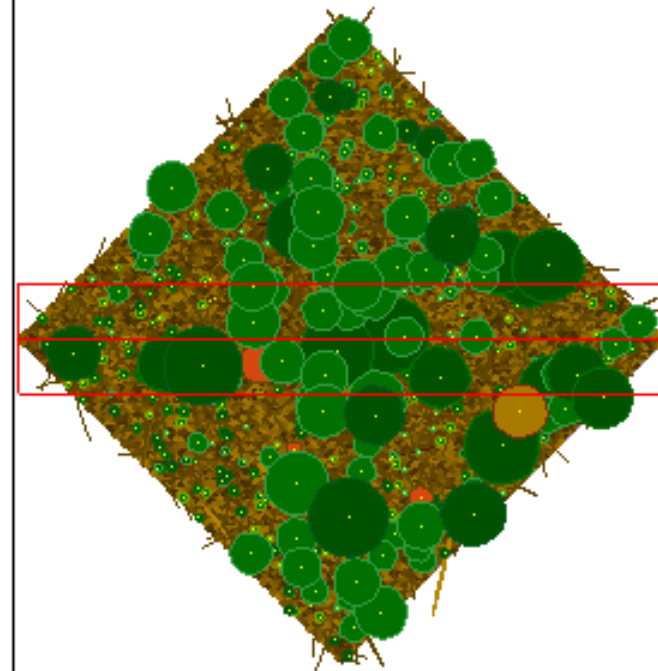
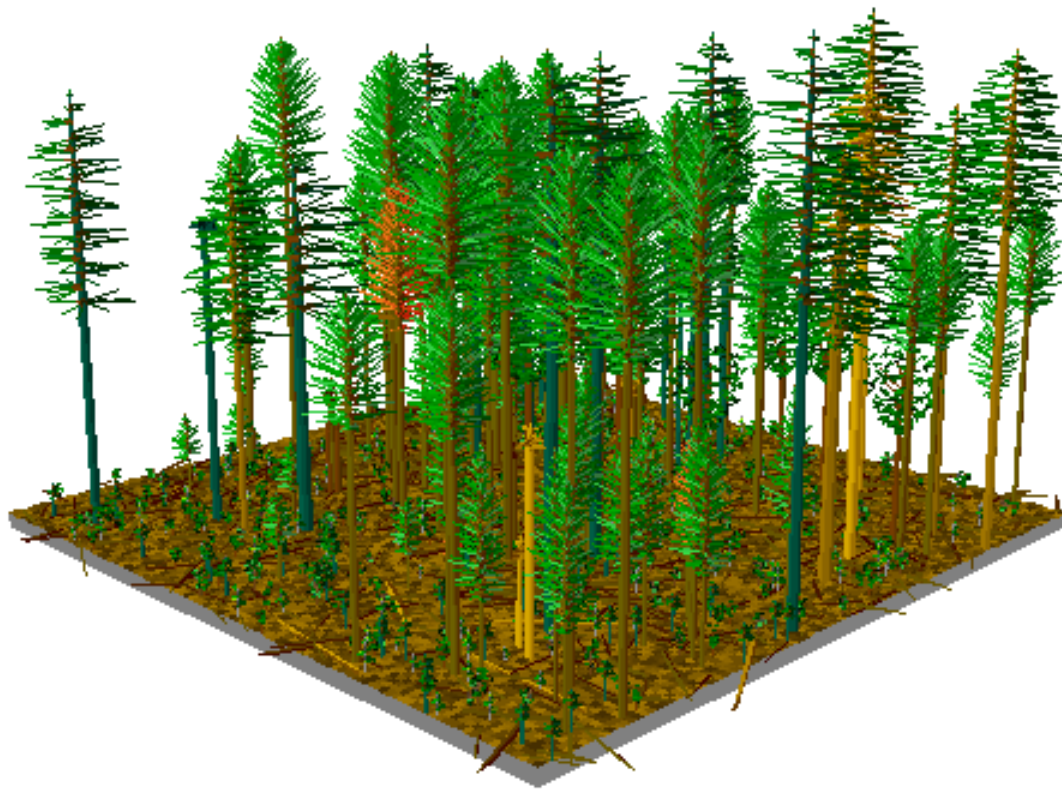
# Shasta - Trinity National Forest Pettijohn EIS



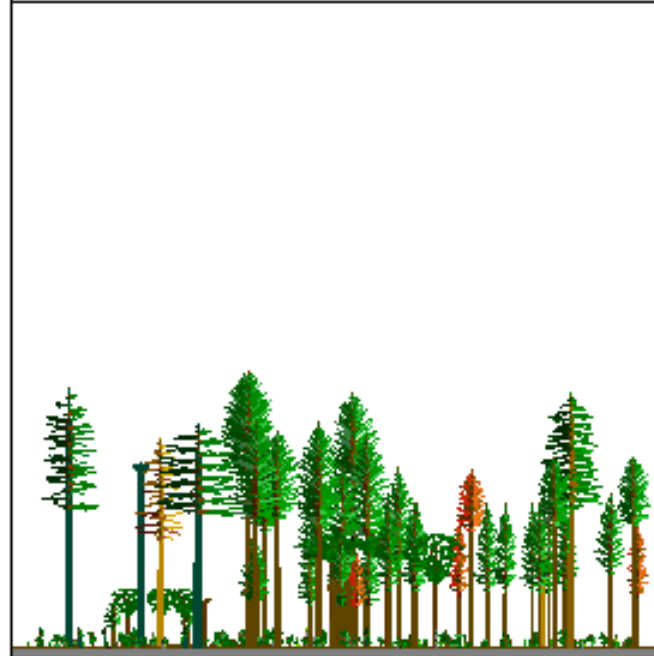
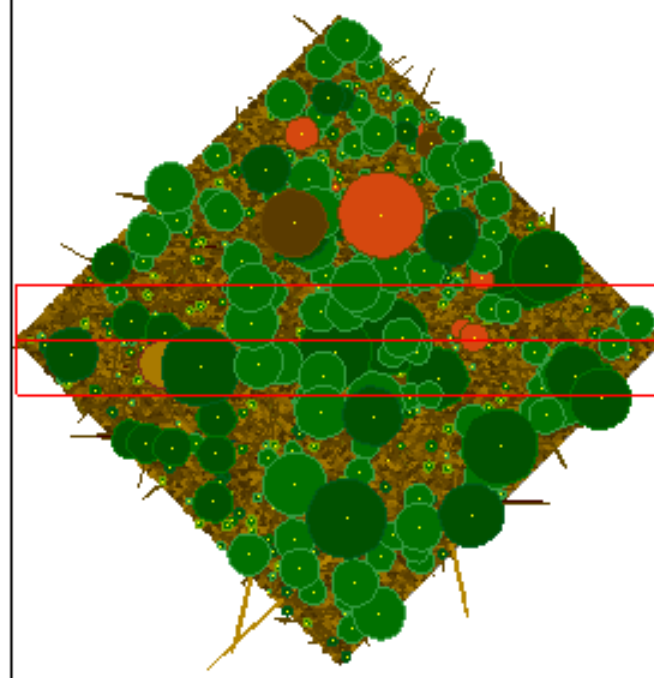
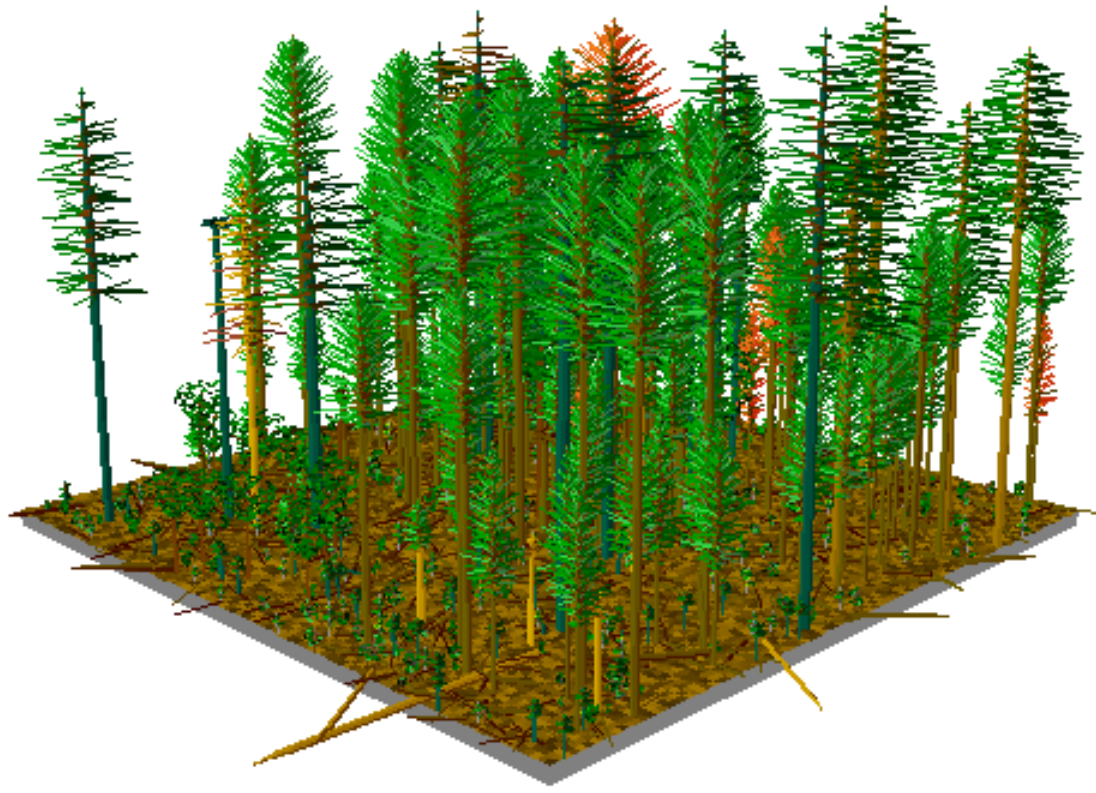
## Stand Response to Treatments



The stand was thinned from below to a 50% canopy cover.

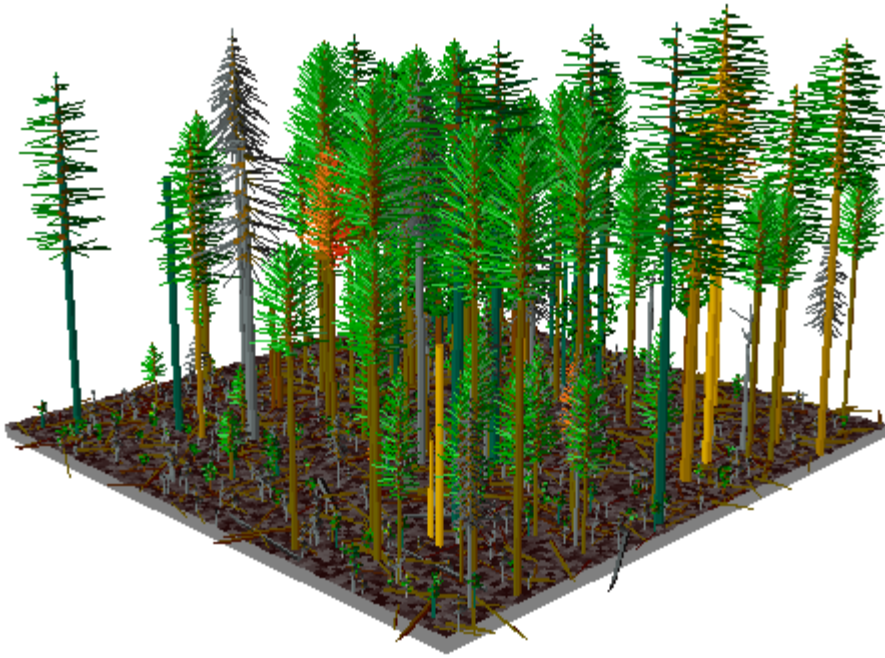


We also tracked the same stand without treatment.



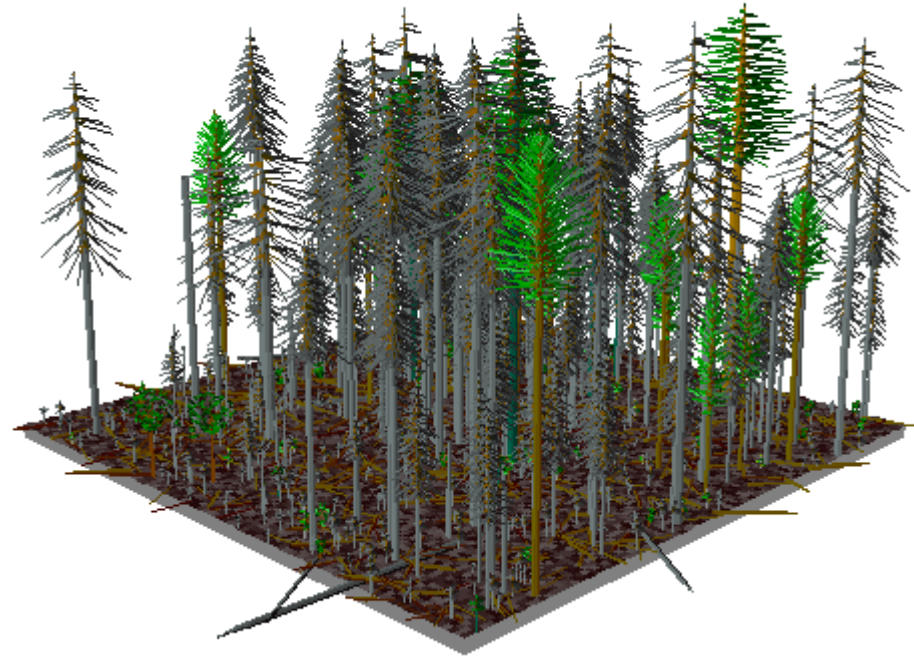


**Both stands received the same fire in 2018.**



< Treated Stand

Untreated Stand >



# The treated stand post-fire.

