- Management Objectives
- ♦ Fuel Reduction Treatment Types
- ♦ Prioritizing Treatments
- ♦ Treatment Effectiveness

- Placement of Treatments

♦ Challenges to Fuels Management

- ♦ Treatment Outcomes

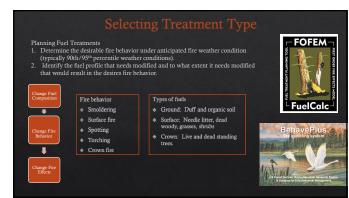
Primary Objectives of Fuels Management: Modify live and dead fuels to decrease fire behavior of potential wildfires

1. Minimize impacts to protect values of concern 2. Make wildfire response safer

Many fuel treatments meet other forest objectives (wildlife habitat, carbon storage, biodiversity, forest health).



-Maril



# Fuel Hazard

- Surface fuel loadings
- Ladder Fuels balsam fuel component

Spruce Budworm Impacts

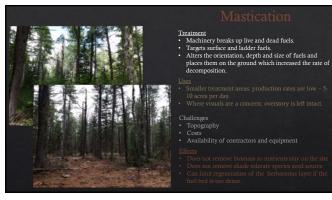
Canopy Fuel



# **Fuel Reduction Treatment Types**

- Harvesting
- ♦ Mastication
- Piling and Burning
- Prescribed Fire

Fuel treatments are most effective when multiple strategies are combined to disrupt the potential for a wildfire to spread and intensify.



Treatment

Targets ladder fuels
and larger surface
fuels.
Fuels are cut by hand with chainsaws and piles then burned after fuels have cured.



workload. • Cost/acre is high. 11/ 白藤川石

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 Treatment

 Removes surface and ladder fuels.

 Removes lower branches on overstory trees.

 Alters fuel depth, orientation and

loading.



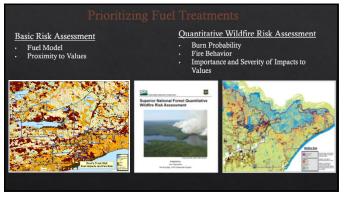
Challenges - Available burn windows - Availability of resources to implement - Risk associated with proximity of values

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Sector.



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### **Treatment** Placement

### Landscape

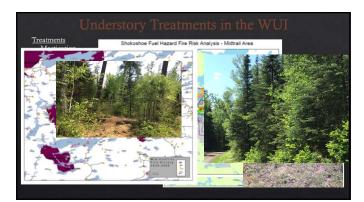
Treatment of vegetation in the immediate zone around infrastructure is the most important factor in minimizing damage during a fire event.





Defensible Space





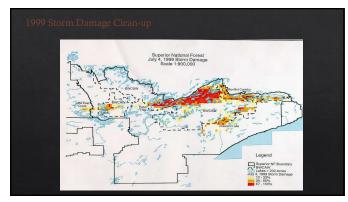
## Prescribed Fire after Understory Treatments

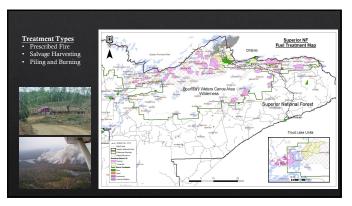
- Used where there is a desire to reduce fuel loadings in forest types that historically burned with low to moderate intensity (red and white pine stands).
- Because stands are so severely departed from natural conditions, multiple treatments are required to meet objectives and minimize impacts.
- Reduces mortality to overstory
- May require multiple treatments to achieve fuel reduction objectives
- Meets other forest objectives such as forest health, restoration, site preparation.











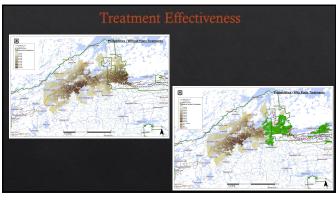
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### andscape Prescribed Fire

- Primarily used in wilderness and inaccessible areas.
- Natural barriers as containment lines
- Aerial ignition
- Fall burn window
- Cost effective

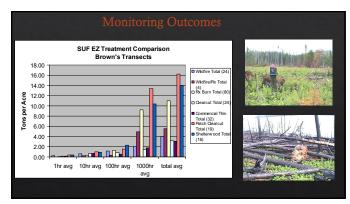






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