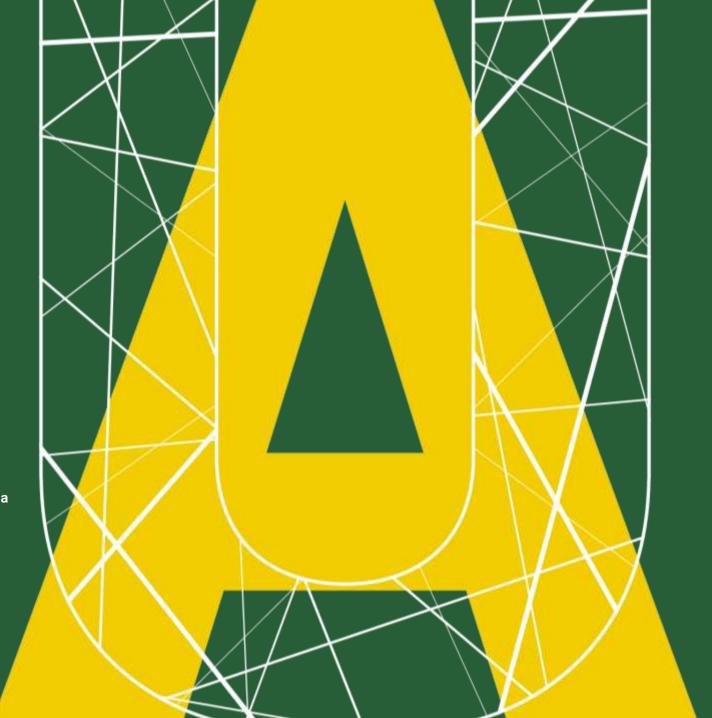
Effects of vegetation management on leaf area index (LAI) and drought tolerance in a regenerating boreal mixedwood

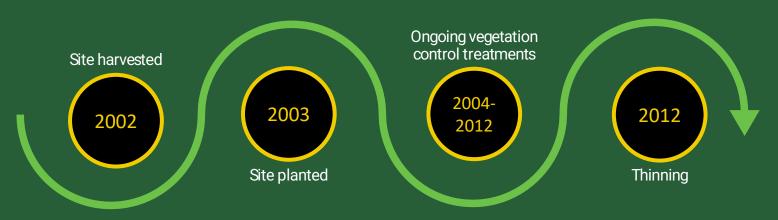
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Treatments & Methods



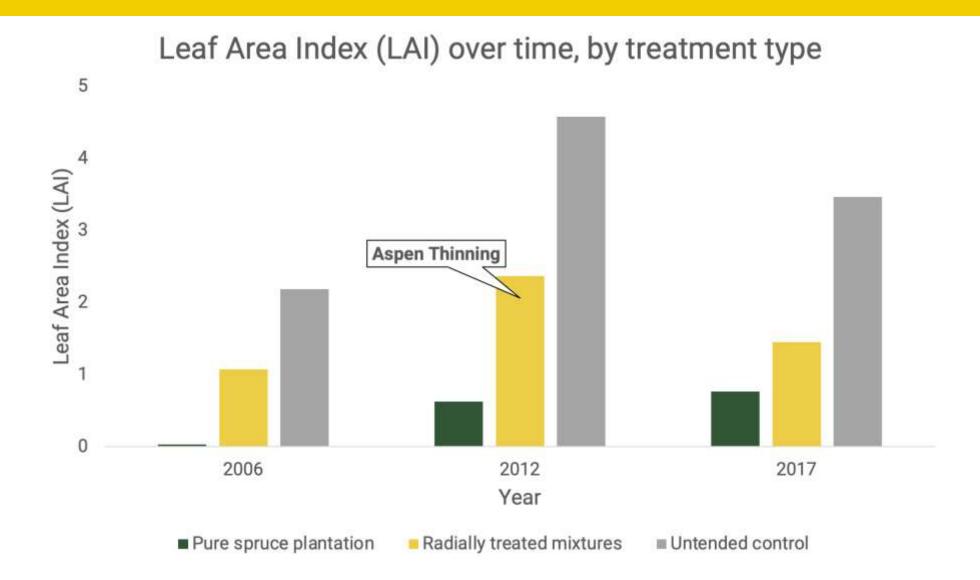


- Examine the Leaf Area Index (LAI) and soil moisture among treatments.
 - ☐ Measured throughout the 2023 growing season
- ➤ White spruce & Aspen core samples will be used to explain site-specific drought responses.
 - > To be collected in Fall 2023
- Analyze past data from the 18 microclimate data loggers on the site.
 - > Installed August 2020
- > Drought tolerance will be explained through soil moisture, LAI, climate data, and δ13C analysis of tree cores.

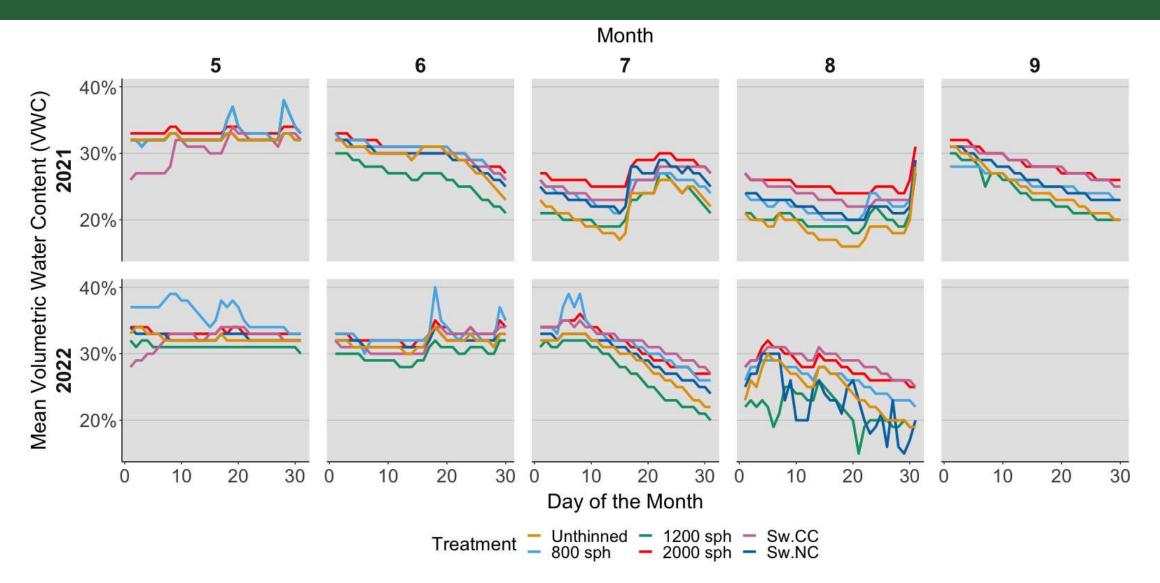




Preliminary Results: LAI



Preliminary Results: Soil Water



Next steps & conclusions

- The findings of this study will provide valuable insights for forest managers, enhancing their comprehension of LAI dynamics and drought tolerance in the boreal mixedwood forests of Alberta's lower foothills region.
- Continual field sampling and data analysis are being conducted to unveil any notable distinctions in the measured variables across different treatments.







Thank you!



