

# Final Report

22.93 UMaine INTERN The Effect of Common Field Merchandizing Methodologies on Estimates of Sawlog Volume

Aaron Weiskittel, University of Maine

Ryan Smith, University of Maine



# Justification

In Maine, a variety of field inventory methods are used for predicting sawlog volume and estimating product ratios in hardwood and mixed hardwood stands.

When no method is used FVS defaults are often accepted.

- The results from these inventories effect:
  - Long-term strategic planning
  - Short-term harvest planning
  - Appraisals and land transactions
  - Taxation



# Methods

## Methodologies Tested

Form and Risk Assessment

Stick Cruising

Acceptable Sawlog Grade (ASG)

Merchantable Stopper Heights

Forest Vegetation Simulator (NE)



# Form and Risk

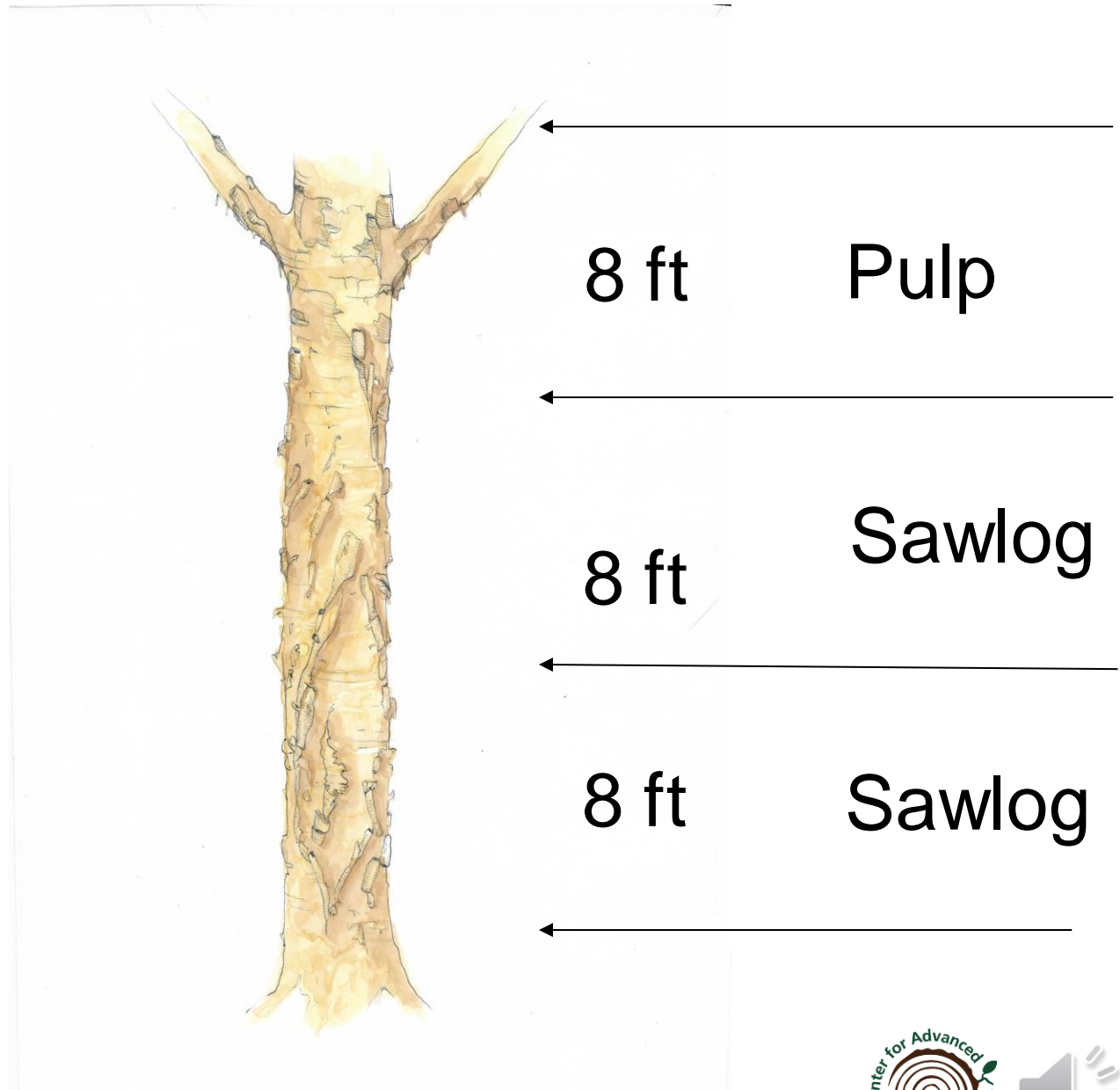


Form Class: 1

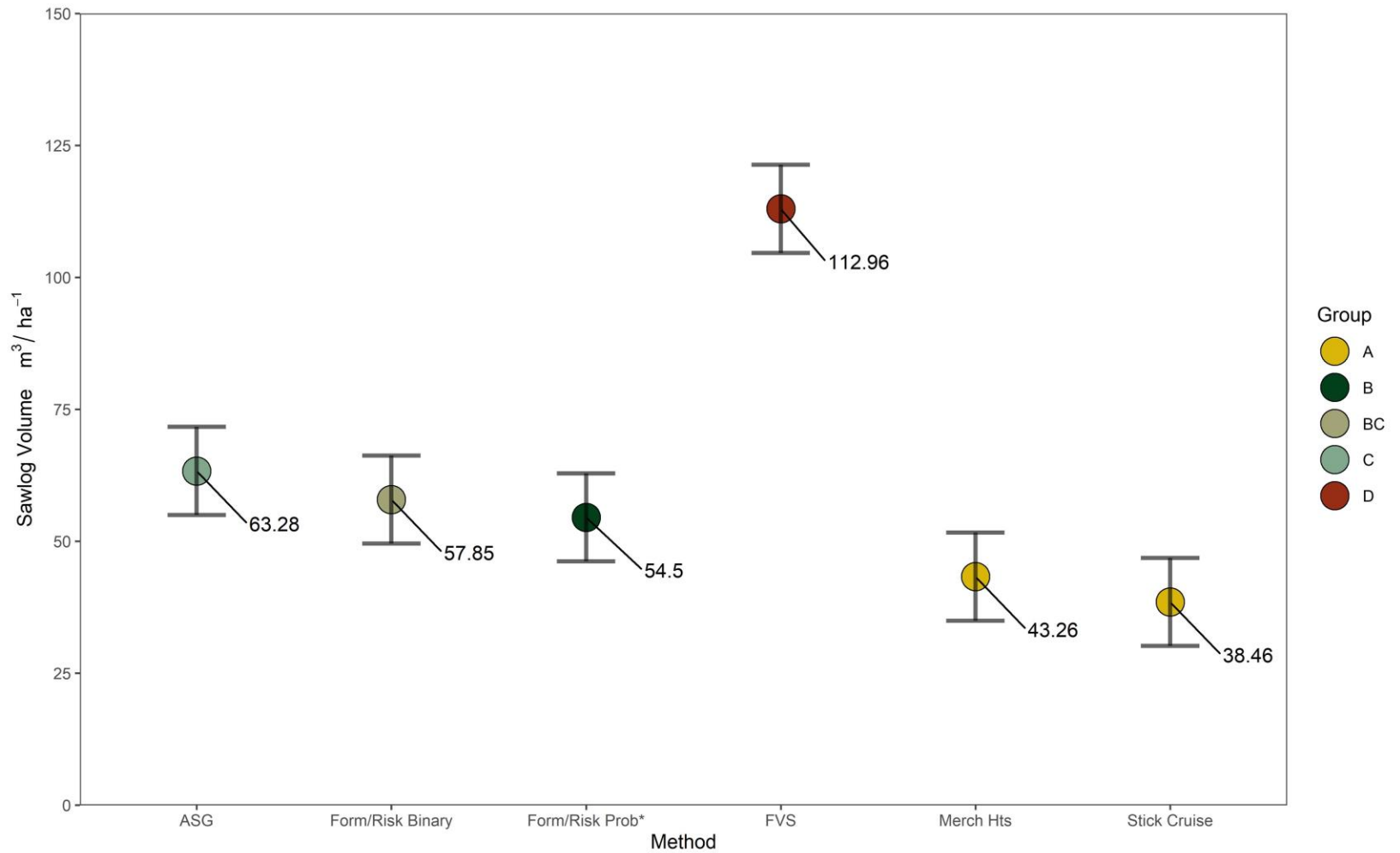
Risk Class: 1



# Stick Cruising



# Major Findings



# Deliverables

**Skills I was able to develop thanks to the INTERN grant and CAFS funding:**

R Shiny

Woodstock Modeling

Landscape Level Planning

**Products being developed thanks to INTERN funding:**

Form and Risk Field Guide



Thank you to CAFS  
Aaron Weiskittel  
Ian Prior  
Seven Island Lands Company

