Spa Analysis Flowchart

Key

User Action

Detail Note

Internal Process

User Decision

Project Area Selected (Arc Pro)

Data Downloaded

Upload Project Data to Shiny Application

Run Preliminary Simulation

Review Initial Summary

Run Final Simulation?

Yes

No

Save Reports

User Inputs

Pop Up Data Entry

Set Minimum Stand Stocking

Harvest will not begin in matrix until minimum stocking reached, and will never cut more than minimum stocking.

AAC and Harvest Strategy

Percent of Growth Harvested and Maximize Period 1 or Even Flow?

Enter Non-Harvest Expenses

Pop up box to enter a value, select expense or revenue, enter year of first occurrence, and frequency (Single or Annual Occurrence).

Enter Non-Harvest Revenue

Enter Sim Length and Exit Strategy

LEV or NPV for value of standing timber in final year of simulation.

Data entry that cannot be automated

Harvest Model

Model Processes

Run Growth Model / Annualize AAC

Prorate SW and HW Harvest to Product Classes

Calculate Annual Harvest Revenue and Ending Standing Value

Monte Carlo Analysis

Growth Model, Annual Harvest, Product Volumes, and NPV Analysis

Report and Excel Data Outputs

Reporting

PDF Report with Summary Tables and Figures

Monte Carlo NPV Values

Stocking Data

Land base Summary