

Enhancing Growth and Yield Data Collection Methods Using Airborne Image Technology

Lead by: Mike Bokalo

Theme: Productivity

Status: Continuing

Start: 2014

Participants

- Mike Bokalo
- Phil Comeau
- Kirk Johnson

Background

This project will assess the use of high-resolution multispectral stereo imagery (NIR, R, G, B) to collect tree-level and plot-level forest inventory data.

Objectives

This project proposes to: 1) investigate whether the high resolution image technology has reached a point in development where it can be used to collect tsp and psp data while reducing the need for costly field sampling programs; and 2) to further explore the possibility of automation of these technologies to further enhance efficiency. Evaluate the accuracy and precision of forest inventory data collected from high-resolution multispectral imagery by comparing photo-based and field-based measurements across a range of stand types. Develop protocols and guidelines for collecting forest inventory data from high-resolution multispectral imagery. Identify the uses and limitations of forest inventory data collected from high-resolution multispectral imagery.

Key Results

None. Research and analysis are ongoing.