

# The Benefits of CanopyData™

## FACT SHEET

### WHAT IS CANOPYDATA™?

CanopyData™ is a unique suite of proprietary analysis tools that produces a variety of data products utilizing 3D datasets, such as:

- Data derived from stereo photography using Semi-Global Matching (traditional CanopyData)
- LiDAR acquisitions
- Point clouds from existing data sets, such as National Agriculture Imagery Program (NAIP) imagery

Tailored to your specific needs, these tools and their deliverables add another level of detail to aid in everything from day-to-day decision making to long-term strategic planning.

### CANOPYDATA USES

#### ▣ Height Everywhere

CanopyData provides:

- A cost-effective means to collect forest height on the entire land base
- Height information for every four meters of the entire land base, supplementing field collected heights

#### ▣ Inventory Improvement

CanopyData provides inventory cost savings under certain plans and conditions by assisting with determination and classification of strata. We encourage you to inquire how this approach might be applied to meet your needs.

#### ▣ Where Is the Wood?

CanopyData can reduce search time for harvest volumes:

- Field foresters are often given harvest quotas based on forest scheduling models and a stand map. Significant time is lost by visiting stands that have volumes too low to harvest. CanopyData helps identify and prioritize the stands to investigate, reducing time and cost.
- CanopyData can show unmapped pockets of wood on large land bases and aid in layout planning.

#### ▣ Looking at Forest Structure

CanopyData can be used to examine the spatial distribution of some habitat indicators and critical landscape elements, such as travel corridors and reserve islands.

#### ▣ Refining the Average

CanopyData helps address the averaging issues introduced in traditional inventory and forest covertype mapping processes:

- Confused (High Variation) Classes—Because of high variation levels, certain covertype classes are problematic. CanopyData can help split these classes in meaningful ways, leading to a better understanding of your volume and its location.
- Gaps and Pockets—CanopyData identifies areas of variation within a stand (a gap with no wood or a pocket with higher than average volume) which can impact inventory estimates, allowing these areas to be included or excluded as needed by the analysis at hand.

Mary McDonald  
GIS Project Manager  
207 817 5446  
mary.mcdonald@sewall.com

 **SEWALL**  
JAMES W. SEWALL COMPANY / Since 1880