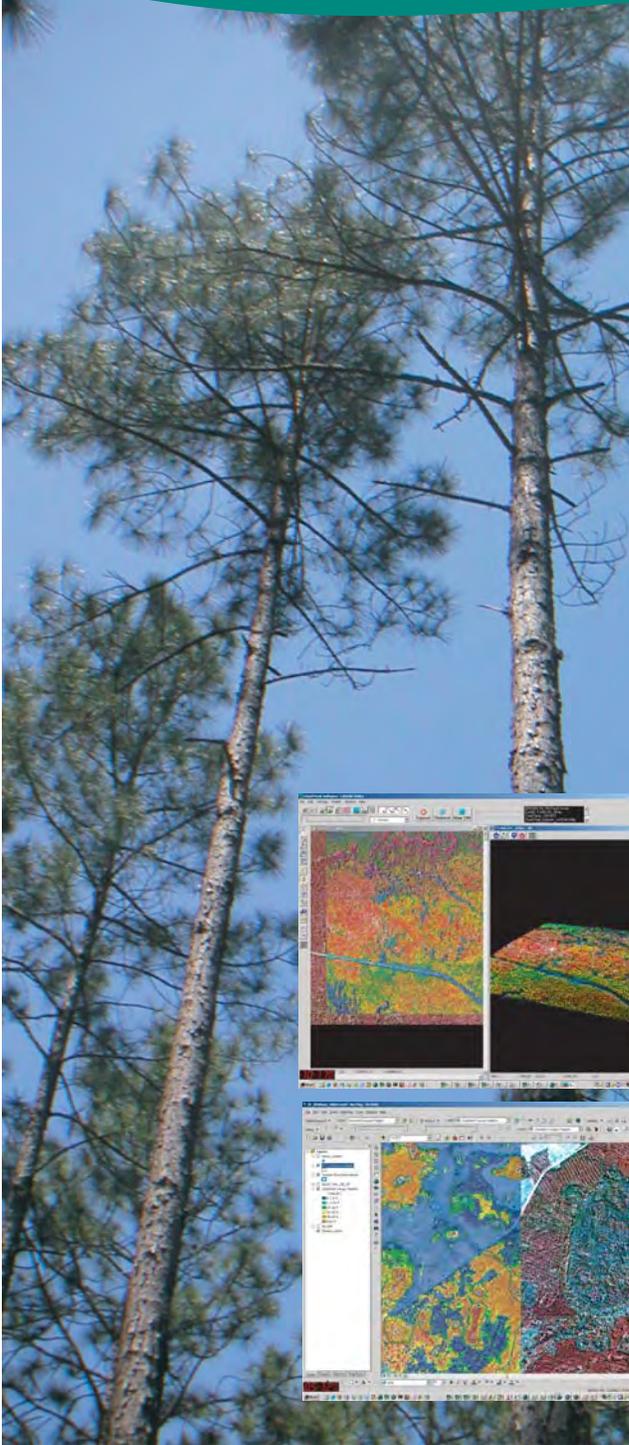


CanopyData™



ADDING VALUE TO INVENTORY

In recent years, forest landowners have become increasingly interested in LiDAR as a means to enhance information on their forest stands. The use of LiDAR, which captures detailed data on tree heights and canopy closure, adds value to forest inventory and management planning. The high cost of acquisition, however, places the technology out of reach to many owners and managers, who need accurate data and at lower cost.

WHAT IS CANOPYDATA™ ?

CanopyData™ provides forest landowners with detailed information on tree stand heights and canopy closure at a fraction of the cost of LiDAR. Derived from a photogrammetric process, which automatically calculates elevations from aerial photography stereo pairs, the first step in the CanopyData process is to generate a point cloud. This data set is then processed using CanopyData algorithms to create a canopy height model (grid of tree height values) and map polygons with canopy height and closure attributes. CanopyData is a relatively inexpensive addition to an orthophoto project, and the deliverables are easily integrated with existing base and covertype mapping, inventory systems, and GIS. The solution is now assisting foresters and land managers with inventory and land management functions.

BENEFITS OF CANOPYDATA

☑ Improves stratification

Adds biologically meaningful data to stand mapping and stratification, improving inventory control and forecasting

☑ Substitutes for field height measurements

Lowers costs on higher-cost measurements (pre-commercial stands)

☑ Supplements existing inventory data

Provides within-stand height/closure data for sub-stand prescriptions and harvest allocations

EXPLORE CANOPYDATA

Sewall recommends that our clients assess CanopyData, exploring how the product will work for their organizations, before applying on a large scale. We work with clients to create a pilot area, providing them with a representative sample data set at a modest cost.

For additional information on how CanopyData can meet your needs and to arrange for a pilot, please contact Wil Mercier, at 207 827 4456; wil.mercier@sewall.com



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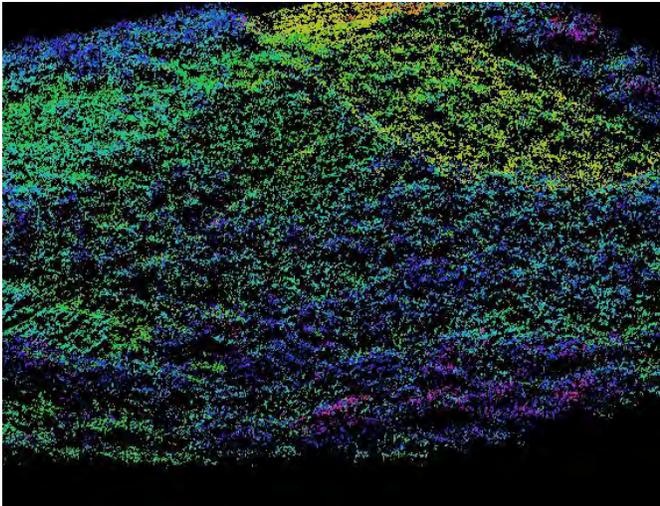
Offices nationwide

800 648 4202

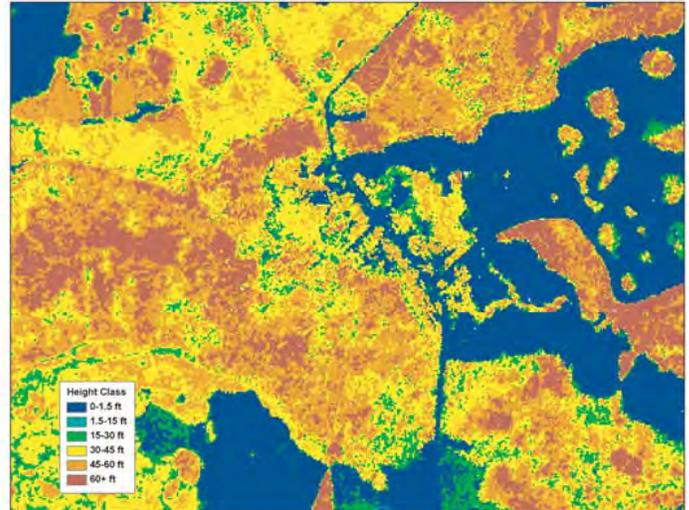
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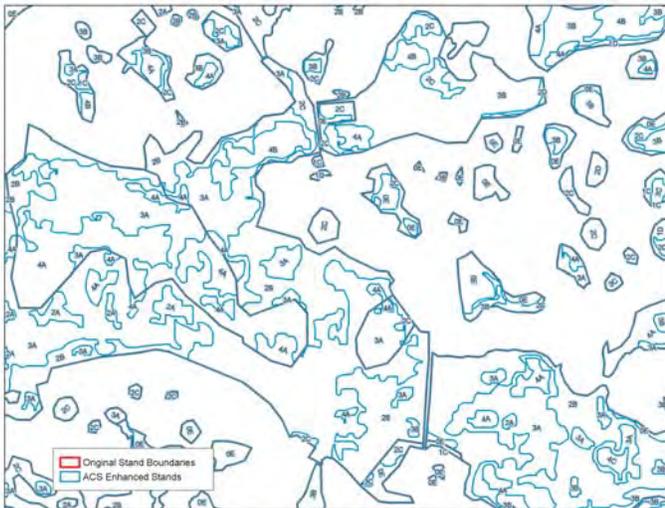
CANOPYDATA DELIVERABLES



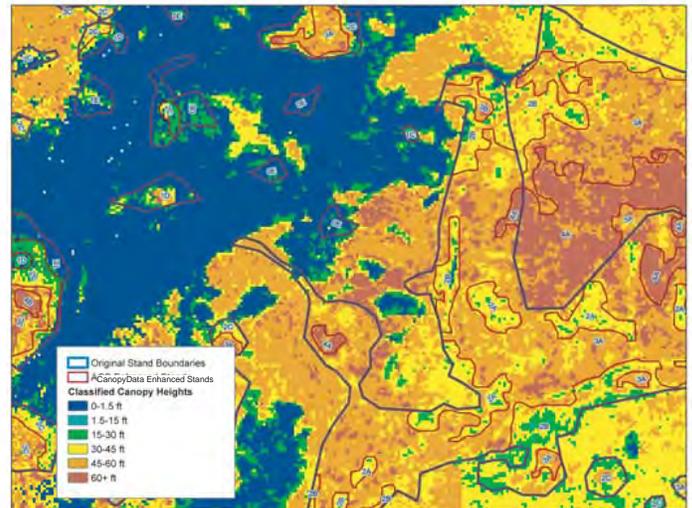
Point cloud generated from image matching



Grid of tree-height values



Polygons derived from height and closure grids using client-specific classes



Grid of tree heights with new stand boundaries dividing original stands

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