



Stack & Forest Inventory Measurement App

SMARTPHONE – POINT, CLICK, RESULTS

Trestima's award winning smartphone solutions offer game changing results for image recognition based forest inventory and log stack measurement. Customers in 5 continents are instantly capturing and producing log stack volumes and forest inventory reports.

FOREST INVENTORY MEASUREMENT

Just point and click to quickly capture forest attributes including:

- ▶ Basal area
- ▶ Stems
- ▶ DBH and height
- ▶ Area
- ▶ Species distribution
- ▶ Breast height diameter distribution
- ▶ Soil type

Quality statistics (branch level and trunk form) can be automatically assessed. Check results while in the field or online.

The Inventory app can be used in:

- ▶ Forest planning
- ▶ Updating forest plans during harvesting
- ▶ Tree stand price evaluation

The Inventory App is easy to use. Follow the three step process:



Key Benefits

- ▶ Forest measurement results immediately using your smartphone camera
- ▶ Your data is safe and stored automatically to the cloud
- ▶ Calculation results and accuracy can be followed in real time from the mobile device during the measuring session.
- ▶ Objective results - person carrying out the measuring task has little impact on the final result
- ▶ Accurate results - less than 5% error for total basal area can be achieved
- ▶ Fast measurement - average measuring speed is under five minutes per hectare
- ▶ Documented measurement - samples with the position data are stored for future use



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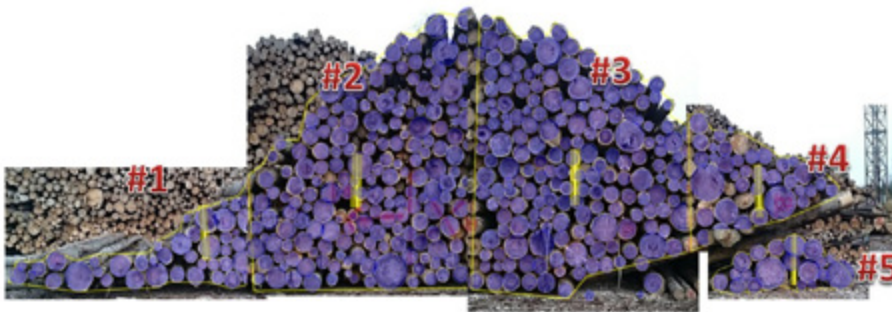
LOG STACK MEASUREMENT

Just point and click to easily calculate the volume and diameter distribution of any wood pile. The Log Stack app can be used in:

- ▶ Mills, log yards, logging tracts
- ▶ Terminals
- ▶ Truck loads
- ▶ Roadside log stacks

The Stack app is easy to use. Follow the four step process:

1. Capture an image of the log stack. The Trestima Yardstick needs to be visible in the picture
2. Input the outer boundary of the log stack. This is to indicate the area where log heads are searched
3. Indicate the end points of the yardstick
4. Type in the average length of the logs in the stack



Key Benefits

- ▶ Immediately calculates the volume and diameter distribution of any wood pile
- ▶ Log piles that don't fit into one picture are simply measured with several pictures
- ▶ The app uses surface area, length and generated coefficient factor when determining actual volumes
- ▶ Detailed results are available on the device and cloud including:
 - Total volume of the stack - productivity can be as high as 100m³ per minute
 - Diameter distribution shows how many logs of certain diameter there are in the pile
 - Total amount of logs calculates the amount of logs in the pile
 - Coefficient factor - (CF) is automatically calculated from several variables
 - Pile dimensions - Each picture can be inspected separately to determine height and width of the pile in different locations
 - GEO-tagged pictures easy to map and trace results with the actual pile

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