

Session 3– Model Calibration or Localization

Slide 1

Overview

Approaches

Summary

ORGANON Calibration

- Height Calibration
 - Pass 1 – Predicts heights for all trees having an observed or measured height. Compare Predicted Height with Observed.
 - Calibration = $f(\text{Predicted} / \text{Observed})$
 - If different from 1.0 (statistical test basis), than use calibration. If not...don't.
 - Max calibration 2.0, min calibration 0.5
 - A value of 1.4 means that the sample heights are 1.4 times the height predicted by the default equations.
 - Pass 2 – predict heights of all remaining trees using default equations, adjusted by Calibration Factor.

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ORGANON Calibration

- Height
- Height Growth

```
HEIGHT AND HEIGHT CALIBRATION EXAMPLE

*** please wait - determining height calibration value

DOUGLAS FIR ht generation calibration value      = .70  ( 18)

*** please wait --- missing heights are being calculated
1 tree height  predicted from 18 entered heights

<CR> to continue
```

HT's
entered

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ORGANON Calibration

- Crown Ratio

CROWN RATIO CALIBRATION EXAMPLE

*** please wait - determining crown ratio calibration value

CR's
entered

DOUGLAS FIR crown ratio calibration value = 1.23 (19)

*** please wait - missing crown ratios are being calculated
0 crown ratios predicted from 19 entered crown ratios

<CR> to continue

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ORGANON Calibration

- Diameter Growth
 - Radial Growth needed
 - Back date diameter with measured radial growth.
 - Grow forward
 - Now have predicted/Measured
 - Develop Calibration Ratio similar to Height

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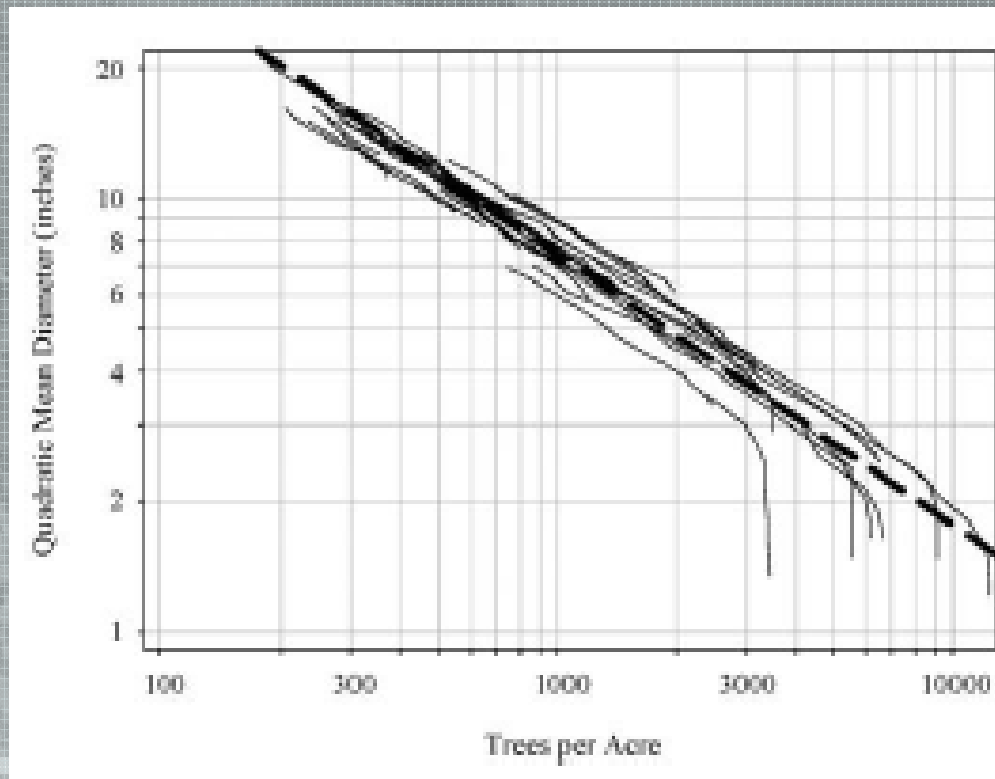
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ORGANON Calibration

- Stand Density Index Adjustment



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ORGANON Calibration

- Data Driven (excepting Max SDI adjustment)
- Selectable
- No Adjustments to Equation Forms, Parameters, or other components – calibration “multipliers” only.