"The Ultimate Timber Cruise Prescription"

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Premise

This presentation assumes that a purchaser is looking at a high volume, high value timber sale in Western Oregon or Western Washington. The timber sale is being sold lump sum, with an estimated value of \$1,000,000.

High Value West Side Timber

- Volumes run 40 to 70 MBF per acre
- Values range from \$15K to \$40K per acre
- Most timber cruises report Volume/Acre
- Sellers acres are frequently overstated

What the Buyer Starts With:

- Paper Copy or PDF file of Timber Sale Map
- Seller Lists Volumes by Species
 - Sometimes includes grade info
- Vicinity Map of how to get to timber sale
- Bid due date
- Special instructions on logging restrictions
 Cruiser needs to know this!

How to Reduce Risk:

- Two separate cruises by two cruisers
- GPS sale area to determine acreage
 - Sub-meter accurate GPS units
 - Laser Rangefinders to set offset points
- Plot grids go across variation in stand
- Cruisers get lots of tree measurements
 - Accurate heights
 - 30 Plus Measured Plots per type

Sellers Polygon:

- Seller rarely provides GPS data digitally
 Option: Scan and Reference paper Map
 Option: Print map on transparency film and overlay on computer screen. Create Shape File.
- 4. Because of high values, sellers acreage is always suspect.



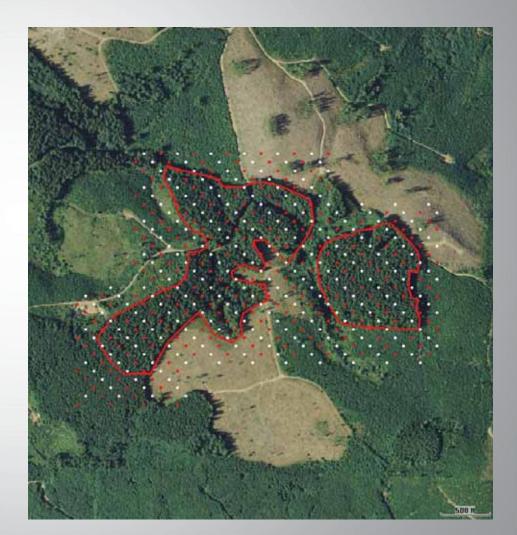
Add First Plot Grid:

- Plot grids added via ArcGIS
 Grids must
 - evenly cover the sale area
- Grids must go across variation



Add Second Plot Grid:

 Both Grids run same direction
Same Spacing between plots and plot lines
Grids alternate by cruiser



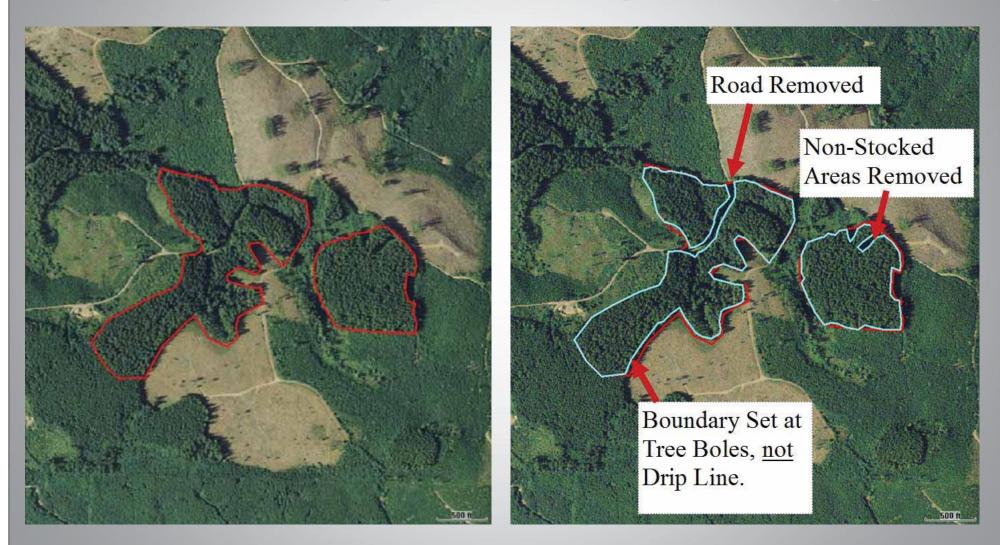
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Cruiser Sets Boundary in Field

- Cruiser sets points on boundary with Offset GPS points.
- Cruiser navigates from plot to plot with GPS unit
- GPS is On all day
- Boundary points made into polygon

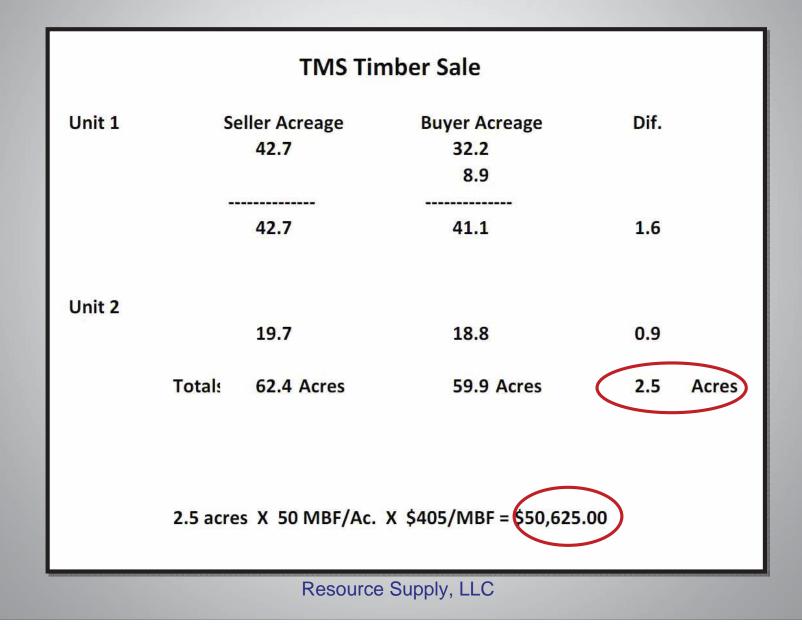


Sellers Polygon - Buyers Polygon



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Acreage Difference Seller/Buyer

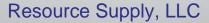


State of the Art Cruising Gear

- Sub-Meter GPS unit
 - MobileMapper 100 (GPS + GLONASS)
 - SXBlue II GPS



- TruPulse 360B Laser Rangefinder
 - Includes compass and tilt sensor
 - One shot gives Slope Distance, Azimuth, and inclination
- RD 1000 BAF Scope
- ArcPad Mobile GIS Software





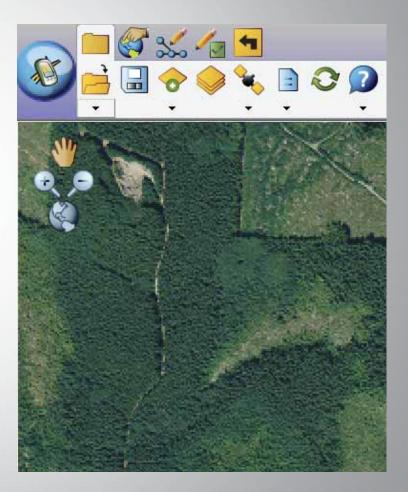


Conclusion

- Acreage errors can be very costly
- Acreage is easy to determine with GPS
- Plot Grid Placement is Critical
- Two cruises is not excessive

Thanks!

For all your Cruises, may your: •PDOPS be low •Satellites be High in the Sky •Sale Areas flat •No Brush •Tree Boles Clean & Straight



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