#### Forest Biomass Markets and Utilization in Northern

tilization in Northern Arizona

Tabi Bolton, Area Supervisor

### <u>LLCampbellGlobal</u>

a J.P.Morgan company

#### Agenda

- **1.** Presentation in 2 slides
- 2. Utilization and Value
- **3.** Future Demand
- 4. Q&A

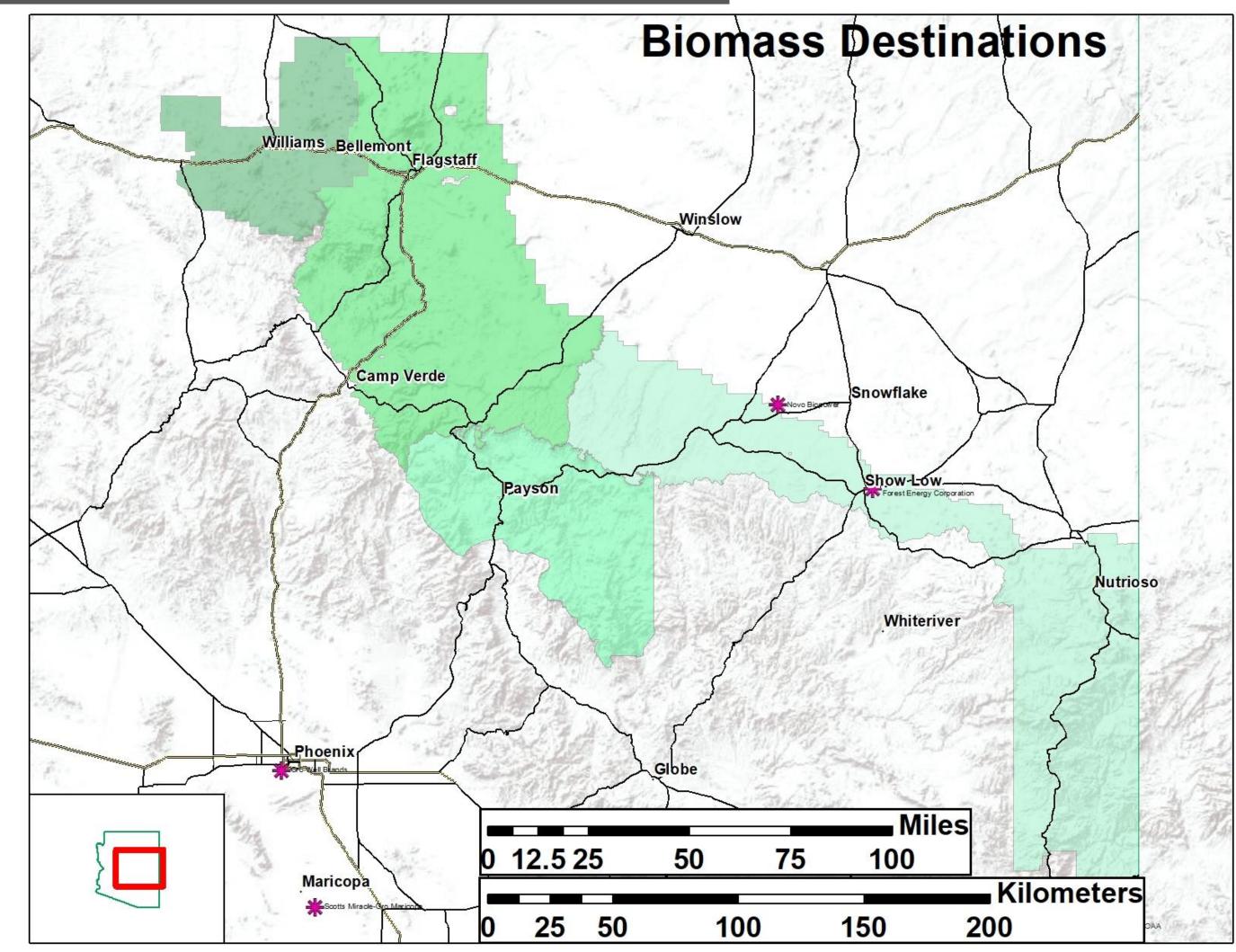




**Campbell**Glob



Slide 1 of 2





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Slide 2 of 2





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Slide 3 of 2





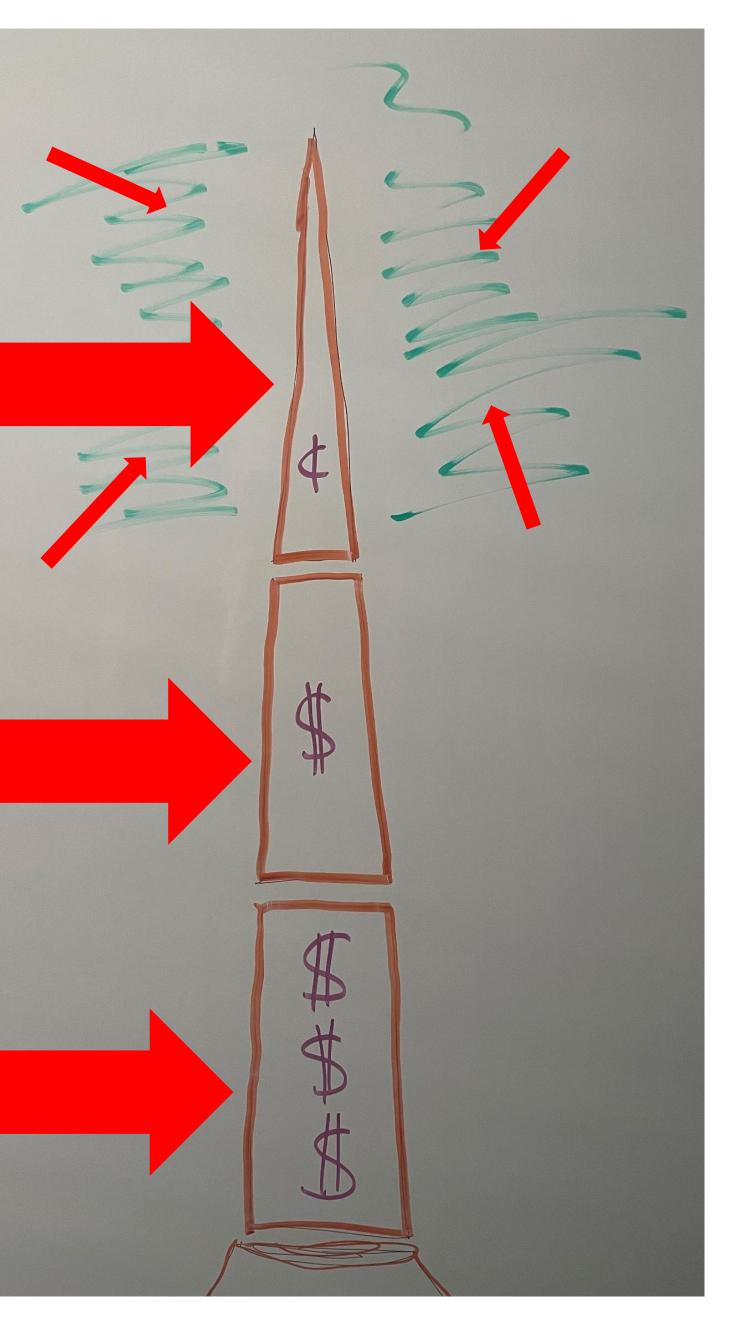
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**Classic Model** 

- Large logs have the most value \$\$\$
- Intermediate logs have some value \$
- Top wood often is "subsidized" by larger material
- Biomass remains onsite or leaves if ther are markets nearby





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#### Landings





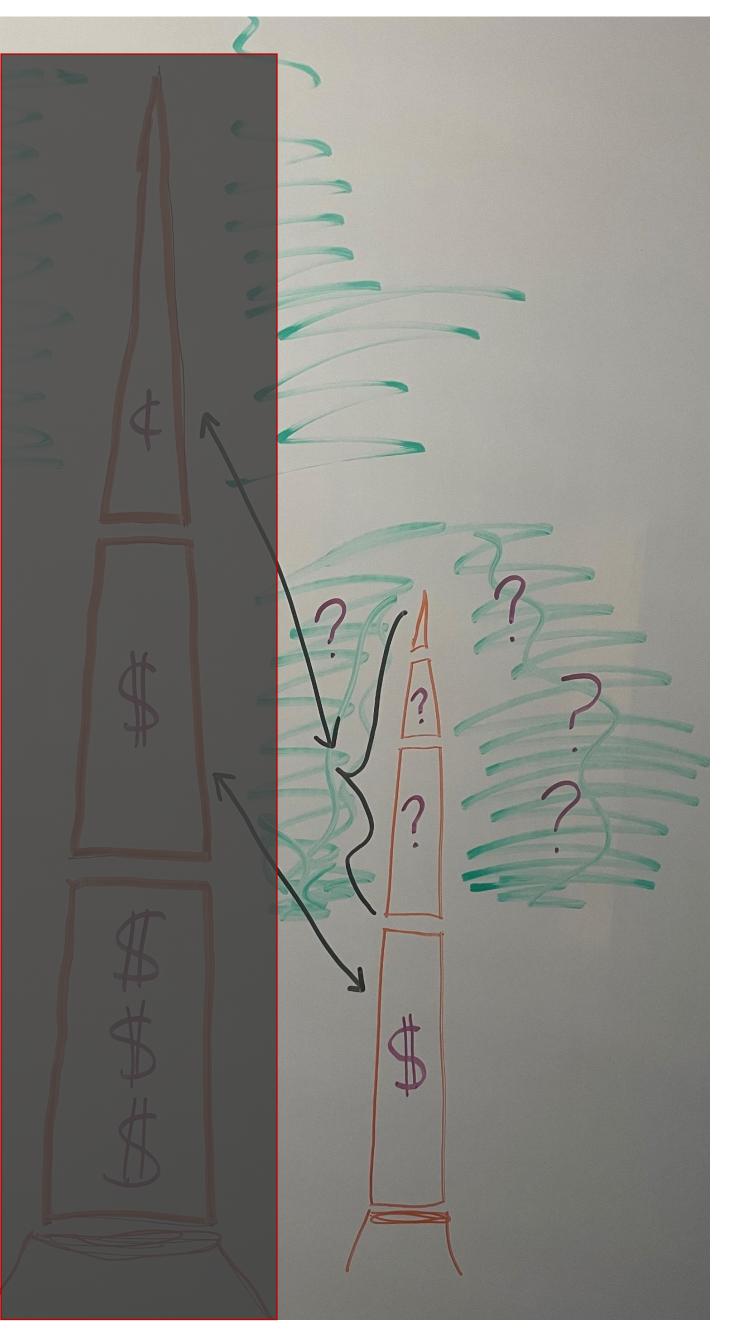
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Arizona Model

- We don't cut any "big" trees >24"
- Large logs are not move valuable





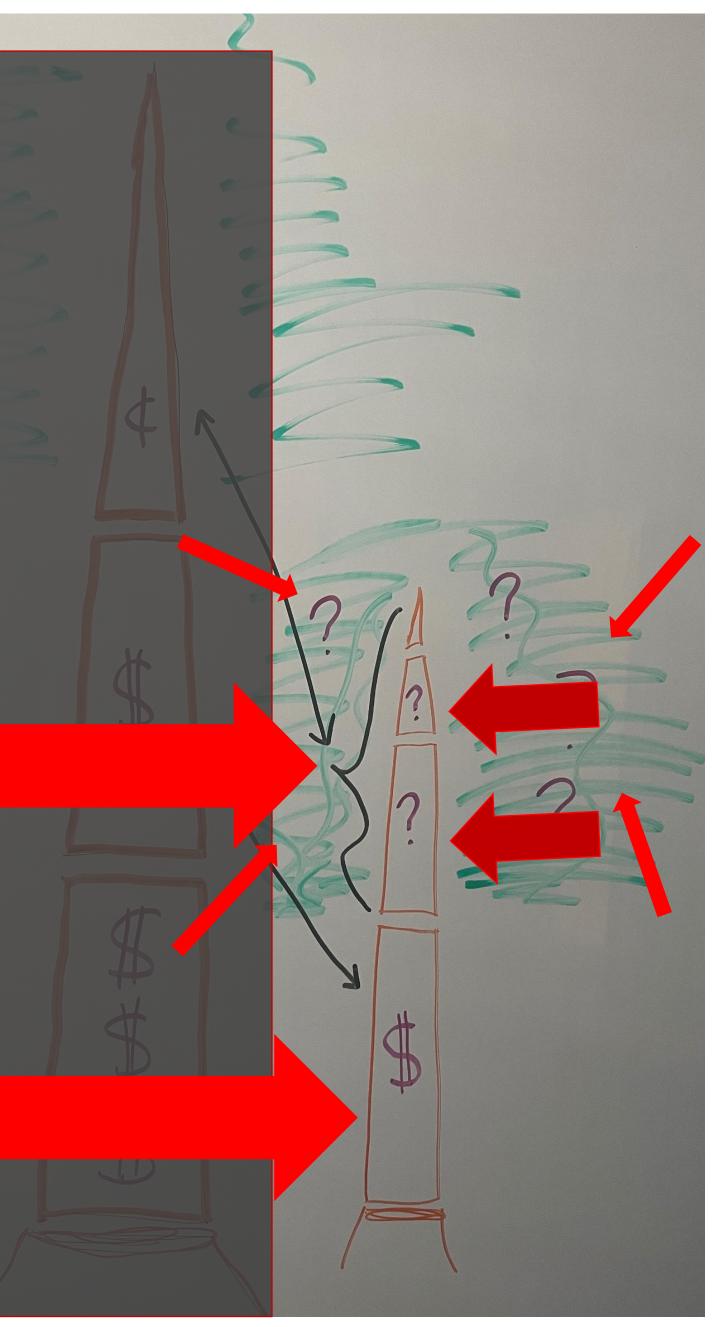


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Arizona Model

- We don't cut any "big" trees >24"
- Large logs are not move valuable
- Intermediate logs have some value \$ and are preferred by local mills
- Top wood needs to be removed to meet **Forest Service Specs**
- Biomass moves as money allows
  - Often subsidized with real dollars
  - Firewood markets can be strong





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What are we producing

- Pallets
- Pellets
- Firewood
- Landscape Material
- Biopower



VIGORO® VIGORO® 2 cu. ft. Colored Mulch

5 FOR \$10.00

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What are we producing with Biomass

- Pellets
- Firewood
- Landscape Material
- Biopower



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What are we producing with Biomass

• Erosion control





What are we producing with Biomass

- Erosion control
- Geotextiles





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## Future Demand



PERSONAL CONT

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#### **Future Demand**

External Markets

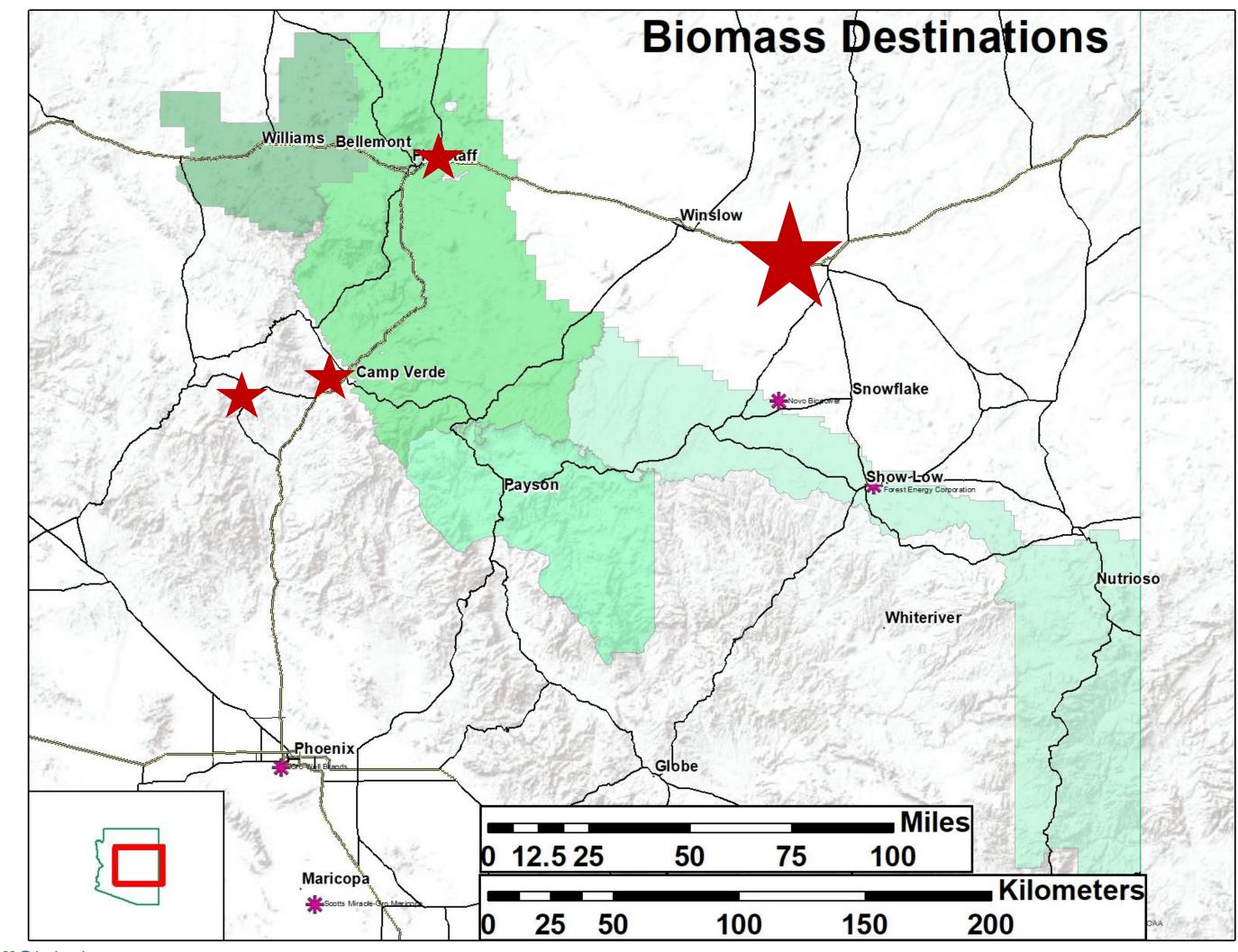




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#### **Future Demand**

#### Internal Markets





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