

# **Bamboo Production and Its Potential**

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# Today's Presentation

## Overview of bamboo as a crop

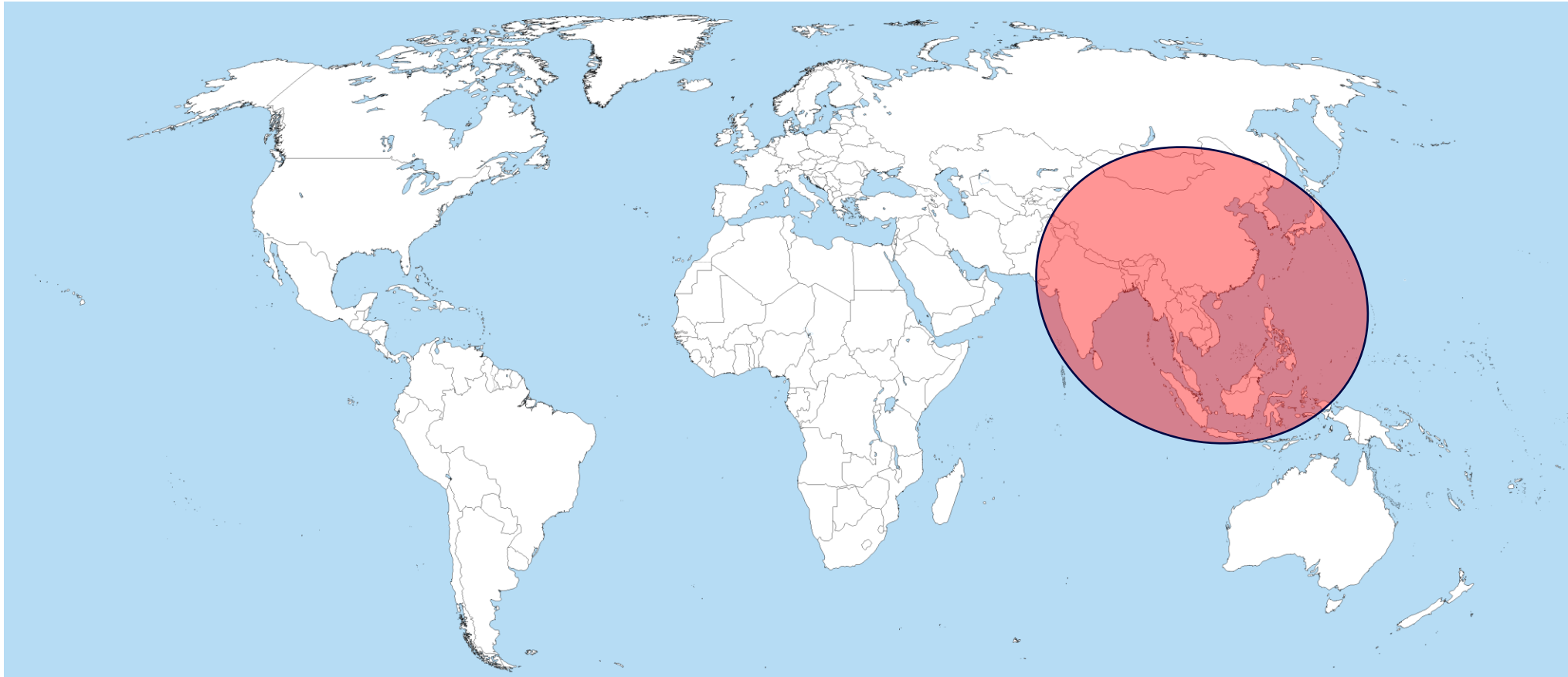
- Global bamboo production and value
- Opportunities for FL bamboo industry growth
- Brief intro to bamboo production practices in FL

# Global Bamboo Production

69% of global bamboo acreage is in the Asia-Pacific region

## Top 3 Producers:

China  
India  
Indonesia



# Global Bamboo Market (Value)

Global bamboo market revenue (finished products)

- 2024: \$67.4 billion → 2033: \$102.4 billion (Straits Research)

North America Market

- 2023: \$12 billion → 2032: \$17 billion

# Bamboo Uses (Global Trade Volumes)

## **Industrial Products (35%)**

- Plywood, flooring, pulp, paper, textiles, etc...

## **Bamboo articles (23%)**

- Kitchenware, tableware, furniture, etc...

## **Bamboo Shoots (12%)**

- Fresh, canned, other food products

## **Biodegradable Packaging Market (fastest growth)**

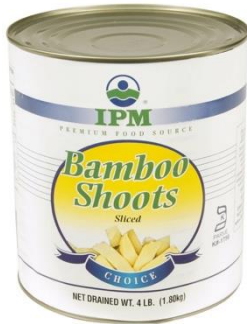
- Cartons, bottles, bioplastic containers, etc...



# North America Bamboo Imports

## Bamboo shoots (food)

- US is the 3<sup>rd</sup> largest market for bamboo shoots (12% of global supply)
- Canned shoots are the predominant import
- Fresh shoots are less than 1% of imports due to shipping/handling constraints





# North America Bamboo Imports

## Raw bamboo (poles)

- 2019: 23,000 metric tons
- 2023: 14,700 metric tons

## Reasons for import decline:

- Growing global demand
- Cost to ship to U.S.
- Global trade policies
- Brazil now the fastest growing exporter to the U.S.



# Florida Bamboo Production Opportunities

- Florida is well-positioned to become the source of raw bamboo materials for the US market
- Demand for raw products exists (in Florida/US)
  - Edible shoots: fresh, canning, other food uses
  - Culms (poles): Timber, textiles, pulp/paper, biochar, bioplastics, etc...
- Processing facilities established (FL) with more proposed:
  - Fresh shoot packing/canning
  - Culm (pole) processing facilities
- Future growth of the bamboo market in the U.S. will be determined by how much product Florida can supply



# Growing bamboo as a crop





# Bamboo Forest (Taiwan)

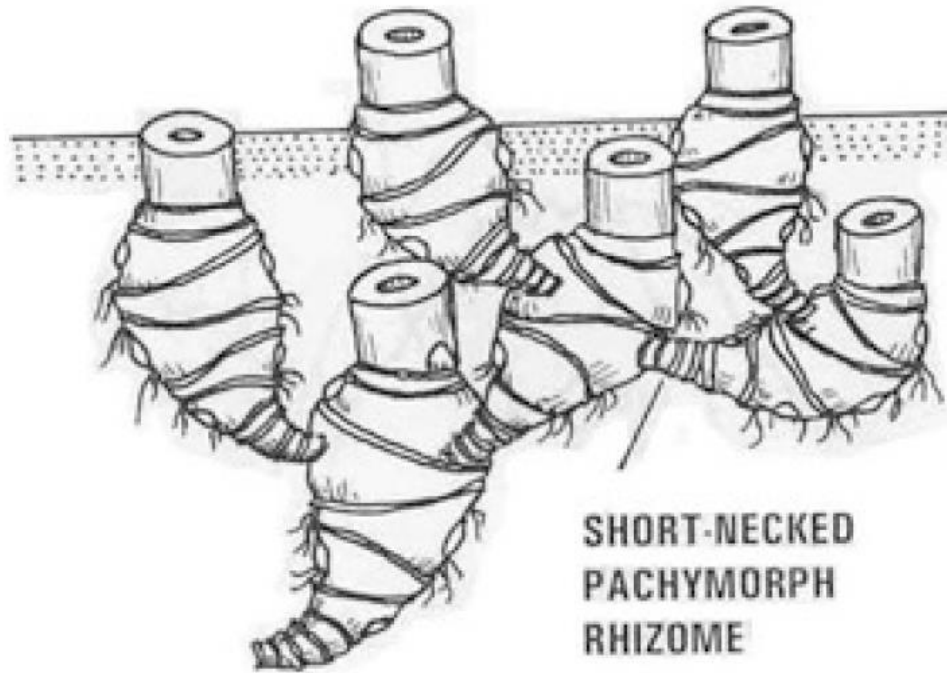
- *Phyllostachys* sp.
  - Running bamboo
  - Invasive
  - Not legal to plant in FL





# Clumping Bamboos

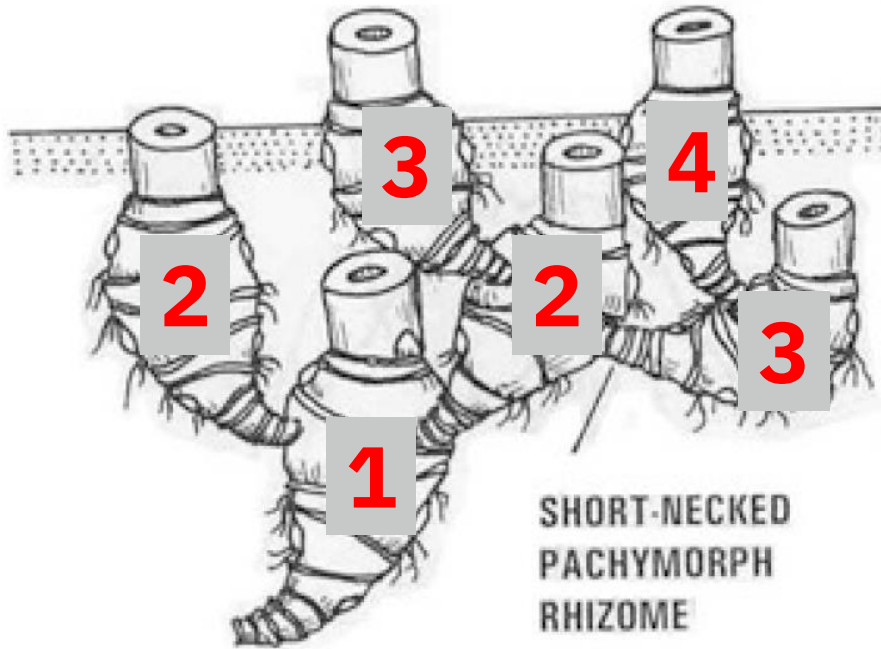
Non-invasive





# Clumping Bamboos

Culm diameter increases each year





# Clumping Bamboos

Can be managed  
in rows

Similar to citrus  
tree spacing





# Bamboo species selection (FL)

## *Dendrocalamus asper*

- High quality edible shoots
- Superior quality wood
- Edible shoot harvest begins year 4 or 5 (rainy season)
- Harvest of culms (poles): start year 5? (dry season)



# Questions addressed in the next presentations:

- **How to grow high quality bamboo in Florida?** (Kadyamapakeni)
  - Soil prep, planting density, nutrient/water management, weed control
- **Is bamboo production profitable in Florida?** (Barley)
  - Data from Florida Bamboo Growers Association on current yields, profitability, and future outlook
- **How do I get the product from the field to the processor?** (Hoffstetter)
  - Mechanical harvesting of mature culms (poles)

**THANK YOU**