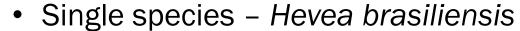
A NEW INDUSTRY FOR SOUTHERN AZ

Kimberly Ogden, Professor & Chair

Chemical and Environmental Engineering

Why a Desert Crop – Guayule (why-you-lee)





- Primarily grown in Southeast Asia
- Supply chain issues
- Cost variability
- Increasing labor costs
- More stainable than synthetic rubber
- Higher tensile strength & natural elasticity

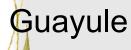




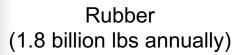
Industrial Products



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Latex



Resin Adhesives, terpenes, insect repellents



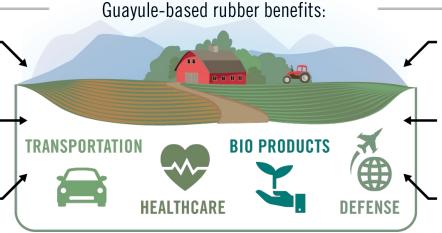
Bagasse

Pioneer climate-smart US natural rubber bioeconomy

Develop & optimize agricultural practices that support carbon sequestration in the desert SW

Create revenue for underserved growers & tribal partners

Grow a domestic supply of carbon _ negative natural rubber



Quantify economic and environmental impacts of the guayule value chain

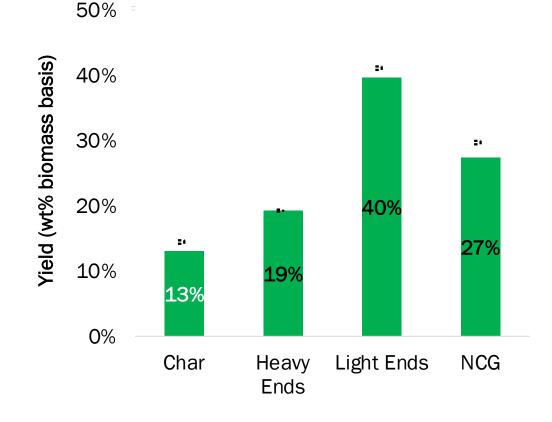
Strengthen SW bioeconomy to support opening of Bridgestone Americas natural rubber facility in 2026

Participate in USDA Partnerships for Climate Smart Commodities Network

Bagasse to Fuel









Fast Pyrolysis

Ryan Smith, Deputy Director

Bioeconomy Institute

Iowa State University