Through a $14.8M 5-year USDA-NIFA Grant (2017-2022) researchers, Extension Specialists and graduate students at four universities and the USDA will team with industry representatives to explore ways to build a sustainable bioeconomy for arid regions that will improve quality of life in rural communities and Native Nations.

GOALS

- Improve feedstock through genetics and traditional plant breeding.
- Trans-disciplinary training for students and educators.
- Increase biofuel and bioproduct production in the Southwest.
- Expand extension, education and outreach programs in the Southwest.
- Match crop choice and yield per available water supply in semi-arid areas.
DEVELOPING A SUSTAINABLE FUTURE
Exploring Social, Economic and Environmental Sustainability Options

INPUTS
Develop more effective and efficient production strategies.

PLANTS
Optimize production of guayule and guar.

TRANSPORTATION
Establish strategies and models for harvest, collection, and transportation.

EXTENSION
Host workshops and create toolkits for students, educators and growers.

FUEL
Determine most efficient techniques to convert guayule and guar bagasse to jet fuel.

SPECIALTIES
Identify new high-value bioproducts and derivatives for guayule and guar.

Any opinions, findings, conclusions, or recommendations expressed in this publication are those of the author(s) and do not necessarily reflect the view of the U.S. Department of Agriculture.

For more information: energy.arizona.edu/sbar