

Statement of Research Allocations 2022-2023

Arkansas Rice Research and Promotion Board

Approved February 3, 2022

I. ECOSYSTEMS

A team approach to improved weed management in rice (Year 1 of 3) . <i>T. Barber, J. Norsworthy and T. Butts</i>	\$240,000
Agronomic production practices for rice (Year 1 of 3) . <i>J. Hardke, et al.</i>	\$105,000
DD50 Thermal unit thresholds and seeding date effects for new cultivars (Year 1 of 3) . <i>J. Hardke, et al.</i>	\$60,000
Nitrogen recommendations for new rice cultivars (Year 1 of 3) . <i>J. Hardke and T. Roberts, et al.</i>	\$57,000
Rice Insect Management (Year 1 of 3) . <i>N. Bateman,</i>	\$130,000
Nitrogen management tools for Arkansas rice producers (Year 1 of 3) . <i>T. Roberts and J. Hardke</i>	\$115,000
Rice fertilization - developing novel methods to assess nutrient availability to Arkansas Rice (Year 1 of 3) . <i>T. Roberts and J. Hardke</i>	\$58,000
Economic analysis of Arkansas rice farms (Year 1 of 3) . <i>B. Watkins, A. Durand-Morat and R. Mane</i>	\$55,000
Subtotal Eco Systems	\$820,000

II. BREEDING AND PHYSIOLOGY

Breeding and development of improved long-grain and aromatic rice varieties (Year 1 of 3) . <i>C. De Guzman, et al</i>	\$305,000
Quality analysis for rice breeding and genetics (Ongoing)	\$113,836

X. Sha, E. Shakiba, C. De Guzman

Development of superior medium-grain and long-grain rice varieties for AR and Midsouth (Year 1 of 3) \$310,000

X. Sha, etal.

Breeding hybrid rice varieties for Arkansas and the southern US (Year 1 of 3). \$185,000

X. Sha

Marker-assisted selection for advanced rice breeding and genetics (Year 1 of 3). \$155,000

A. Johnson

Arkansas rice variety advancement trials (Year 1 of 3). \$90,000

J. Hardke, etal.

Arkansas Rice Performance Trials (Year 1 of 3) \$100,000

J. Hardke

Subtotal Breeding and Physiology \$1,258,836

III. PATHOLOGY

Rice breeding and pathology tech support (Year 1 of 3). \$140,000

C. De Guzman and Y. Wamishe

Subtotal Pathology \$140,000

VI. VERIFICATION

Rice research verification program (Year 3 of 3). \$107,714

J. Hardke, B. Watkins

Subtotal Verification \$107,714

VII. POST HARVEST

Study of cultivar attributes and their measurements to improve rice milling (Year 1 of 3). \$61,000

G. Atungulu, Y.J. Wang

Subtotal Postharvest \$61,000

Rice enterprise budgets and production economic analysis (Year 1 of 3). \$7,500

B. Watkins

Analysis of farm policy programs and competitiveness of Arkansas and U.S. rice (Year 3 of 3). \$20,000

A. Durand-Morat, B. Watkins and R. Mane

Subtotal Economics **\$27,500**

X. IRRIGATION AND WATER MANAGEMENT

Climate smart 300 bushel row rice on 12 inches of automated irrigation **(Year 1 of 3)** \$85,000

C. Henry

Subtotal Irrigation and Water Management **\$85,000**

Total 2022-2023 Funding **\$2,500,050**