

# University of Arkansas Division of Agriculture Update

## **Arkansas Joint Agriculture Committee**



# EXHIBIT C

## ), 2024 Deacue Fields, Vice President UADA

### NERREC Construction by Funding Source





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	Mkt Value of Ag Sold, 2017	Mkt Value of Sold, 2022
Texas	\$24,924,041,000	\$32,166,56
North Carolina	\$12,900,674,000	\$18,692,57
Missouri	\$10,525,938,000	\$14,697,02
Arkansas	\$9,651,160,000	\$13,899,149
Georgia	\$9,573,252,000	\$13,239,37
Oklahoma	\$7,465,512,000	\$8,540,52
Florida	\$7,357,343,000	\$10,224,60
Mississippi	\$6,195,968,000	\$8,247,77
Alabama	\$5,980,595,000	\$9,035,89
Kentucky	\$5,737,920,000	\$8,005,74
Tennessee	\$3,798,934,000	\$5,161,03
Louisiana	\$3,172,978,000	\$4,807,12
South Carolina	\$3,008,739,000	\$4,427,20

of Ag 2 61,000 74,000 22,000 9,000 72,000 29,000

- 00,000
- 75,000
- 97,000
- 45,000
- 34,000
- 23,000
- 04,000



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## Importance of Arkansas Agriculture

- 19 Million Acres of Forestland covering 56.6% of the state
- \$455 million cash receipts in 2023 making Arkansas the 2<sup>nd</sup> most timber-dependent economy in the nation
- 24,532 skilled workers employed in timber and related industries.
- #1 in the south for hardwood seedlings grown.
- Forestry contributes over 4% of the state's economy







North Carolina \$1,747.14

South Carolina \$838.07

Florida **\$459.64** 



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## Market Value of Ag Products Sold per Capita

- UADA Rice Breeding program annual increased yields from research represent \$41M increased farm income annually.
- Sheath Blight: Breeding rice with increased resistance increased rice yields by 8.21 bu/ac or \$23.7M per year.
- Insecticide seed treatment research funded by the rice board increases yields by 8.33 bu/ac. Benefits of the increase in yield is estimated at \$24M per year.
- Multiple Inlet Rice Irrigation results in 24% savings water use. An acre-inch of water conserved is worth \$2.
- N-ST\*R has reduced nitrogen application by an average of 42 Ibs/ac for those farmers enrolled in the program. The annual benefit of this reduction in nitrogen use is \$9.0M.
- Benefits associated with UADA rice research are estimated at \$91M annually or a Benefit Cost Ratio of 28.5 to 1.
- Investments in UADA rice research are contributing to global food security, feeding an additional 4.1 million people annually.



## **Return on Investment** for **UA Division of** Agriculture Research



Other

Federal Appropriations 6.26%

> County Appropriations 3.22%

> > State Appropriations 52.39%



Federal Appropriations, 5.78%

> County Appropriations, 3.02%

State Appropriations, 46.57%





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Increase in Operating Expenses - FY24 vs FY17				
<b>Category</b>	<u>2024</u>	<u>2017</u>	<u>\$ Inc</u>	
Compensation &				
Benefits	98,735,783	90,809,014	7,926,769	
Supplies &				
Services	43,082,243	31,704,960	11,377,283	
Depreciation	8,793,182	5,863,482	2,929,700	
Scholarships &				
Fellowships	234,436	177,446	56,990	
Total	150,845,644	128,554,902	22,290,742	

- Federal grant funding has increased 100% from \$38.5M in FY22 to \$76.5M in FY24.
- USDA funding total improved from **11<sup>th</sup> to 6<sup>th</sup> in the southern region in 2** years.
- **Providing a faculty salary incentive** program that allows faculty to supplement their salary from grant success.
- Aggressively pursuing industry partnerships
- **Incentivizing technology** commercialization, which generates about \$4.0M annually.



## **UA Division of** Agriculture Leveraging Resources



- The State of Arkansas is the majority shareholder for UADA
- UADA has no income stream other than crop sales which account for about 7.4% of the total budget.
- At UA Fayetteville, UADA contributes 78% and 70% of the budget for Bumpers College and the department of Bio and Ag Engineering, respectively.
  - UADA attempts to keep pace with UAF salary increases with no access to tuition revenue or other income stream.
  - UADA accounts for 45% of total research expenditures/output for UAF, which allows the campus to maintain Research 1 status.
- UADA has continued to leverage the state of Arkansas investment by increasing extramural grant procurement



### Division of Agriculture - 2022 Sources of Revenue

## **UA Division of** Agriculture **Budget Facts**

# Investing in Our People



DIVISION OF AGRICULTURE

RESEARCH & EXTENSION

University of Arkansas System



























- the state.

• UADA has about 1,200 employees throughout

• UADA streamlined functions and returned 422 positions to the state in FY22.

 To reduce unsustainable turnover, County Agent and Technician starting salaries were increased from \$36,000 to \$41,000, which is still \$2,800 below the regional average.

We have offered a salary plan similar to campus to manage morale and productivity.

UADA has attracted top scholars due to the quality of programs and the reputation of agriculture in Arkansas

 UADA provides the R&D, information delivery, health education, human resource and workforce development functions for Arkansas' largest industry.



# **Investing in Our Facilities**























- UADA over 165 buildings statewide.
- There has been no state or federal investment in UADA facilities since 1995, and total deferred maintenance is estimated at \$99 million.
- It usually takes UADA more than a decade of saving and fundraising to replace a substandard facility.
- Despite lower salaries UADA has attracted top scholars due to the quality of programs as well as the size and reputation of agriculture in Arkansas
- It is difficult to attract and retain top talent and conduct cutting-edge research in outdated facilities.



## **New Feed Mill**







- Arkansas farmers harvested 690,000 acres of corn and 3.15 million acres of soybeans in 2022.
- Arkansas harvested 120,235,000 bushels of corn
  - Arkansas poultry consumed 174,068,036 bushels corn. 53,833,036 bushels more than produced in Arkansas.
- Arkansas harvested 163,800,000 bushels of soybeans
  - Arkansas poultry consumed 63,644,106 bushels or 39% of soybeans grown in Arkansas.



## Technological Improvements

### **Enhanced Accuracy and Precision**

### **Capacity and Output**

- if needed

### **State of the Art Equipment**

- throughout

### **Safe and Spacious Working Areas**

maintenance

Diets can be manufactured on a 0.1% repeatable accuracy scale

• Coefficient of Variation (CV) in the 5% or better range, which is the best CV available in the industry currently

Diets can be manufactured at rates between 5 and 10 tons per hour,

Current capacity of existing mill does not exceed 1 ton per hour

Modern, industry-relevant, technologically advanced equipment

Students and industry stakeholders will receive training on equipment being installed currently in new industry mills

Layout and design with focus upon safety and enough space for teaching and training applications, as well as routine

# Impact Transformational Change

### Research

### **Teaching**

workforce

## **Stakeholder Support**

### **Centralization of Feed Manufacturing**

Agriculture

Feed manufacturing with enhanced throughput time, accuracy, and precision in a technologically advanced, industry-relevant feed mill

Expand current programs to include elements of feed milling and manufacturing research on relevant commodities produced in AR

Enhance current curriculum with hands-on feed manufacturing coursework and laboratories to enhance preparedness for the

Support stakeholders with small-batch diets for internal research objectives (Tyson, Cargill, Cobb-Vantress)

Provide industry personnel local training opportunities and short courses in feed milling and manufacturing

One feed mill for the University of Arkansas System Division of



# Thank You!

## **Questions?**

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The pessimist complains about the wind. The optimist expects it to change. The leader adjusts the sails.

John Maxwell