

A sunset over a green rice field with a city skyline in the distance. The sun is low on the horizon, casting a warm orange glow across the sky and the field. The clouds are dark and silhouetted against the bright light of the sun. The rice field is a vibrant green, and the city skyline is visible in the far distance.

Missouri Rice Research Update

Chase Floyd

University of Missouri Crop Protection Specialist

2023 USA Rice Outlook Conference

2023 Rice Research



Plant Science & Technology
University of Missouri



University of Missouri

- **Dr. Justin Chlapecka**
 - **Missouri Rice Specialist, Assistant Professor**
- **Work includes Missouri rice agronomic systems. (fertility, seeding rate, planting date)**



Mizzou Rice Agronomy in 2023

Cultivar Trials

- 30 varieties/hybrids
- Current and expected releases
- 22 unique environments
- Flood and furrow-irrigated

Seeding Rate Trials – furrow-irrigated

- Varieties – 10 to 50 seed/ft²
- Hybrid – 4 to 20 seed/ft²
- 3 unique farms
- Top, middle, and bottom of field

Planting Date Study

- 30 varieties/hybrids
- Current and expected releases
- 2 locations
- 5 planting dates @ each

Seeding Rate Trials – flood-irrigated

- Varieties – 10 to 50 seed/ft²
- Hybrid – 4 to 20 seed/ft²
- 2 locations
- 3 planting dates @ each

Mizzou Rice Agronomy

Nitrogen Management – FIR

- Furrow-irrigated rice
- CLL16
- 5 N management programs
- Top, middle, and bottom zones

Starter Fertilizer

- Flooded rice – 2-leaf app
 - DAP, TSP, urea
- Furrow-irrigated rice - Preplant
 - Updating P recs

Rice:Soybean Rotation Study

- MSMC (Missouri Soybean) sponsored
- Long-Term
- Cont. Rice & Soybean, 1:1, 2:1, 1:2

Industry-Sponsored Studies

- Preliminary variety trials
- Biologicals & N Response
- New herbicide options
- Herbicide program evaluation
- Seed treatment programs

University of Missouri

- **Dr. Chase Floyd**
 - **Crop Protection Specialist, Assistant Professor**
- **Work includes rice billbug in FIR, and rice stink bug control**



Mizzou Rice Entomology

Key Research Focuses

- **Insecticide Seed Treatment Efficacy**
- **Foliar Insecticide Efficacy**
- **Billbug Management in FIR**
- **Pyrethroid resistant rice stink bug monitoring**

University of Missouri

- **Justin Calhoun**
 - **Cropping Systems Specialist,
Assistant Professor**
- **Collaborative work**
- **Row spacing in furrow-irrigated rice**



Mizzou Cropping Systems

2023 key research focuses

- Alternative Nitrogen regimes
- Spray Nozzle study for canopy penetration
- Various Weed Science studies

Mizzou Weed Science

- **Currently searching for new weed scientist in the Missouri Bootheel for 2024 growing season**
- **<https://wssa.net/2023/09/assistant-research-professor-and-state-extension-specialist-weed-science-with-university-of-missouricolumbia-in-portageville-missouri/>**

2023 MRRMC Field Day

 University of Missouri
Mizzou Rice Agronomy
**Furrow-Irrigated
Rice Trials**
Funded by:
The Missouri Rice Research and Merchandising Council 



2023 FDREEC AG Expo Day

- **Goal: achieve greater outreach to Missouri stake holders**
- **“self guided” tour**
- **Huge success with almost 200 attendees**



2023 FDRC Field Day

- Annual field day
- Fisher Delta Research Center
- About 60 trailer-tour participants



University of Missouri Continuing Research

- **Furrow-irrigated rice**
 - **Closing the yield gap**
 - **Fertility**
 - **Pest management**
 - **Seeding rate**
 - **Irrigation**
 - **All Missouri Rice Council funded**



University of Missouri Continuing Research

- **Planting Date Trials**
 - **Earlier planting?**
- **Cultivar Trials**
 - **On-farm a priority for 2024**
- **Rotation**
 - **Missouri Soybean funded**



University of Missouri Future Research

- Always looking for new opportunities
 - Collaboration
 - New ideas?





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