

2023 Rice Research



Plant Science & Technology



- 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

Planting Date Study

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

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

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

Rice:Soybean Rotation Study

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

Starter Fertilizer

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

Industry-Sponsored Studies

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

- 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

- 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-stateextension-specialist-weed-science-with-university-ofmissouricolumbia-in-portageville-missouri/



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



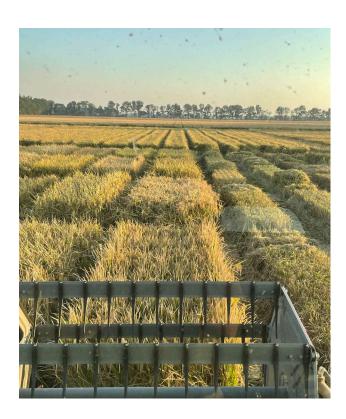
University of Missouri Continuing Research

- 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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