

**PROGRAM DESCRIPTION**

**Department of Higher Education and Workforce Development**

**HB Section(s):** 3.195

**Program Name** Fisher Delta Research Center for the Rice Breeders Association

**Program is found in the following core budget(s):** University of Missouri

**1a. What strategic priority does this program address?**

Agricultural Research

**1b. What does this program do?**

The University of Missouri Rice Agronomy Program focuses on agronomic research to improve rice yield and quality through practices that make rice producers more profitable. Our research includes an array of cultivar studies to identify those that perform best for our area, including commercially available cultivars and advanced breeder lines with potential to come to market in the near future. We also focus on fertility and irrigation studies to reduce environmental footprint while increasing crop performance, profitability, and overall way of life for those involved both directly and indirectly with the

**2a. Provide an activity measure(s) for the program.**

The Rice Agronomy Program has undertaken research projects under the following topics in both flood-irrigated and furrow-irrigated rice:

- 1) Cultivar trials at multiple sites across southeast Missouri studying 25 commercial and advanced lines and over 150 pre-commercial lines. Encased within the commercial trials is a planting date study with 5 different planting dates designed to provide Missouri producers with unbiased information on cultivar selection based upon planting date,
- 2) Seeding rate trials to determine the optimal seeding rate to maximize on-farm profitability,
- 3) Multiple fertility trials studying rice response to nitrogen and phosphorus. The goals of these studies are to maximize economic yield while at the same time reducing negative environmental impact that is possible from applying excessive nutrients beyond what is needed by the crop.
- 4) A wide array of furrow-irrigated rice trials designed to increase yield potential for the furrow-irrigated system. Previous work done by the UM State Rice Extension Specialist and others shows that a 33% reduction in water use is a readily attainable goal when converting flood-irrigated rice acres to furrow irrigation.

**2b. Provide a measure(s) of the program's quality.**

Due to the program being created in FY 2022, there are very limited quality measures. More data will be provided for what is now being measured in FY 2023.

**2c. Provide a measure(s) of the program's impact.**

At the 2022 Missouri Rice Field Day on August 23, 2022, over 100 attendees listened to presentations by those involved in rice research, including the UM Rice Agronomy Program. Attendees were briefed on what research is happening in Missouri and interacted with speakers including the Extension Rice Agronomist to express their interest in terms of future research plans and how our research can help their enterprise. This Field Day is one of many meetings and trainings that the UM Rice Agronomy Program helps conduct throughout the year.

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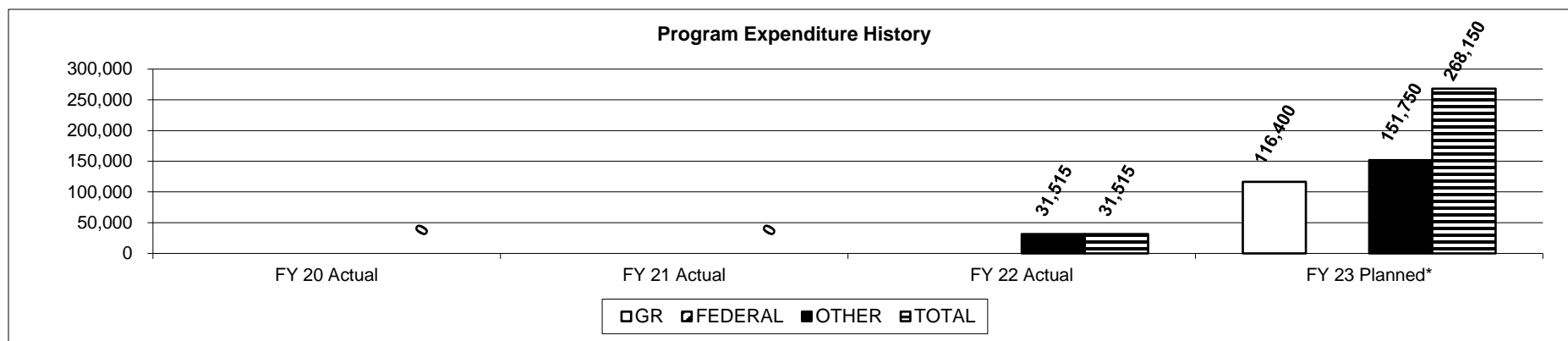
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**2d. Provide a measure(s) of the program's efficiency.**

Due to the program being created in FY 2022, there is not a measure of the program's efficiency to this point. Once the bulk of data is generated in FY 2023, efficiency measures will be made available.

**3. Provide actual expenditures for the prior three fiscal years and planned expenditures for the current fiscal year. (Note: Amounts do not include fringe benefit costs.)**



\*Net of 3% Governor's statutory withholding.

**4. What are the sources of the "Other " funds?**

"Other" funds include project funding from the Missouri Rice Research & Merchandising Council, Missouri Soybean Merchandising Council, university start-up funding, and unrestricted gifts from industry partners.

**5. What is the authorization for this program, i.e., federal or state statute, etc.? (Include the federal program number, if applicable.)**

172.010 - 172.950, RSMo

**6. Are there federal matching requirements? If yes, please explain.**

No

**7. Is this a federally mandated program? If yes, please explain.**

No