

Drew County Furrow Irrigated Rice Verification Field

Danielle Dickson, County Extension Agent – Prairie County | ddickson@uada.edu
University of Arkansas System, Division of Agriculture, Cooperative Extension Service

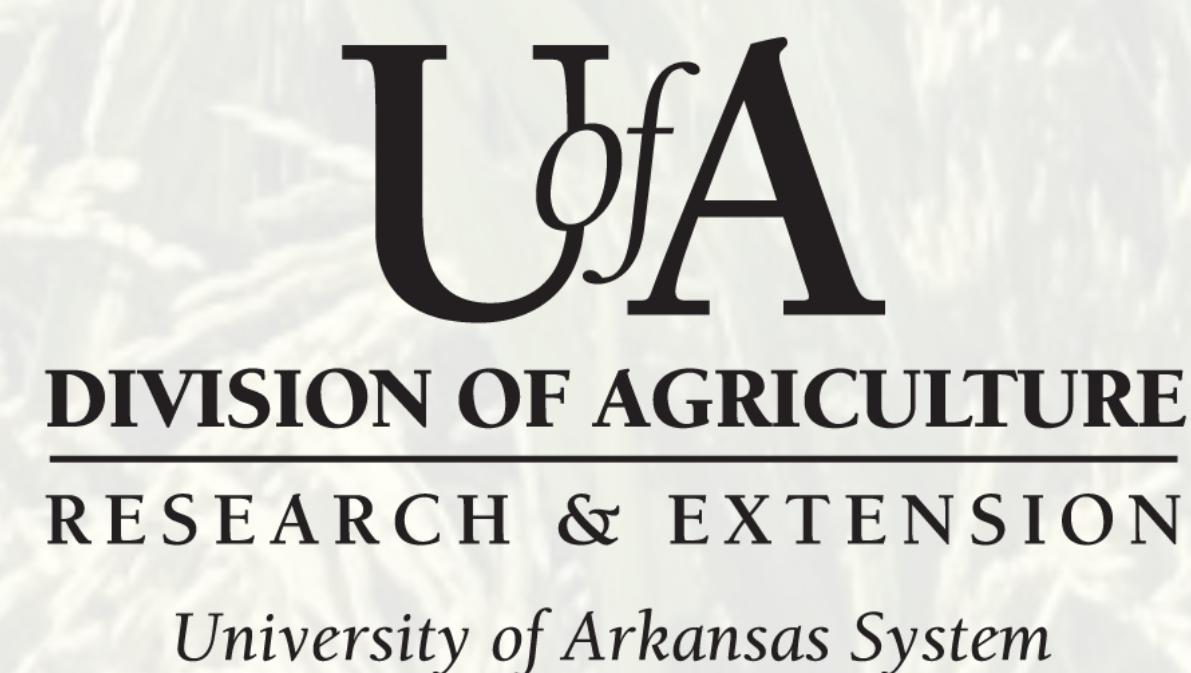
Introduction

The Arkansas Row Crop Verification Program is an interdisciplinary effort among growers, county Extension agents, Extension specialists, and Division of Agriculture researchers. It is a two year on-farm demonstration of all the research-based practices and technologies recommended to maximize the production and profitability of row crops in Arkansas. The overall goal is to verify that management according to Division of Agriculture recommendations can result in increased profitability compared to standard producer practices.

Arkansas ROW CROP VERIFICATION



In the Rice Research Verification Program, the grower agrees to carry out recommended practices in a timely manner. Recommendations are based on Extension Service recommendations and are provided by the local county agent. The county agent visits the field at least once per week to monitor the field situation and potential problems.



Method

Year 1:

No tillage practices were used for spring field preparation. The field was drill-seeded at 23 lbs/ac planted May 4. Emergence was observed on May 18 with a stand count of 7.1 plants/ft². Glyphosate, Command, and Sharpen herbicides were applied at planting on May 4. Preface, Facet, and Prowl H2O were applied as post-emergence herbicides on May 22.

Command and Preface herbicides were applied on June 4 followed by Regiment and Preface applied June 18. Nitrogen in the form of urea plus an approved NBPT was applied at 165 lbs/acre on June 3 followed by 165 lbs/acre on June 18. Two more applications were made with 100 lbs/acre on June 24 followed by 65 lbs/acre on July 25. Intermittent flushing was utilized for irrigation.

Year 2:

No tillage practices were used for spring field preparation. The field was drill-seeded at 25 lbs/ac planted April 20. Emergence was observed on April 29 with a stand count of 9.9 plants/ft². According to the soil test a 18-46-0 (lb/acre N-P2O5-K2O) was applied in the spring. Glyphosate, Command, and League herbicides were applied at planting on April 20. Command and Facet L were applied as post-emergence herbicides on May 3. Preface herbicide was May 28. Nitrogen in the form of urea plus an approved NBPT was applied at 100 lbs/acre on May 4 followed by 165 lbs/acre on July 15, followed by 165 lbs/acre on June 18. Sheath blight disease exceeded threshold levels and Quadris fungicide was applied July 15.



Taking N-ST*R Samples



Sheath Blight Present

Demonstration

The Drew County furrow-irrigated rice (FIR) field was located just west of Tiller on Perry Clay soil. The field consisted of 40 acres the first year and 35 acres the second year. In both years, the previous crop grown was soybeans. The cultivar chosen was RT 7521 FP treated with the company's standard seed treatment.



Result

The first year the field was harvested on September 12, 2020, yielding 184 bu/ac and a milling yield of 63/69. The average harvest moisture was 16%.

The second year the field was harvested on September 2, 2021, yielding 210 bu/ac and a milling yield of 47/67. The average harvest moisture was 15%.

