

Irrigation Water Management Demonstration

County: St. Francis

Agent: Cody Griffin

Cooperator: Bart Haven

Instigator: Dr. Chris Henry

Location: Forrest City

Previous Crop: Cotton

Soil Type: Silt Loam

Objective:

Compare water management tools to a conventional field to evaluate the effectiveness of this technology to reduce water use, track water movement, improve labor efficiency, and to benefit economic returns.

Demo Setup:

Irrigation tools evaluated included Pipe Planner ploypip hole selection program. U of A online irrigation scheduling, atmometer (ET Gauge), Flow Meter, Surge Valve, and Soil Moisture Sensors. The electric well was located on the east side in the demo field. We set the field up in four irrigation sets. After the first two sets were finished irrigating we switched the surge valve over to the last two sets. Soil Moisture Sensors were monitored from the agent's cell phone to determine when irrigation should be started.