

NEREC Crops Field Day

Wednesday, Aug. 5

Field Tours

Trailers for two different tours will depart from parking lot at 9 a.m. and at 10 a.m.:

1. Dealing with Resistant Weeds (Coordinated by Dr. Ken Smith)
 - Overview of resistant weed situation
 - On-going research addressing resistant weeds
 - Discussion of best approaches to control resistant pigweeds.

2. Managing Problem Insect Pests (Drs. Glenn Studebaker and Tina Teague)
 - Identification and utilization of resistance to tarnished plant bugs
 - Addressing the problem of tarnished plant bugs in cotton bordering corn and an update on insecticide efficacy
 - Update on current insect problems in all crops

Tour guides:

9 a.m. Blake McClelland, Mississippi County Cooperative Extension Service Craig Allen, Poinsett County Cooperative Extension Service

10a.m. Mike Hamilton, Crittenden County Cooperative Extension Service Claude Kennedy, Resident Director - Lon Mann Cotton Research Station

Conference Room Program

Program inside of large conference room will commence at 11 a.m.:

- Current economic issues (Coordinated by Dr. Archie Flanders)

Presentations:

- Comparative costs and returns for field crops (Dr. Archie Flanders)
- Economic impact of herbicide resistance (Dr. Bob Stark)
- Commodity prices - inherent risks and updates (Scott Stiles)

- Crop conditions and challenges, panel discussion with State Extension Crop Specialists:
 - Corn, Sorghum, Wheat – Dr. Jason Kelley
 - Cotton – Dr. Tom Barber
 - Soybean – Dr. Jeremy Ross
 - Rice – Dr. Chuck Wilson

- Legislative update
 - Anders Reynolds, Legislative Aide for Congressman Marion Berry

Additional Information

Resistant weed tour:

Palmer amaranth (pigweed) resistance to glyphosate (Round-up) has become a major issue in cotton and soybean production in the past two years. Addressing this problem weed will require significant changes in production practices. Dr. Ken Smith is on the forefront of this problem and will cover his work and work by other weed scientists.

Insect tour:

With boll weevil eradication and the advent of Bt cotton, tarnished plant bugs (TPB) have become a major concern in cotton production. Cotton genotypes vary in response to TPB from highly attractive and susceptible (Frego bract) to moderately resistance. Depending on movement of TPB, the highly susceptible genotypes may be useful as a trap crop. Multiple sources of resistance have been identified and are being combined. Moderate resistant lines may be used in combinations with other strategies to reduce the impact of this pest.

Additionally, other insect pests that may be present in cotton and other crops will be covered.

Inside program:

Discussant: Archie Flanders, economist NEREC

Comparative Costs and Returns for Field Crops – Recent commodity price increases have been accompanied by increases in input costs. The presentation investigates whether producers are benefitting from increased prices for their products.

Discussant: Bob Stark, Professor of Agricultural Economics, SEREC

Economics of Herbicide Resistance – Some weed species are developing resistance to herbicides that once served as effective controls. Resistance may cause yield decreases, as well as lead to increased expenses when additional

herbicides must be applied. The presentation includes an example of the impacts to producers of herbicide resistance.

Discussant: Scott Stiles, Ext Economist-Risk Management

Commodity Prices – Prices that producers receive for crops are variable and unpredictable. Changes in crop prices are due to numerous factors. The presentation includes sources of the inherent risk in prices and occurrences that impact producer revenue.