## Brinkley Convention Center 1501 Weatherby Drive, Brinkley, AR 72021 Thursday, July 25, 2019

### Time | Speaker
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8:00 a.m. to 9:00 a.m. | **Welcome and overview of day’s activities**
9:00 a.m. to 9:30 a.m. | **Soil Health Farmer Mentor: Adam Chappell**
9:30 a.m. to 11:00 a.m. | **Stop 1: Adapting Equipment for Soil Health (discuss adjustments, challenges with equipment when moving into a soil health system)**

#### Welcome and overview of day’s activities
(Board Bus and travel to Adam Chappell’s Farm, County Road 935, Cotton Plant, AR)

#### Soil Health Farmer Mentor: Adam Chappell
1. Overview of Soil Health Management System
   a. How long
   b. Equipment used
   c. Acres farmed
   d. Results

#### DEMONSTRATIONS

**Stop 1** Adapting Equipment for Soil Health (discuss adjustments, challenges with equipment when moving into a soil health system)

1. Spreading residue during harvest
2. Seeding cover crops, e.g. drilling, broadcasting, aerial application
3. Terminating cover crops, e.g. when & how
4. Planting into high residue
5. Sprayer tips

9:30 a.m. to 11:00 a.m. | **Stop 2: Cover Crops used in Cotton Systems**

1. Single species verses multi-species cover crops
2. How do you determine success?
3. High vs. low biomass: Benefits of letting cover crop grow
4. Results of testing

### Field Day Agenda

**Field Day Agenda**

Improving Soil Health Through a Systems Approach

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9:30 a.m. to 11:00 a.m. | **Dr. Bill Robertson**
University of Arkansas Extension Specialist (cotton)

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Farmer Mentor

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| 11:00 a.m. to 1:00 p.m. | **David Lamm**  
Soil Health Institute  
Project Manager |
| 1:00 p.m. to 2:00 p.m. | **Robby Bevis**  
Farmer Mentor |
| 2:00 p.m. to 3:30 p.m. | **Matt Fryer**  
University of Arkansas System  
Division of Agriculture  
Soil Instructor |
| 3:30 p.m. to 4:30 p.m. | **Trent Roberts**  
University of Arkansas  
Associate Professor of Soil Fertility/Soil Testing |

### Stop 3  Linking Soil Biology to Soil Health

1. Soil health indicators used to evaluate soil health in the field
2. Linking key soil health indicators to the soil health principles and soil function
3. Soil functions performed by soil organisms
4. Three broad functional groups for soil organisms
5. Identify and define biological hot spots in soil and key organisms in each zone/sphere

**David Lamm**  
Soil Health Institute  
Project Manager

### Lunch (travel to Bevis Farm, Bevis Road, Lonoke, AR)

Lunch will be served at the farm.

### Soil Health Farmer Mentor: Robby Bevis

Overview of Soil Health Management System

1. How long
2. Equipment used
3. Acres farmed
4. Results

**Robby Bevis**  
Farmer Mentor

### DESIGNING A SOIL HEALTH MANAGEMENT SYSTEM

### Cover Cropping with a Purpose

1. Cover crops benefits and impact on soil function
2. Consideration for successful cover crop planning
3. Designing multi-species cover crop mixes
4. Trouble shooting cover crop problems
5. Examples of cover crops in cotton production systems
6. Cover crop decision tool (SmartMix Calculator)

**Matt Fryer**  
University of Arkansas System  
Division of Agriculture  
Soil Instructor

**Trent Roberts**  
University of Arkansas  
Associate Professor of Soil Fertility/Soil Testing

### Return to Brinkley Convention Center

Bus Discussion:

- Use of Soil Health Specialist and Farmer Mentors
- Formation of Soil Health Mentoring Network

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