

2015 Report
Arkansas Corn and Grain Sorghum Board

Application Technology Demonstration and Education for Arkansas Crops

Dr. Tom Barber and Dr. Bob Scott, Extension Weed Scientists,

The advent of new herbicide technology/trait release such as Dicamba and 2,4-D tolerance in cotton and soybean has raised new issues regarding proper application methods, technology and sprayer cleanout. There have been numerous drift studies conducted with Universities across the mid-south by weed scientists, but a large gap in spray technology and understanding exists. Other issues with comparing farm size sprayers to plot size sprayers will most likely arise in the future. Recently the University of Arkansas Division of Agriculture hired Jason Davis for the Application Technology position. Jason started in July of 2014 and since has begun the process of ordering the necessary equipment for spray calibration and application demonstrations. He is also currently working on tank contamination and sprayer cleanout education. Below is a summary of his efforts in this program

Application Technology Program Highlights 2015

- Planned, facilitated, and presented at 4 Sprayer Schools- February 2015
- Updated clean-out publication – MP 532
- Published new drift mitigation fact sheet FSA 2179
- Published new Enlist Duo application requirements quick sheet MP 535
- Proposal for the construction of the Application Technology Research Facility
- Reviewer for Perdue’s Pesticide Program upcoming publication PPP-108
“Cleaning Out Agriculture Sprayer and Nurse Tanks”
- Presenter for 6 winter Commercial Applicator Trainings with over 500 commercial applicators
- Presenter for 3 Arkansas Highway Department applicator trainings with over 250 applicators
- Presenter for Arkansas Crop Management Conference sessions
- Presenter at 11 Extension Production meetings
- Presenter at 12 Extension Station and County Field days
- Planned and Presented 5 County Sprayer Workshops
- Planned and Presented 3 Non Row-crop sprayer Clinics
- Booth and demonstrations at Rice Expo
- Conducting spray nozzle drift research in cooperation with Arkansas State University faculty

- Calibrated spray equipment across the state for producers and University researchers
 - Reported 2620 Non-Division direct contacts through workshops, clinics, and field days.
 - Reported 2180 Non-Division indirect contacts through publications, phone, and email.
 - Reported 495 Division contacts
 - Designed and built demonstration equipment for use in the Application Technology Program. Equipment was used to demonstrate latest spray technology at more than 30 field days and events across the state. This is on schedule with the programs 2nd year goals.
 - Designed and built spray demonstration and research units for 2 other extension programs
 - The program is a growing resource for producers and agents with call volume increasing monthly. Topics include equipment calibration, clean out recommendations and troubleshooting, nozzle testing and selection, and general application equipment performance.
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