

**MANAGEMENT OF LIBERTY LINK SYSTEMS IN THE COTTON RESEARCH VERIFICATION PROGRAM****B.A. McClelland****A. Flanders****University of Arkansas****Keiser, AR****L.T. Barber****University of Arkansas****Little Rock, AR****Abstract**

Glyphosate resistant weeds have caused a shift in the weed control programs for cotton producers in Arkansas. Although the Liberty Link system has been in use for the last few years, it is slowly being adopted on farms in Arkansas and the state's cotton producers have been asking what the best way to use this new system is. Two fields that were part of the Cotton Research Verification Program were planted into Liberty Link varieties this year as a way to verify the profitability of using the Liberty Link system and the effectiveness of using Glufosinate in a weed control program. The first scenario was located in Lee County, Arkansas. The producer wanted to determine if the Liberty Link cultivars and system would work on his farm. Stoneville 5445LLB2 was planted for the trial. Pigweed pressure was present and the weeds were managed by using a combination of Liberty and residual herbicides. The field produced 1100 pounds/A and the producer was well pleased with the results of the experiment. The second scenario was located in Craighead County, Arkansas. This producer wanted to determine if he could use a Glytol-Liberty Link cultivar to create a barrier between his cotton that was planted glyphosate tolerant cultivar and other Liberty Link crops that were planted on the border of his field. He also wanted to determine if Liberty Link cultivars could yield in comparison with other proven cultivars in that area. The Liberty Link buffer protected the glyphosate resistant cultivars and proved that it could yield as well as the other cultivars in that area. The Liberty Link cultivar yielded 1474 pounds/A.