

Please use this form to clearly and concisely report on project progress. The information included should reflect quantifiable results that can be used to evaluate and measure project success. Comments should be limited to the designated boxes. Technical reports, no longer than 4 pages, may be attached to this summary report.

Project Number:	2021-50
Project Title:	Evaluation of residual weed control with common soil-applied soybean herbicides
Organization:	Midsouth Soybean Board
Project Lead Name:	Jason A. Bond
Report Date:	15-Dec-2021

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National Soybean Checkoff Research Database <https://www.soybeanresearchdata.com/> (public website funded by USB). Please include a non-technical summary along with your project status. The non-technical summary will be published to the website. **If a non-technical summary is not provided, the contents of this entire report will be published.**

Project Status:

Quarter 1: Studies evaluating weed control correlation with rainfall quantities across multiple planting dates to determine length of residual weed control were initiated at multiple sites in Mississippi in 2021. Four runs of the experiment were initiated in Stoneville on 22-April, 17-May, 25-May, and 01-June. Four runs of the experiment were initiated in Brooksville on 21-April, 28-April, 14-May, and 20-May. One run of the experiment was established in Verona on 26-May. Poor weather has prevented additional runs of the experiment in Verona, but plans are in place to plant one or two additional replicates. All treatments have been applied, and incorporating rainfalls events varied from two to 10 days after application at the Stoneville site. All studies will be irrigated as needed and managed intensively for insect and disease control for the remainder of the season.

Quarter 2: Studies evaluating weed control correlation with rainfall quantities across multiple planting dates to determine length of residual weed control were initiated at multiple sites in Mississippi in 2021 and are nearly complete. Studies will be harvested either last week of September or early in October, and subsequent data analysis will ensue. Data should be completed and analyzed by mid-November.

Quarter 3: The field portion of the research has been completed. Data review and analyses were delayed, so these are ongoing.

Non-technical summary:

Preliminary data from the Stoneville locations indicate that adequate rainfall for incorporation of residual herbicide treatments was received for all four runs of the study at that location.