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| 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:  |  |
| Project Title:  | Enhancing Stink Bug Resistance in Midsouth Soybean |
| Organization:  | LSU AgCenter |
| Project Lead Name: | Jeffrey A. Davis |
| Report Date: | December 15, 2023 |
| **In the Progress Summary section below, please provide a brief summary of project progress in lay language that will be shared publicly in the** [**National Soybean Checkoff Research Database**](https://www.soybeanresearchdata.com/)**. Do not include any confidential or proprietary information. If no lay language is provided, the contents of this entire report will be published in the** [**National Soybean Checkoff Research Database**](https://www.soybeanresearchdata.com/)**.** |
| Progress Summary (in non-proprietary lay language suitable to be shared publicly): |
| Seed continues to be threshed and evaluated for yield and stink bug damage. Current crosses have been made and seed is being shipped to LSU for laboratory evaluation. Laboratory life table studies have finished are data is being analyzed.  |
| Detailed Progress Status – Expand upon the above section. What key activities were undertaken and what were the key accomplishments during this reporting period? List each key deliverable from the proposal and describe progress made (or not made) toward achieving it, including metrics were appropriate. |
| LSU AgCenter: Life table studies have finished, and data is being analyzed. Greenhouse studies will begin in February 2024.Seed evaluation for stink bug damages continues.University of Missouri: Crosses, pedigree and purpose of the crosses attempted in 2023 at University of Missouri, Portageville.

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| **Cross number** | **Pedigree** | **Purpose** |
| **S23-514** | S21-21984 x S18-6328 | Cultivar development |
| **S23-515** | S21-22147 x PI 097139 | Cultivar development |
| **S23-516** | S21-22147 x PI 85665 | Cultivar development |
| **S23-517** | S16-7922C x S21-21942 | Cultivar development |
| **S23-518** | S16-9478 x S21-21942 | Cultivar development |
| **S23-580** | S21-22147 x S21-21942 | Cultivar development and gene mapping  |
| **S23-581** | S21-22147 x IAC-100 | Cultivar development and gene mapping  |
| **S23-582** | S21-21975 x PI 085665  | Cultivar development and gene mapping  |
| **S23-583** | S21-21975 x PI 097139 | Cultivar development and gene mapping  |
| **S23-584** | S21-22147 x PI 097139 | Cultivar development and gene mapping  |

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