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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: | 2022-47 |
| Project Title:  | Exploitation of weed species extracts as an effective and environmental friendly strategy to control insects and deer in soybean |
| Organization:  | Mississippi State University |
| Principal Investigator Name: | Te Ming (Paul) Tseng |
| Report Period: | July 21, 2022 |
| Project Status: |
| Two soybean plots were established at Pontotoc, MS (one on Jul 20 and one on Sep 2) and one soybean plot was planted at North Farm, Starkville, MS (Aug 5). The sicklepod and hemp sesbania fruits were prepared at North Farm last year, coffee senna fruits and leaves were prepared at North Farm this summer, and prickly sida materials were harvested in Pontotoc this fall. So far, the first sicklpod, hemp sesbania, and prickly sida extracts have been prepared, the application of the first Pontotoc plot will be conducted next week. The deer browsing and insect damage data will be collected following application for that plot. The deer browsing and insect leaf damage will be visually estimated. The insect species and number will be collected with shake cloth and swipe net for soybean plants in rows and spreading-planted soybean plants, respectively. The other two plots will be applied when the plants and extracts are ready. |