Nebraska Soybean Board

Year-End Summary Research Report Form for Multi-Year Projects

Please use this form to summarize the practical benefits of your research project and what has been accomplished. Your answers need to convey why the project is important and how the results will impact soybean production.

Note that this form must be submitted with the 4th Quarter Report in all multi-year projects.

Project # and Title: #706: Soybean Gall Midge: Evaluating Planting Date and Seed Treatment **Principal Investigator:** Justin McMechan

Year of Multi Year: 2 of 3 (example: Year 1 of 3, Year 2 of 2)

1. What was the focus of the research project?

This research project is being conducted to evaluate the role of planting date and seed treatment for management of soybean gall midge.

2. What are the major findings of the research?

The data from 2022 field season was lost due to a hail storm on June 7th. The previous years data shows that planting soybean after May 22nd can significantly reduce number of infested plants, larval number per plant, and plant injury. These results supported yield data with the greatest yields occurring on May 22nd and June 1st. Statistically similar yield occurred on April 22nd but it supported a larger number of larvae per plant. Guacho had a limited and inconsistent effect on soybean gall midge.

3. Briefly summarize, in lay terms, the impact your findings have had, or will have, on improving the productivity of soybeans in Nebraska and the U.S.

Data from the 2022 growing season was lost due to a hail storm on June 7th. Our previous years data indicated there may be planting dates that are highly susceptible to injury from soybean gall midge. Growers looking to potentially reduce soybean gall midge populations for future years may want to consider delayed planting if they have significant historical injury and pressure from soybean gall midge. Seed treatment impacts were limited to soybean plantings from April 22nd to May 12th. Our results indicate that planting date alone is more effective but more research is needed.

4. Describe how your findings have been (or soon will be) distributed to (a) farmers and (b) public researchers. List specific publications, websites, press releases, etc.

The soybean gall midge research group held a webinar series during the winter of 2021 where the information from 2021 growing season was presented. Information from this project was presented at the S1080 regional multi-state committee meeting as well as several extension events (Soybean Expo, Crop Production Clinics, etc.).

5. Did the NE soybean checkoff funding of your project, leverage additional State or Federal funding support? Please list sources and dollars approved.

The data generated from this project directly informs and impacts studies with the agriculture industry to set up studies that test products under a high risk environment. As a result, the project leverages funding and support from companies to conduct trials with commercial products on soybean gall midge in Nebraska.

Please submit this completed form to the Agriculture Research Division, jmcmahon10@unl.edu, based on the reporting schedule given to you. If you have any questions, please call Jen McMahon at the Agricultural Research Division (402) 472-7082.

Please check your information before submitting the form. Submit by Email

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