

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: Anthony Justin McMechan

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

1. What was the focus of the research project or educational activity?

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 or impacts of the educational activity?

Research results show 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.

Such results highlight the importance of delayed planting. Our data also 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.

Our soybean gall midge research groups plans to hold a webinar series during the winter. This data is some of the most important information to be presented as it sets the framework for management for the season. Several extension events are already planned (Soybean Expo, Crop Production Clinics, etc.). We will advertise and deliver information through cropwatch and the soybeangallmidge.org websites.

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

No additional support was obtained for this project, however, Bayer, Syngenta and AMVAC are discussing projects with other insecticide products based on the data we have generated.

Please email 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 ARD 2-7082.