

## 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:** #1745: Soybean Gall Midge: Evaluating Pest Management Tactics and Plant Disease Interactions

**Principal Investigator:** Anthony Justin McMechan

**Year of Multi Year:** 2 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 whether or not any interactions occur between plant pathogens and soybean gall midge through field and lab research.

**2. What are the major findings of the research or impacts of the educational activity?**

To date, there does not appear to be a significant interaction between soybean gall midge and plant pathogens both in terms of culturing plant pathogens from infested stems or larval number, plant injury and yield.

**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.**

The lack of interactions to date is important to the overall management strategy for soybean gall midge. Using the research generated to date, growers should not apply fungicides as a management strategy for soybean gall midge. Such results simplify the management, increasing the opportunity for more standard control methods that target the pest. In addition, the use of fungicides is expensive, removing them as a potential strategy can save farmers money.

**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. Information from this project will be presented to other states in regional and national committee meetings to guide future research projects. 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 funding, however, an internal grant is being written to explore the micro biome of soybean gall midge.

*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.*