



# WHAT NEW TYPES OF VARIETAL RESISTANCE TO SCN ARE BEING DEVELOPED?

INFORMATIONAL SHEET

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## DIVERSIFYING GENETIC RESISTANCE TO SOYBEAN CYST NEMATODE

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### PROJECT SUMMARY

This project continues work to develop additional lines of varietal resistance to soybean cyst nematode (SCN). Researchers have identified three- and four-gene combinations and will develop lines with those stacks so farmers can rotate different genetic modes of resistance to manage and reduce SCN populations.

### TRIAL LOCATIONS

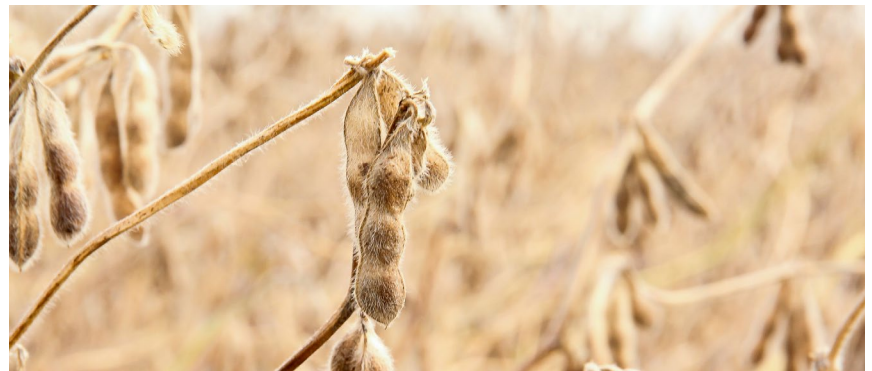


### WHY THIS RESEARCH IS IMPORTANT

- ❗ SCN is estimated to cause the largest economic loss to soybean productivity in the U.S. The primary method to manage SCN populations has been through varietal resistance. However, most varietal resistance is based on PI88788, and nematodes have been able to overcome this resistance in recent years.

### HOW THIS RESEARCH BENEFITS THE FARMER

- 🎯 As additional genetic resistance is identified and bred into soybean varieties, farmers will have more tools to combat SCN in their fields.
- 🎯 By having different genetic modes of resistance to SCN, farmers will also be equipped to rotate varieties year-to-year to help reduce SCN inoculum in the soil and virulence over time, as well as delay the onset of nematodes overcoming genetic resistance.



### CHECK OUT FIELD ADVISOR!

See updates and learn more about this project, the research team and other projects at [FieldAdvisor.org](https://FieldAdvisor.org).

Contact the ISA agronomy team: [agronomy-team@ilsoy.org](mailto:agronomy-team@ilsoy.org).



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