



ARE THERE BIOLOGICAL-BASED PRODUCTS THAT CAN PROMOTE PLANT GROWTH WHILE ALSO PROTECTING AGAINST RCR WHEN SOYBEANS ARE PLANTED LATER TO AVOID HEAVY PATHOGEN INCIDENCE?

INFORMATIONAL SHEET

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ASSESSING CURRENT BIOLOGICAL-BASED SEED COATING STRATEGIES FOR IL SOYBEAN FARMERS AND INVESTIGATING POTENTIAL FOR BIOLOGICALS AGAINST RED CROWN ROT

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PROJECT SUMMARY

The team will gather information from farmers and industry about current biological-based products applied to soybean seed, as well as practices used to manage red crown rot (RCR). Based on these insights, the team will develop specific research trials to identify more effective RCR management recommendations.

TRIAL LOCATIONS



WHY THIS RESEARCH IS IMPORTANT

- ❗ RCR is becoming a more regular threat to the Illinois soybean crop, and its threat is amplified by how long the pathogen can survive in the soil and on infected plant debris.
- ❗ Yield loss up to 50 percent has been reported outside Illinois. Research in Louisiana has found delayed planting of 3-6 weeks can reduce disease severity, but in Illinois that length of delay also reduces biomass and pod production.

HOW THIS RESEARCH BENEFITS THE FARMER

- 🎯 Understanding which plant growth promotion (PGP) products can help delayed plantings catch up to earlier plantings will give farmers a new option to keep RCR from limiting soybean yield.
- 🎯 In addition, farmers will be equipped with information about which biological and synthetic seed treatments are effective at suppressing RCR.



CHECK OUT FIELD ADVISOR!

See updates and learn more about this project, the research team and other projects at FieldAdvisor.org.

Contact the ISA agronomy team: agronomy-team@ilsoy.org.



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