



We are recruiting growers for on-farm research in 2025!

**BOOTS ON THE GROUND ver. 2**  
**AI-DRIVEN TOOLS FOR MAXIMIZING SOYBEAN YIELD AND PROFITABILITY**

**FIELD SCOUTING ALERT SYSTEM PROTOCOL**

***Can you help us test our satellite data enhanced scouting tool in your field?***

**What's the story?**

We developed a new tool that uses Sentinel-2 satellite images to automatically calculate the Normalized Vegetation Difference Index (NDVI—a plant health index) for every 60 x 60 ft section in a field. NDVI indices grids can be automatically generated every 5-10 days when new satellite images are available. These grids can be used to guide precision scouting efforts throughout the growing season. Field areas with low NDVI values may be associated with yield limiting factors (e.g., pest pressure, weeds etc.) and should be scouted to confirm.

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- We would like to scout a field on your farm this season
  - We'll do all the work! Just grow your soybean crop normally
  - We will come in and scout your field every 2-3 weeks throughout the season
  - We'll be looking for insects, weeds, diseases, growth stages, and abiotic stressors
  - We'd ask for your yield monitor data at the end of the year

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**Do You Want to Participate? YES? Then:**

- Identify a few soybean fields on your farm that you will allow us to scout periodically during the season
- Contact us and we'll talk over the logistics

For more information and to sign up, please contact your state soybean specialist:

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Scan here for more information



[NCSRP Data Driven Research](#)

**What's in it for you?**

By providing your field data, you can help us test our satellite imagery tool to help make field scouting more efficient. The more data we collect, the more accurate the tool will be. The tool will guide precision scouting efforts throughout the growing season, allowing crop scouts to cover more acres and make more accurate assessments of crop health and pinpoint problem areas. After ground truthing to correlate the satellite data, this scouting tool will be calibrated to use in the North Central region across diverse fields and farming practices.

**Worried about your personal data?**

Your data is protected and encrypted behind a university firewall. Access is limited to our team, similar to our efforts in previous projects. You can trust that our team's experience over the past 8 years provides evidence of our commitment to data security and integrity!