

NCSRP – report due by April 1, 2022

Team members:

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- Peter Kyveryga, Co-PI, Iowa Soybean Association Research Center for Farming Innovations
- Carlos Hernandez, Data Analyst, Department of Agronomy, Kansas State University
- Aaron Prestholt, Data Analyst, Iowa Soybean Association Research Center for Farming Innovations

Progress

Project goals:

1. Develop a multistate database to allow upscaling of soybean quality predictions to regional levels and benchmark agronomic practices, soybean genetics, management, and environmental conditions that can lead to large-scale improvements in soybean quality.
2. Communicate the economic value of soybean quality mapping to farmers and agronomists through an online interactive simulation tool, technical publications and social media.

Accomplishments during the first half of year 1

The team has formalized all the collaborators from multiple states (Ohio, Indiana, South Dakota, Missouri, Iowa, Michigan, Illinois, North Dakota, Nebraska, Iowa, and Kansas), including John Fulton, Shaun Casteel, Peter Kovacs, Greg Luce and John Lory, Scott Nelson, Mark Seamon and Mani Sing, Randy Pearson, David Kramar and Michael Ostlie, and Laila Puntel and Laura Thompson.

Two main goals were achieved from the field coordination, i) all collaborators already committed to contribute to the project and provide between 5-to-15 fields per state (with a target of at least 150 fields per year across the North Central region), and ii) an initial survey, a protocol for data collection has been developed to obtain field data related to management on seed quality.

From the soybean quality tool, the research team discussed new improvements, in addition to have several presentations on this topic during January and February 2022.

Here is the link to the field survey data collection: <https://forms.gle/5wBfdj9Zhs0JYsbNA>

Mapping Soybean Protein and Oil Quality in Farmer Fields

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* Required

Email
Your answer

Indicate your State *
Your answer

Planting Date in this field *
MM DD YYYY
/ /

How do you want to describe this field location? *
 Specify by Section: Township: Range
 Specify by GPS coordinates of field centroid

Specify by Section: Township: Range
Your answer

Specify by GPS coordinates of field centroid
Your answer

GPS coordinates of field centroid: Example: 41.678, -100.257 *
Your answer

Dryland or irrigated? *
 Dryland
 Irrigated

In case you selected "irrigated", Total inches of irrigation applied
Your answer

Indicate Field Size: Example: 90 ac *
Your answer

Does this field have drainage? *
 No
 Surface Drainage
 Other:

Yield (bushels/acre) for this field: Example: 55
Your answer

Indicate the yield variation within this field this year: Low - High.
Example: Low: 40 - High: 62 *
Your answer

Variety Name (Brand & Number): Example: SeedCompany VAR4303
Your answer

Seeding Rate (seeds/ac): Example: 125000 *
Your answer

Row spacing (inches): Example: 30 *
Your answer

Lime application date
MM DD YYYY
/ /

Manure application date
MM DD YYYY
/ /

Pre or post-emergence herbicide program or both?
 Pre
 Post
 Both

Specify pre-emergent herbicide product name. Specify post-emergent herbicide product name.
Your answer:

Any in-season foliar fungicide / insecticide *
 Fungicide
 Insecticide
 None

Iron deficiency chlorosis? *
 Yes
 No

Factors limiting yield? *
 None
 Weeds
 Flood
 Insects
 Frost
 Lodging
 Diseases
 Hail
 Other:

Date of test
MM DD YYYY
/ /

[Submit](#) [Clear form](#)