

Cover Crop Project

A Web Based Decision Support Tool for Cover Crop Management



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Welcome to the Cover Crop Project

The cover crop project seeks to provide farmers with a practical web-based decision support tool designed to help manage cover crops in their fields. The project makes use of existing research to demonstrate the potential for cover crops, as well as providing useful information for decision making and management of this practice. It will also seek to apply future research on cover crops as results are incorporated into updates and new iterations of the tool. This remains a work in progress with a goal towards adapting with the science.

To date, extensive research has found that adopting cover crops in the fallow season of commercial row crop production can improve soil health by, among other things, improving soil organic matter, carbon, as well as water retention and some weed suppression. Importantly, cover crops are a critical practice for the Illinois Nutrient Loss Reduction Strategy and the voluntary efforts to reduce nutrient losses from farm fields. The growing cover crop will scavenge unused inorganic nitrogen and store it in the plant's biomass, reducing losses; it also provides a cover to protect against soil erosion and export of other nutrients from fields.

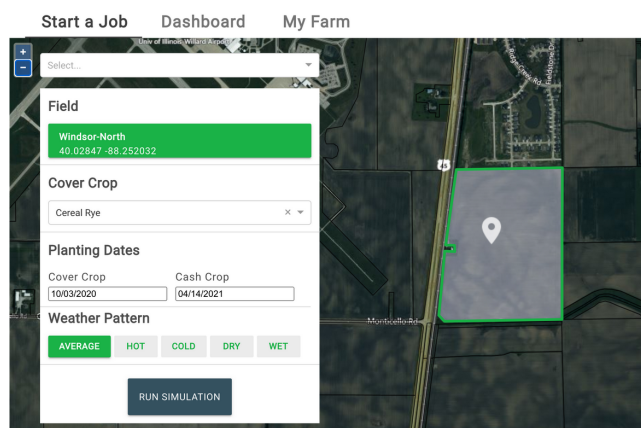
This project proceeds from an understanding that better information and functional assistance with decision making can increase the successful adoption of this important practice. The tool will provide farmers, researchers, extension educators and others in the industry with data and information about cover crops in a practical, visualized format. The information the tool provides is integrated into common cropping systems and the first iteration uses cereal rye added to a corn-soybean rotation for fields in Illinois. At this time, fields outside of Illinois are not included in the tool but can be added in future releases and as data becomes available.

Funding for this project has been provided primarily by the Illinois Nutrient Research & Education Council (NREC). The project team greatly appreciates the financial, technical and other support from NREC and Illinois farmers. Initial seed funding for the project was also provided by the McKnight Foundation and the University of Illinois. Additional features for the tool are forthcoming thanks to funding from the Walton Family Foundation."

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How does the simulation work?



About this project

This project will deliver a web-based software application that can provide farmers, researchers, extension educators and others in the industry with data and information about cover crops in a practical, visualized format.

This app can be found at: covercrop.ncsa.illinois.edu

The team

 Chris Navarro Principal Investigator Christopher Navarro	 Jong Sung Lee Co-PI Jong Lee	 Sandeep Satheesan Research Developer Sandeep Puthanveetil Satheesan	 Gowtham Nariharisetty Research Developer Gowtham Naraharisetty
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Recently updated

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Open issues in JIRA

Key	T	Created	Updated	Assignee	Status	Resolution
CCROP-339	✓	Mar 24, 2021	Mar 24, 2021	Sandeep Puthanveetil Satheesan	TO DO	Unresolved
CCROP-420	✓	Dec 02, 2022	Dec 02, 2022	Sandeep Puthanveetil Satheesan	TO DO	Unresolved
CCROP-419	⬢	Nov 07, 2022	Nov 07, 2022	Sandeep Puthanveetil Satheesan	TO DO	Unresolved
CCROP-417	⬢	Oct 25, 2022	Dec 05, 2022	Unassigned	TO DO	Unresolved
CCROP-416	✓	Sep 30, 2022	Sep 30, 2022	Unassigned	TO DO	Unresolved
CCROP-411	⬢	Sep 16, 2022	Dec 08, 2022	Sandeep Puthanveetil Satheesan	TO DO	Unresolved
CCROP-410	✓	Sep 07, 2022	Sep 07, 2022	Sandeep Puthanveetil Satheesan	TO DO	Unresolved
CCROP-409	✓	Sep 06, 2022	Jan 11, 2023	Sandeep Puthanveetil Satheesan	TO DO	Unresolved
CCROP-404	✓	May 31, 2022	Dec 05, 2022	Christopher Navarro	TO DO	Unresolved
CCROP-401	✓	May 04, 2022	May 04, 2022	Unassigned	TO DO	Unresolved
CCROP-399	⚡	Apr 11, 2022	Apr 11, 2022	Unassigned	TO DO	Unresolved
CCROP-398	✓	Apr 11, 2022	Apr 11, 2022	Unassigned	TO DO	Unresolved
CCROP-397	✓	Apr 11, 2022	Apr 11, 2022	Unassigned	TO DO	Unresolved
CCROP-395	⬢	Apr 05, 2022	Sep 21, 2022	Unassigned	TO DO	Unresolved
CCROP-393	⬢	Mar 18, 2022	Mar 18, 2022	Unassigned	TO DO	Unresolved
CCROP-392	⬢	Mar 18, 2022	Mar 22, 2022	Unassigned	TO DO	Unresolved
CCROP-390	⚡	Feb 24, 2022	May 31, 2022	Unassigned	TO DO	Unresolved
CCROP-389	✓	Feb 23, 2022	Dec 08, 2022	Sandeep Puthanveetil Satheesan	TO DO	Unresolved
CCROP-386	⬢	Jan 14, 2022	May 31, 2022	Unassigned	TO DO	Unresolved
CCROP-384	⬢	Dec 21, 2021	Sep 21, 2022	Unassigned	TO DO	Unresolved

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