Outcomes Estimation Tools Training Webinar Series

Michelle Perez, PhD Water Initiative Director

Aysha Tapp Ross Water & Soil Health Scientist

Kinzie Reiss Ag Conservation Innovations Program & Communications Manager Featuring: Field to Market FieldPrint Platform (climate)

September 6, 2023 Noon to 1:30 pm eastern

American Farmland Trust

Agenda



- Welcome, Poll (5 min)
- FieldPrint Platform Presentation (35 min)
- FieldPrint Platform Demonstration (35 min)
- Q&A (15 min)



Zoom Webinar Reminders

- Use Q&A Box last 15 minutes (Vote up!)
- Use Zoom Direct Message feature to Kinzie if having technical difficulties
- Email with resources to follow each webinar
- Recordings posted on the webinar series site the following Monday
- Evaluation survey in the Chat Box





Time for 3 polls!



Aysha

Tools in 2023 Trainings*

May 3: Webinar Launch & PCOC (recording)

<u>June 7: Model My Watershed (recording)</u>

<u>July 12: Nutrient Tracking Tool (NTT)</u> (recording)

<u>August 2: NRCS Cover Crop Economics Tool</u> (economic) (recording)

September 6: FieldPrint Platform

October 4: EPA PLET (water quality)

November 1: PTMApp Web Tool (water quality)

December 6: AFT Retrospective-Soil Health Economics (R-SHEC) Tool (economic)

Tools in 2024 Trainings*

January 10: SIPES Method/SIDMA Tool (social)

February 7: Fast-GHG (climate)

March 6: Cool Farm Tool (climate)

April 3: TBD

May 1: COMET-Farm & COMET-Planner (climate)

June 5: TBD

July 3: TBD

*Subject to change



Michelle



The Fieldprint Platform As an Outcomes Estimation Tool

September 6, 2023

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Speaker Introduction

Eric Coronel, Ph.D.

Director of Science & Research

ecoronel@fieldtomarket.org



Education

- B.S. & M.S. in Environmental Science
- Ph.D. in Crop Sciences

Areas of Expertise

- Data analysis
- Implementing agricultural models at the field level
- Precision ag
- GHG emissions quantification

Other positions

- Research agronomist at John Deere Tech Center
- Director of sustainability at the American Peanut Council



FieldPrint Platform Webinar Topics

- . Cover how to complete the field-level questionnaire, which growers can typically answer without consulting their records.
- 2. Explain how to interpret the scores from the sustainability metrics and how to share the results in a meaningful way.
- Describe how to engage growers in a credible framework and use the data analysis tools available for project managers.
- Explain how project managers can use the tool to evaluate and report on project-level outcomes associated with adopting conservation practices by growers in a project.



Agenda

- Climate & Water Quality Tool Snapshot Summary & Strengths & Limitations
- Intro to Field to Market and the Fieldprint Platform
- Learning about the environmental metrics
- Learning about projects
- Demonstrations
- Closing thoughts
- Q&A

Summary

Feature	Fieldprint Platform	
Scale & level of specificity	Field level. Users and projects can aggregate outcomes as needed. Several metrics capture location-specific data: weather, soil types and properties, energy grid, field slope and orientation, among others.	
Outcomes	Biodiversity (index), Energy Use, GHG Emissions, Irrigation Water Use, Land Use, Soil Carbon (index), Soil Conservation, and Water Quality (index)	
Conservation practices	Tillage management, cover crops, crop rotations, irrigation, biodiversity, 30+ CPS (not all conservation practices influence all metrics)	
Land uses & production systems	Cropland and grazing (alfalfa only). Twelve commodity row crops.	
States & territories	Continental United States	
Time, data, skills to generate an outcome estimate	No experience required. Nearly all first-time users can generate an analysis within 20-40 minutes per field. Users can copy inputs among fields. Users need crop rotation information and field boundaries.	
Current version	V4	
Utilization	In 2022, the Fieldprint Platform analyzed over 500,000 reports from 6,000 growers	

FIELD TO MARKET

Strengths

- Growers can typically enter data inputs from memory and copy inputs across fields with similar management.
- Metrics developed in collaboration with all sectors of the supply chain.
- Quantification estimates at both the field and project scale; aggregation of results across farmers for a project.
- Supply chain actors can readily use data outputs.
- Equivalency with other sustainability organizations such as the Sustainable Agriculture Initiative (SAI) and The Sustainability Consortium (TSC).
- There are nine data partners who have incorporated the Fieldprint Platform into their own systems.

Limitations

- All eight metrics are calculated simultaneously; the Platform cannot calculate one metric separately.
- Entering data for the first time could take from 20 to 30 minutes per field; it gets much easier with practice.
- Though the tool is free and publicly available, organizations must join Field to Market to access all data and project management features.
- Field to Market has rules about communicating of environmental impacts if reported in a public-facing document.
- Three metrics are qualitative rather than quantitative (Biodiversity, Soil Carbon, Water Quality).
- The Platform works in the continental U.S.

FIELD TO MARKET

WHO WE ARE

Origins of Field to Market

- Keystone Policy Center convened supply-chain stakeholders in 2006, to ideate what eventually became Field to Market.
- The work started soon after, publishing sustainability reports for row crop commodities, and releasing tools that became the foundation of the Fieldprint Platform.
- We launched as an independent non-profit in 2013. Full-time staff increased to 10 over a few years.

The entire value chain must work together to meet the demand for food, feed, fiber, and fuel in a sustainable and responsible way.

Vision

To harness the collective action of the value chain to support resilient ecosystems and enhance farmer livelihoods

Guiding Principles

- Transparent
- Grounded in science and focused on
 <u>outcomes</u>
- Open to the range of technology choices
- <u>Committed to creating opportunities for</u> <u>continuous improvements in environmental</u> <u>outcomes</u>

Sustainable Agriculture

Across the agriculture supply chain — from the farm gate to the consumer — we face the challenge of producing enough food, feed, fiber, and fuel for a growing population while conserving natural resources.

Our Definition of Sustainable Agriculture:

Meeting the needs of the present while improving the ability of future generations to meet their own needs.

Regenerative Agriculture

Interest in regenerative agriculture has increased over the past five years. What was initially considered a niche approach to sustainability has taken off with company commitments, marketing campaigns, and a proliferation of definitions within the U.S. and globally.

Our Regenerative Agriculture Principles:

- Minimizing soil disturbance.
- Maintaining living roots in the soil.
- Continuously covering bare soil.
- Maximizing diversity with an emphasis on crops, soil microbes, and pollinators.
- Integrating livestock where it is feasible.

UNITING THE ENTIRE AGRICULTURAL VALUE CHAIN

FIVE DIVERSE MEMBERSHIP SECTORS



FIELD TO MARKET

The Fieldprint Platform

FIELD TO MARKET

Origins of the Fieldprint Platform

- Field to Market released the Fieldprint Platform as a web-based tool in 2009 to estimate environmental outcomes at the field level.
- The Platform serves farmers and stakeholders in the agricultural value chain.
- It provides data collection, metric outputs, analysis, reporting, and project management features.
- The Fieldprint Platform is simple to use, though the technology behind it is complex.

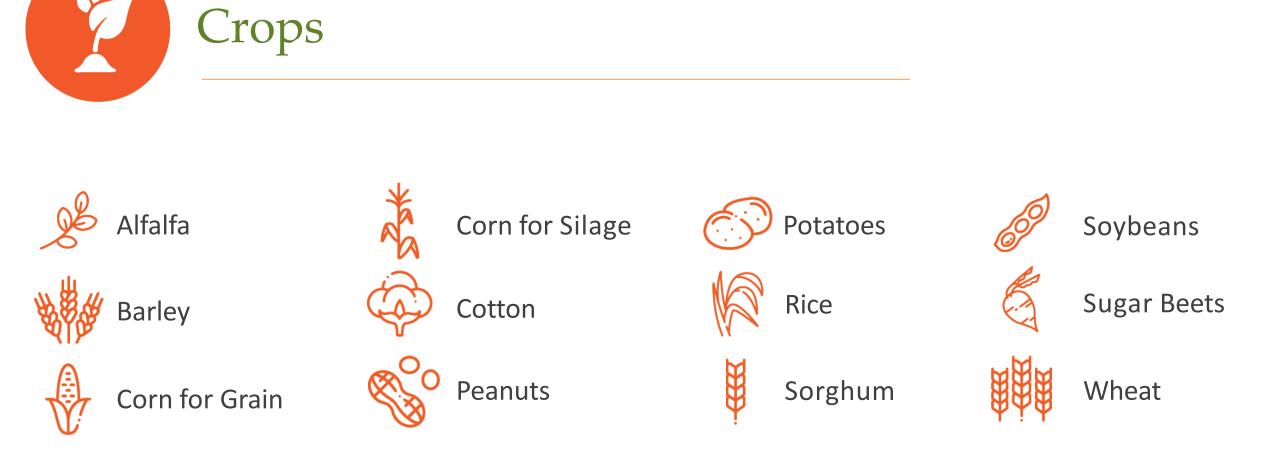


User Resources (links in supplementary slides)

- Public documentation of all the metrics.
- Technical support site with step-by-step guides and video tutorials.
- Fact sheets describing each metric and how to improve scores, tailored towards producers and crop advisers.
- Brochure with data input requirements.
- Learning modules available via the American Society of Agronomy's Online Learning Classroom for crop advisers (SPARC Initiative).
- Interactive, web-based data analysis tool (plug-and-play).
- Learning Academy Training and Data Analyst Training (two separate programs) once a year.
- Demonstration data from three growers to explore as a guest user.
- Staff support hours available for members.

Field to Market | Overview

FIELD TO MARKET



Sustainability Metrics

Analyzing all metrics at once enables farmers to consider trade-offs across sustainability outcomes:





Biodiversity: measures the capacity of a farm to support habitats for plants and animals. This could look at things like flooded rice fields that support migrating waterfowl, or edge-of-field areas that allow for wildlife to form habitat. **Unit: index. Note: Likely to be updated in 2024.**



Energy Use: calculates all energy used in the production of one crop in one year, from preplanting activities to the first point of sale. This means that it considers the embedded energy used to produce seed, fertilizer and chemicals applied to the field. **Unit: BTUs per acre or per yield unit.**



Greenhouse Gas Emissions: calculates the total greenhouse gas emissions from four main sources—energy use, nitrous oxide emissions from soils, methane emissions (from flooded fields), and emissions from residue burning. **Unit: Ib GHG_e per acre or per yield unit.**



Irrigated Water Use: accounts for the amount of water used to achieve an increase in crop yield. Unit: acre-inches per yield improvement.



Land Use: looks at productivity by accounting for how much land is used to produce a crop. Unit: Area per yield unit.



Soil Conservation: measures soil lost to erosion from water and wind, which is shown to a farmer as tons of soil lost per acre (NRCS models: water and wind erosion). Unit: ton soil loss per acre.

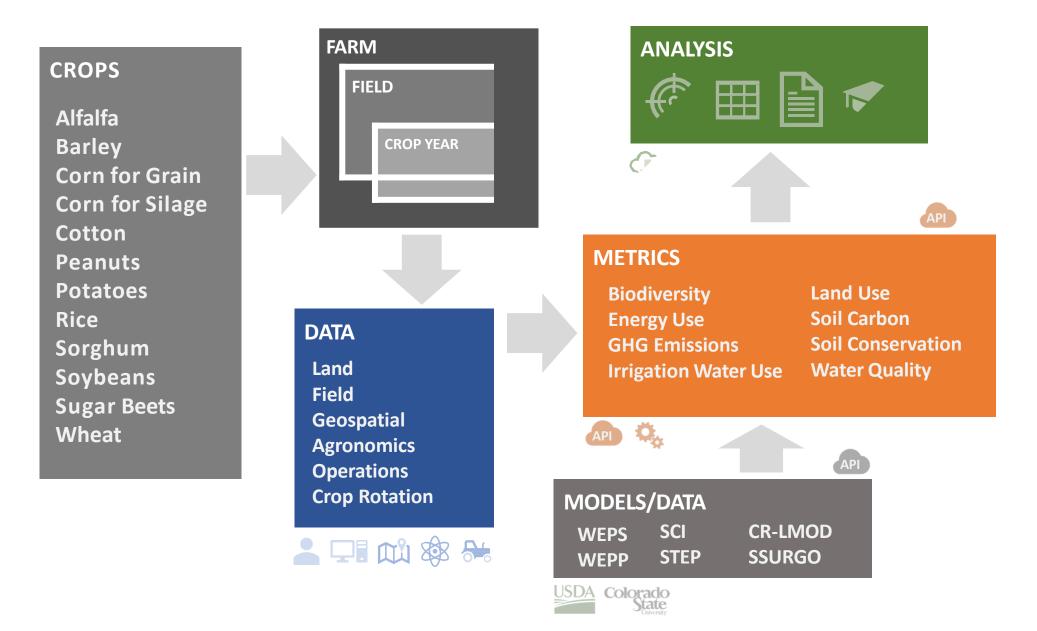


Soil Carbon: utilizes an NRCS tool, the Soil Conditioning Index (SCI), to analyze whether a field is gaining or losing carbon. Unit: index.



Water Quality: assesses the risk of nutrient loss on a field and how well some practices mitigate that risk (NRCS tool: STEP). Unit: index.

THE FIELDPRINT PLATFORM ENGINE



THE FIELDPRINT PLATFORM



Qualified Data Management Partners



















FIELDPRINT PROJECTS

CREATING A ROBUST SYSTEM OF SUPPORT TO ENHANCE

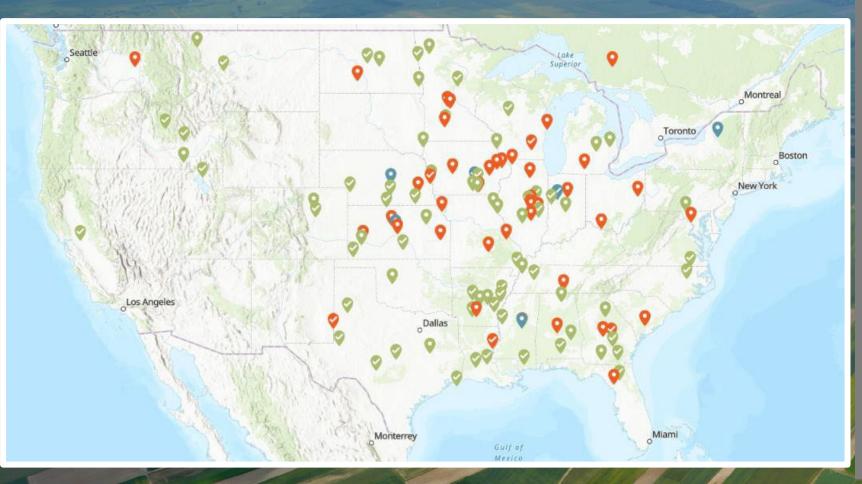
> FARMERS + RESILIENT LIVELIHOODS + ECOSYSTEMS

TRANSLATING SCIENCE INTO ACTION

Backed by the industry's leading pre-competitive sustainability measurement framework, Field to Market's **Continuous Improvement Accelerator** supports farmers and organizations in making decisions based on science, enabling the entire value chain to catalyze action across the agricultural landscape.



Implementing Programs at Scale: Fieldprint Projects



- In 2022, partners implemented 60+ projects across 5.4 million acres Many organization
- Many organizations and companies pool resources together to increase their impact (even competitors!)

See dashboard: https://members.fieldtomarket.org/members/projects



Three Continuous Improvement Project Types



INCUBATION

Creating enabling conditions by engaging with farmers on the connection between practices and at least one sustainability indicator



INSIGHT

Offering sustainability insights for farmers and transparency for value chain partners through measurement

INNOVATION

Provides tangible support for farmers in accelerating adoption of practices that deliver improved sustainability outcomes consistent with public project goals

Five Claim Categories

Credible Communications Backed By Data



EXPLORE YOUR ROLE IN SHAPING PROJECTS FOR IMPACT



IMPLEMENTATION PARTNERS	PROJECT SPONSORS
Aggregators & processors Ag service providers Conservation districts Grower organizations NGOs	Agribusinesses Brands and retailers Grower organizations NGOs
	Aggregators & processors Ag service providers Conservation districts Grower organizations

Why use the Fieldprint Platform? What

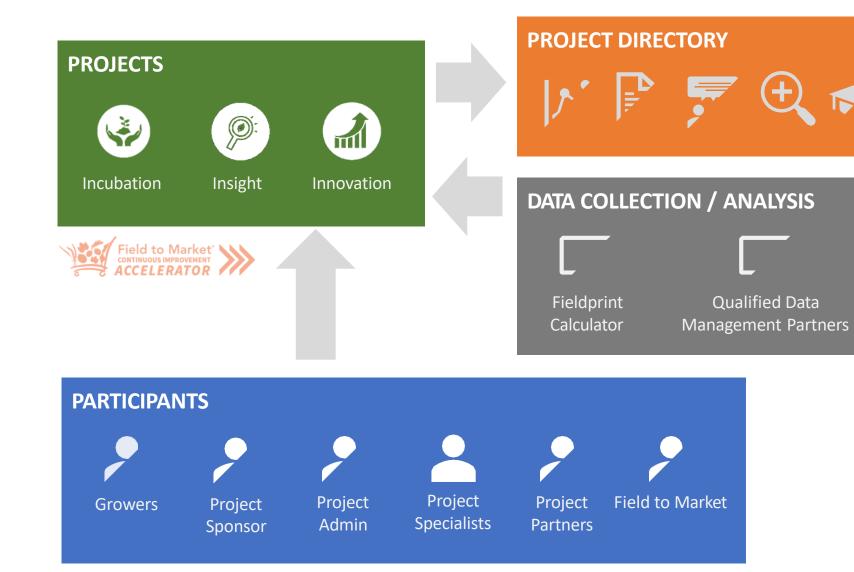


are the benefits of projects?

Farmers	Project Sponsors & Implementation Partners	
Data for decision support	 Outcomes reporting 	
Technical Assistance	 Supplier-specific emissions factors 	
Peer-to-peer networks	 Regenerative ag goals 	
• Incentives	 Actionable data for interventions 	
Market Access	Research	

Grower relationships

HOW PROJECTS WORK



EXAMPLE PROJECT

Continuous Improvement Project

Lafayette Ag Stewardship Alliance

The goal of this project is to improve water quality and soil health in an area of Southwest Wisconsin where a group of conservation-minded farmers are learning together and implementing practices to make a difference. This will be done by engaging farmer members of the Lafayette Ag Stewardship Alliance (LASA) and their partners in utilizing tools and data to increase knowledge and maximize the benefits of on-farm conservation work.

- Edge Dairy Farmer Cooperative
- Houston Engineering

- The Nature Conservancy
- University of Wisconsin Madison

EXAMPLE PROJECT

Continuous Improvement Project

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- Edge Dairy Farmer Cooperative (growers)
- Houston Engineering (tech partner)

- The Nature Conservancy (education)
- University of Wisconsin Madison (education)

RECOGNITION

ADM

Sustainability Awards

Celebrating growers, advisors, and collaborators





🛒 Field to Market®

FIELD TO MARKET

DEMONSTRATIONS

Demonstration

Fieldprint Platform Demonstration

https://calculator.fieldtomarket.org/

The Fieldprint[®] Platform is a pioneering assessment framework that empowers brands, retailers, suppliers, and farmers at every stage in their sustainability journey, to measure the environmental impacts of commodity crop production and identify opportunities for continuous improvement.

Demonstration

Project Management Features

- Grower view
- Project admin view

Demonstration

Data Analysis Tool Demonstration

https://fieldtomarket.org/QA

Field to Market's Quality Analysis (QA) tool will help you identify outliers, find errors, and gain insights about your Continuous Improvement Project

FIELD TO MARKET





More than just a tool, Field to Market provides a collaborative ecosystem to measure environmental impact and engage in continuous improvement with the entire agricultural value chain.

Contact Information

Science, Research, and Tech Inquiries Eric Coronel, ecoronel@fieldtomarket.org

Membership Inquiries

Coralie Pierre, cpierre@fieldtomarket.org

Partnership Inquiries

Kelsey Billings, <u>kbillings@fieldtomarket.org</u>



FIELD TO MARKET



Next steps in our outcomes estimation journey

- □ Join October 4 for the EPA PLET webinar
- Fill out the 6-question (2-min) online evaluation survey
- □ Schedule a free "coaching" session with us
 - **Email** <u>atappross@farmland.org</u>, RE: Coaching Request
- □ Order a free print copy of the OET Guide
 - ❑ Keyword: "AFT outcomes tools"

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Please keep in touch: outcomestools@farmland.org



FIELD TO MARKET

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FIELD TO MARKET

Fieldprint Calculator: Grower View Screenshots



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Welcome!

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Get Started

Use of the Calculator is free and data is kept confidential. Login, register for an account or explore the features as a guest. By Continuing with any of these options, you agree to the <u>Terms of Use</u>.



Need Help? Visit the <u>Support Portal</u> or contact us at <u>support@fieldtomarket.org</u>. Password reset is available from the login page.

Announcements

As of June 2023, Field to Market has achieved Gold Level Equivalence against SAI Platform's new FSA



🙁 Hi, Guest

FIELDPRINT PLATFORM Welcome (m) Dashboard **Field Library Tim Smith's Farm** Justin Knopf's Farm Glenn Schur's Farm Adam Rabinowitz's Farm Demo Farm **Crop Rotation Library** New **COMET-Planner** SCENARIO TOOL Support **Collapse Panel**

Shine a Light on Your Sustainability Story

Across the country, farmers like you harness the power of sustainability metrics from the Fieldprint[®] Platform to engage the supply chain and consumers on their sustainability story. Discover how this free and confidential tool can help you demonstrate the conservation and stewardship efforts on your farm.

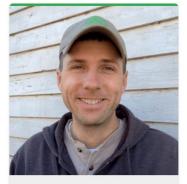
Learn how farmers throughout the United States use the Fieldprint Platform to document the sustainability outcomes of their stewardship efforts, pursue continuous improvement and partner with downstream customers in the value chain to advance sustainable agriculture.

Hear from Farmers Like You



All Farmers:





Tim Smith 4th Generation Farmer Eagle Grove, Iowa Corn & Soy

View Profile



Data and Privacy Policy | Terms of Use



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Welcome!

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Welcome, Eric!

Continue to Calculator

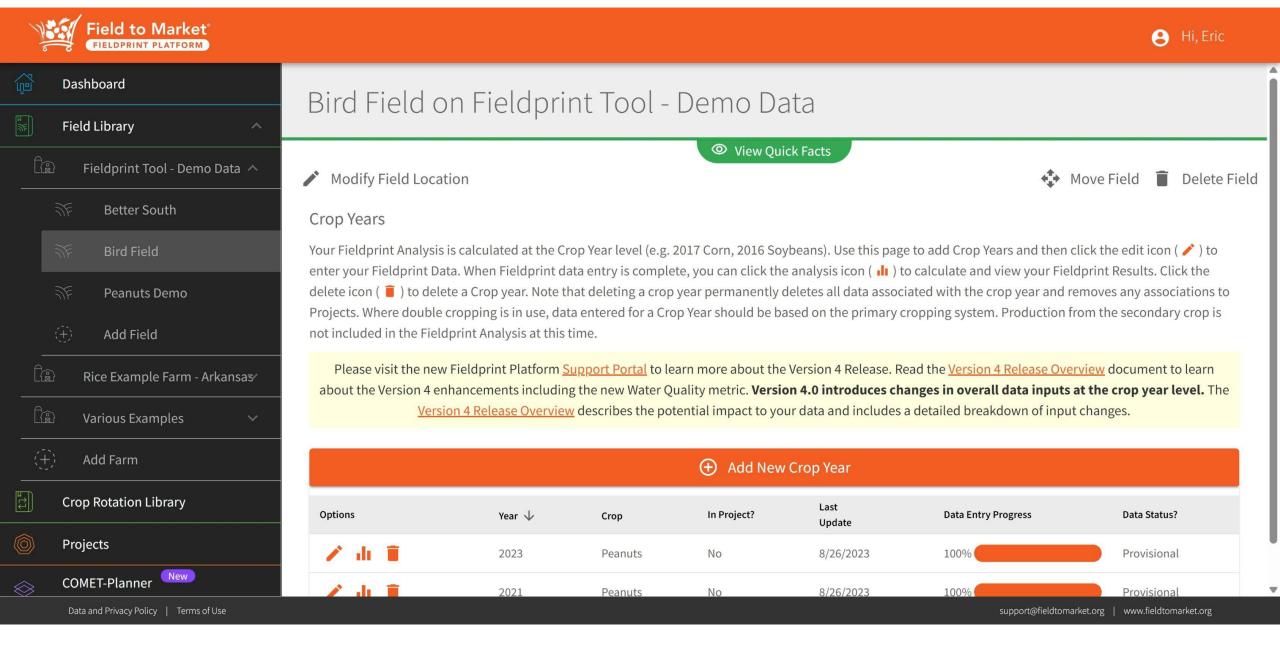
Logout

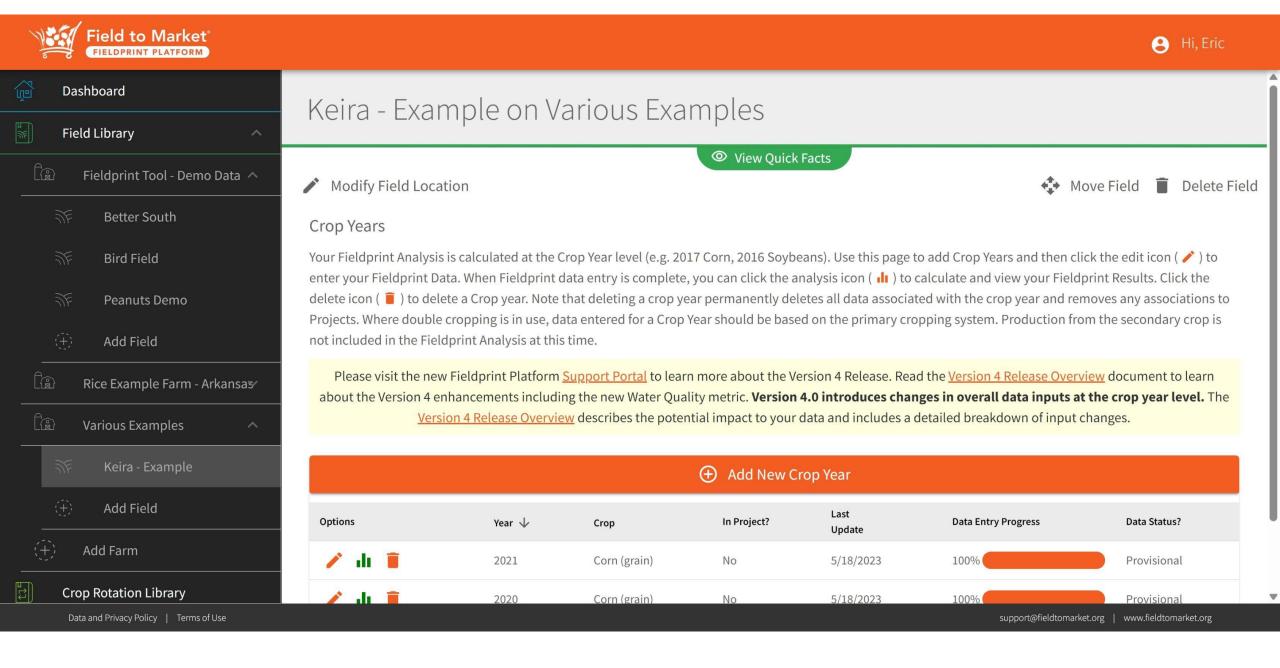
Need Help? Visit the <u>Support Portal</u> or contact us at <u>support@fieldtomarket.org</u>. Password reset is available from the login page.

Announcements

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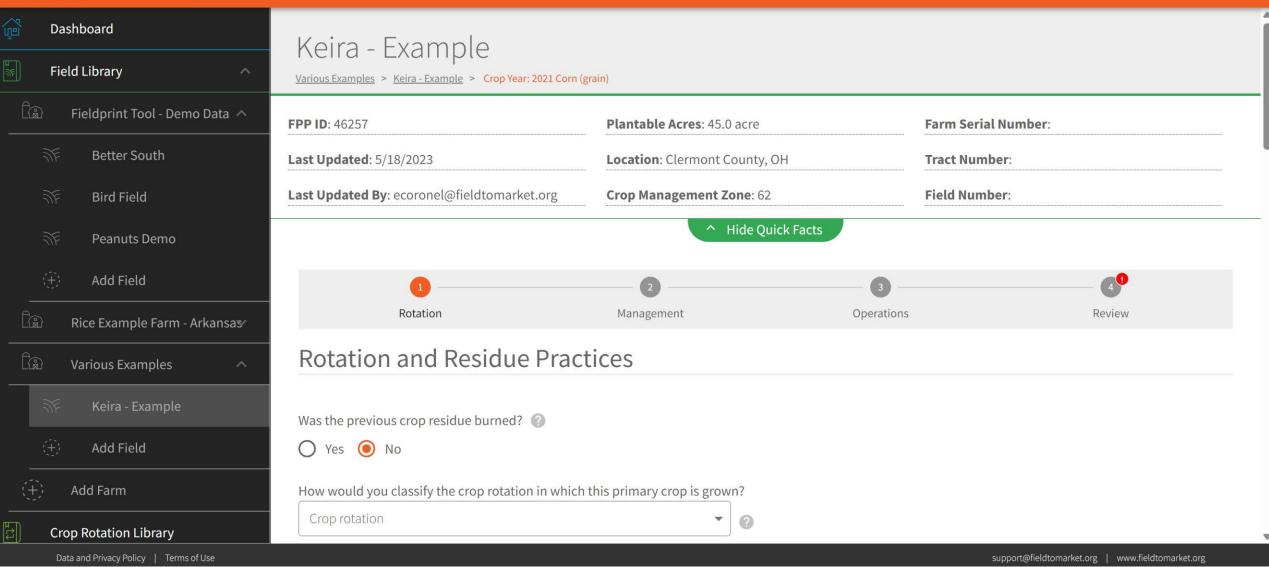
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(+) Add Fa	ırm	Farm	Field		Crop	Year		2	_	
Crop Rota	tion Library		•	•			Clear Filters	n		=
Projects		Farm	Field	Acres	Year 🗸	Сгор	Project	Finalized*	View	
COMET-PL		<u>Fieldprint Tool - Demo</u> <u>Data</u>	<u>Bird Field (Mr. Rocky</u> <u>Courson's 2021)</u>	28.0	2023	Peanuts	N/A	No	0	di
? Support		<u>Fieldprint Tool - Demo</u> <u>Data</u>	Peanuts Demo	37.0	2022	Peanuts	N/A	No	0	dr
< Collapse F	Panel	<u>Fieldprint Tool - Demo</u> <u>Data</u>	Better South	40.0	2022	Peanuts	N/A	No	0	di
		<u>Rice Example Farm -</u> <u>Arkansas</u>	my-example-field-01	193.0	2022	Rice	N/A	No	0	di
		<u>Fieldprint Tool - Demo</u>	Peanuts Demo	37.0	2021	Peanuts	N/A	No	0	.6







🙁 Hi, Eric





in Dashboard <u>が</u> **Field Library** Fieldprint Tool - Demo Data \land **Better South** Bird Field Peanuts Demo Add Field Rice Example Farm - Arkansas Various Examples Add Field Add Farm

Crop Rotation Library

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Do you use a cover crop (planted or naturally established)?	
How would you classify the predominant tillage regime used across the en crop rotation?	tire
■ 15-30% residue (Reduced tillage)	0

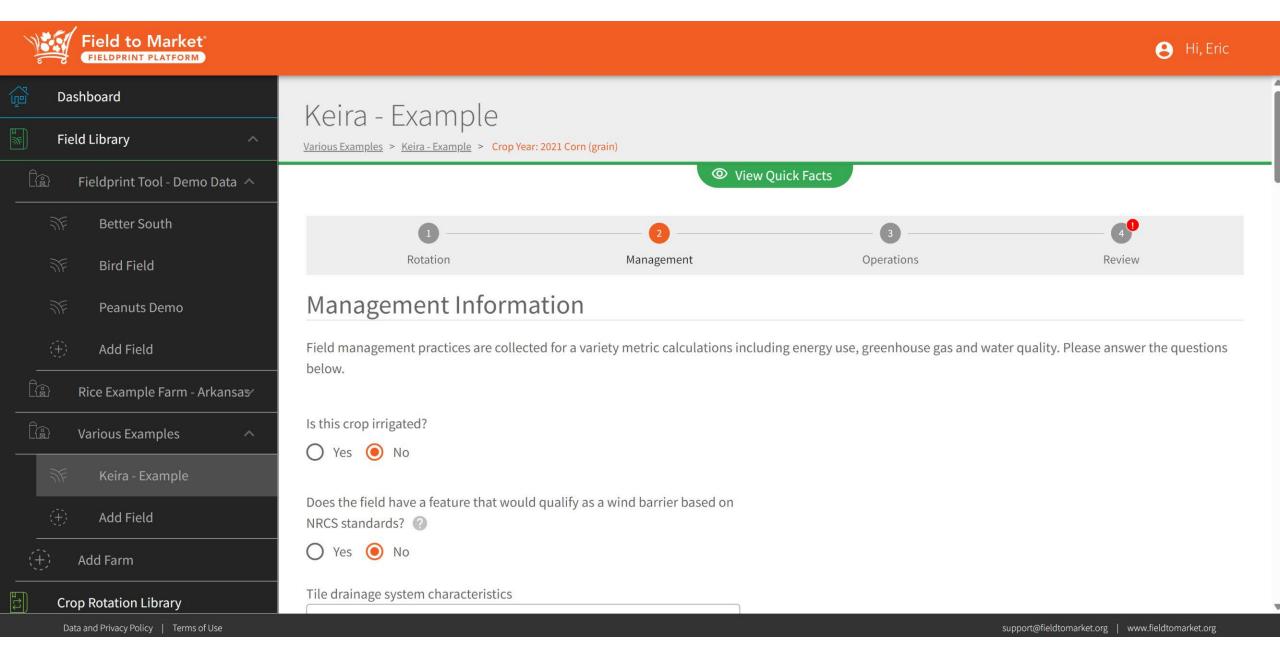
Select a Crop Rotation System

Please select or build a representative crop rotation system for your crop year. To apply a system, either select a template from the 'Crop Rotation Library' OR click on 'Add New System' below.

This rotation is used to run the models that estimates soil erosion, the soil conditioning index, and the chosen activities are used to estimate energy and GHG emissions and some aspects of the water quality metric - please make it as accurate as possible.

Crop Rotation Library

Template Name 🛧	NRCS Template Name	Last Updated	View Template
Ohio - Corn / Soybean	corn grain;NT, Soybean, nr, FC, st pt, fcult z4	5/18/2023	Ο
Ohio - Corn / Soybean + Cover Crop	corn grain;NT, Soybean, nr, FC, st pt, fcult z4	5/18/2023	0
	Ohio - Corn / Soybean	Ohio - Corn / Soybean corn grain;NT, Soybean, nr, FC, st pt, fcult z4	Ohio - Corn / Soybean corn grain;NT, Soybean, nr, FC, st pt, fcult z4 5/18/2023







🚰 Dashboard	Did you apply nitrogen this crop year? 🕐		
Field Library	● Yes ○ No		
🗟 Fieldprint Tool - Demo Data 🔨	What was the approximate soil nitrogen carry-over from last season?		
्रें Better South	If you do not have this information, you can use a default of 50 lbs/ac.		
ज्ञेंह Bird Field	Nutrient management techniques 📀		
SF Peanuts Demo	Nutrient application form - Nitrification inhibitors		
(+) Add Field	 fertilizers Nutrient application form - Urease inhibitors 		
িঞ্জি Rice Example Farm - Arkansaঙ্গ	 Nutrient application rate - Adjust based on cornstalk nitrate test 		
C Various Examples	Nutrient application rate - Adjust based on fall soil nitrate test (FSNT)		
آب Keira - Example	 Nutrient application rate - Adjust based on pre-sidedress nitrogen test (PSNT) or late spring soil nitrate test 		
(+) Add Field	Nutrient application rate - Adjust based on tissue testing		
(+) Add Farm	Nutrient application rate - Nutrient application set-backs		
Crop Rotation Library	Nutrient application rate - Precision application		
Data and Privacy Policy Terms of Use			

lbs/ac 🕜





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ក្រុម Dashboard	Was any part of this field converted from a use other than cropland within 5 years of the entered crop year? 🕜
Field Library	O Yes O No
ි 🕼 Fieldprint Tool - Demo Data 🔨	Do you practice any season enhancements for wildlife habitat? (select all that
ন্ট Better South	apply) 🕐
ন্ট Field	🔲 Provide foraging habitat 🗹 Provide breeding and/or nesting habitat
ন্ট Peanuts Demo	
(+) Add Field	Conservation Practices
Rice Example Farm - Arkansas	Select one or more water conservation practices used that pertain to this field. 🕜
🕼 Various Examples 🔥	Search Filter
	Start typing to search for a practice.
IF Relia - Lyampie	Field border
(+) Add Field	Filter strip 30 ft min width
(+) Add Farm	Grassed waterway
	Residue and tillage management, reduced tillage
Crop Rotation Library	Access control
Data and Privacy Policy Terms of Use	support@fieldtomarket.org www.fiel



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щ Т	Field Library			
Ē		Fieldprint Tool - Demo Data \land		
	<u> </u>	Better South		
	<u> </u>	Bird Field		
	<u> </u>	Peanuts Demo		
		Add Field		
		Rice Example Farm - Arkansasy		
Ē		Various Examples		
	<u>بر</u>	Keira - Example		
	(E)	Add Field		
	Ð	Add Farm		
L1H	Crop Rotation Library			

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Operations

The following inputs are related to field operations. Not all field operations in your crop rotation management are required here. Data requested is based on metric input requirements. Commercial Fertilizer and Crop Protectant Applications are organized on a per trip basis. For example, you might have three commercial fertilizer and/or crop protectant trips over the course of a season. In your first application trip, you might apply multiple fertilizers in addition to crop protectants.



Planting



Fertilizer and Spraying Operations

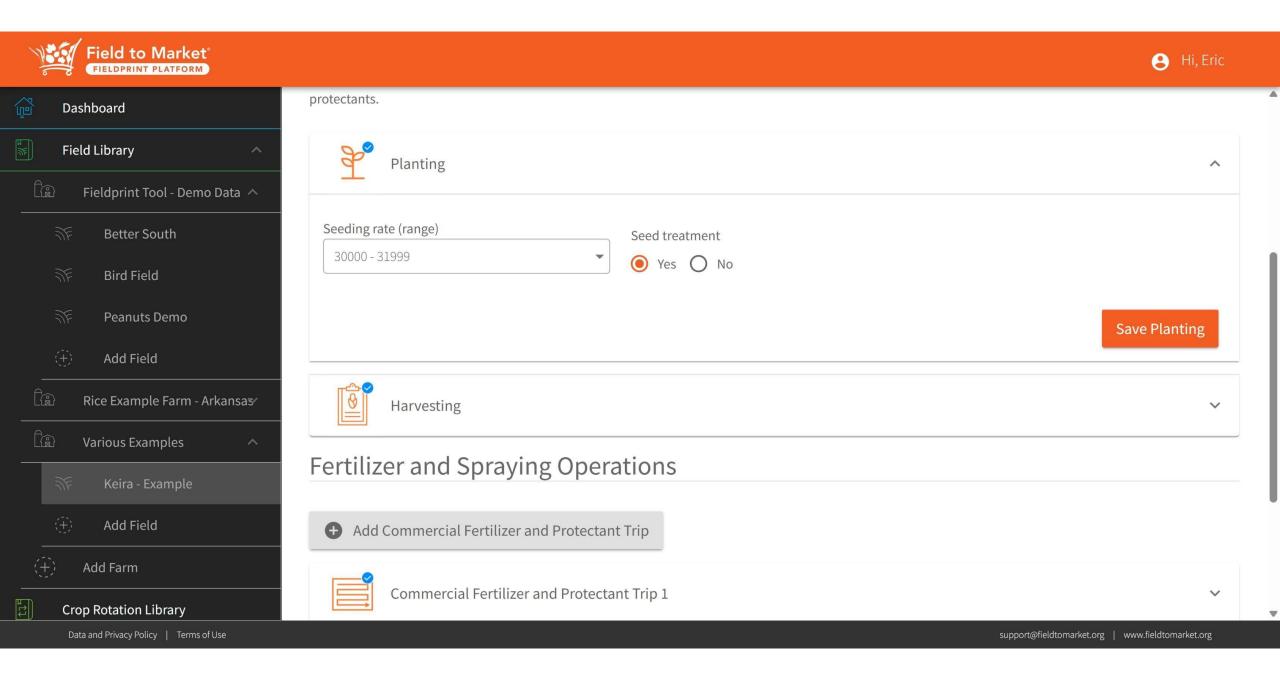
Add Commercial Fertilizer and Protectant Trip

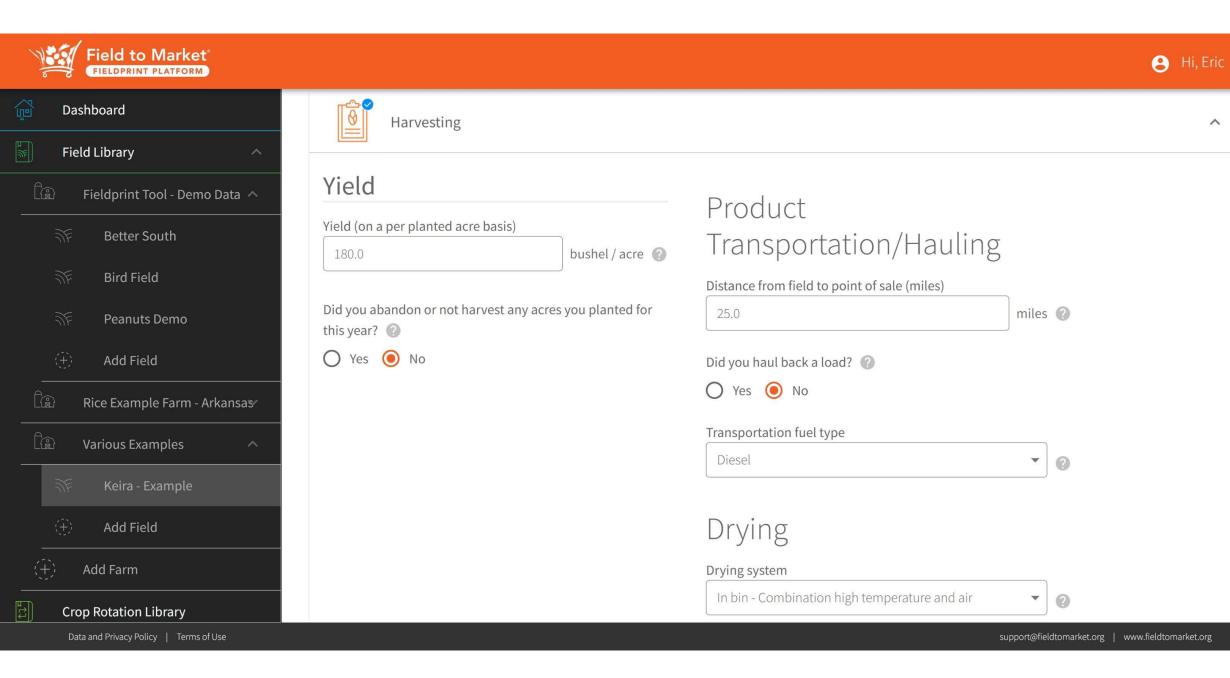


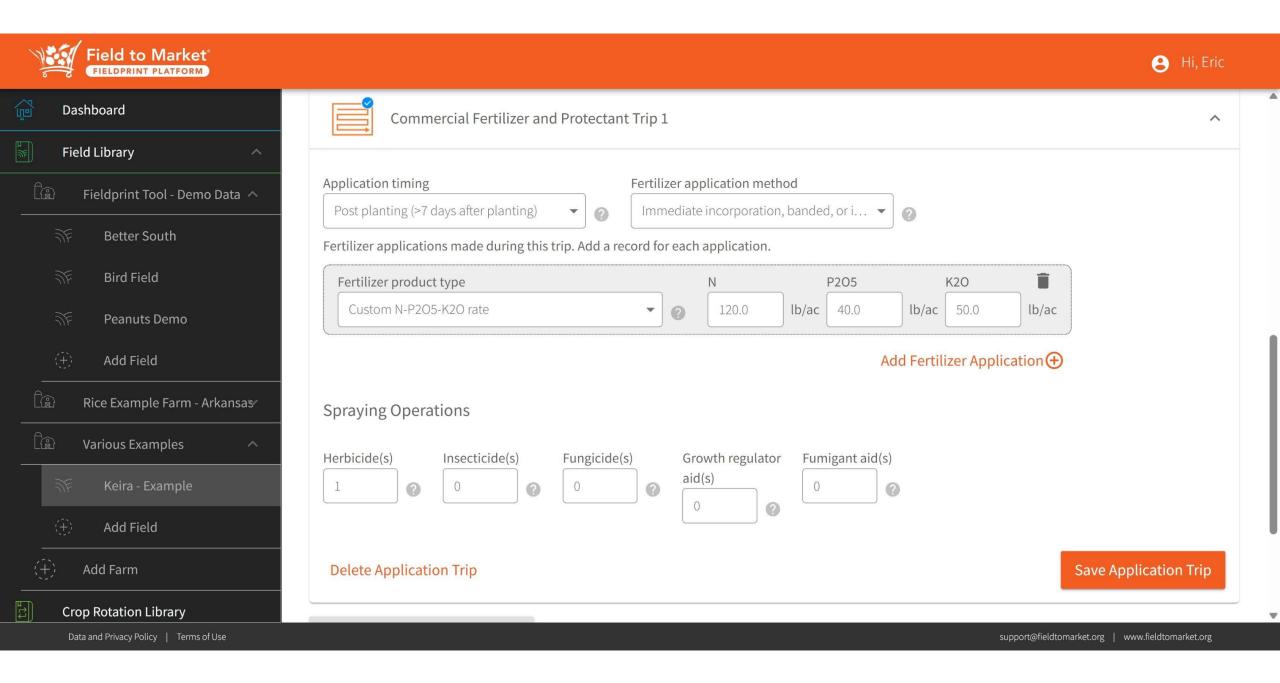
Commercial Fertilizer and Protectant Trip 1

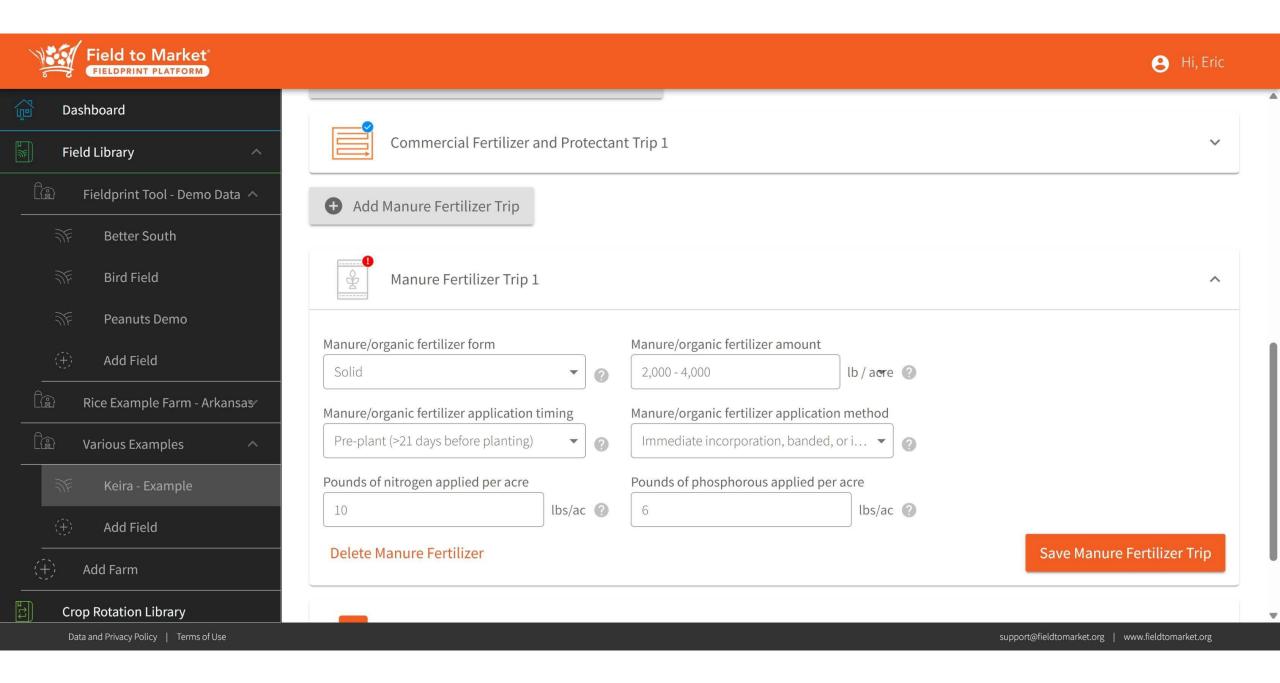
Add Manure Fertilizer Trip

support@fieldtomarket.org | www.fieldtomarket.org











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Dashboard Field Library Fieldprint Tool - Demo Data \land **Better South Bird Field** Peanuts Demo Add Field Rice Example Farm - Arkansas Various Examples Add Field Add Farm

Crop Rotation Library

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1. Confirm Data Status

By default, crop year data status is marked as provisional. When your data is complete and finalized for the year, and you have reviewed the data for accuracy, mark the data as finalized. This is important as only finalized data is included in Project and Field to Market Program analysis and reporting.

Current Data Status: Provisional

Click to Finalize Your Current Data

2. Calculate Fieldprint Analysis

Now that your data is complete, you can generate your Fieldprint Analysis. You can return at any time to edit the crop year data or change the data status.

Generate Your Fieldprint Analysis

Other Steps

Return to Field Dashboard Return to the dashboard for this field to manage other crop years. Go Now >

Associate Field with a Project If you are already part of a Project or if you have been invited to join a Project, manage these field

associations from the Project page. Go Now >

When should I finalize my data?

Data should be marked as finalized when the data entered for a crop year is final for year and it has been validated or reviewed for accuracy. The goal is to improve data quality.

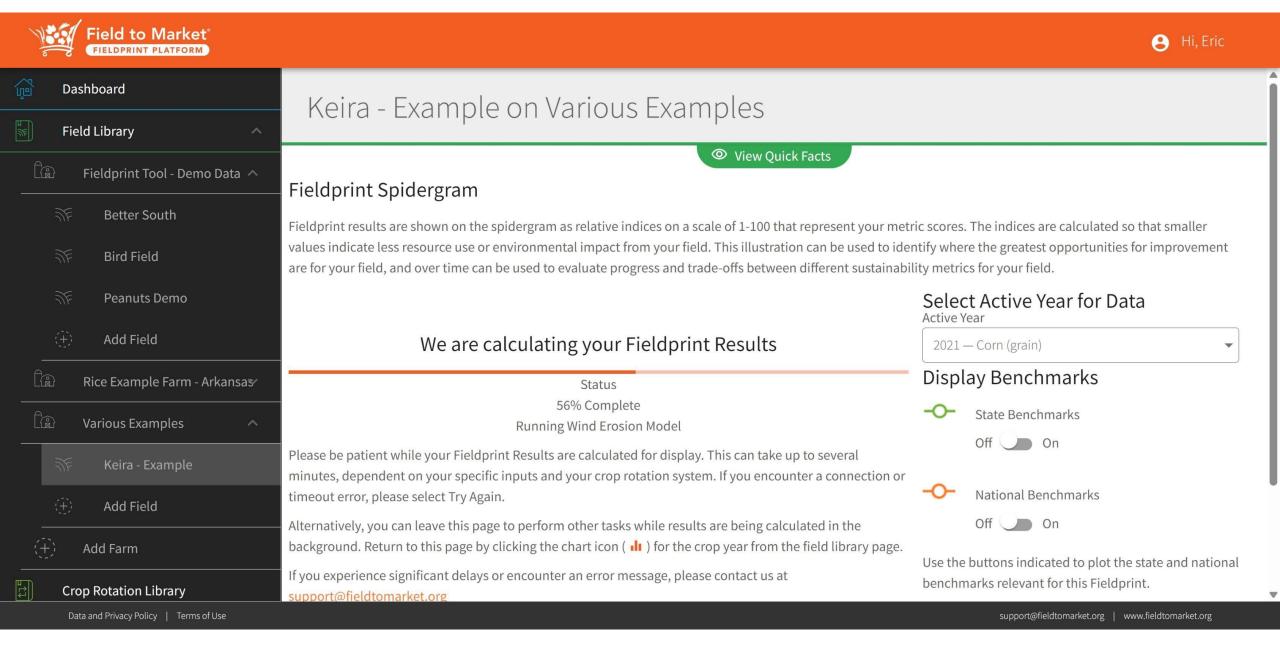
What happens when I finalize my data?

Data that is finalized will be included in Field to Market program and Project analysis and reporting. Data marked provision is not included.

Can I revert my data back to provisional status?

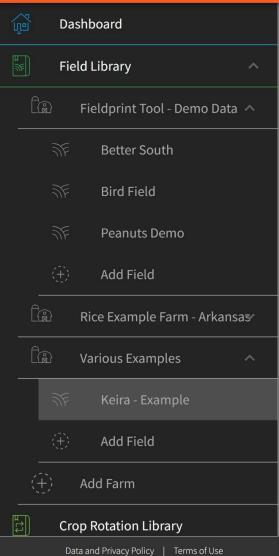
You can set data back to provisional if needed. For example, if you realize data inputs need to be changed but the data is not yet available, mark the data provisional. Once completed, you can set the data back to finalized.

1

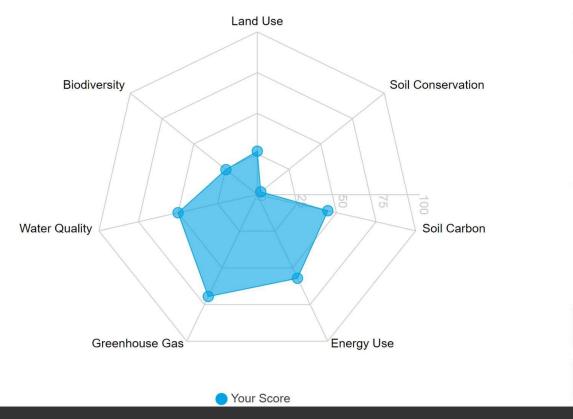




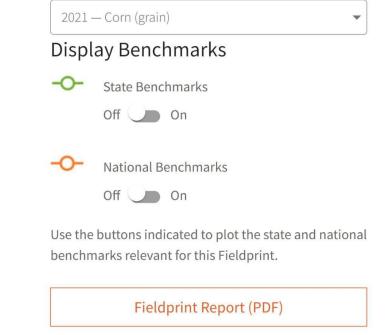
Fieldprint Spidergram



Fieldprint results are shown on the spidergram as relative indices on a scale of 1-100 that represent your metric scores. The indices are calculated so that smaller values indicate less resource use or environmental impact from your field. This illustration can be used to identify where the greatest opportunities for improvement are for your field, and over time can be used to evaluate progress and trade-offs between different sustainability metrics for your field.



Select Active Year for Data



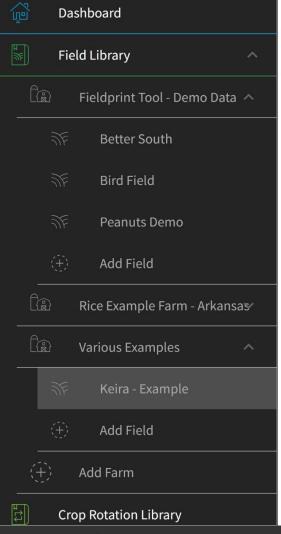
Return to Data Input

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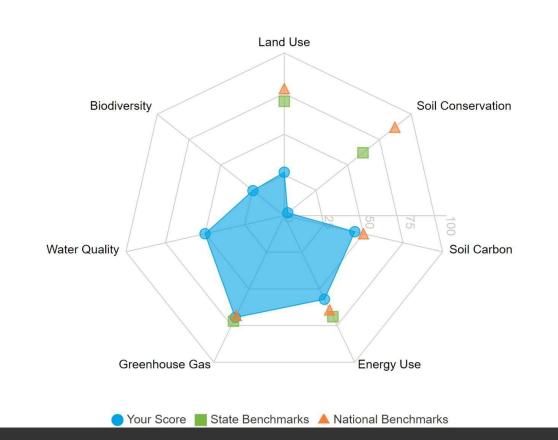
8



Fieldprint Spidergram



Fieldprint results are shown on the spidergram as relative indices on a scale of 1-100 that represent your metric scores. The indices are calculated so that smaller values indicate less resource use or environmental impact from your field. This illustration can be used to identify where the greatest opportunities for improvement are for your field, and over time can be used to evaluate progress and trade-offs between different sustainability metrics for your field.



Select Active Year for Data





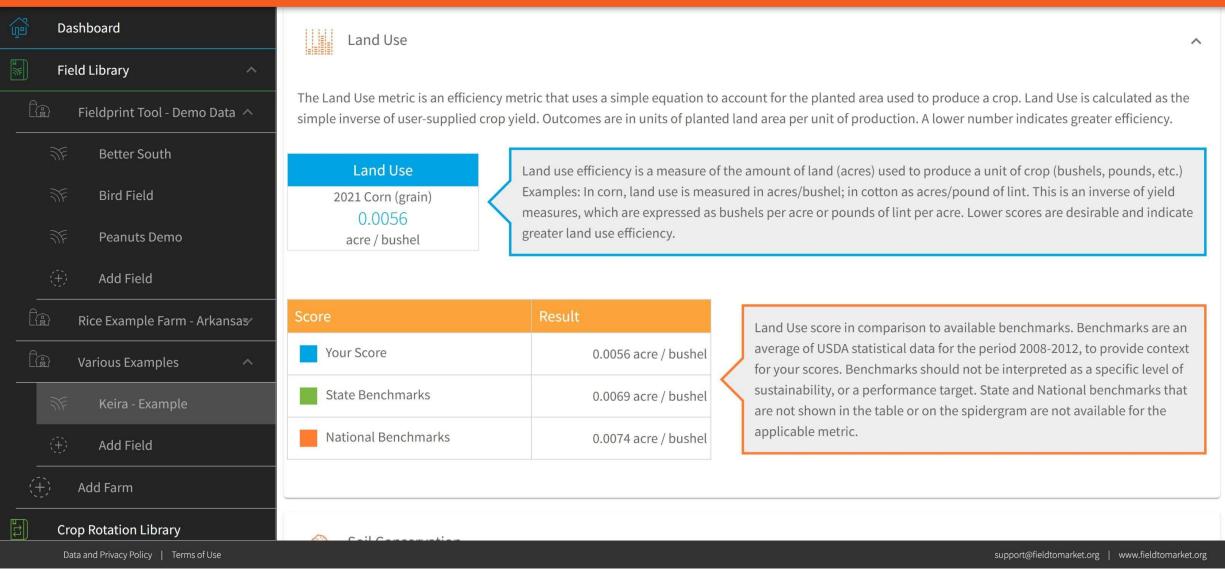
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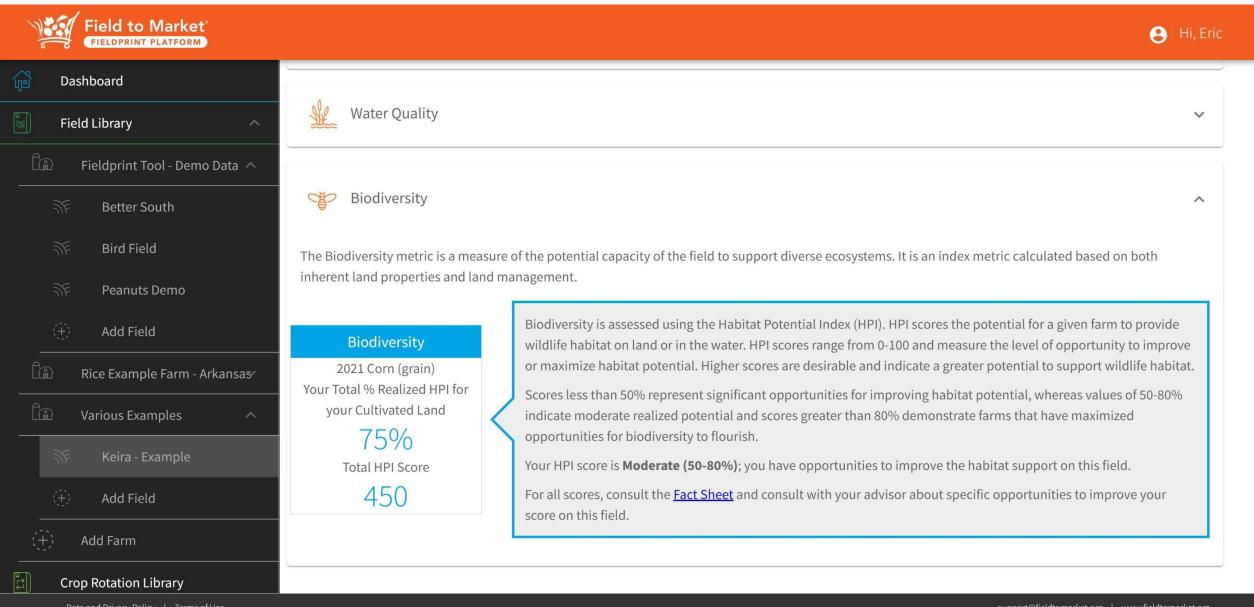
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Dashboard 2 T **Field Library** Fieldprint Tool - Demo Data \land **Better South** Bird Field

Peanuts Demo

			Add Field	
		(B B	Rice Example Farm - Arkaı	
	Ē		Various Examples	
		<u>بر</u>	Keira - Example	
		(\mathbf{f})	Add Field	
			Add Farm	

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Surface P (Phosphorus), Subsurface P, Surface N (Nitrogen), and Subsurface N. STEP then assigns mitigation points for management practices that impact nutrient loss (a Risk Mitigation Score (RMS)).

Water Quality 2021 Corn (grain) 2/4Pathways Mitigated

The combined STEP metric indicates how many pathways have been mitigated.

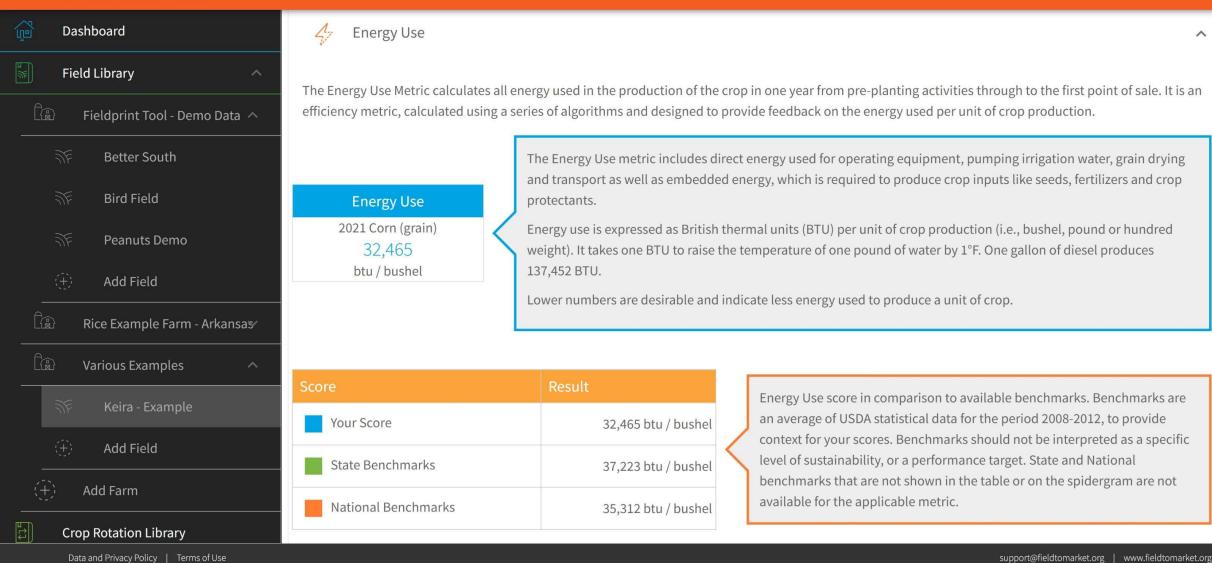
Loss Pathway	Field Sensitivity Category	Pathway Ratio (RMS / FSS)	Pathway Mitigation	
Surface Phosphorus	Moderate	2.6 8 (53.5 / 20)	Mitigated	
Subsurface Phosphorus	High	0.14 (10 / 70)	Improve	<
Surface Nitrogen	Moderate	1.81 (63.5 / 35)	Mitigated	
Subsurface Nitrogen	High	0.42 (25 / 60)	Improve	

The final metric score for each nutrient loss pathway is a ratio of how effective management practices are at mitigating nutrient loss (Risk Mitigation score (RMS)) to how sensitive the field is to nutrient loss based (Field Sensitivity Score (FSS)). If the ratio is 1 or higher, the basic level of risk mitigation for excessive nutrient loss has been met. If the ratio is below 1, excessive nutrient loss is likely, and producers should discuss potential mitigation practices with their advisors.



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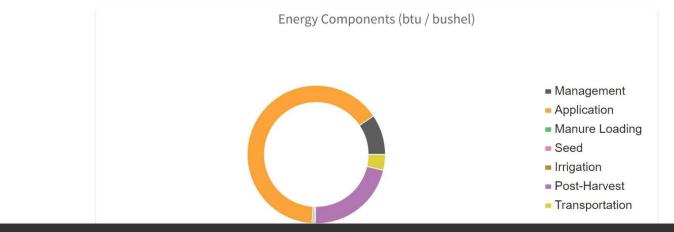
Dashboard Field Library Fieldprint Tool - Demo Data \land **Better South** Bird Field Peanuts Demo Add Field

Rice Example Farm - Arkansa			
		Various Examples	
	<u>بر</u>	Keira - Example	
	$(\widehat{+})$	Add Field	
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Component	(btu / acre)	(btu / bushel)
Management Energy	551,190	3,062
✓ Application Energy	3,774,166	20,968
Manure Loading Energy	24,234	135
Seed Energy	19,872	110
Irrigation Energy	0	0
Post-Harvest Energy	1,259,280	6,996
Transportation Energy	214,898	1,194
Total Energy	5,843,640	32,465

Table showing values for each individual component of your Energy Use score, in both BTU / acre and BTU / bushel.

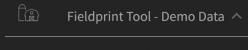




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Dashboard Field Library





ন্দ Bird Field

ন্দি Peanuts Demo

(+) Add Field

🕼 Rice Example Farm - Arkansas

🕼 Various Examples

्रि Keira - Example

 (+)
 Add Field

 +)
 Add Farm



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🖉 Greenhouse Gas

The Greenhouse Gas (GHG) Emissions metric calculates the total emissions from four main sources – energy use, nitrous oxide emissions from soils, methane emissions (rice only) and emissions from residue burning. It is an efficiency metric calculated using a series of complex algorithms to determine the total GHG emissions per unit of crop production.

Greenhouse Gas 2021 Corn (grain) 11.6 lbs-CO₂e / bushel Greenhouse gas emissions are reported in the Fieldprint[®] Platform as pounds of carbon dioxide equivalent (CO₂e) per crop unit produced (e.g. bushels or pounds). "CO₂e" simply means the N₂O and CH₄ emissions are converted to the equivalent amount of CO₂, to provide a common unit of all emissions in one measure, which is comparable over time and influenced by all the actions a farmer takes.

The Fieldprint[®] Platform uses standard U.S. government assumptions regarding fuel use, such as the 22.3 pounds of CO₂e that are emitted per gallon of diesel combusted. Emissions also result from electricity and fuel usage as well as from burning crop residues.

Low scores are desirable and indicate less greenhouse gas emitted per unit of crop produced.

Score	Result		
Your Score	11.6 lbs_co2e / bushel		
State Benchmarks	11.9 lbs_co2e / bushel		

Greenhouse Gas score in comparison to available benchmarks. Benchmarks are an average of USDA statistical data for the period 2008-2012, to provide context for your scores. Benchmarks should not be interpreted as a specific level of sustainability, or a performance target. State and National benchmarks that are not shown in the table or on the spidergram are not



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Field Library						
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	GHG Emission	
Component	(lbs-CO ₂ e/ac)	(lbs-CO ₂ e/bu)
Emissions associated with energy used	on the Farm	
Management Energy Emissions	90.3	0.5
✓ Application Energy Emissions	607.1	3.4
Manure Loading Energy Emissions	4	0
Seed Energy Emissions	5.9	0
Irrigation Energy Emissions	0	0
Post-Harvest Energy Emissions	283.1	1.6
Transportation Energy Emissions	35.2	0.2
Energy Subtotal	1,025.6	5.7
Soil N2O emissions	1,060.2	5.9
Residue burning emissions	0	0
Total GHG Emissions	2,085.8	11.6

Breakdown of Greenhouse Gas Emission components. Values are shown on both a per acre and per bushel basis.

Nitrous oxide emissions from a field are taken from results of a detailed crop model based on crop type, region of the country and soil texture to determine how much N_2O results from additions of nitrogen (N) from fertilizer and manure.

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Dashboard 2 T **Field Library** Fieldprint Tool - Demo Data \land **Better South Bird Field** Peanuts Demo Add Field Rice Example Farm - Arkansas Various Examples Add Field Add Farm **Crop Rotation Library**



Soil Conservation

The Soil Conservation metric is a measure of soil lost to erosion from water and wind, and is calculated using USDA NRCS models and reported to the user as tons of soil lost per acre. It is an efficiency metric that uses a complex biophysical model to simulate crop growth, water flow across the field, and sediment runoff.

Soil Conservation 2021 Corn (grain) 0.9

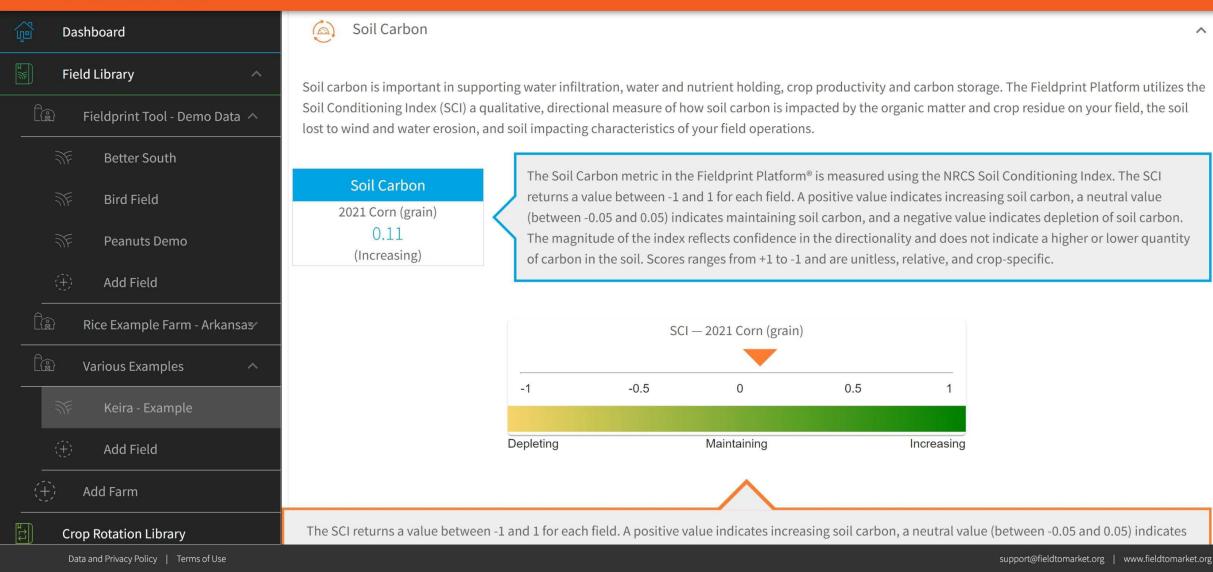
0.9 ton / acre / year The Soil Conservation metric is expressed as soil erosion and is measured as tons of soil lost (T) per unit of land area (acre) per year. Lower numbers are desirable and indicate less soil lost from erosion per acre. A Soil Erosion Fieldprint Score of 0 would indicate that no soil was lost in that year.

Score	Result	
Your Score	0.9 ton / acre / year	/
State Benchmarks	2.3 ton / acre / year	<
National Benchmarks	3.6 ton / acre / year	

Soil Conservation score in comparison to available benchmarks. Benchmarks are an average of USDA statistical data for the period 2008-2012, to provide context for your scores. Benchmarks should not be interpreted as a specific level of sustainability, or a performance target. State and National benchmarks that are not shown in the table or on the spidergram are not available for the applicable metric.



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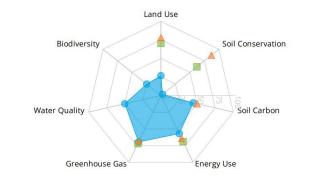


Fieldprint Analysis Report | 2021 Corn (grain)

Grower/Account Name: ecoronel@fieldtomarket.org Location: Clermont County, OH Farm/Field: Various Examples / Keira - Example Crop Year: 2021 Com (grain) Report Generated: 08/28/2023 01:39 PM Plantable Acres: 45.0 acre Irrigated: No Platform: Fieldprint Calculator FPP Version: 4.0 Data Status: Final

Fieldprint Result

Fieldprint results are shown on the spidergram as relative indices on a scale of 1-100 that represent your metric scores. The indices are calculated so that smaller values indicate less resource use or environmental impact from your field. This illustration can be used to identify where the greatest opportunities for improvement are for your field, and over time can be used to evaluate progress and trade-offs between different sustainability metrics for your field.



Metric	Your Result	State Benchmark	🔺 National Benchmark
Land Use (acre / bushel)	0.0056	0.0069	0.0074
Soil Conservation (ton / acre / year)	0.9	2.3	3.6
Soil Carbon	0.11	N/A	0
Energy Use (btu / bushel)	32,465	37,223	35,312
Greenhouse Gas (lbs-CO ₂ e / bushel)	11.6	11.9	11.4
Water Quality	2	N/A	N/A
Biodiversity	75%	N/A	N/A

The Water Quality score here indicates how many of the four loss pathways have been mitigated. For more detail on each metric score please refer to the individual metric output. Benchmarks represent an average based on USDA statistical data for the period 2008-2012 and provide context for how your scores relate to this known point. Benchmarks should not be interpreted as a specific level of sustainability, or a performance target. State and National benchmarks that are not shown in the table or on the spidergram are not available for the applicable metric.

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Dashboard Export Data 2 T **Field Library** Fieldprint Tool - Demo Data \land Data Export **Better South Bird Field** The current Metric Version is 4.0. Peanuts Demo Add Field Rice Example Farm - Arkansas Project Handout. Various Examples Add Field Add Farm L1 L **Crop Rotation Library** Data and Privacy Policy | Terms of Use

Use the data export function to download your input data and Fieldprint Results in a single spreadsheet. This can be useful to store, transfer or evaluate your data across all fields. Filter the report using the filters below. Once you request the report, the Platform will send an email with a link to download the file.

Partnering with Field to Market and USDA National Resource Conservation Service (NRCS) in Conservation Planning

Your downloaded data can used by conservation planners as input to tools like NRCS Conservation Application Ranking Tool (CART), for faster evaluation and assessment. Check all data export options including the option to download your boundary files and the Fieldprint Platform to CART Data Crosswalk. Your data will come in a compressed file format (.zip) and can be emailed or uploaded to <u>Farmers.gov</u>. Learn more by downloading the <u>Field to Market NRCS Interoperability</u> <u>Project Handout</u>.

Farm 个	Field	Year	Сгор	Data Status	Metric Status	Metric Version	Project	Select
•	•	•	•	•	•	•	•	
Fieldprint Tool - Demo Data	Peanuts Demo	2015	Peanuts	Provisional	Calculated	4.0		
Fieldprint Tool - Demo Data	Peanuts Demo	2021	Peanuts	Provisional	Calculated	4.0		

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	shboard eld Library Fieldprint Tool - Demo Data ^ Better South Bird Field Peanuts Demo Add Field Rice Example Farm - Arkansasy Various Examples Add Field Add Field Add Field

Fieldprint Tool - Demo Data	Better South	2020	Peanuts	Provisional	Calculated	4.0		
Fieldprint Tool - Demo Data	Better South	2021	Peanuts	Provisional	Calculated	4.0		
Fieldprint Tool - Demo Data	Better South	2022	Peanuts	Provisional	Calculated	4.0		
Various Examples	Keira - Example	2019	Corn (grain)	Provisional	Calculated	4.0	\checkmark	
Various Examples	Keira - Example	2020	Corn (grain)	Provisional	Calculated	4.0	\checkmark	
F	Rows per page: 10	1-10 c	f12 <	< > >I				

Select Data Export Options





SHP Field Boundaries \checkmark

XSLX CART Data Crosswalk for Fieldprint Platform Data

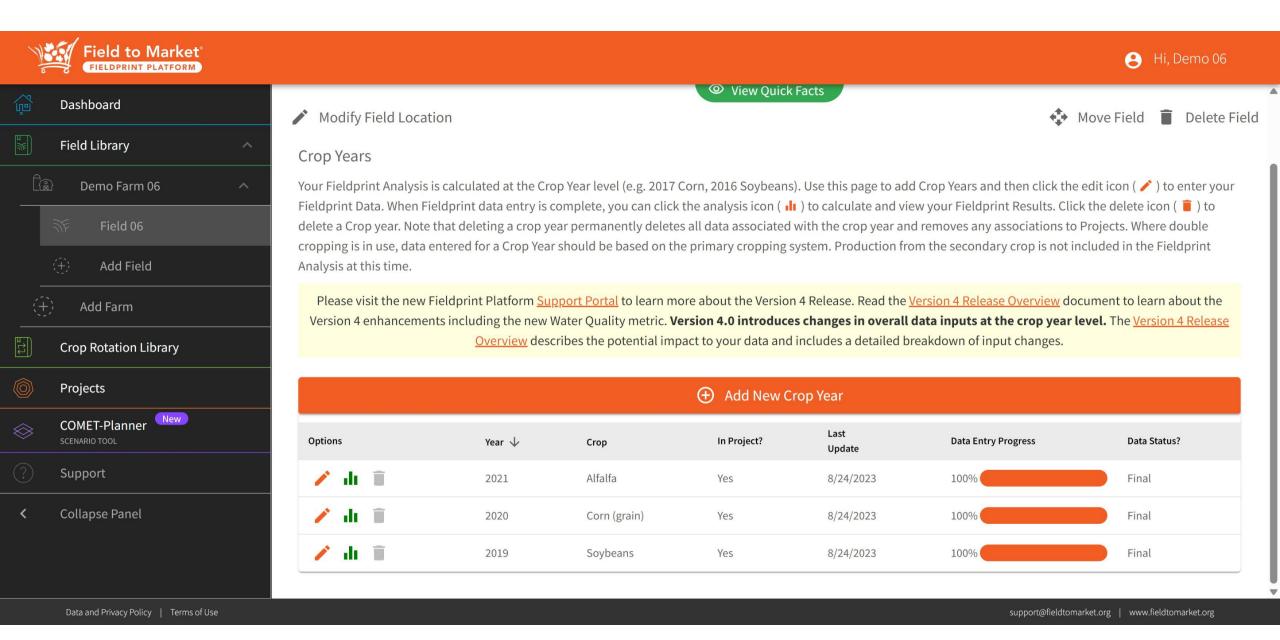
Request Report

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Project Management Screenshots: Grower View

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			© Vi	ew Quick Facts				
					($m{D}$) or in table view (\equiv)). Click on a map ma	rker (🕈) d	or the field
Filter by Categor	у					Select View		
Farm	Field		Crop	Year		CI.	_	=
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Farm	Field	Acres	Year 🗸	Сгор	Project	Finalized*	View	
Demo Farm 06	Field 06	286.07	2021	Alfalfa	Demo Project on Test	Yes	0	di 👘
<u>Demo Farm 06</u>	Field 06	286.07	2020	Corn (grain)	Demo Project on Test	Yes	0	di 👘
Demo Farm 06	Field 06	286.07	2019	Soybeans	Demo Project on Test	Yes	0	di 👘
*	This page provides a boundary (dependin) Filter by Category Farm Farm Demo Farm 06 Demo Farm 06 Fieldprint Data in the Platform I	This page provides a dashboard view of your boundary (depending on zoom level) to see Filter by Category Farm Farm Field Image: Second s	This page provides a dashboard view of your Farms and Fields. Filter by Category Farm Field * Farm Field * Pemo Farm 06 Field 06 286.07 Demo Farm 06 Field 06 286.07 Demo Farm 06 Field 06 286.07	Image of the provides a dashboard view of your Farms and Fields. You can view you boundary (depending on zoom level) to see additional field details and link to th Filter by Category Farm Field Farm Field Field Farm Field Field Farm Field Farm Field Pemo Farm 06 Field 06 286.07 2020 Demo Farm 06 Field 06 286.07 2019	Image: Space provides a dashboard view of your Farms and Fields. You can view your fields in map view boundary (depending on zoom level) to see additional field details and link to the field dashboard. Filter by Category Farm Field Crop Year Farm Field Arres Year ↓ Crop Demo Farm 06 Field 06 286.07 2021 Alfalfa Demo Farm 05 Field 06 286.07 2019 Soybeans	Image of the provides a dashboard view of your Farms and Fields. You can view your fields in map view (□) or in table view (=) boundary (depending on zoom level) to see additional field details and link to the field dashboard. Filter by Category Field Crop Year Farm Field Crop Year Farm Field Crop Year Earn Field Clear Filters Farm Field Clear Filters Earn Field Clear Filters Earn Field Clear Filters Earn Field Clear Filters Earn Field Crop Year Earn Field Acres Year ↓ Clear Filters Earn Field 286.07 2021 Alfalfa Demo Project on Test Demo Farm 06 Field 06 286.07 2019 Soybeans Demo Project on Test	Image: Constraint of the constrain	Item 2 provides a dashboard view of your Farms and Fields. You can view your fields in map view (I) or in table view (≡). Click on a map marker (•) or in table view (≡). Click on a map marker (•) or in table view (≡). Click on a map marker (•) or in table view (≡). Click on a map marker (•) or in table view (≡). Click on a map marker (•) or in table view (≡). Click on a map marker (•) or in table view (≡). Click on a map marker (•) or in table view (≡). Click on a map marker (•) or in table view (≡). Click on a map marker (•) or in table view (≡). Click on a map marker (•) or in table view (≡). Click on a map marker (•) or in table view (≡). Click on a map marker (•) or in table view (≡). Click on a map marker (•) or in table view (≡). Click on a map marker (•) or in table view (≡). Click on a map marker (•) or in table view (≡). Click on a map marker (•) or in table view (≡). Click on a map marker (•) or in table view (≡). Click on a map marker (•) or interview (≡





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	(+) Add Field
	> Add Farm
Et]	Crop Rotation Library
	Projects
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?	Support
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Projects

Launched in 2019, our Continuous Improvement Accelerator harnesses the power of collaboration across the agricultural value chain to implement locally-led conservation solutions and deliver sustainable outcomes through member-led continuous improvement projects. Our Continuous Improvement Accelerator enables our member organizations to design and implement projects in one of three Project Pathways, allowing for maximum flexibility and impact in delivering sustainable outcomes.

Incubation: Creates enabling conditions to advance sustainable agriculture by helping farmers connect farming practices to sustainability outcome(s) through outreach and education.

Insight: Offers farmers actionable sustainability insights and improves transparency on sustainability performance for the value chain through measurement.

Innovation: Supports farmers in accelerating adoption of practices that deliver improved sustainability outcomes through value-added incentives and quantifying impact.

Projects

Project ↑

Actions **Crops Analyzed** Sponsor Fields Assoc. Acres Assoc. Active? Alfalfa, Corn (grain), Rice, Soybeans, Sugar beets, Wheat Demo Project on Test 60 Field to Market 10384.13 Yes (durum), Wheat (spring), Wheat (winter)

				e Hi, Demo 06
Dashboard	Demo Project on Te	⊃c†		Î
Field Library	Project Dashboard > Demo Project on Test			
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्रिं Field 06	Project Type: Supply Chain Crops Ana	alyzed: Alfalfa, Corn (grain), Rice, Soybeans,	Sugar beets, Wheat (durum), Wheat (sprin	g), Wheat (winter)
🕀 🛛 Add Field				
(+) Add Farm	1 0	0 0	10384	
Crop Rotation Library	FARMERS FARMS	FIELDS CROP YEARS	ENTERED ACRES	
Projects	This page helps you manage fields associ	iated with a specific Project. The table below	v shows existing associations and you have	e the option to associate additional fields.
COMET-Planner New SCENARIO TOOL	Project Team			
? Support	Organization 个	Organization Role	Representative	Representative Role
Collapse Panel	Field to Market	Project Sponsor	Demo 09 Demo 09	Project Administrator
	Field to Market	Project Sponsor	Paul Hishmeh	Project Administrator
	Field to Market	Project Sponsor	FTM Project Admin FTM Project Admin	Project Administrator
Data and Privacy Policy Terms of Use				support@fieldtomarket.org www.fieldtomarket.org

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Project Management Screenshots: Admin View

Field to Market		e Hi, FTM Project Admin
Dashboard	Project Type: Insight Crops Analyzed: Corn (grain), Soybeans, Wheat (durum)	
Field Library		
ිඕ Demo 🗸 🗸	45 140 2390 4475 868849	
(+) Add Farm	FARMERS FARMS FIELDS CROP YEARS ENTERED ACRES	
Crop Rotation Library		
Projects	Project Participants	~
COMET-Planner SCENARIO TOOL	Manage Project Data	~
? Support		
 Collapse Panel 	Project Statistics	~
	Project Overview	~
	Project Crop Management Systems	~
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		😫 Hi, FTM Project Admin
Dashboard		
Field Library	45 140 2390 4475 868849	
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(+) Add Farm		
Crop Rotation Library	Project Participants	~
Projects		
COMET-Planner	Manage Project Data	~
Support	Project Statistics	~
C ollapse Panel	Project Overview	~
	Project Crop Management Systems	~
	Field Crop-year Associations	~
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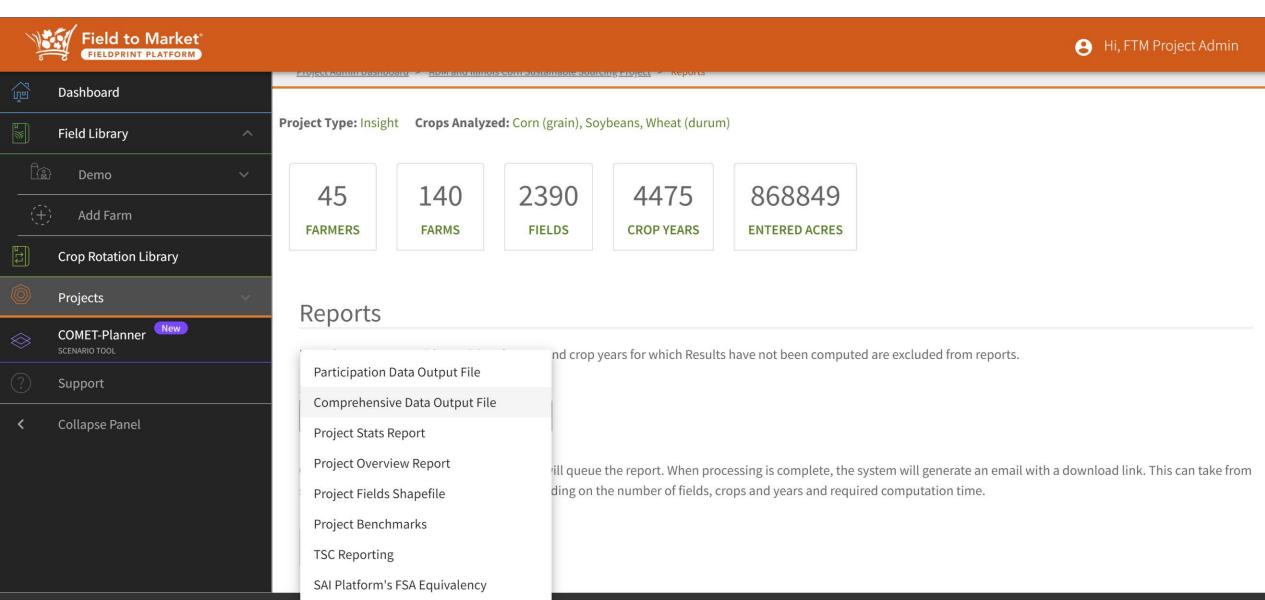
Dashboard		Project Statis	ics						~
Field Library	^	Note that these							
Demo N	/	Year 个	Сгор	Total Unique Farmers	Total Unique Farms	Total Unique Fields	Total Entered Acres (all fields)	Total Managed Acres (all farms)	Copy to Clipboard
-) Add Farm		2017	Corn (grain)	20	22	726	157,632.21	277,225.68	160,799.43
Crop Rotation Library		2017	Wheat (winter)	1	1	1	117.96	400.00	400.00
Projects	~	2018	Soybeans	41	117	1130	168,933.85	134,643.72	191,546.34
		2018	Corn (grain)	43	112	1142	194,816.08	179,993.42	214,507.30
Support		2018	Wheat (winter)	2	3	22	1,592.98	2,058.00	2,123.99
		2019	Soybeans	5	8	17	2,569.99	3,423.00	4,036.41
Collapse Panel		2019	Corn (grain)	4	7	22	3,003.41	16,509.00	5,189.03
		F	ows per page: 10	▼ 11-17 of :	17 < <	> >			

Value for enrolled acres at the project level is the total of a) the sum of the entered acres for each farmer with less than 10% of their managed acres entered and b) the sum of the stated managed acres for each farmer with more than 10% of their managed acres entered. The total managed acres for a crop for a particular year is entered by farmers.

Field to Market[®]

Cr Bi, FTM Project Admin

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QA Tool Screenshots

Fieldprint Data QA Tool

🔥 File Upload 🛛 🍸 Data Filter 🔎 Map View 🥔 Sustainability Metrics 🌱 Crop Nutrition and Protection 📑 Crop Rotations 🎛 Fieldprint Inputs Summary 🗠 Sandbox 🗮 Pivot Table

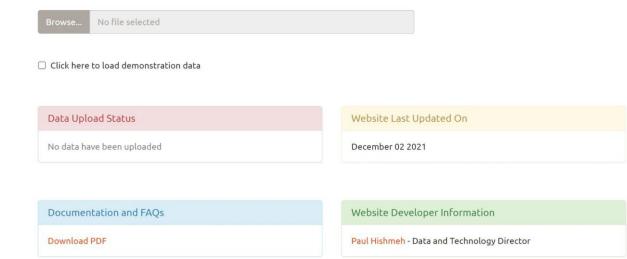
Q Enhanced Table Search

Welcome Field to Market Project Admins and Specialists

Field to Market's Quality Analysis (QA) tool will help you identify outliers, find errors, and gain insights about your Continuous Improvement Project

Learn more by watching a video tutorial

Upload a Comprehensive Data Output File to Get Started



Fieldprint Data QA Tool

🔥 File Upload 🛛 🍸 Data Filter 🔎 Map View 🥔 Sustainability Metrics 🌱 Crop Nutrition and Protection 📑 Crop Rotations 🎛 Fieldprint Inputs Summary 🗠 Sandbox 🗮 Pivot Table

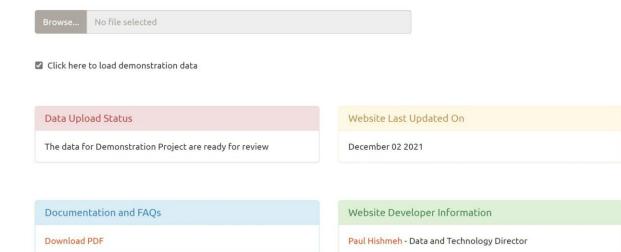
Q Enhanced Table Search

Welcome Field to Market Project Admins and Specialists

Field to Market's Quality Analysis (QA) tool will help you identify outliers, find errors, and gain insights about your Continuous Improvement Project

Learn more by watching a video tutorial

Upload a Comprehensive Data Output File to Get Started





Return here at any time to include or filter out data by Crop, Crop Year, and/or Field Name. The Field Name shown here is a combination of Crop Year, Grower ID, and Field Name to avoid issues with duplication. By default, all project data are included from the start. When Crops and/or Crop Years are included or filtered out, the list of Field Names and the table with Crop Year counts will update accordingly. The website will fail if all items for Crop, Crop Year, or Field Name are filtered out. The data filtering only applies to the current website session and it does not modify the uploaded Comprehensive Data Output File.

Count of Crop Years by Crop and Season

Crop	2006	2007	2008	2009	2010	
Corn (grain)	11	10	6	12	4	
Cotton	28	19	22	4	4	

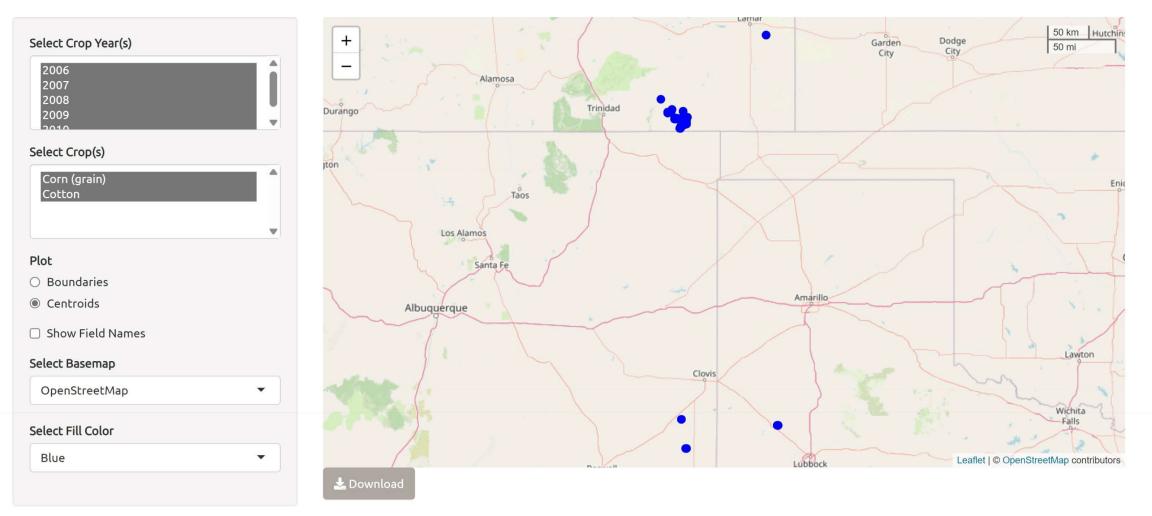
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Deselect Crop(s) to Filter Out	Deselect Crop Year(s) to Filter Out	Deselect Field(s) to Filter Out
Corn (grain)	2 2006	2006 1168 3f612e6d
Cotton	2007	2006 294 1c07ec30
	2008	2006 294 a9120d29
	2009	Z006 295 079c7fe8
	2010	2006 295 81080d46
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		☑ 2006 297 9275ec4f
		2006 298 22a432e3
		2006 298 d3f28036

Fieldprint Data QA Tool

🚹 File Upload 🍸 Data Filter 📕 Map View 🥓 Sustainability Metrics 🌱 Crop Nutrition and Protection 🖹 Crop Rotations 🎛 Fieldprint Inputs Summary 🗠 Sandbox 📰 Pivot Table

Q Enhanced Table Search

Use this map to check field locations and boundaries to identify if any errors were made in the field delineation step. You can zoom in and out to see reference roads and other landmarks. The Download button located below the map will save an image of the current map view. Clicking the checkbox will make field names visible. You can also see field names by hovering your mouse pointer over a field. There are several basemaps available, explore the options to find the most appropriate basemap for your needs. Please do not print or share maps with visible field names to protect farmers' privacy.

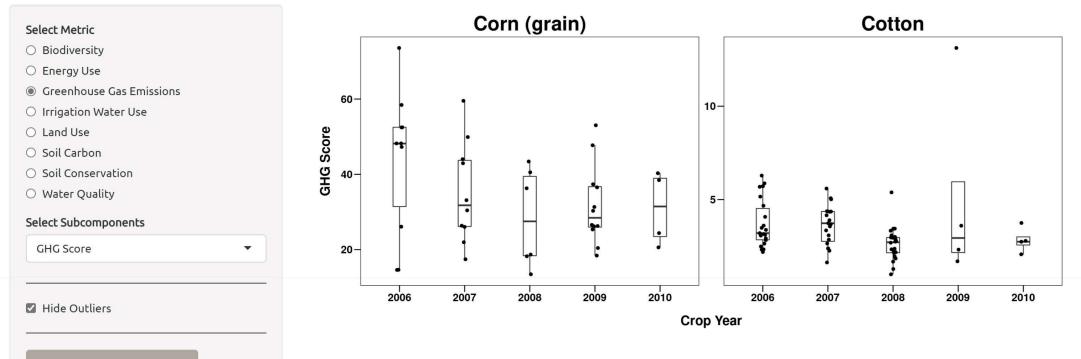


Fieldprint Data	QA Tool								
🚹 File Upload	🝸 Data Filter	🔰 Map View	🦇 Sustainability Metrics	Y Crop Nutrition and Protection	Crop Rotations	🗄 Fieldprint Inputs Summary	🗠 Sandbox	📕 Pivot Table	
Q Enhanced Table Search									
Q Enhanced Table Search Use these plots to identify any outlier values that are significantly higher or lower than other fields. Outliers may indicate that an error was made during data entry.									

What is an outlier?

Metric Description

Greenhouse gas emissions are reported as pounds of carbon dioxide equivalent (CO2e) per crop unit produced (bushels, pounds, etc.). CO2e means all other emission sources are converted to the equivalent amount of CO2. CO2 emissions also result from electricity and fuel usage as well as from burning crop residues. The Fieldprint Platform uses data on crop type, region, and soil texture to determine how much nitrous oxide (N2O) results from additions of nitrogen (N). Methane is only calculated for rice, and emissions are based on region of the country. To calculate CH4 emissions, the Fieldprint Platform evaluates a farmer's responses to questions about water management, organic and fertilizer amendments and other management practices.



🖽 Table of Potential Outliers

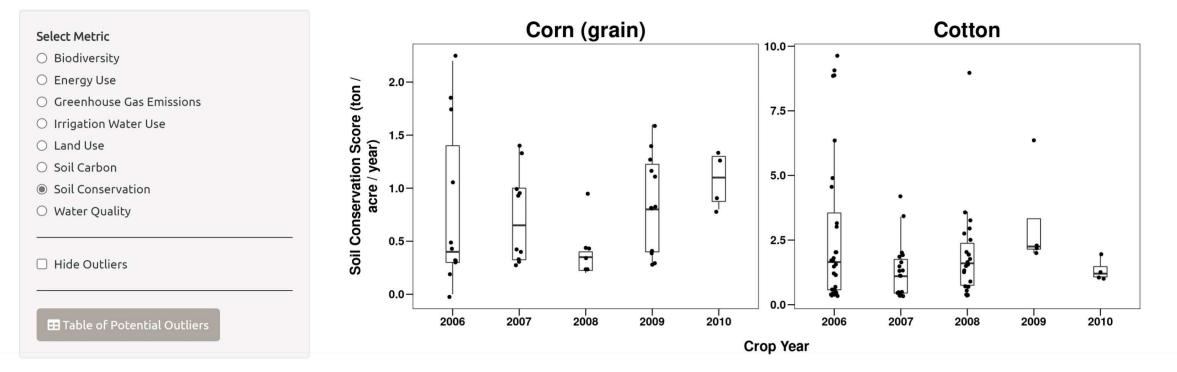


Use these plots to identify any outlier values that are significantly higher or lower than other fields. Outliers may indicate that an error was made during data entry.

What is an outlier?

Metric Description

The Soil Conservation metric is a measure of soil lost to erosion from water and wind and reported as tons of soil lost per acre. Lower numbers are desirable.



Fieldprint Data QA Tool								
쥼 File Upload	🝸 Data Filter	🕅 Map View	🦇 Sustainability Metrics	Y Crop Nutrition and Protection	Crop Rotations	🞛 Fieldprint Inputs Summary	🗠 Sandbox	📰 Pivot Table

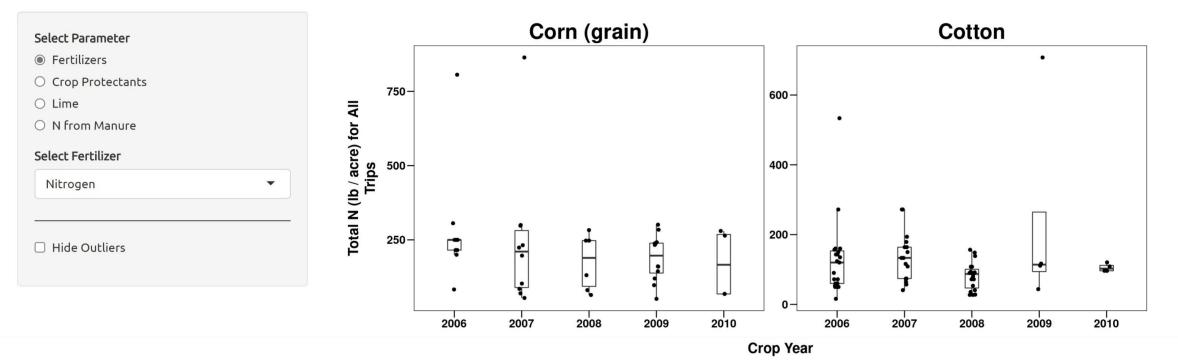
Q Enhanced Table Search

Use these plots to identify any outlier values that are significantly higher or lower than other fields. Outliers may indicate that an error was made during data entry.

What is an outlier?

Description

Here you can visualize the total amounts of N-P-K applied during the crop year as calculated from the sum of all your fertilization trips. The nitrogen applied does not include nitrogen from manure. To see how much nitrogen was applied from manure, please select the option "N from Manure".





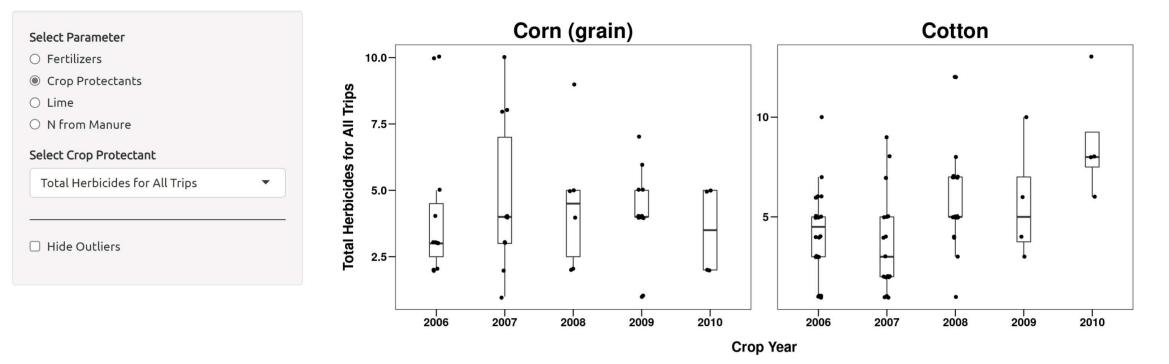
Q Enhanced Table Search

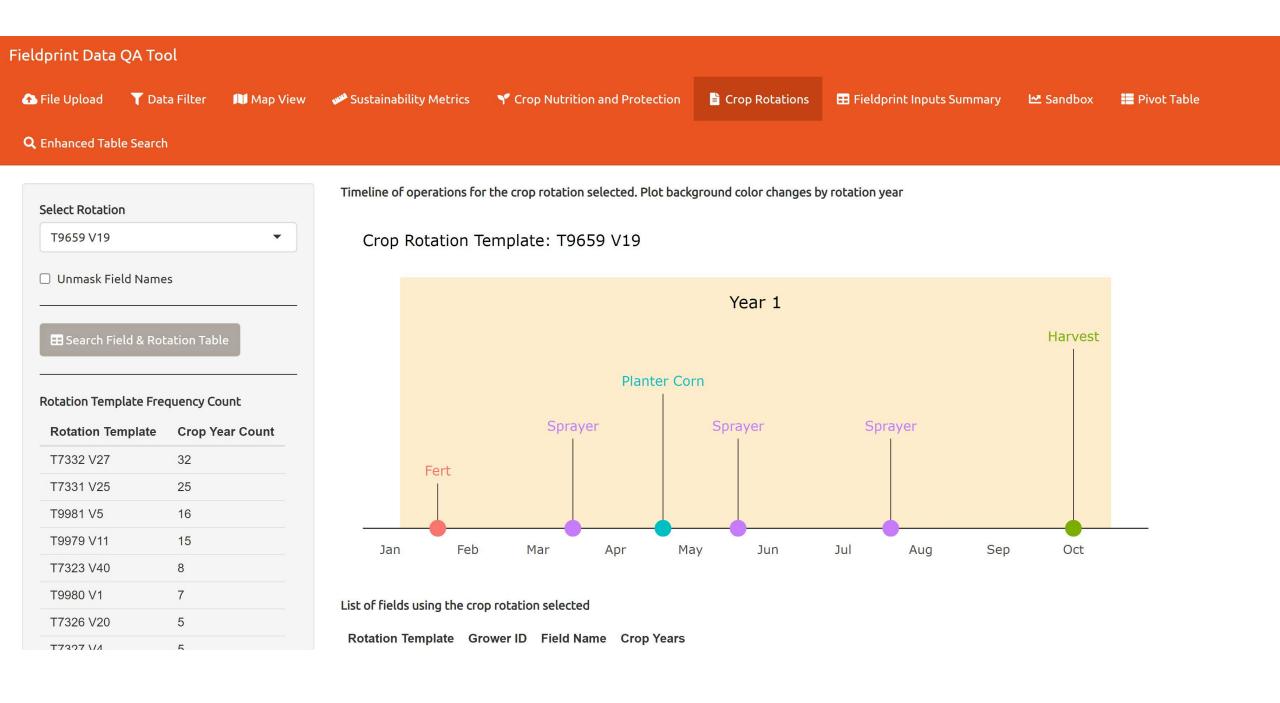
Use these plots to identify any outlier values that are significantly higher or lower than other fields. Outliers may indicate that an error was made during data entry.

What is an outlier?

Description

This graph displays the total number of applied crop protectants during each crop year.





Fieldprint Data QA Tool

🏠 File Upload 🍸 Data Filter 🛍 Map View 🥓 Sustainability Metrics 🌱 Crop Nutrition and Protection 🖹 Crop Rotations 🖽 Fieldprint Inputs Summary 🗠 Sandbox 📰 Pivot Table

Q Enhanced Table Search

These tables summarize the average input values by crop and year and are provided for use in quality analysis of data entry.

Select Summary Table

Grower Participation▼

This table shows how many crop years were entered by each Grower ID during a given growing season. Ideally, Grower ID would list the producers that managed their respective fields entered for the duration of the project. Knowing which fields are/were managed by each producer will likely enhance the quality of a statistical analysis. If the project is ongoing, it could also help to tailor educational materials and interventions related to the objective of the project.

Grower ID	Crop Year 2006	Crop Year 2007	Crop Year 2008	Crop Year 2009	Crop Year 2010	Total Crop Years
303	3	3	2			8
307	2	2	2	0		7
309	3	0	0	0	0	7
297	2	1	2	1		6
386	2	1	1	0	0	6
298	2	2			1	5
301	0	1	1	0	0	5
395	0	1	1	0	1	5
396	2	0	2			5
397		2	0	2		5



These tables summarize the average input values by crop and year and are provided for use in quality analysis of data entry.

This table shows the crop history for each field and crop year.

Select Summary Table							
Field Crop Sequence ▼	Field Name	Crop Year 2006	Crop Year 2007	Crop Year 2008	Crop Year 2009	Crop Year 2010	Total Crop Years
	19524cba	Corn (grain)	Corn (grain)	Cotton	Corn (grain)	Corn (grain)	5
	d5aba573	Cotton	Cotton	Cotton	Cotton	Cotton	5
	082f26c3	Cotton	Corn (grain)	Cotton	Corn (grain)		4
	4309a7c8	Cotton	Cotton	Corn (grain)	Corn (grain)		4
	9275ec4f	Cotton	Cotton	Cotton	Corn (grain)		4
	aaafa09f	Cotton	Corn (grain)	Corn (grain)		Corn (grain)	4
	e73eccd0	Cotton	Cotton	Cotton	Cotton		4
	06ec12a8	Cotton	Cotton	Cotton			3
	0bf262ef	Corn (grain)	Corn (grain)	Cotton			3
	2c621f75	Cotton	Cotton	Cotton			3



These tables summarize the average input values by crop and year and are provided for use in quality analysis of data entry.

Sel	ect	Sum	marv	Table
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▼

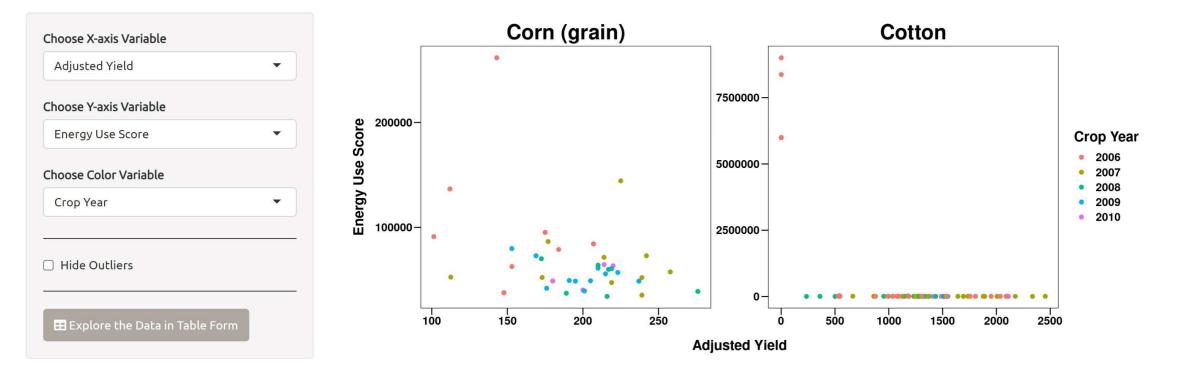
Yield

This is a table of average yield by crop and crop year.

Crop Year	Crop	Yield	Number of Fields
2006	Corn (grain)	159.3	11
2006	Cotton	1027.3	28
2007	Corn (grain)	209.8	10
2007	Cotton	1607.7	19
2008	Corn (grain)	213.4	6
2008	Cotton	1165.5	22
2009	Corn (grain)	199.5	12
2009	Cotton	1310.2	4
2010	Corn (grain)	203.5	4
2010	Cotton	1610.0	4



A scatter plot allows you to visualize the relationship between any two variables from the comprehensive data output file. Some variables might not conform to plotting. The Color Variable dropdown menu has been limited to variables related to field information. Click the checkbox to remove outliers from the current plot.



FIELD TO MARKET

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