



Getting Started with Farmer Pro

User Guide for Trimble Ag Software | Farmer Pro



Edition 3 | Nov, 2019

Highlights:

- Account setup
- Planning for the season
- How to bring equipment data into the software
- In-season agronomic features

Farmer Pro User Guide includes: Setup for Web Account, Marketplace, Crop Plan (People, Farm, Field, Vehicles), Materials and Summary, Syncing Data with Desktop, Equipment Data Including Yield, Fleet, Soil Sampling, Zone Upload, Work Orders, Applications, Scouting and Crop Health Imagery, Inventory, Grains and Contracts, Profitability, and Reports.

Trimble Ag Software Workflow

Timing	Module	Action	Software
Season Planning	Farm	People, Equipment, Inputs and Materials, Bins, Contracts	Farmer Pro Web
	Field	Boundaries, Crops, Varieties, Target Yield	
Season Execution	Soil Sampling	Create Soil Sampling, Soil Labels, Lab Data Import	Mobile
	Zones	Create manual management Zones, Import Existing Zones, Adding Applications, Blender – Fix or VRA Rate	Farmer Pro Web
	Prescriptions		
	Work Orders	Flat Prescription and Weather Restrictions	Mobile
	Monitoring	Satellite images, UAVs, Scouting Reports	Farmer Pro
	Scouting	New Recommendations, Work Orders, Create Soil Sampling	Mobile
	Data Import	As Applied Data Report, Reports and ROI	Farmer Pro Web
Post Season	Profitability		

Product Comparison Chart

FARMER PRO ONBOARDING

		Farmer Starter	Farmer Core	Farmer Fit	Farmer Pro
Farm Setup	Login users	Up to 5	Up to 5	Up to 5	Up to 5
	Manage client/farm/field names with boundaries	X	X	X	X
	Sync desktop data to cloud		X	X	X
	Map landmarks with mobile app (points, lines, and boundaries)		X	X	X
Farm Operations	Manage guidance lines		X	X	X
	Includes AutoSync for syncing guidance lines and other data to all Trimble connected devices ¹		X	X	X
	Import/export or use third-party APIs to get data to/from precision farming displays		X	X	X
	Track fleet locations, status and utilization				X
	Create and assign Work Orders and monitor the status of each				X
Farm Records	Add materials and track purchases and usage by field with costs		X	X	X
	Print a 'Proof of Placement' report that includes details of each job including a coverage map		X	X	X
	Enter detailed field records for seed, spray, fertilizer, harvest and other applications			X	X
	Includes desktop farm management software with basic accounting			X	X
	View basic weather with option for upgrading to Ag Premium Weather ²			X	X
VRA Tools	Use drawing tools to layout management zones based on yield and other map data			X	X
	Create simple VRA prescription maps				X
	Grid or zone soil sampling workflow including mobile app navigation				X
Grain Marketing	Track bin inventory				X
	Manage grain contracts and market position statements				X
In-Season Monitoring	View Crop Health Imagery for each field ³				X
	Log scouting data and create recommendations				X

Product comparison

¹ AutoSync automatically connects all your smartphones, computers and Trimble displays (using the Precision-IQ software). Each connected Trimble display requires a device connection with modem & data plan or a third-party Wi-Fi adapter.

² Ag Premium Weather is available in North America but expanding to other regions in 2019.

³ Includes up to 10,000 acres of Crop Health Imagery. Additional acres can be purchased by reaching out to sales at 1-800-282-4103.

Farmer Pro User Guide | Index

FARMER PRO ONBOARDING

0.1. Account Setup and User Access

- a. Login for Online and Mobile
- b. [Software Settings](#)
- c. [Support](#) for Online and Mobile
- d. Online Marketplace
- e. Online Widgets

Page 7

0.2. Planning Crop Season

- a. [People](#)
 - i. Contacts
 - ii. Operators
- b. Equipment Data
 - i. [Vehicles](#)
 - ii. Modem and Telematics
 - iii. Trimble Display Setup
 - iv. [Implements](#)
- c. [Fleet](#)
 - i. Fleet Management
 - ii. Vehicles and Groups
 - iii. Vehicle History and Sensors
 - iv. Alerts
 - v. Utilization
- d. Materials
 - i. [Adding Chemicals](#)
 - ii. [Adding Fertilizers](#)
 - iii. Adding Tank Mixes
 - iv. [Adding Material Purchases](#)
 - v. Inputs and Materials Summary
 - vi. Adding Purchases via Mobile
- e. Farm and Fields
 - i. [Adding Crop and Crop Season](#)
 - ii. [Adding Clients / Farm / Field](#)
 - iii. [Adding Fields and Boundaries \(Bulk\)](#)
 - iv. [Creating Field Boundaries on Mobile](#)
 - v. Adding New Crop
 - vi. [Farm Maps](#)
 - vii. Adding Crop Type and Target Yield
- f. Planner / Budget
- g. Bins and Contracts
 - i. [Grain Contracts and Storage Online](#)
 - ii. [Grain Contracts and Storage on Mobile](#)

Page 16

Farmer Pro User Guide | Index

FARMER PRO ONBOARDING

0.3. Uploading Data

- a. Equipment Data Upload
 - i. [Option 1: API Connection](#)
 - ii. Option 2: Trimble Display
 - iii. Option 3: [Manual Import](#)
 - iv. Additional Data Uploading Tips
 - v. [Verifying Task](#)
 - vi. Manage Equipment Activity Online
 - vii. [Manage Files Online](#)
- b. AutoSync
 - i. [Feature Summary](#)
 - ii. Requirements and Setup
 - iii. Cleanup, Backup, and Update
 - iv. Connect Display to Internet
 - v. Enable Trimble Ag Mobile
 - vi. Enable AutoSync PIQ
- c. Generic Data Upload
 - i. Import UAV Imagery
- d. Yield Data Upload / Cleaning
 - i. [Yield Cleaning Tool](#)
 - ii. Import Raw Yield Data
 - iii. Import Yield from Shapefile
 - iv. Yield Cleaning

Page 61

0.4. Executing In- Season Agronomics

- a. Soil Sampling
 - i. Upload Benchmarks Online
 - ii. Upload Lab Data Online
 - iii. [Mobile Grid Soil Sampling](#)
 - iv. Online Tissue Samples
- b. Management Zones
 - i. Manual Zone Creation
 - ii. Uploading Management Zones
- c. Applications
 - i. [Using the New Field Manager](#)
 - ii. Add a Task
 - iii. Additional Field Events
 - iv. Legacy Field Manager
 - v. Reviewing Applications Online
 - vi. [Adding Applications via Mobile](#)
 - vii. Online Farm Calendar
- d. Prescriptions
 - i. Using Field Manager Online

Page 85

Farmer Pro User Guide | Index

FARMER PRO ONBOARDING

0.4 Executing In- Season Agronomics

- e. Weather
 - i. Using Ag Premium Weather Online
- f. [In-Season Imagery](#)
 - i. Crop Health Imagery Online and Mobile
- g. [Crop Scouting](#)
 - i. Managing Scouting Data Online
 - ii. Scouting via Mobile
- h. Work Orders
 - i. Managing Work Orders Online
 - ii. Managing Work Orders for VRA
 - iii. Mobile Work Orders
 - iv. Mobile Work Orders for VRA
 - v. Mobile Work Orders for Guidance Lines
- i. Post-Season Reports and ROI Analytics
 - i. Online Reports
 - ii. Online Harvest Data and Profitability Maps

Page 85

0.5. Other Features

- a. Time Tracker Online
- b. Time Tracker Mobile

Page 132

0.6. Post-Season Reports and ROI Analysis

- a. Reports
- b. Harvest Data and Profit Maps
- c. Proof of Placement Reports

Page 136

0.7 Coverage Maps / Guidance Lines

- a. GIS Tools
- b. Map Layers Online
- c. [Guidance Lines](#)
- d. Map Layers in Mobile

Page 140

0.8 Desktop Sync

- a. Sync Resources from Desktop
- b. Sync Task Data from Desktop

Page 145

0.1

Account Setup and User Access

Online | Account Setup

FARMER PRO ONBOARDING

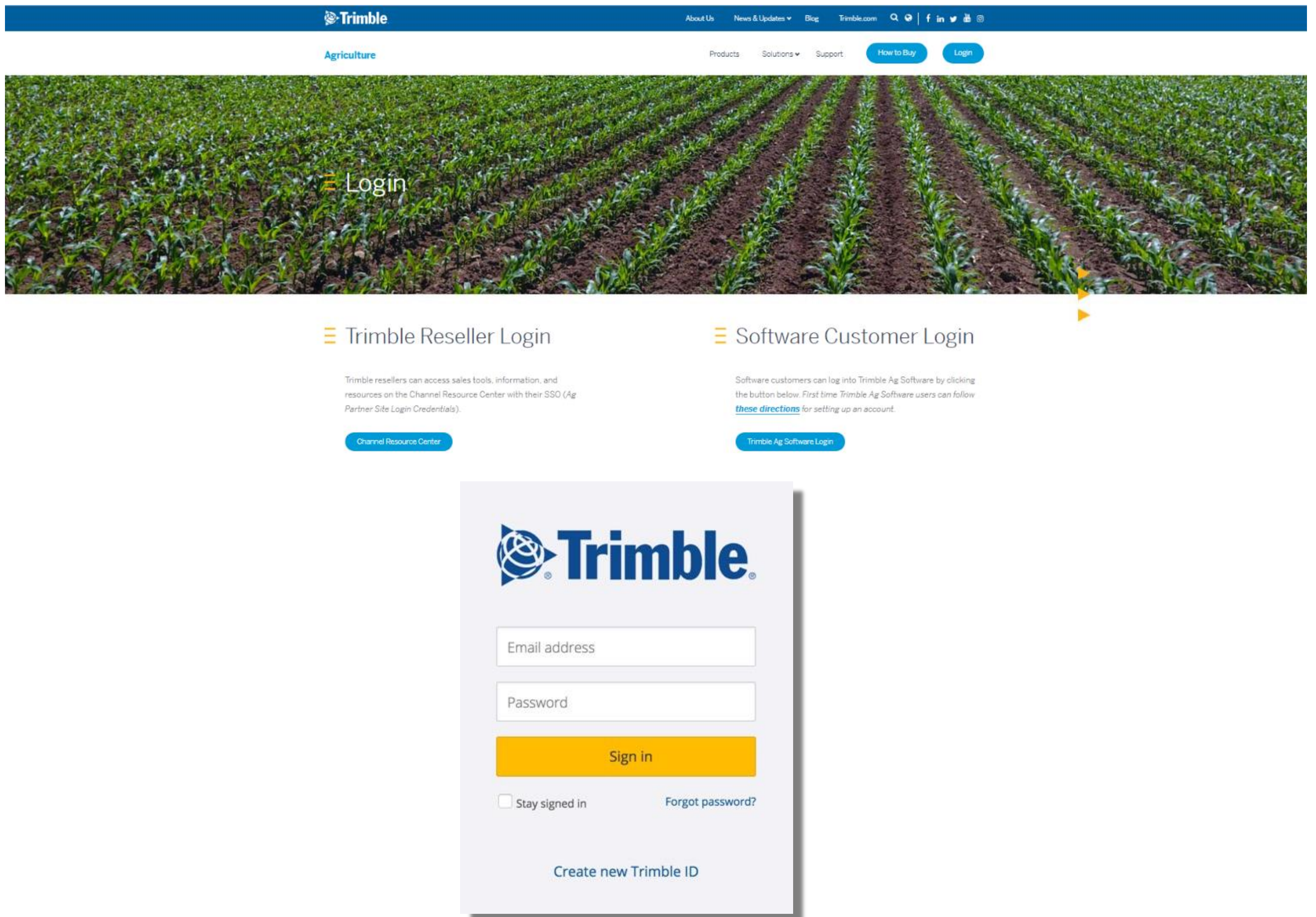
Objective: How to learn how to start using the software.

In this session you will learn:

- Login on TAS Online Account
- Farmer Pro Navigation
- Configure your settings
- Activate Add-ons in MarketPlace
- Add Contacts
 - Managing access
- Login on TAS Mobile Account

Online | Login

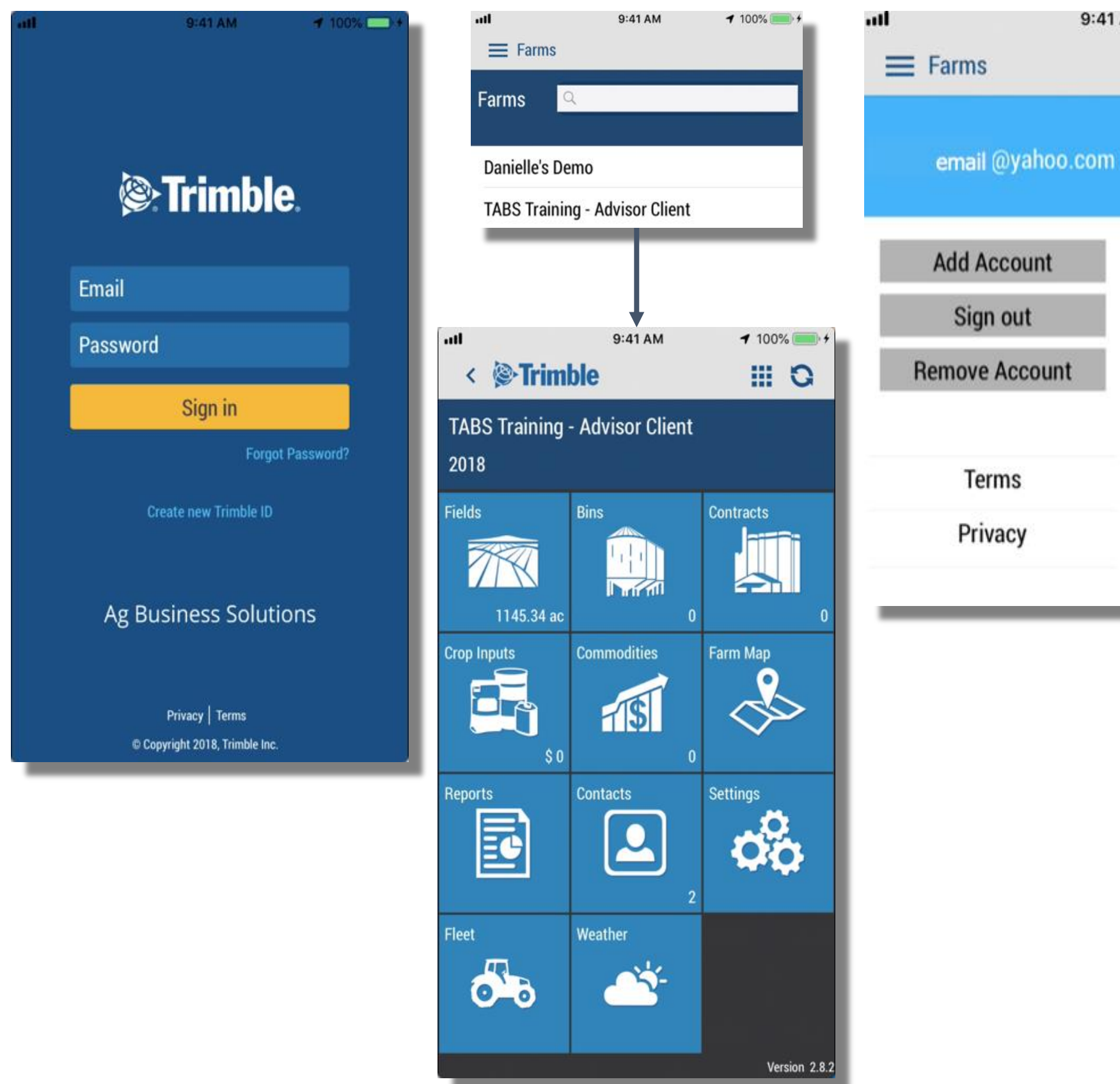
FARMER PRO ONBOARDING



1. Go to: agriculture.trimble.com/software
2. Click on **Login** button on the top of the page
3. Then click on **Trimble Ag Software login**
4. Enter your Account ID email: insert here
5. Enter your password
6. Click **Sign In**

Mobile | Login

FARMER PRO ONBOARDING



1. Download the **Trimble Ag Mobile** app for iOS or Android
2. Enter your **Company** account Trimble ID email and password
3. Tap **Sign in**
4. Accept **Terms & Conditions**
5. Tap to search or select the account name from the list

Already signed in to another account? Tap the **Farms** menu icon to **Add Account** and start from step 1.

Mobile | Software Settings

FARMER PRO ONBOARDING

Trimble Farm Field Fleet Analytics Data Transfer Consol

018 ▾ Jump to field ▾

Language
Language is determined by your browser language settings.

Time Zone (required)
(UTC) Coordinated Universal Time ▾

Purchaser Org (required)
Chenier - Advisor ▾

Last Location (required)
Field Name ▾

Unit System (required)
U.S. ▾

☒ Customize Unit System

Unit Systems

Area
U.S. ▾


Depth
U.S. ▾

Distance
U.S. ▾

Speed
U.S. ▾

Weight
U.S. ▾

© 2011-2019

1. Click the **Person** () > click **My Settings**
2. Change applicable settings from Default, if desired
3. Units of Measurements are defined in 1 of 2 ways
 - a. Profile wide **Unit System (required)**: U.S. or **Metric**
 - b. Check **Customized Unit System**: adjust the unit of measurement for each unit system, i.e. **Area, Depth, etc.**
4. Click **Save**.



Watch this [video](#) to learn more.

Online| Support

FARMER PRO ONBOARDING

The screenshot displays the Trimble Software Support page. The main header includes the Trimble logo, a search bar, and social media links. The navigation bar features 'Ag Business Solutions', 'About Us', 'Solutions', 'News & Updates', 'Blog', and 'Support', along with 'TAKE A TOUR' and 'LOG IN' buttons. The main content area is titled 'Software Support' and includes sections for 'How-To Central', 'Help from Support', 'Onboarding', and 'Regional Support'. A 'Support Request' form is overlaid on the right side of the page.

How-To Central
Find answers now. Search or browse step-by-step guides, watch videos, download desktop software updates and get v Central.

Help from Support
Four ways to receive personal support from Trimble:

1. **Online** – click on the icon in Trimble Ag Software online for email and live chat*
2. **E-mail** – send an email to TABS_Support@Trimble.com
3. **Phone** – see phone numbers and business hours below
4. **Mobile App** – tap the Settings tile and swipe up to tap **Email Diagnostic Info**

**available during most of North America's business hours*

Onboarding

- Receive personal one-on-one onboarding for new purchases of Farmer Pro, Farmer Pro Plus and Advisor Prime guide you through the software. Currently available in North America.
- Find printable Getting Started guides and searchable help topics on [How-To Central](#).

Regional Support

Region	Contact Info
America's	Monday - Friday 6AM - 6PM (MT) Saturday 6AM - 10AM (MT) +1-800-282-4103 <i>Prime and Enterprise experts available M-F 8AM-6PM</i>
Europe	Monday - Friday 6AM - 5PM (GMT) 001-800-282-4103
Australia and New Zealand	Monday - Friday 8:30AM - 5:30PM (NZT) +61 (3) 5249-5735

Support Request

Please submit your request using the form below and one of our support representatives will follow up with you as soon as possible.

Submit Request

Your Name:

Your Email:

Phone:

Subject:

Product Family:

Feature:

Issue Type:

Priority:

Description:

If you are having problems with a particular farm or field; please include farm name, field ID and crop year in your description as well as the page your ran into the problem on.
Please be as specific as possible when describing your issue.

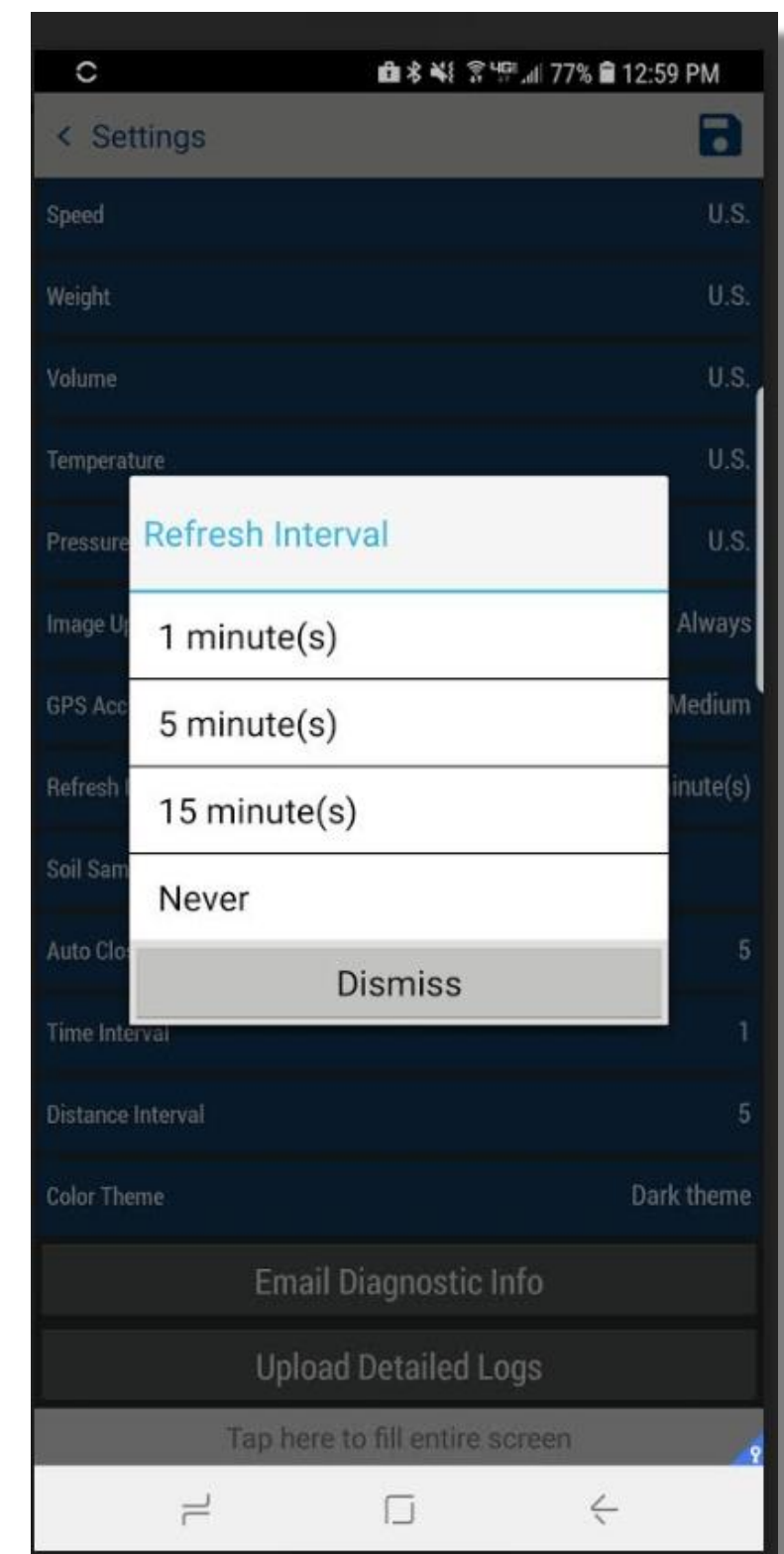
1. The **Software Support** page can be reached by clicking on the Support button () > **Support Website**
2. Choose from 3 support avenues
 - a. **Telephone** (available through support website)
 - b. **Chat** (available through support button)
 - c. **Email** (available through support button)



Watch this [video](#) to learn more.

Mobile | Support/Settings

FARMER PRO ONBOARDING



Support:

1. Log into **Mobile App** with Farmer Fit/Pro credentials
2. Tap on your **Farm**
3. Tap on **Settings** tile
 - a. Tap **Email Diagnostic Info** > you will be prompted to open an email app on your mobile device > add any necessary details to the body of the email.
 - i. **Send email.** A diagnostic log will get sent from your smartphone email for the Mobile development team to investigate
 - b. Tap **Upload Detailed Logs** if requested by Mobile development team or Support agent.

Settings:

1. Tap the desired setting to make the appropriate adjustment. Note that **Unit of Measurement** changes will be reflected in the **Online** software after **syncing** your **Mobile App**.
2. (**Android ONLY**) You can adjust **Syncing interval** for android devices so that your app will **auto-sync** when open every **1, 5 or 15 minutes**, avoiding the need to manually sync your device



Watch this [video](#) to learn more.

Online | Marketplace

FARMER PRO ONBOARDING

The screenshot displays the Trimble Farmer Pro Onboarding interface. The top navigation bar includes links for Farm, Field, Fleet, Analytics, Data Transfer, and Console. The left sidebar contains a menu with options like Home, Profile, Farms, Equipment, Inputs & Materials, Commodities, Storage, Farm Weather, People, Documents, Marketplace, and Farm Analyzer. The main content area is divided into three sections: Marketplace, Shopping Cart, and My Dashboard.

Marketplace: This section features a grid of product cards. Each card includes an icon, a title, a description, and an 'ADD' button. The products shown are:

- Farmer Pro Plus:** The Farmer Pro Plus subscription bundle serves as a total farm solution and includes Farmer Basic... Read More. Price: \$4745.00 / 12 MONTH.
- Additional Vehicle Connection (Office Sync + Fleet):** Transfer field task data wirelessly Report real-time fleet positions and Track and manage Fleet... Read More. Price: \$299.00 / 12 MONTH.
- Crop Health Imagery:** Less than 10,000 ac Crop Health Imagery is powered by PurePixel™, providing reliable, cloud-free, calibrated satellite... Read More. Price: \$250.00 / 12 MONTH.
- Additional User:** Additional Web and Mobile user login for Farmer FTL, Farmer Pro and Farmer Pro Plus subscriptions. Price: \$99.00 / 12 MONTH.
- Work Orders:** Manage your grain commodities and contracts. Price: \$349.00 / 12 MONTH.
- Soil Sampling:** Enable grid soil sampling with Trimble Ag Mobile. Price: \$349.00 / 12 MONTH.
- Ag Time Tracker:** Provides detailed statistics on employees time worked Reports on performance of your team This part... Read More. Price: \$349.00 / 12 MONTH.
- Ag Time Tracker (additional employee):** Provides detailed statistics on employees time worked Reports on performance of your team This part... Read More. Price: \$99.00 / 12 MONTH.
- Commodities & Contracts:** Manage your grain commodities and contracts. Price: \$349.00 / 12 MONTH.

Shopping Cart: This section shows a table of items in the cart. The table has columns for Product, Price, Qty, and Subtotal. The items are:

PRODUCT	PRICE	QTY	SUBTOTAL
Vehicle Connection (Office Sync + Fleet) -- \$299 Per Year	C\$299.00	1	C\$299.00
Ag Time Tracker -- \$349 Per Year	C\$349.00	1	C\$349.00

The cart also includes a 'PROCEED TO CHECKOUT' button and a summary section showing the subtotal, tax, and grand total.

My Dashboard: This section provides a overview of the user's account. It includes a 'MY ACCOUNT' section with links to Account Dashboard, Address Book, My Orders, and My Credit Cards. The 'MY DASHBOARD' section displays the user's name (Hello, Brent Chenier) and a brief description of the dashboard's purpose. It also includes sections for Account Information, Contact Information, Address Book, and Default Billing Address.

Current Licenses: This section displays a table of existing licenses. The table has columns for Name, Is Demo?, Effective Date, Expiration Date, and Vehicle. The licenses listed are:

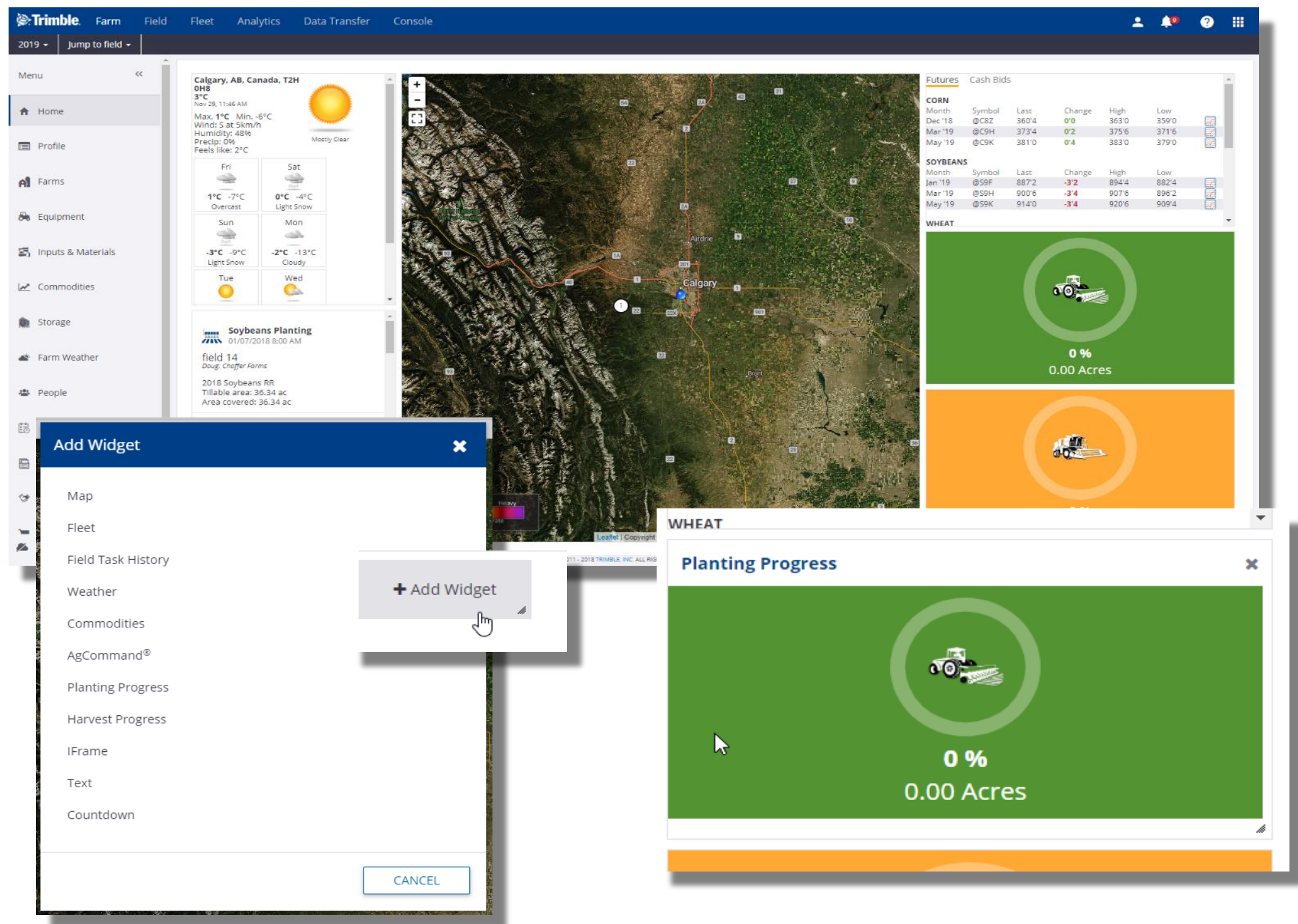
Name	Is Demo?	Effective Date	Expiration Date	Vehicle
Ag Premium Weather	No	02/13/2018	02/13/2019 7:52 PM	
PurePixel Crop Imagery	No	02/13/2018	02/13/2019 7:51 PM	
Farmer Pro	No	02/13/2018	02/13/2019 7:51 PM	
Additional Vehicle Connection (Office Sync + Fleet)	No	02/13/2018	02/13/2019 7:51 PM	
Additional Vehicle Connection (Office Sync + Fleet)	No	02/13/2018	02/13/2019 7:51 PM	
Farmer Pro - User	No	02/13/2018	02/13/2019 7:51 PM	
Farmer Pro - User	No	02/13/2018	02/13/2019 7:51 PM	
Farmer Pro - User	No	02/13/2018	02/13/2019 7:51 PM	
Farmer Pro - User	No	02/13/2018	02/13/2019 7:51 PM	
Farmer Pro - User	No	02/13/2018	02/13/2019 7:51 PM	



The 'Current Licenses' section also includes a 'Desktop Software' section with a table of installation and activation codes. The table has columns for Installation Id, Activation Code, and Date Installed. The table is currently empty, and a 'DESKTOP SOFTWARE' button is visible.

1. From the **Farm Menu**, click **Marketplace**
2. click **Add (no price)** to turn on Free add-ons
3. click **Add (price)** to add an item to your Shopping Cart
 - a. click Shopping Cart tab to review and change the items in your Shopping Cart
 - i. click **Proceed to Checkout** > follow checkout instructions
 - ii. The credit card enter will now be saved to the system for future purchases/renewals
4. **Billing** tab lets you reviewing your existing payment information in the system
5. **Current Licenses** tab lets you review your existing licenses with Trimble and when they are set to expire.
6. To **Download** the most recent version of the **desktop software** for your license, click **Current Licenses** > expand **Desktop Software** > expand **Installations & Activation Codes** > click the blue **Desktop Software** button

Online | Widgets

FARMER PRO ONBOARDING



1. The main **Dashboard** when you log into Trimble Ag software has a series of customizable **Widgets** that summarizes different information from your Farmer Pro account.
2. To **Resize** widgets, hover your mouse over the widget > left click and hold the **grey triangle** () at the bottom right of the widget > **move your mouse** to resize then **release** the left mouse button when satisfied.
3. To **Move** a widget, hover your mouse over the top of the widget > when the mouse changes to the **move button** (), hold down left mouse button and **move** the widget > **release** mouse button when satisfied with location.
4. **Grey boxes** will appear on the web page when resizing or moving
 - a. If grey boxes turns **red**, you cannot move or resize to that area
 - b. If grey boxes turn **green**, then you are ok to move or resize.
5. To **close** a widget, hover over top of it and click the **X** in the upper right corner
6. To **add** a new widget, hover your mouse over a blank space and clicking **+ Widget**. By default, the dashboard will be full, so you will need to resize or remove a widget to add a new one.

0.2

Planning Crop Season

Online| Planning Season

FARMER PRO ONBOARDING

Objective: How to prepare your Farm Pro account for the upcoming season.

In this session you will learn:

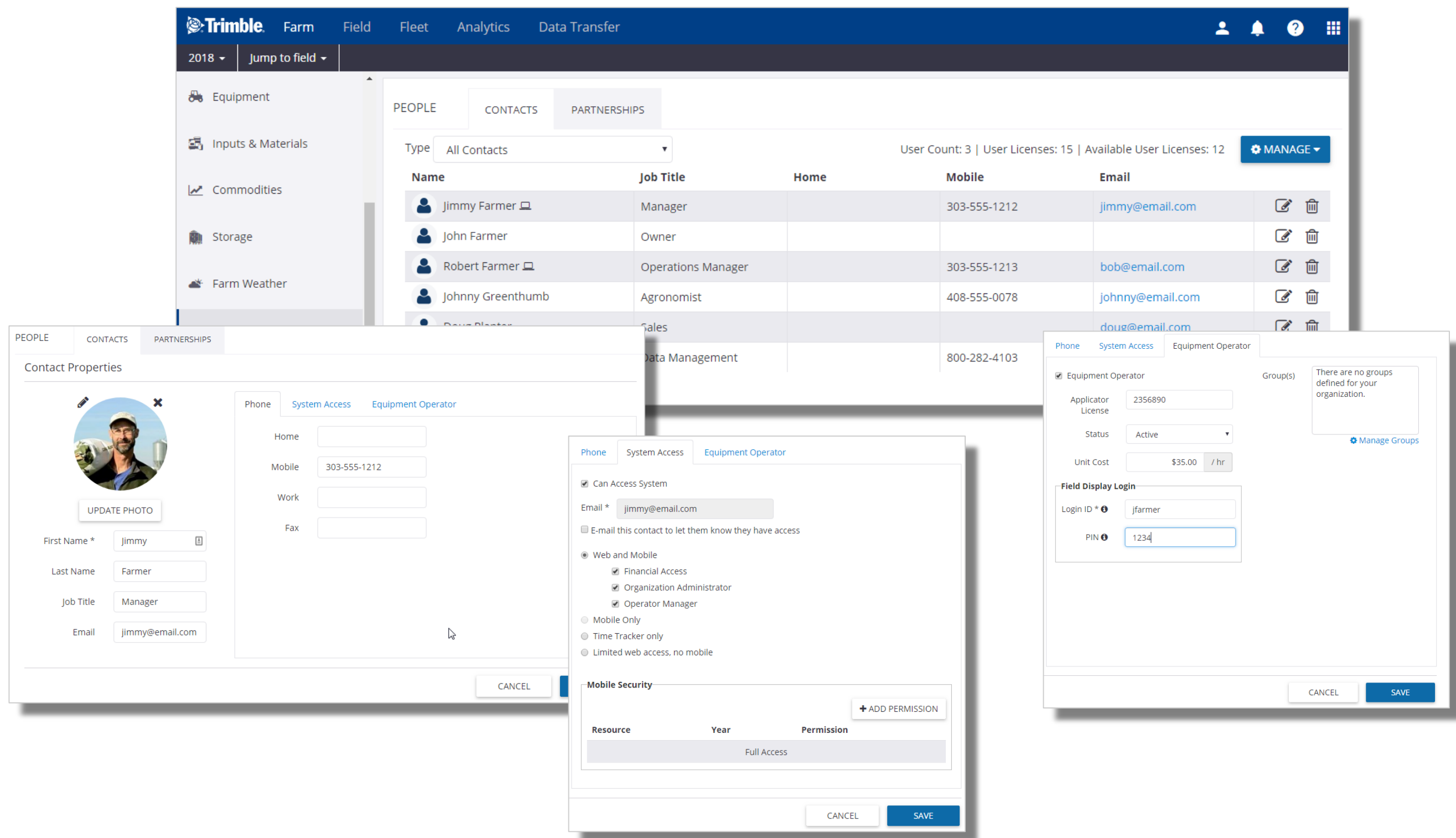
- How to manage people and operators
- How to manage equipment
- How to leverage Trimble Fleet capabilities (optional)
- Where to enter Inputs and Materials
- How to manage your Bins and Grain Contracts
- How to setup Farms and Fields

0.2.a

People

Online | Contacts

FARMER PRO ONBOARDING



1. Click **Farm** tab > **People**
2. View the list of all contacts on the Contacts tab, or click the Edit button to edit
3. Click **Manage** > **+ Add Contact** to add a new contact.
4. Add the contact properties
5. Click **Save** to save basic contact information
6. Add **System Access**
 - Click the System Access tab to configure this contact as one of your login users
 - E-mail this contact to let them know they have access
 - the e-mail address in their Trimble Ag Software account must match the email used to invite them as a login user
 - Configure the level of access for **Web and Mobile** (with options for Financial Information, Organization Administrator, and Operator Manager), **Time Tracker only** (if using Time Tracker), or **Limited web access, no mobile**
7. Add **Equipment Operator** information
 - **Applicator License** number can be added, **Status** controlled (active/inactive), and **Unit Cost** can be assigned to this contact
 - Field Display **Login ID*** and **PIN** can also be configured for Trimble Displays utilizing operator logins



Watch this [video](#) to learn more.

Online | Operators

FARMER PRO ONBOARDING

The screenshot displays the Trimble Farmer Pro Onboarding interface. The top navigation bar includes the Trimble logo and tabs for Farm, Field, Fleet, Analytics, and Data Transfer. A sidebar on the left contains a menu with options: Vehicles, Alerts, Operators (selected), and Utilization. The main content area shows a table of operators with columns: Operator Name, Login, Job Title, Groups, and Availability. The table lists five operators: Byard, Gwen; Collins, Mark; Demo for FWIM, CF; Demydenko, Sergii; and Hodson, Kevin. A 'Contact Properties' modal is open, showing the 'Equipment Operator' tab. It includes fields for First Name, Last Name, Job Title, Email, and a photo update button. The 'Equipment Operator' section has a checked checkbox, a license field, a status dropdown (Active), and a unit cost field (\$25.00 / hr). The 'Field Display Login' section has a login ID field (jfarmer) and a PIN field. A 'Group(s)' section on the right lists various roles with checkboxes: All, CSU Staff (checked), new operator, Test, Trainee, and Trimble Staff. A 'Manage Groups' link is also present.

Operator Name	Login	Job Title	Groups	Availability
Byard, Gwen	GByard5054			Active
Collins, Mark	mcollins		CSU Staff	Active
Demo for FWIM, CF	CDemo for FWIM5566			Active
Demydenko, Sergii	Demydenko		Trainee	Active
Hodson, Kevin	124		CSU Staff new operator Test Trainee	Active

Contact Properties

Equipment Operator

☒ Equipment Operator

Applicator License:

Status:

Unit Cost: / hr

Field Display Login

Login ID *

PIN

Group(s)

☐ All

☒ CSU Staff

☐ new operator

☐ Test

☐ Trainee

☐ Trimble Staff

[Manage Groups](#)

1. Operators are set up under Contact Properties
 - a. Click **Farm** tab > **People** > **Contacts**
 - b. Add or Edit a Contact
 - c. Select the **Equipment Operator** tab, activate the Equipment Operator check box, and enter the Login ID
 - d. Click **Save**
2. To review and manage your Operators, click **Fleet** tab > **Operators**



0.2.b

Equipment Data

Online| Planning Season: Equipment

FARMER PRO ONBOARDING

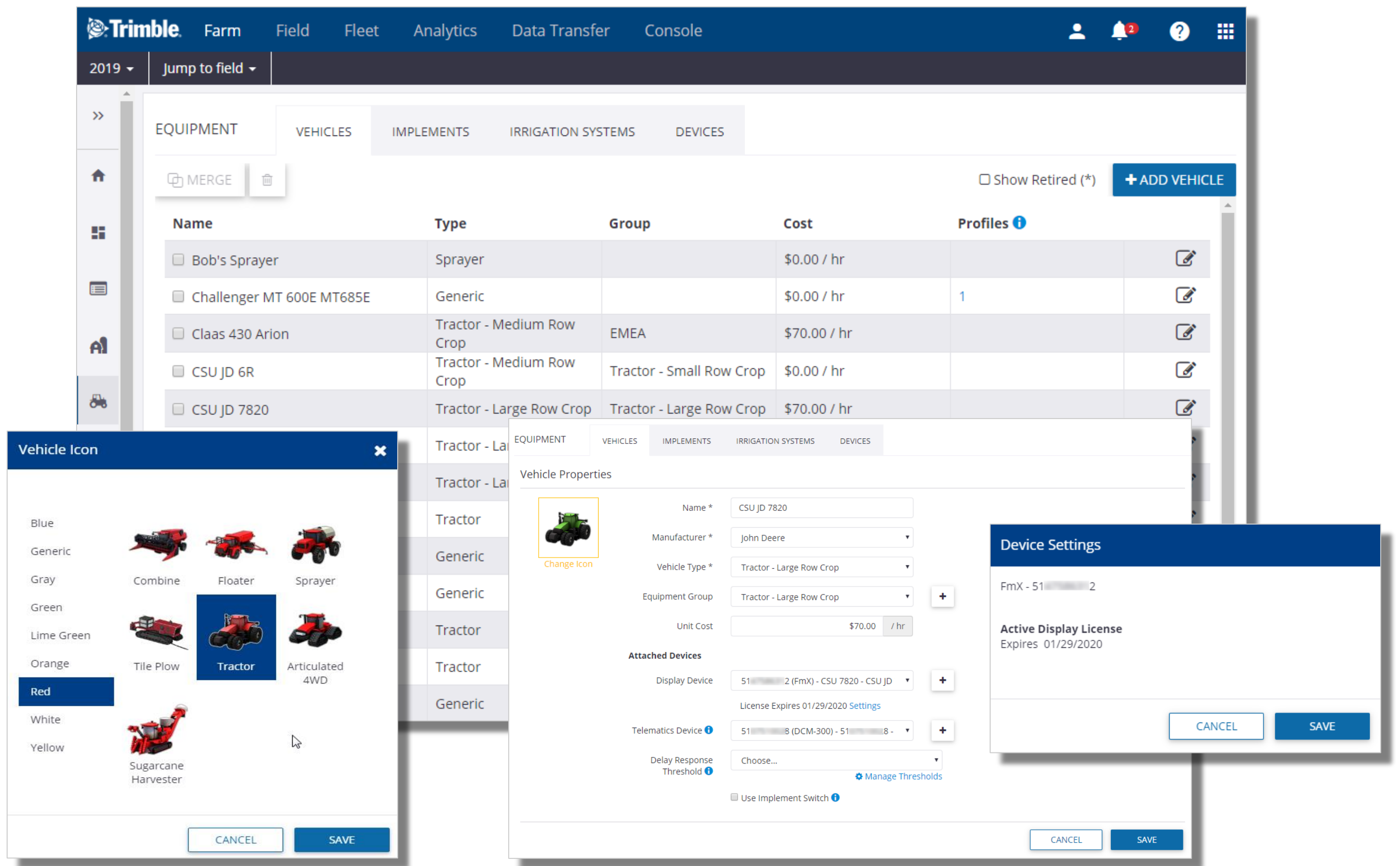
Objective: To understand the various ways you can bring data from your equipment to Trimble Ag Software.

In this session you will learn:

- What type of data flows into and out of TAS online
 - API Connection
 - Trimble Display
 - Manual Import
- How to managing as-applied data through Equipment Activity
- How to use Manage Files to review data flowing in and out of Trimble Ag software

Online | Vehicles

FARMER PRO ONBOARDING



1. From the **Farm** Menu, click **Equipment**
2. view existing vehicles on the **Vehicles** tab
3. click **Add Vehicle** to add a new vehicle
 - a. For Vehicle Properties enter Name, Manufacturer, Vehicle Type (required properties)
 - i. If using Groups, assign the Vehicle Group
 - ii. enter the Unit Cost to track cost of use
4. Select the Display Device from the drop down menu if using Office Sync or Fleet
5. Select the Telematics Device from the drop down menu if using a DCM-300 modem for Traditional Fleet setup. (For more information on setting up Fleet Manager see the [User Guide](#) or [FarmStream setup guide](#))
6. **Assign Vehicle License** to activate a wireless vehicle connection with a Trimble Display.
 - a. Note: do not use Assign Vehicle License if setting up an API Connection - it is not needed for API Connections.
7. Optionally, click **Change Icon** to select a visual icon that correlates the the specific vehicle.
8. Click **Save** to save this vehicle
 - a. Use the Edit button to edit the properties of any existing vehicles



Watch this [video](#) to learn more.

Online | Modem and Telematics

FARMER PRO ONBOARDING

Attached Devices

Display Device

Unassigned

Add Display Device

Telematics Device

Unassigned

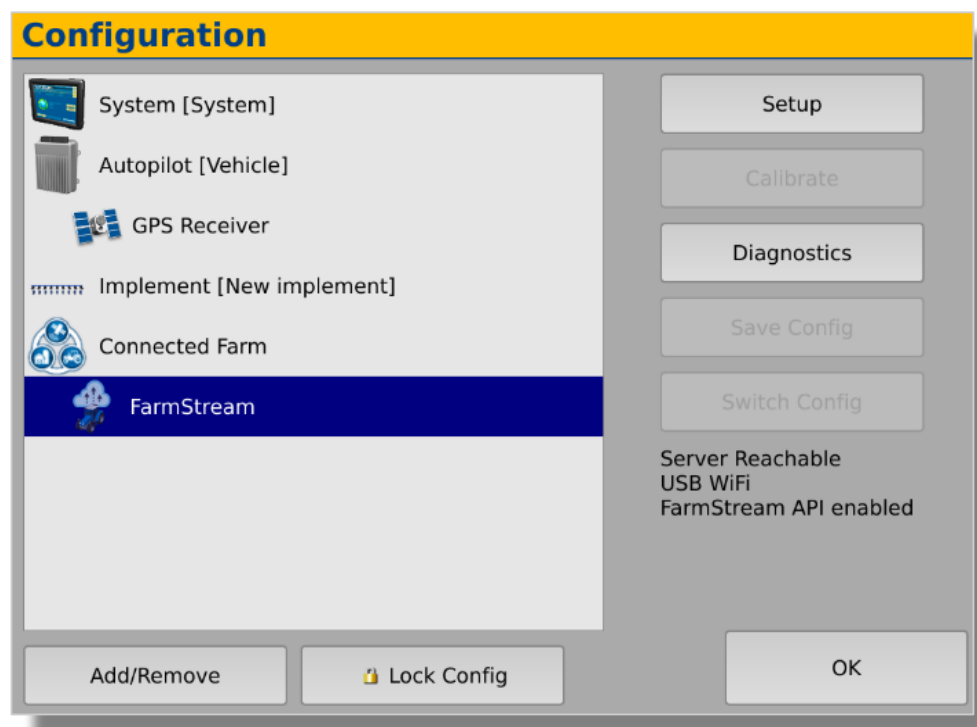
Add Telematics Device

When setting up a vehicle, the Attached Devices settings will vary depending on the modem that is being used in the vehicle display. The table below is designed to help understand the supported displays, features, and settings needed to configure a vehicle connection for each modem type.

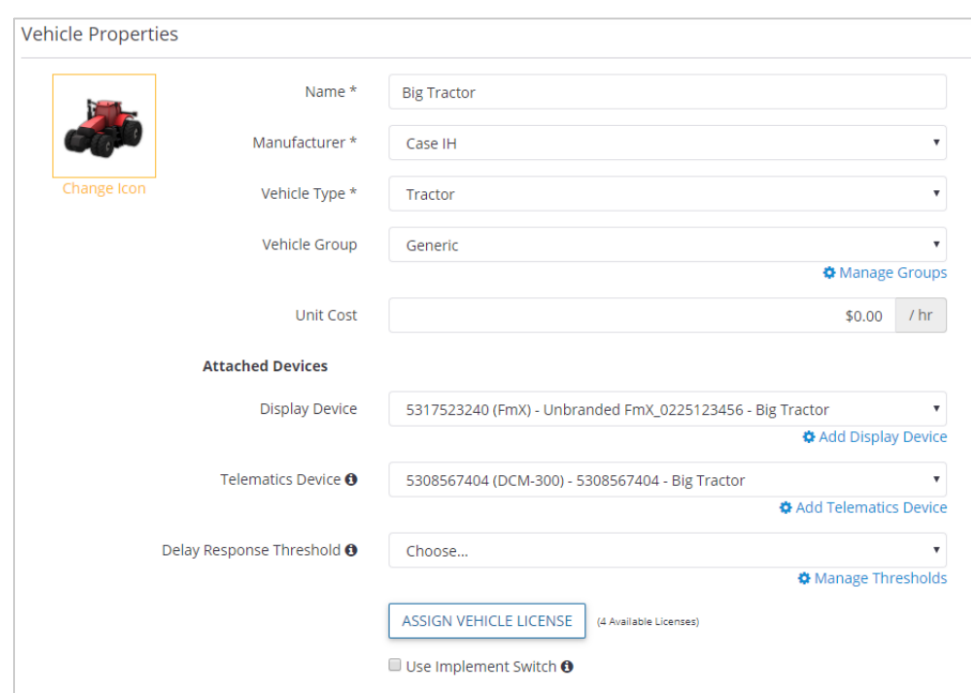
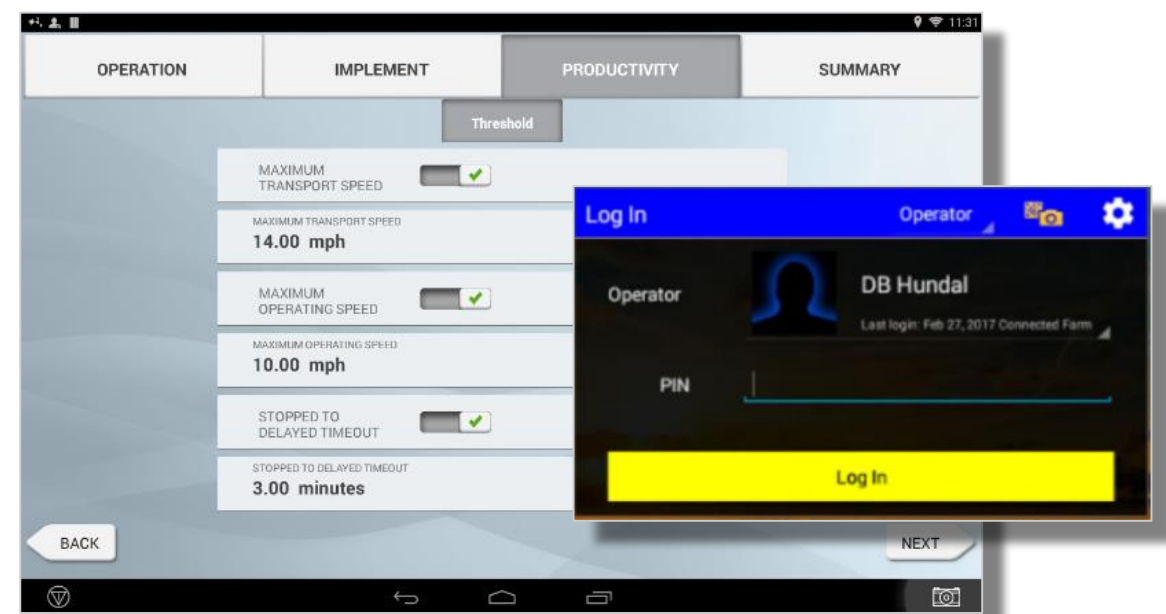
Modem	Supported Trimble Displays	Supported Features	Display Device	Telematics Device
Sierra Wireless GX450	GFX-750 FmX Integrated Display TMX-2050 CFX-750	Office Sync RTK Corrections via cell FarmStream Wi-Fi Access Point	Yes	No
SNM941 Connected Site Gateway	FmX Integrated Display TMX-2050	Office Sync VRS / RTK Corrections via cell FarmStream Vehicle Sync (FmX or FmX+ only)	Yes	No
DCM-300	FmX Integrated Display TMX-2050 CFX-750	Office Sync VRS / RTK Corrections via cell Asset Tracking Vehicle Sync (FmX or FmX+ only) FarmStream Traditional Fleet	Yes	Yes (Traditional Fleet) No (FarmStream)

Online | Trimble Display Setup Items

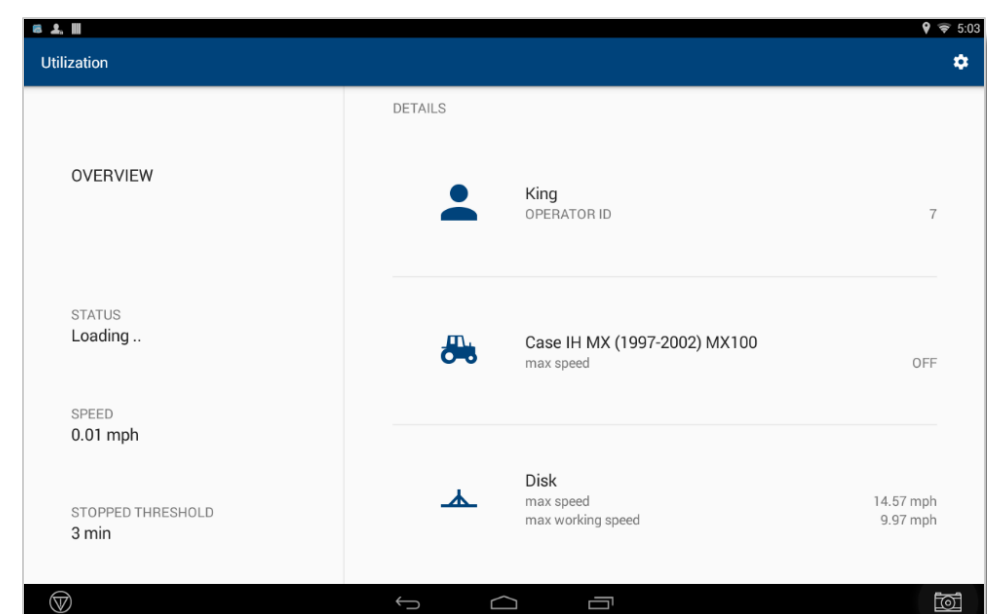
FARMER PRO ONBOARDING



Farmstream - FmX/FmX+



Traditional Fleet - DCM-300



Farmstream - PIQ

There are several Trimble Display setup items related to Fleet, depending on the selected Fleet method - **Farmstream Fleet** or **Traditional Fleet**. For step-by-step instructions please refer to these help documents:

[Farmstream Fleet Setup Guide](#)

[Fleet Help Document](#)

1. Farmstream

- FmX Display or FmX+ App
 - Display device is assigned to a vehicle with a Trimble Vehicle License
 - Activate the FarmStream Fleet plugin
 - Setup the Port
 - Configure Implement Reporting
 - Configure Vehicle Monitoring
- PIQ App
 - Display device is assigned to a vehicle with a Trimble Vehicle License
 - Turn On - Enable Operators, then configure Productivity Thresholds under vehicle settings
 - Log into the Operator App to track who is using the vehicle
 - Install the Utilization App and setup for Auto Start to collect utilization data

2. Traditional Fleet

- Display device is assigned to a vehicle with a Trimble Vehicle License
- Telematics device (DCM-300 modem only) is assigned to a vehicle with a Trimble Vehicle License

Online | Implements

FARMER PRO ONBOARDING

The screenshot shows the Trimble Farmer Pro Onboarding interface. The top navigation bar includes 'Farm', 'Field', 'Fleet', 'Analytics', 'Data Transfer', and 'Console'. The left sidebar menu has 'Equipment' selected. The main content area displays a table of implements with columns for 'Implement', 'Group', 'Cost', and 'Profiles'. A 'MERGE' button and a '+ ADD IMPLEMENT' button are visible. An 'Implement Properties' dialog box is open, showing fields for 'Name *', 'Operation Type', 'Equipment Group', and 'Unit Cost'. A 'Profiles' dialog box is also open, explaining that profiles are created on the display and listing supported displays: GFX-750, TMX-2050, XCN-1050, and XCN-2050.

Implement	Group	Cost	Profiles
<input type="checkbox"/> Air Seeder		\$0.00 / ac	1
<input type="checkbox"/> Arnie		\$0.00 / ac	1
<input type="checkbox"/> Disk		\$0.00 / ac	1
<input type="checkbox"/> feb2019		\$0.00 / ac	1
<input type="checkbox"/> Generic PWM Std ISOBUS VR		\$0.00 / ac	1
<input type="checkbox"/> Gleaner		\$0.00 / ac	

Implement Properties

Name *

Operation Type

Equipment Group +

Unit Cost / ac

Profiles

Profiles are created on your display and use additional details to complete tasks on your display. Multiple profiles can be added if your equipment has more than 1 setup.

Supported Displays

- GFX-750
- TMX-2050
- XCN-1050
- XCN-2050

CLOSE

1. From the **Farm** Menu, click **Equipment**
2. Select the **Implements** tab to view implements
3. Click **Add Implement** to add a new implement
 - a. For Implement Properties enter Name (required properties)
 - i. Enter the Unit Cost to track cost of use
 - b. Profiles are created on your Trimble display and use additional details to complete tasks on your display. Multiple profiles can be added if your equipment has more than 1 setup.
4. Click **Save** to save this vehicle
 - a. Use the Edit button to edit the properties of any existing vehicles on the list.



Watch this [video](#) to learn more.

0.2.c

Fleet

Online| Fleet

FARMER PRO ONBOARDING

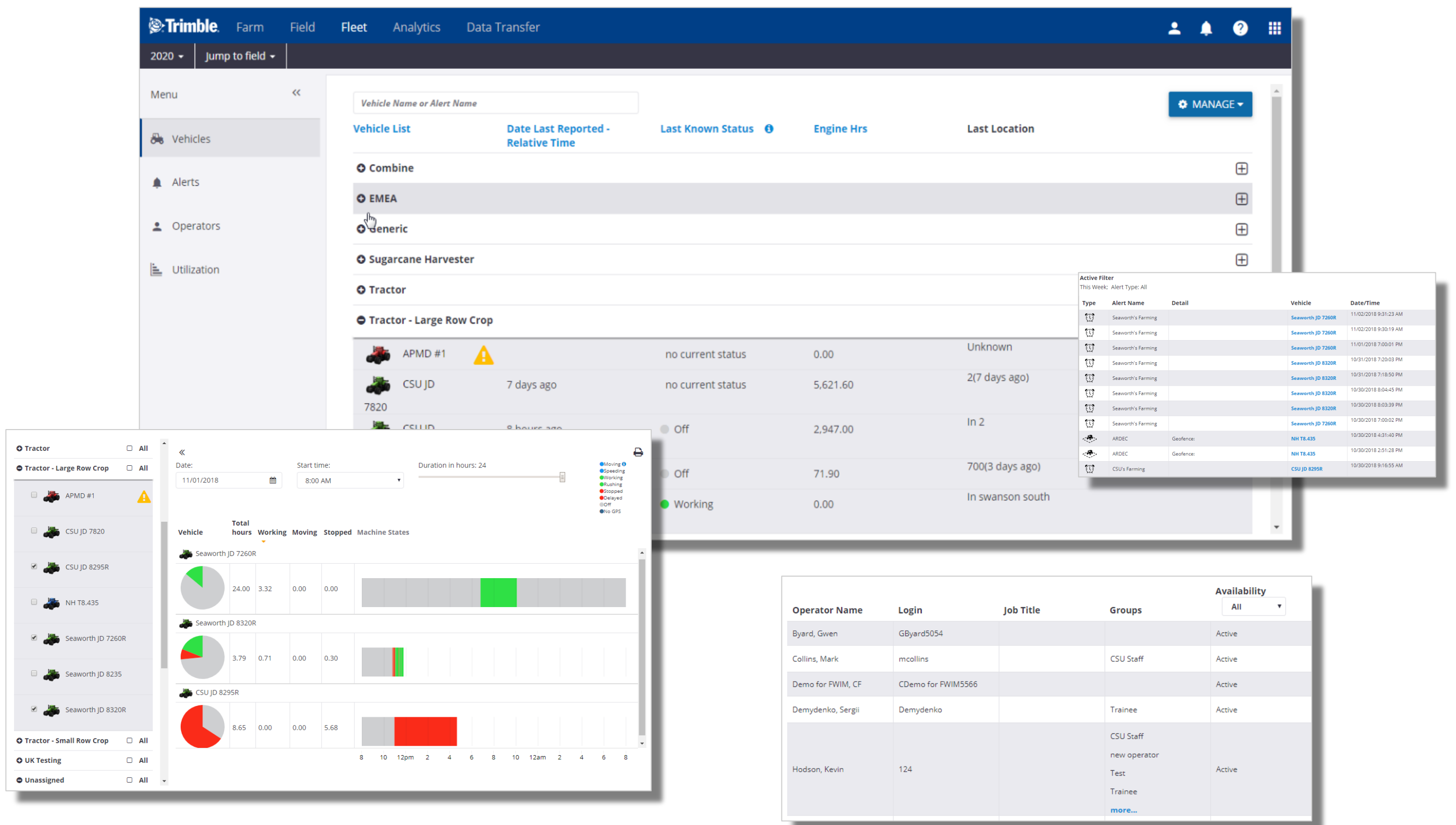
Objective: Learn the fleet monitoring features if you have purchased the add-on in the virtual market.

In this Session you will learn:

- How to monitor the fleet
 - Manage vehicles and groups
 - Configure alerts for machines
- How to use Data Management to review the flow of data in and out of Trimble Ag software
- Fleet add-on is under additional costs
- It's one add-on per machine

Online | Fleet Management

FARMER PRO ONBOARDING



1. Click **Fleet** tab

- View and Manage the vehicles in your fleet
- Configure Alerts and Geofences
- View the list of Operators (active and inactive)
- View the Utilization data for all or a subset of your vehicles over a selected 24 hour period

The Fleet website is used to manage farm operation data received from a range of vehicles and implements.

Use the Fleet website to manage your vehicles. Do this for your entire fleet. Online receives information from your vehicles. The back-end system processes the vehicle data into secure databases where you can access the data on demand.

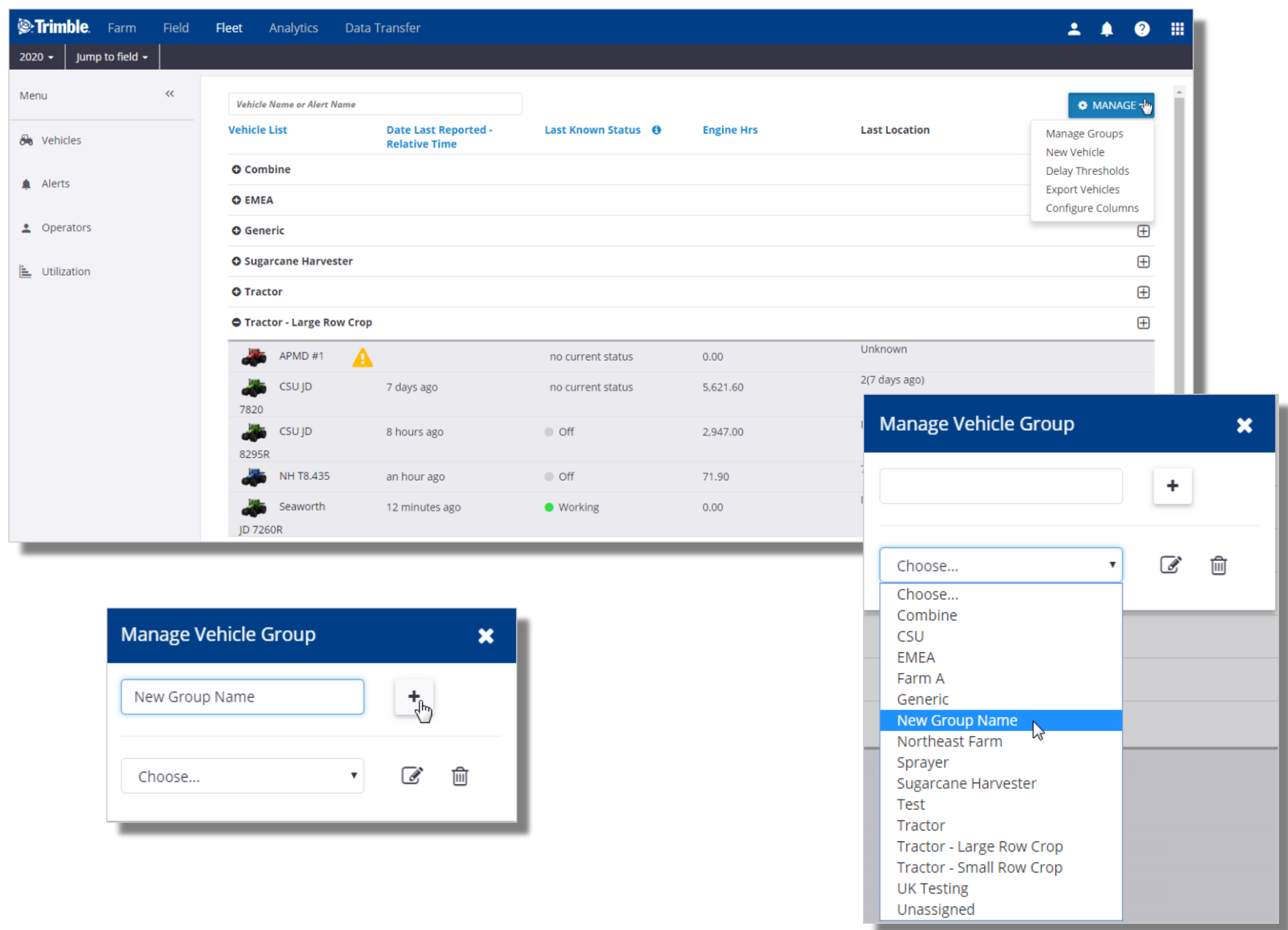
Fleet has been enhanced to better integrate with other powerful Trimble Ag software services. You can now switch easily between Fleet pages and other Trimble Ag Software to access information including vehicle tracking, alerts, reporting, and productivity.



Watch this [video](#) to learn more.

Online | Vehicles and Groups

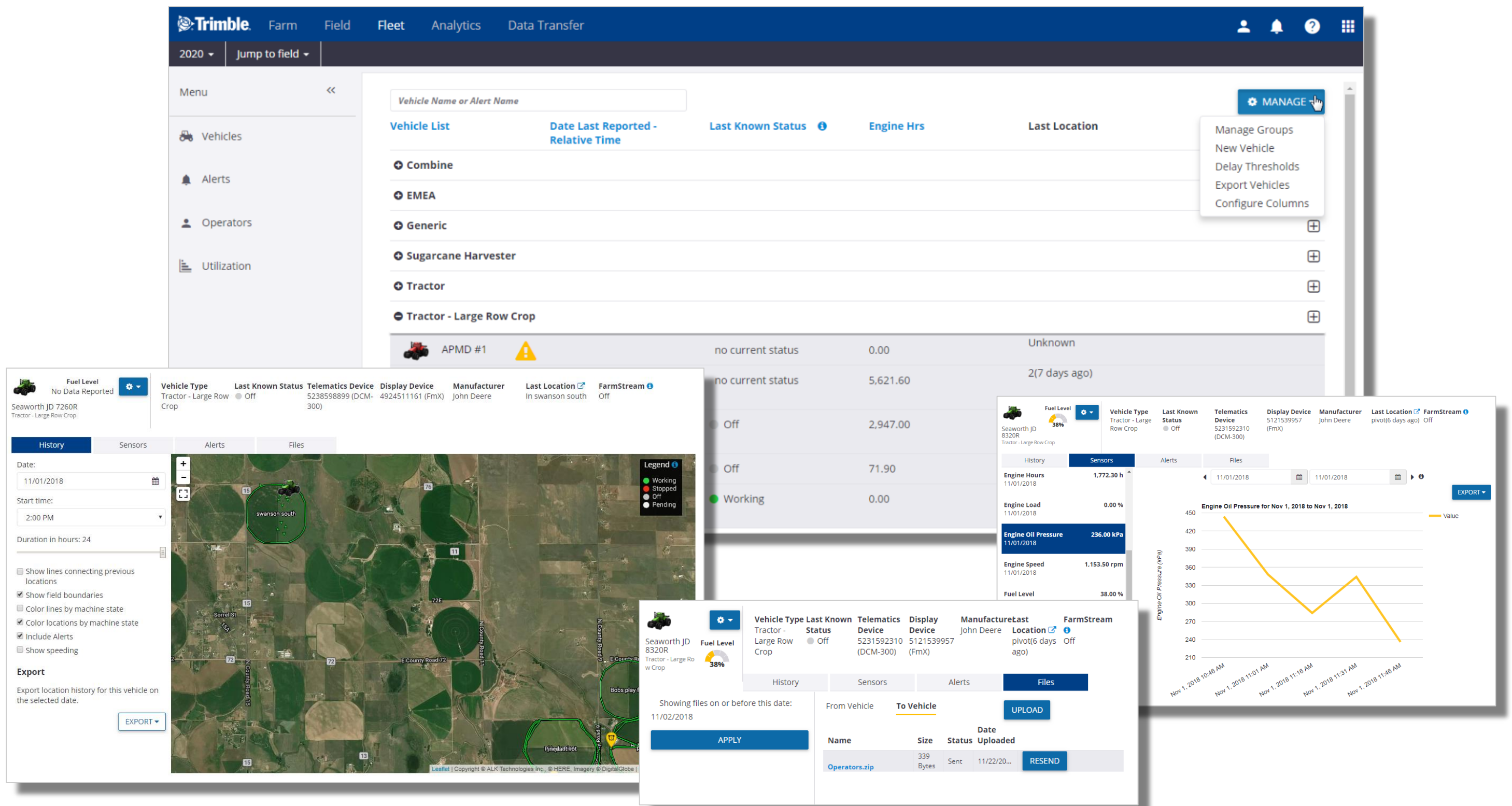
FARMER PRO ONBOARDING



1. Click **Fleet** tab > **Vehicles**
 - View a list of Vehicles that have been added in your organization
2. Manage Vehicles by clicking **MANAGE** ▼
 - **Manage Groups**
 - **Add New Vehicle**
 - View and Create New **Delay Thresholds**
 - **Export Vehicles** to a .csv file
 - **Configure Columns** that are displayed on the vehicle list
3. Manage vehicle groups by selecting **Manage** > **Manage Groups**
 - Type the desired **name** of the group in the entry window and click the **+** button
 - The new group name will then become available in the drop-down menu
 - Groups can be **edited** or **deleted** from **Manage Vehicle Group**
 - Edit vehicle properties to assign a vehicle to the desired Vehicle Group

Online | Vehicle History and Sensors

FARMER PRO ONBOARDING

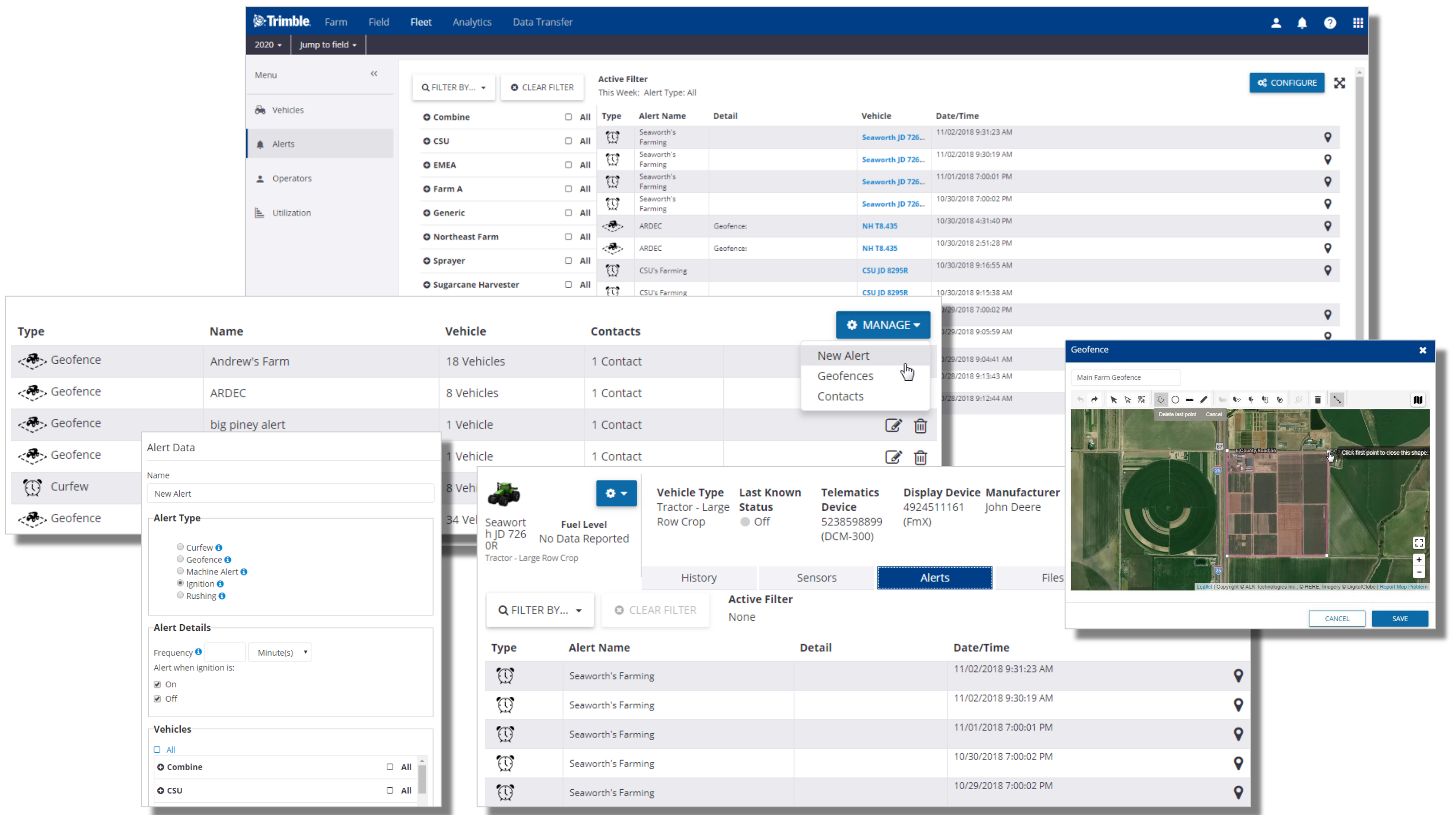


1. Select a specific vehicle on the list

- View current status or Edit the vehicle from the top row of information
- View **History** for a selected 24 hour period, select date and number of hours or options for the map view, or export the mapped location
- Click **Sensors** tab to view sensor information that has been collected
 - Click the Sensor name to display the information in the graph
 - Select up to an 8 day time period
 - Export to .csv
 - The type of sensor data collected is controlled by the CAN information available and the Fleet method that is utilized
 - see the [Fleet Feature Comparison chart](#) to compare FarmStream Fleet to Traditional Fleet capabilities

Online | Alerts

FARMER PRO ONBOARDING

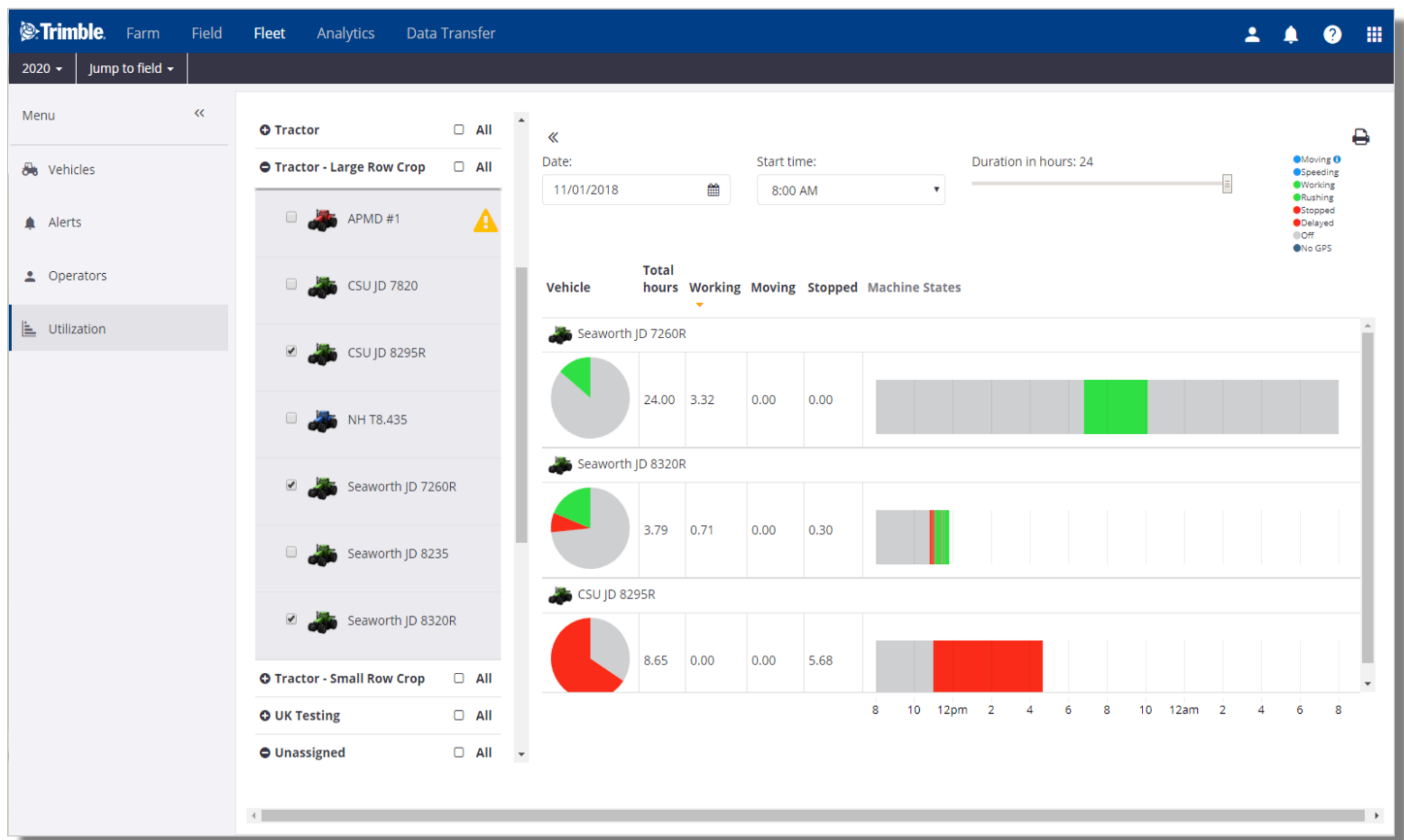


1. Click **Fleet** tab > **Alerts**
 - This page provides a list of all alerts or alerts for selected vehicles
2. Add or Edit Alerts, Geofences, and Contacts
 - Click **CONFIGURE** button
 - Click the Edit button to edit an existing alert
 - Click **MANAGE** > **New Alert** to add a new alert
 - Enter name, select Alert Type, configure Alert Details, assign to Vehicles, and assign Contacts to receive via email
 - Click **MANAGE** > **Geofences** to edit or create a geofence
 - used in Traditional Fleet setups only
 - Click **MANAGE** > **Contacts** to edit or create new contacts in the Contacts list for your organization
3. Click **Files** tab to view Files from Vehicle or To Vehicle
 - Click the file name to **download** a copy of the file
 - Click the **Upload** button under To Vehicle to directly upload a file to this vehicle
4. Available alert types vary based on the Fleet method that is utilized

Farmstream Fleet	Traditional Fleet
<ul style="list-style-type: none"> ○ Machine Alerts ○ Rushing Alerts 	<ul style="list-style-type: none"> ○ Curfew Alerts ○ Geofence Alerts ○ Create Geofence ○ Ignition Alerts

Online | Utilization

FARMER PRO ONBOARDING



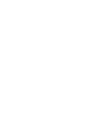
The Fleet Utilization reporting feature allows users to evaluate the performance of their machines over a chosen day. Vehicle status is displayed, showing states such as moving, speeding, working, rushing, stopped, delayed, off, and no GPS. The time in each state is calculated and displayed graphically.

1. Click **Fleet** tab > **Utilization**

- Select the vehicles to include in the summary
- Filter by Date, Start time, and the Duration in hours that you would like to view
- hover your mouse pointer over an item in the graph for specific details
- Click the Print icon to send the visible utilization data to the printer

2. Reported machine states are determined by the Fleet method that is utilized

- FarmStream Fleet
 - Working, Moving, Stopped, Off, Speeding, Rushing, No GPS, Delayed, Pending
- Traditional Fleet
 - Working, Moving, Stopped, Off, Speeding



0.2.d

Materials

Online | Planning Season Materials

FARMER PRO ONBOARDING

Objective: How to add and manage your inputs and materials during the season

In this session you will learn how to:

- Add chemicals
- Add fertilizer
- Add purchases
- Add tank mix
- View materials report by:
 - Brand
 - Vendor
 - Material type
- Adding Materials in the Mobile App

Online | Adding Chemicals

FARMER PRO ONBOARDING

The screenshot displays the Trimble Farmer Pro Onboarding interface. The top navigation bar includes 'Farm', 'Field', 'Fleet', 'Analytics', and 'Data Transfer'. The sidebar menu on the left lists 'Home', 'Profile', 'Farms', 'Equipment', 'Inputs & Materials', 'Commodities', and 'Storage'. The main content area shows the 'Inputs & Materials' section with the 'Chemicals' tab selected. A table lists chemicals with columns for Material, Qty. Purchased, Avg. Cost, Total Cost, Applied Area, Avg. Rate, Qty. Used, and Balance. A 'Chemical Search' modal is open, showing search results for 'MOCAP 10% GRANULAR' by Bayer Cropscience. Another modal for 'Chemical Properties' is also visible, showing details for 'MOCAP 10% GRANULAR'.

Material	Qty. Purchased	Avg. Cost	Total Cost	Applied Area	Avg. Rate	Qty. Used	Balance
2,4-D LV 4 Ester	0.000 gal	\$0.00	\$0.00	0.00 ha	0.00 gal/ha	0.000 gal	0.000 gal
Aframe	0.000 l	\$0.00	\$0.00	0.00 ha	0.00 l/ha	0.000 l	0.000 l
JUWEL TOP	0.000 gal	\$0.00	\$0.00	0.00 ha	0.00 gal/ha	0.000 gal	0.000 gal
Omni Brand Propiconazole 41.8% EC	0.000 gal	\$0.00	\$0.00	0.00 ha	0.00 gal/ha	0.000 gal	0.000 gal
ROUNDUP ORIGINAL MAX	0.000 gal	\$0.00	\$0.00	0.00 ha	0.00 gal/ha	0.000 gal	0.000 gal
Roundup Weathermax	0.000 gal	\$0.00	\$0.00	0.00 ha	0.00 gal/ha	0.000 gal	0.000 gal
Total:			\$0.00				

Chemical Search

Name: MOCAP 10% GRANULAR

Manufacturer: Bayer Cropscience

Name	Manufacturer
MOCAP 10% GRANULAR	Bayer Cropscience
MOCAP 15% GRANULAR (R)	Bayer Cropscience
MOCAP 15G LOCK N LOAD	Bayer Cropscience
MOCAP EC (R)	Bayer Cropscience

[Request a new chemical to be added to the list.](#)

Chemical Properties

Use Chemical Search to find additional information about the material.

Q CHEMICAL SEARCH

Name *: MOCAP 10% GRANULAR

Category *: Insecticide

Form *: Granular/Dry

Active Ingredient

Purchased Units *: kilograms

Unit Cost: \$125.0 / kg

Applied Units *: grams

Default Target Rate: 30.00 g / ha

Manufacturer: Bayer Cropscience

EPA #: 264-465

Signal Word: Warning

REI: 48

CANCEL SAVE

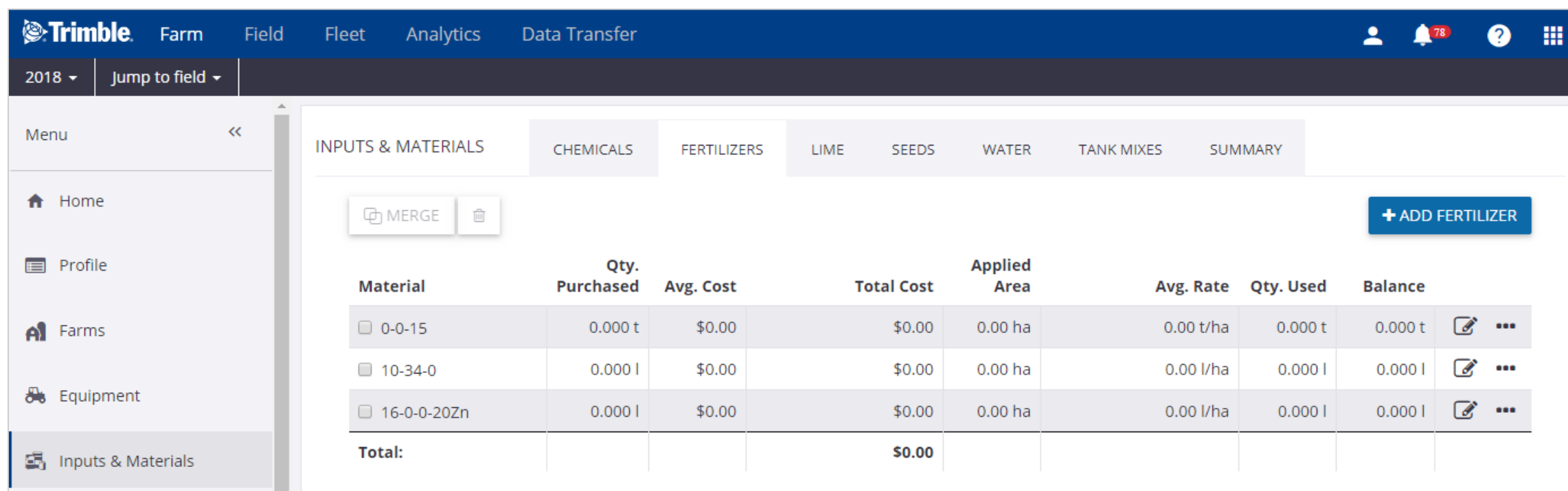
1. Click **Farm** tab > **Inputs & Materials** > **Chemicals** tab
2. Select **+ Add Chemical**
3. Click **Chemical Search**:
 - Leave Name and Manufacturer blank to search the entire database - click **More** button to see more
 - Type Name to find by name - type a minimum of 3 letters to search for matching names
 - Select Manufacturer to filter the list by manufacturer
 - Select the Chemical Name from the list
 - Supplement the details by listing the Active Ingredient
 - Indicate Purchased Units and Applied Units, along with Unit Cost and Default Target Rate
 - the gray boxes are populated by the system and cannot be manually entered or edited
 - you can add custom chemical names for use in your organization, or use the link to **Request a new chemical to be added to the list**
 - Add Purchase details with the ■■■ button to track cost and inventory levels
4. Click **Save**



Watch this [video](#) to learn more.

Online | Adding Fertilizers

FARMER PRO ONBOARDING



INPUTS & MATERIALS | CHEMICALS | FERTILIZERS | LIME | SEEDS | WATER | TANK MIXES | SUMMARY

Fertilizer Properties

Use Fertilizer Search to find additional information about the material.

Name *

Form *

Purchased Units *

Unit Cost / kg

Applied Units *

Default Target Rate g / ha

Nutrients

Nutrient	Value	Unit	Action
Nitrogen	12.00	%	✕
Potassium	40.00	%	✕
Phosphorus	5.00	%	✕
Zinc	0.25	%	✕
Manganese	0.10	%	✕
Iron	0.10	%	✕

[+ ADD ANOTHER ROW](#)

[CANCEL](#) [SAVE](#)

Fertilizer Search

Name

Manufacturer

Name	Manufacturer
Folo Spray 0-50-30	PLANT HEALTH TECH.
Folo Spray 12-5-40	PLANT HEALTH TECH.
Folo Spray 20-20-20	PLANT HEALTH TECH.
Folo Spray 6-30-30	PLANT HEALTH TECH.

[Request a new fertilizer to be added to the list.](#)

1. Click **Farm** tab > **Inputs & Materials** > **Fertilizers** tab
2. Select **+ Add Fertilizer**
3. Click **Fertilizer Search**:
 - Leave Name and Manufacturer blank to search the entire database - click **More** button to see more
 - Type Name to find by name - type a minimum of 3 letters to search for matching names
 - Select Manufacturer to filter the list by manufacturer
 - Select the Fertilizer Name from the list
 - Supplement the details by listing the Nutrients
 - Indicate Purchased Units and Applied Units, along with Unit Cost and Default Target Rate
 - you can add custom fertilizer names for use in your organization, or use the link to **Request a new fertilizer to be added to the list**
 - Add Purchase details with the **■ ■ ■** button to track cost and inventory levels
4. Click **Save**



Watch this [video](#) to learn more.

Online | Adding Tank Mixes

FARMER PRO ONBOARDING

The screenshot displays the Trimble Farmer Pro Onboarding interface. The main window shows the 'Tank Mix Properties' form under the 'TANK MIXES' tab. The form includes fields for Name, Form, Carrier, Default Rate, Mix Rate, and Mix Cost. A table lists ingredients with their costs and rates. A dialog box titled 'Select Material(s)' is open, showing a list of materials to be added to the mix.

Tank Mix Properties

Name *: burndown

Form *: Liquid

Carrier: water

Default Rate: 10.00 gal / ac

☒ Define mix as rates
☐ Define mix as quantities

Mix Rate *: 10.00 gal / ac

Mix Cost: \$2.25 / gal

Ingredient	Cost	Rate	
Durango	\$25.00 / gal	0.10 gal / ac	X
Atrazine 4L	\$40.00 / gal	0.50 gal / ac	X

[+ ADD INGREDIENTS TO RECIPE](#)

Select Material(s)

☒ Chemical
☒ Fertilizer

Lime

Water

[CANCEL](#) [OK](#)

To be used to document custom Tank Mixes

1. Click Farm tab > Inputs & Materials > Tank Mixes tab

- Select + **Add Tank Mix**
- Enter Name: **Burndown**
- Select Form: **Liquid**
- Carrier: **Water**
- Default Rate: **10.00 gal/ac**
- check of **Define mix as rates**
- Mix Rate: **10 gal/ac**
- Ingredients
 - Select **Durango**
 - Cost: **\$25.00/gal**
 - Rate: **0.10 gal/ac**
 - Select **Atrazine 4L**
 - Cost: **\$40.00/gal**
 - Rate: **0.50 gal/ac**
- Click **Save**

Online | Adding Purchases

FARMER PRO ONBOARDING

The screenshot displays the Trimble Farmer Pro software interface. The top navigation bar includes 'Farm', 'Field', 'Fleet', 'Analytics', and 'Data Transfer'. The left sidebar shows a menu with 'Home', 'Profile', 'Farms', 'Equipment', 'Inputs & Materials' (selected), and 'Commodities'. The main content area is titled 'INPUTS & MATERIALS' and has tabs for 'CHEMICALS', 'FERTILIZERS', 'LIME', 'SEEDS', 'WATER', 'TANK MIXES', and 'SUMMARY'. A table lists materials with columns: Material, Qty. Purchased, Avg. Cost, Total Cost, Applied Area, Avg. Rate, Qty. Used, and Balance. A 'Purchase Details' modal is open for material '10-34-0', showing fields for Date, Quantity Purchased, Price, Tax, Total Cost, and Optional Details like Vendor and Invoice #. A secondary screenshot shows the 'Fertilizers > 10-34-0' sub-view with a table of purchase history.

Material	Qty. Purchased	Avg. Cost	Total Cost	Applied Area	Avg. Rate	Qty. Used	Balance
0-0-15	0.000 t	\$0.00	\$0.00	0.00 ha	0.00 t/ha	0.000 t	0.000 t
10-34-0	249.932 l	\$10.60	\$2,650.00	0.00 ha	0.00 l/ha	0.000 l	249.932 l
16-0-0-20Zn	0.000 l	\$0.00	\$0.00	0.00 ha	0.00 l/ha	0.000 l	0.000 l
Folo Spray 12-5-40	0.000 kg	\$0.00	\$0.00	0.00 ha	0.00 kg/ha	0.000 kg	0.000 kg
My Custom Fertilizer	4.990 kg	\$88.18	\$440.00	0.00 ha	0.00 kg/ha	0.000 kg	4.990 kg
Total:			\$3,090.00				

Date	Field/Invoice	Avg. Cost	Total Cost	Applied Area	Avg. Rate	Qty. +/-	Balance
06/04/2018	31579542	\$10.60	\$2,650.00			249.932 l	249.932 l
Total:		\$10.60	\$2,650.00			249.932 l	

1. Click **Farm** tab > **Inputs & Materials**
2. Select the desired tab for the purchase to be entered (Chemicals, Fertilizers, Lime, or Seeds)
3. Click the **...** button on the material that was purchased
 - Click **+ New Purchase**
4. Enter the Purchase Details
5. Click the OK button to save the purchase

Optional:

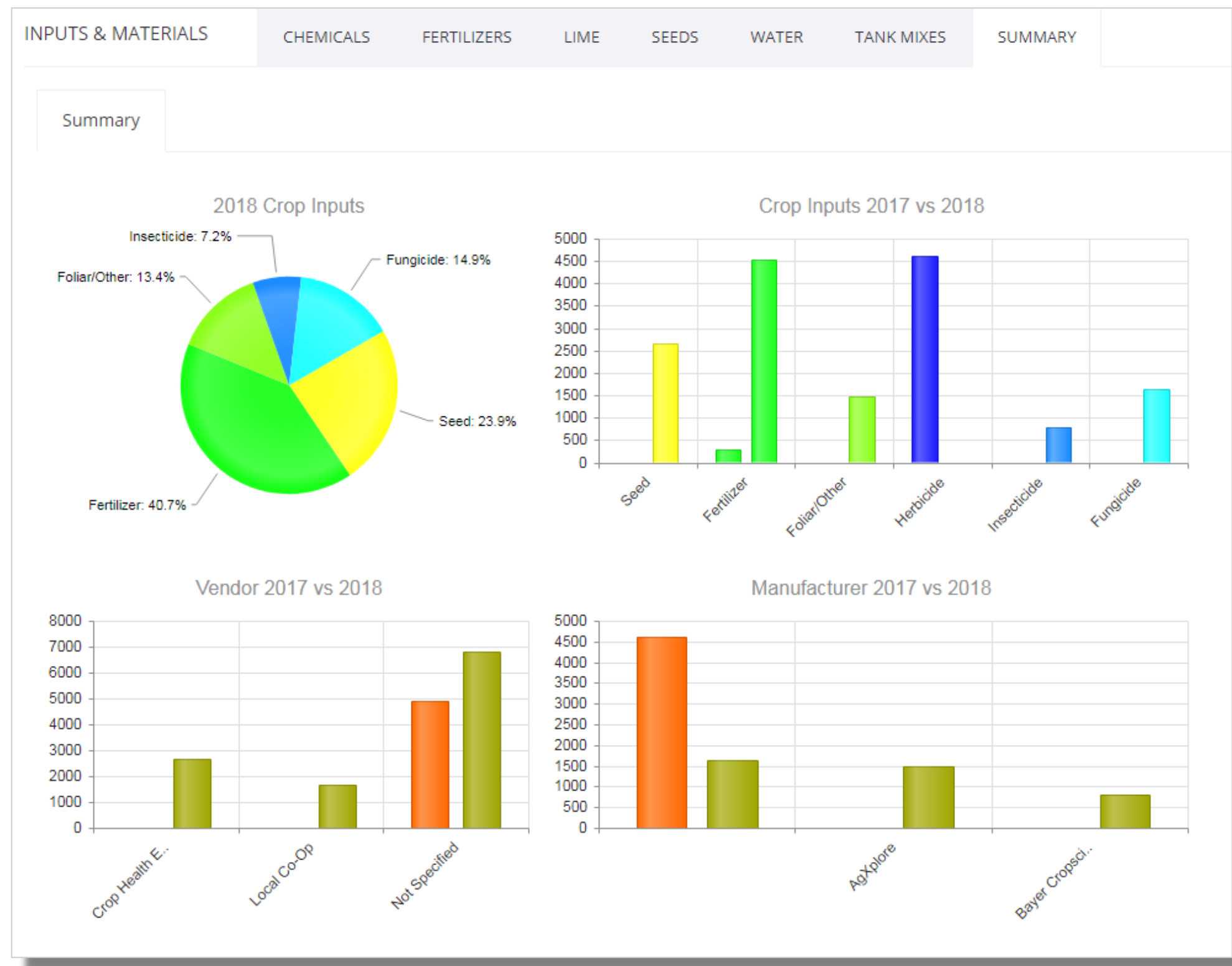
- use the **+ Carry Over** button to carry over purchase balances to the next year
- **Update Task Costs** and **Update Material Unit Cost** can be used when changes for either need to be made and updated for existing applications in that growing season



Watch this [video](#) to learn more.

Online | Inputs and Materials Summary

FARMER PRO ONBOARDING

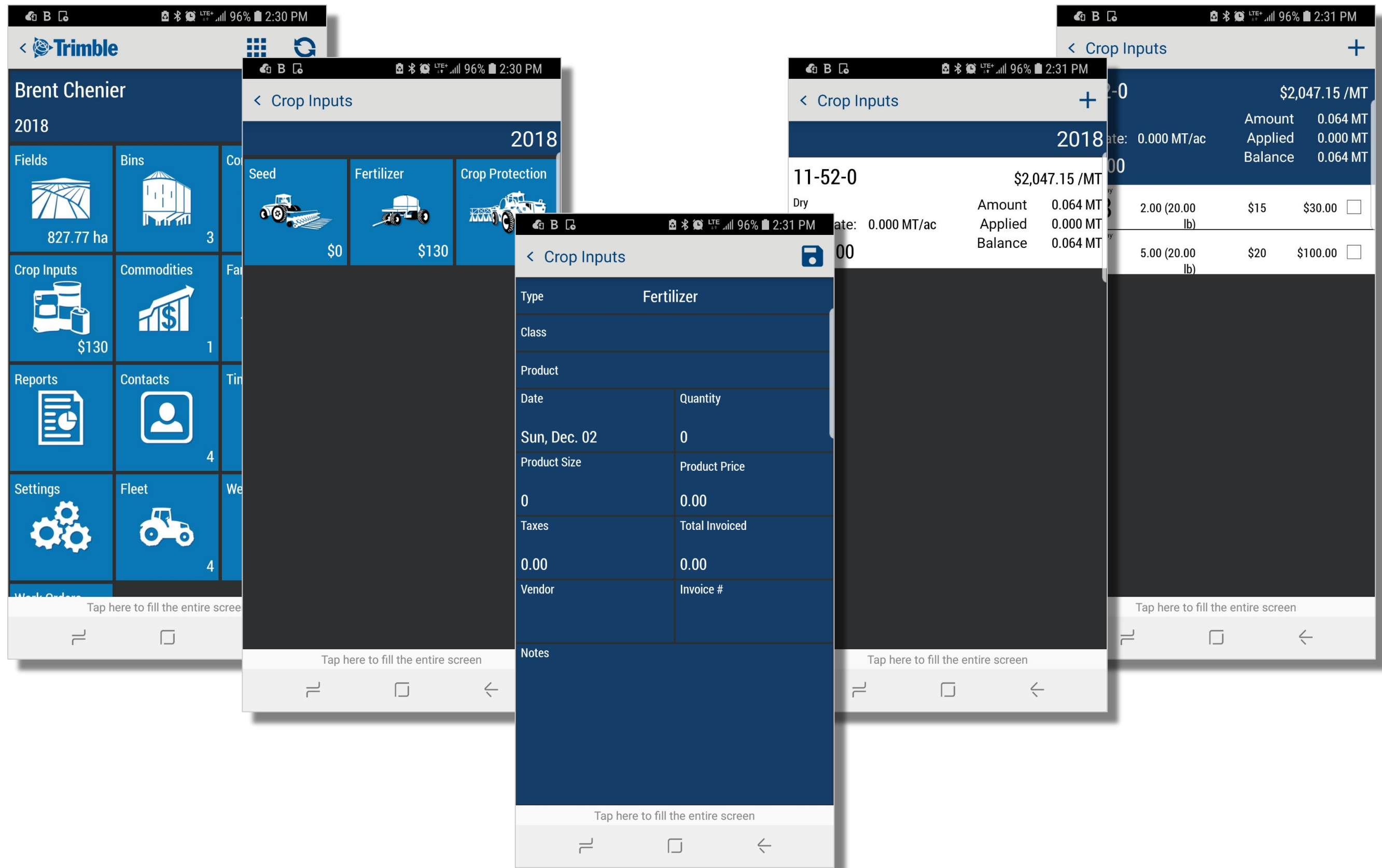


Click **Farm** tab > **Inputs & Materials** > **Summary**

- The distribution of the 2018 Crop Inputs are illustrated in the pie chart based on purchases that have been entered.
- Crop Inputs are compared to prior year in a Bar Chart
- Bar chart Vendor analysis with prior year provided
- Bar chart Manufacturer analysis with prior year provided

Mobile | Adding Purchases

FARMER PRO ONBOARDING



1. Tap **Crop Inputs** tile
2. Tap the desired input : **Fertilizer**
3. Tap the + symbol to add a new crop input **purchase**
 - Type: **Fertilizer**
 - Product: **11-52-0 (Dry) P**
 - Date: **Sun.Jan 28**
 - Quantity: **8**
 - Product Size: **1 MT**
 - Product Price: **634**
 - click **Save** icon
4. **Multiple** product purchases can be **logged** and **summarized** in mobile. All product purchases will become available online as soon as you **sync** your Trimble Ag mobile app.

Note that you cannot add a new **Material** to your overall material list from Mobile, this can only be done from the **Online** platform. Repeat this process as needed for any input purchase made.

0.2.e

Farm and Fields

Online | Planning Season Farm / Fields

FARMER PRO ONBOARDING

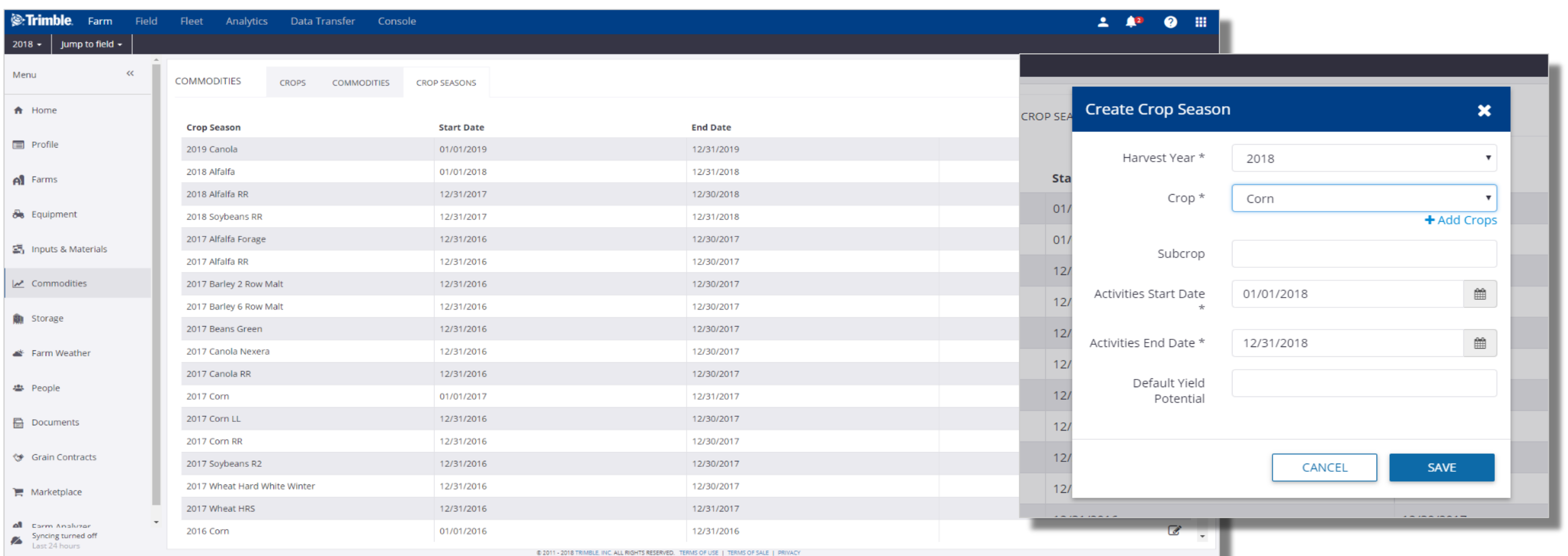
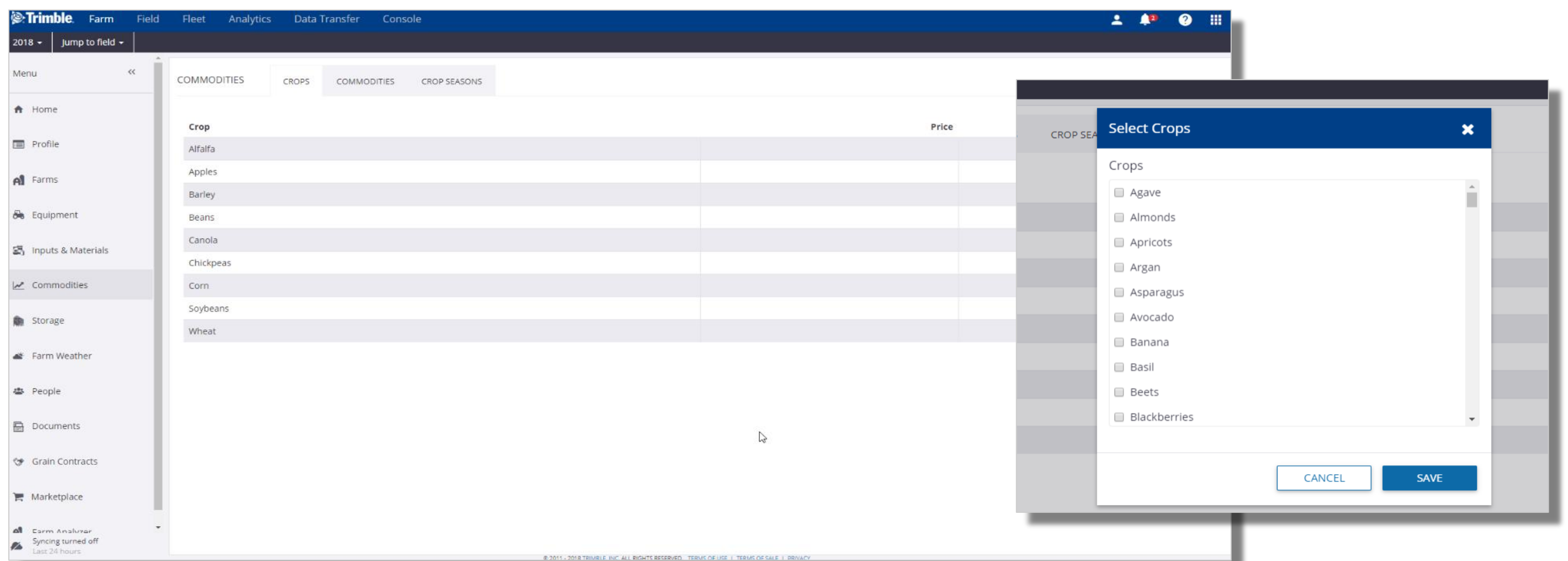
Objectives: To understand the basic information required when planning for a new crop season.

In this session you will learn:

- Creating a Crop Plan
 - How to add potential Crop types
 - Navigating Trimble Ags Client/Farm/Field setup
 - How to add a new Client, Farm, Field and Boundary in Online and Mobile
 - The importance of field Boundaries in TAS
 - Managing multiple Crop Zones using “New Crop” feature
 - How to navigate the Farm Map
 - How to add a Target Yield

Online | Add a Crop and Crop Season

FARMER PRO ONBOARDING



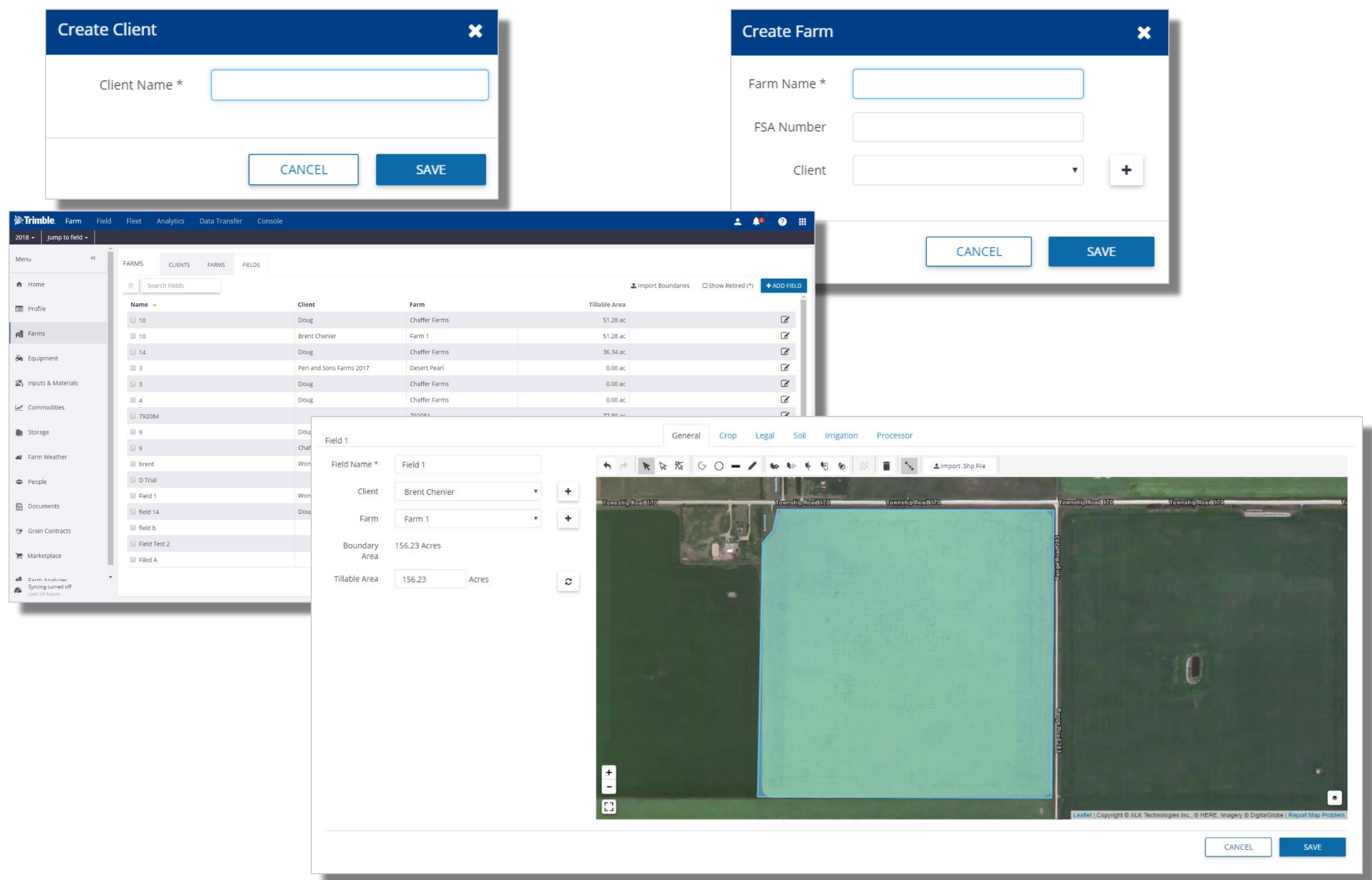
1. Click **Farm > Commodities > Crop**
 - Click **+ Add Crops**
 - **Check off** the appropriate crops
 - Click **Save**
2. Click **Crop Season** tab
 - Click **+ Add Crop Season**
 - Select **Harvest Year**
 - Select **Crop**
 - Select **Activity Start** and **End** date (if different from default)
 - Click **Save**



Watch this [video](#) to learn more.

Online | Adding Client, Farm, Field

FARMER PRO ONBOARDING



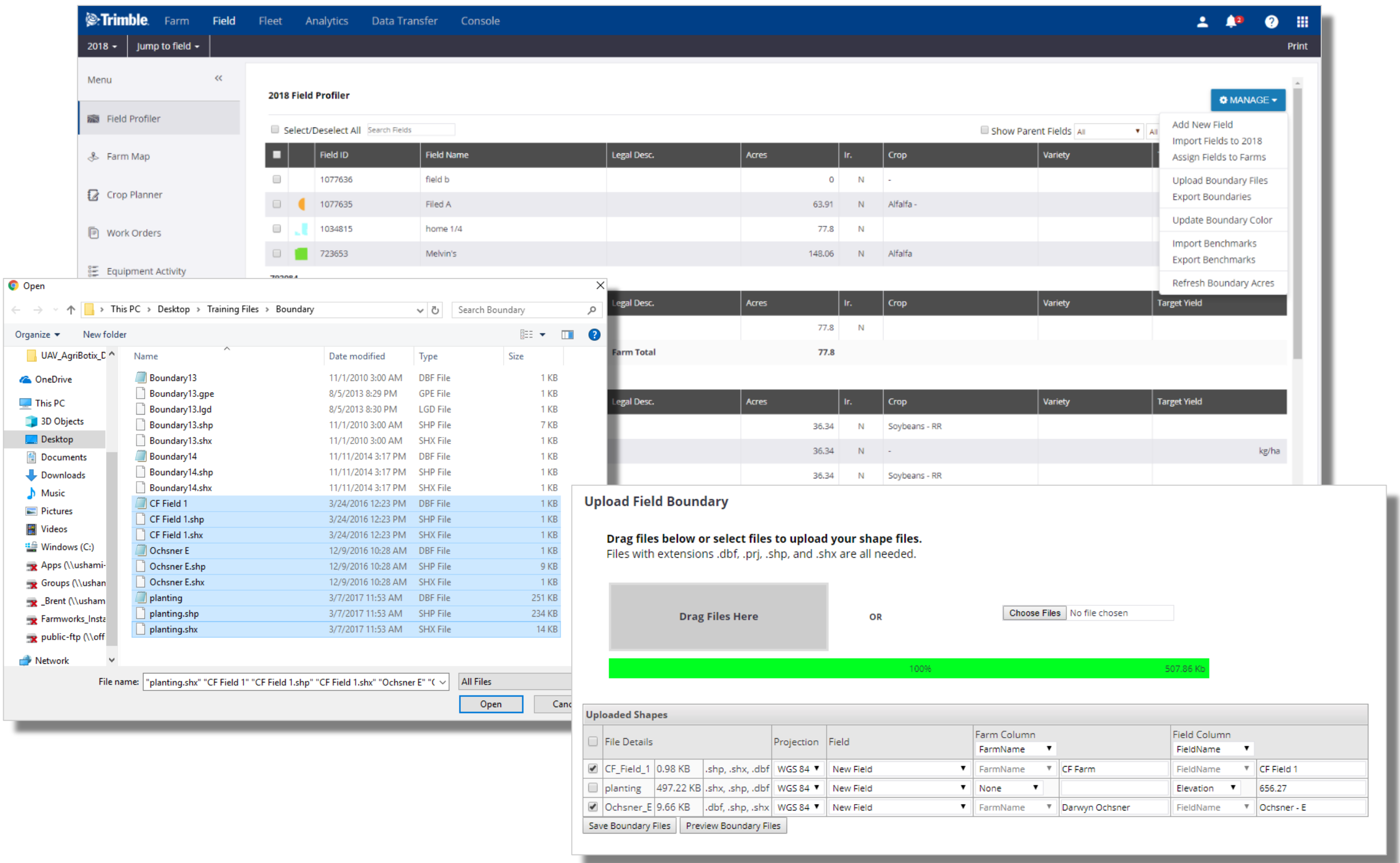
1. Click **Farm > Client > +Add Client**
 - Enter Client name > click **Save**
2. Click **Farm > Farms > +Add Farm**
 - Enter Farm name: **Farm A**
 - Enter FSA number(if applicable)
 - To place the **Farm** under a **Client**, choose a **Client** from the dropdown list > click **Save**
3. Click **Farm > Fields > + Add Field**
 - Enter **Field Name: Field 1**
 - Select proper **Client** and **Farm** from dropdowns
 - Use **GIS Tools** in mapping window to manually draw the **Boundary**
 - OR
 - click **Import .Shp File** > select the **.shp** file only > click **Open**
 - You can make further **edits** to the imported boundaries using the **GIS tools**.
 - click **Save**



Watch this [video](#) to learn more.

Online | Add Field and Boundary (Bulk)

FARMER PRO ONBOARDING



1. Click **Field** tab > **Field Profiler** > **Manage**
2. Select **Upload Boundary Files**
 - Select **.shp, .shx and .dbf** for all desired boundaries
 - click **Open**
 - Leave **Field** column at **default** (New Field)
 - Select **Farm Name** and **Field Name** attribute columns from Farm/Field Column dropdown menu to auto fill details

OR

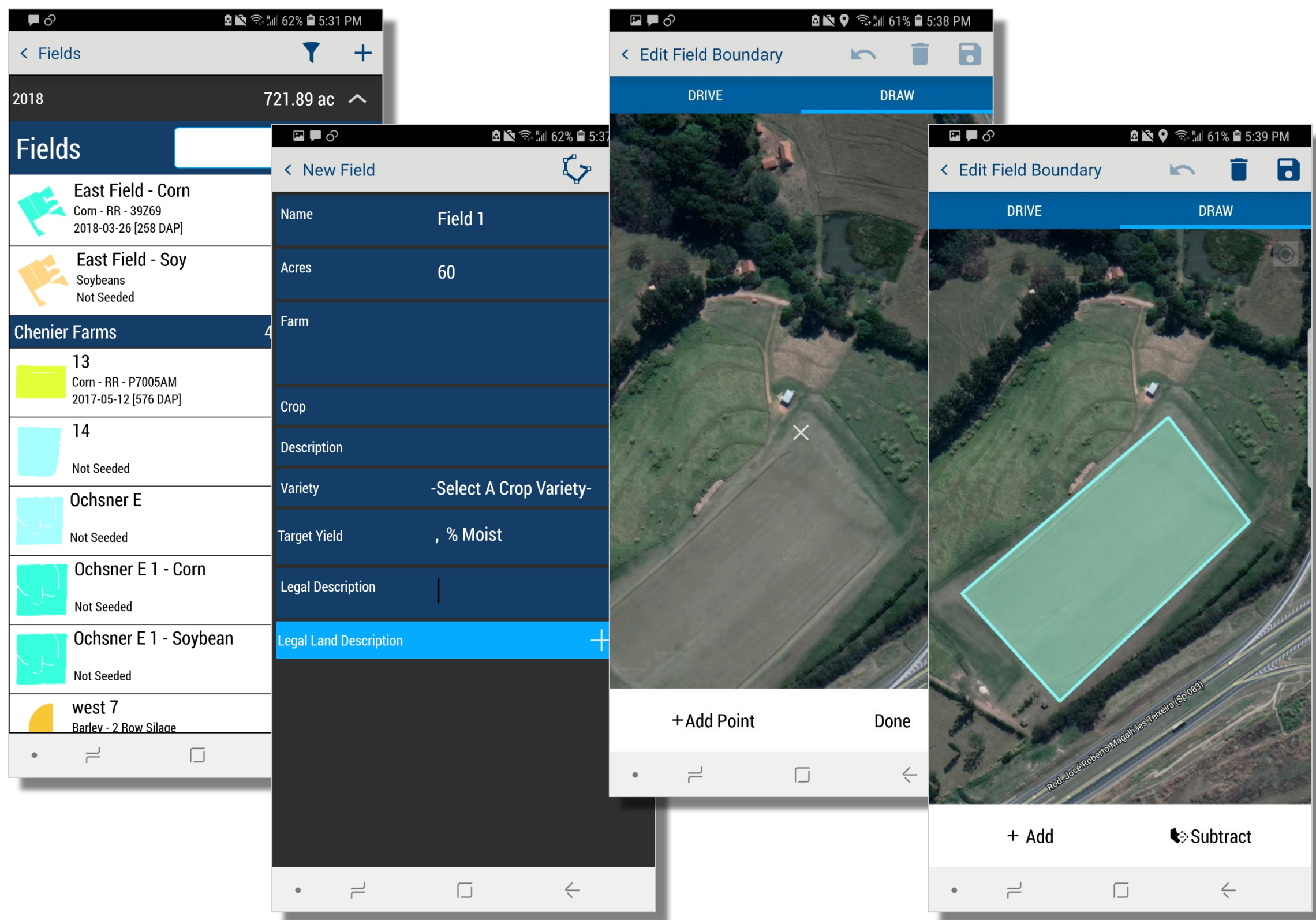
 - Manually enter **Farm** and **Field** name
 1. Check fields on left side
 2. Click **Save Boundary Files**



Watch this [video](#) to learn more.

Mobile | Add New Field and Boundary

FARMER PRO ONBOARDING



1. From the Farm screen, tap **Fields** > tap the + symbol to create new
2. Enter field name (required to create a boundary): **Field 1**
3. Enter estimated acres (required to create a boundary): **60**
4. Enter other details as needed
5. Tap the **Boundary** (📍)
6. Chose to:
 - **Drive Boundary**
 - tap **Start** and drive the boundary
 - tap **Done** to close the boundary
 - tap **Save** icon (💾)
 - **Draw Boundary**
 - tap the **Draw** tab
 - tap **Start** and hover the white **X** overtop of a boundary corner to start > tap **+Add Point** to start boundary > repeat for all corners of the field
 - tap **Done** to close the boundary
 - tap **Save** icon (💾)
7. tap **Save** icon (💾) to finish new field



Watch this [video](#) to learn more.

Online | Adding a New Crop

FARMER PRO ONBOARDING

2019 Field Manager

Field Details # 1014809

Field Name	ADS Field ID	# Acres	Irrigated	Seeded Date	Harvest Date
Ochsner E - Chenier Farms	1014809	151.1			

Expenses Breakdown

Expense	Total Cost
Seed	\$0

New Crop

Parent Field: #1014809 - Ochsner E (151.10 ac)

New Name: Ochsner E - Soybeans New Acres: 151.1 Crop Sequence: 1

New Name: Ochsner E - Corn New Acres: 151.1 Crop Sequence: 2

SAVE FIELDS

Chenier Farms

Field ID	Field Name
867573	13
867526	Ochsner E
1014809	Ochsner E 1
1014809	Ochsner E 1 - Corn
1014809	Ochsner E 1 - Soybean
1077211	west 7

Original Field (parent field)

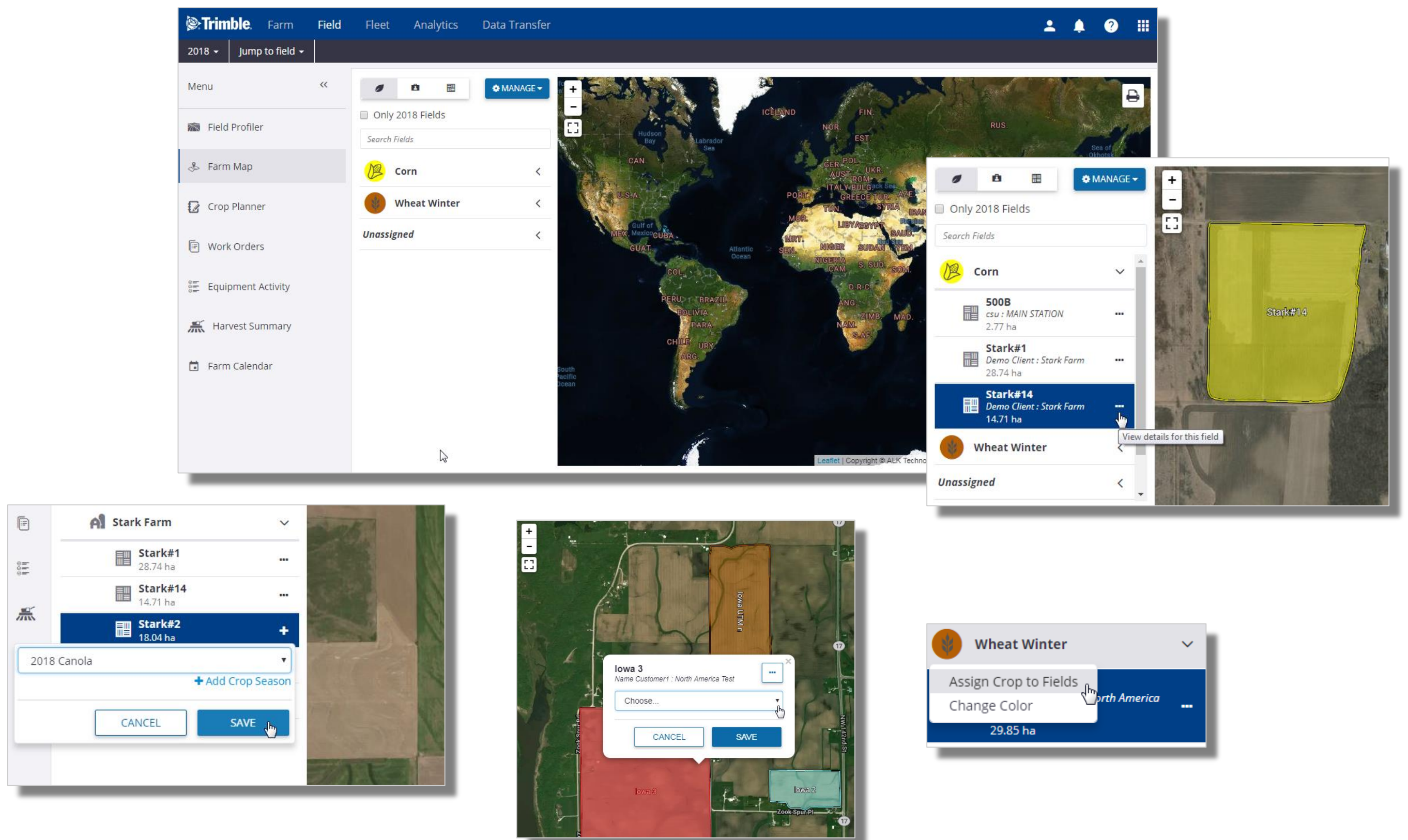
New Crop Fields

1. From the **Field Overview**, click **Manage** > click **New Crop**
2. Enter new **Field Name** for each New Crop
3. Enter **Acres** for each New Crop
4. Click the + button to create multiple new crops at the same time (optional)
 - note that crop sequence numbers will not increase if you choose to do it this way. For Crop sequence number to increase, you need to create each new crop, 1 at a time.
5. Adjust **Crop Sequence** according to the order the Crops are grown.
 - i.e Corn = Crop Sequence 1, Soybeans = Crop Sequence 2, etc.
6. click **Save Fields**

Please note that the new crop fields created will only be available for that calendar year. The field will reset to the single Parent field the next calendar year.

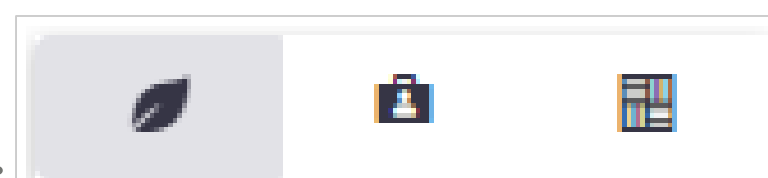
Online | Farm Map

FARMER PRO ONBOARDING



1. Click **Field** tab > **Farm Map**

- Interact with your fields in a map view
- Show fields grouped by Crop Season



Show fields grouped by Client and Farm

- Show Fields Only

2. From the Field level list, click on the **View details for this field** button in the Field Manager screen.

3. If the field shows a plus sign **+** on the right, this means a crop has not been assigned to the field, click **+** to assign a crop from the drop down menu, or click **+ Add Crop Season** to add a new crop season for selection - click **Save** to update the Crop Season.

- Fields with the **+** may have been imported from a vehicle display without a crop assignment, these fields *will not* appear in the Field Profiler until a Crop Season has been assigned.

4. With your farm boundaries visible in the map view, you can also click on the field boundary in the map to assign the Crop Season from the drop down menu.

- Click on the Crop Season icon to **Change Color** for each crop in the map view, or to access the **Assign Crop to Fields** option to assign the selected crop to multiple fields in the map view.



Watch this [video](#) to learn more.

Online | Crop Type and Target Yield

FARMER PRO ONBOARDING

Field	Acres	2016 Crop	2017 Crop	2018 Crop	Description / Variety	Target Yield / % Moisture	Target Price
New Field # 1059223	85.04						
Farm A							
Field A1 # 1059617	29.23						
Field A2 # 1059618	19.4						
Field A3 # 1059620	37.07						
Field A4 # 1059622	7.41						

1. Click **Field > Crop Planner**
2. Check that **Crop Type** for each field is correct.
 - If not, under the **2018 Crop Year** column, enter desired **Crop, Description** and **Variety**
3. Enter **Target Yield** amount
 - select **unit of measure**
4. (Optional) Enter **Target Price**
5. Scroll down > **Save Changes**

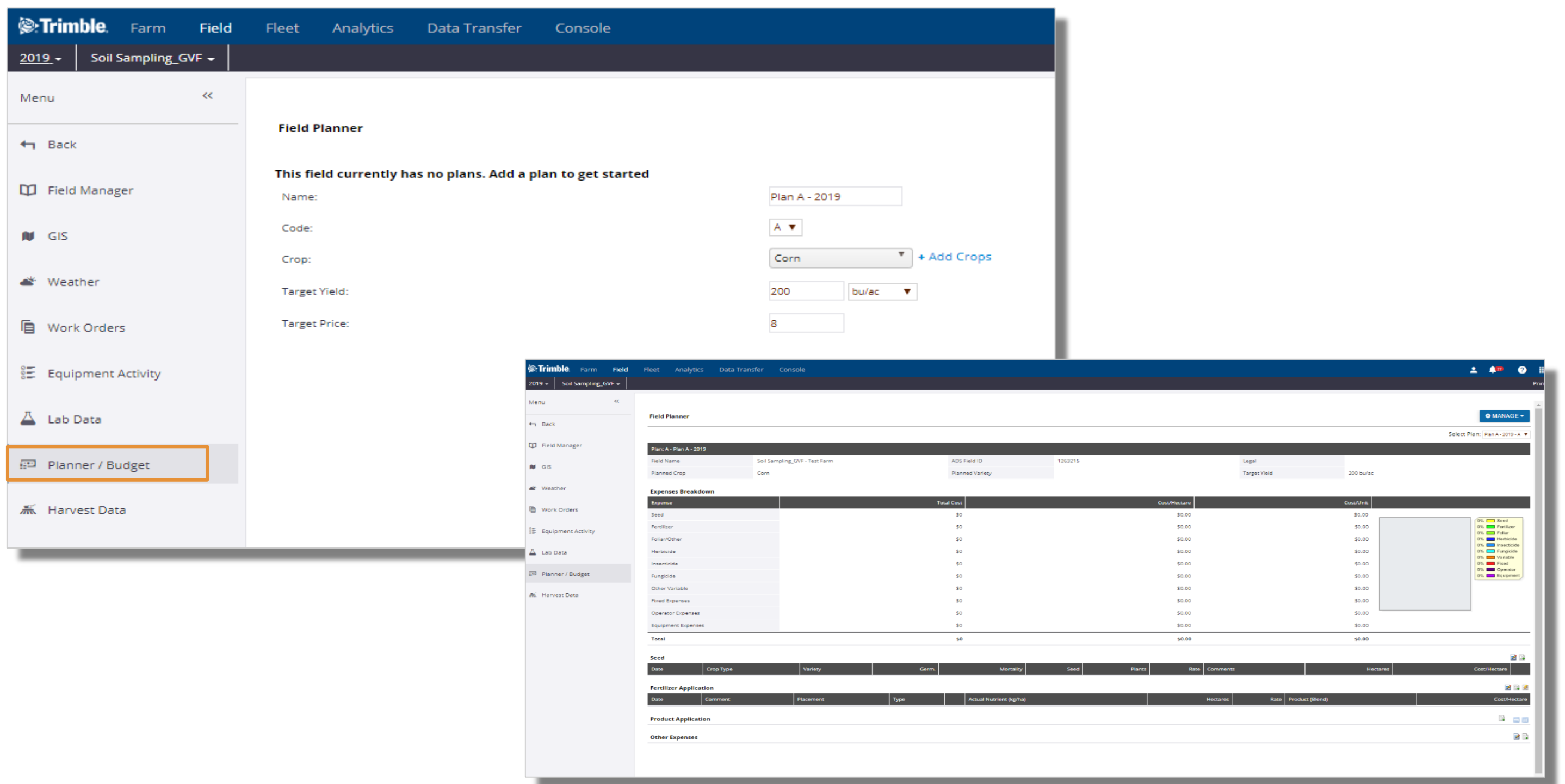
Please note that this is an area where you could bulk assign Crops to each field as well.

0.2.f

Planner / Budget

Online| Planner / Budget

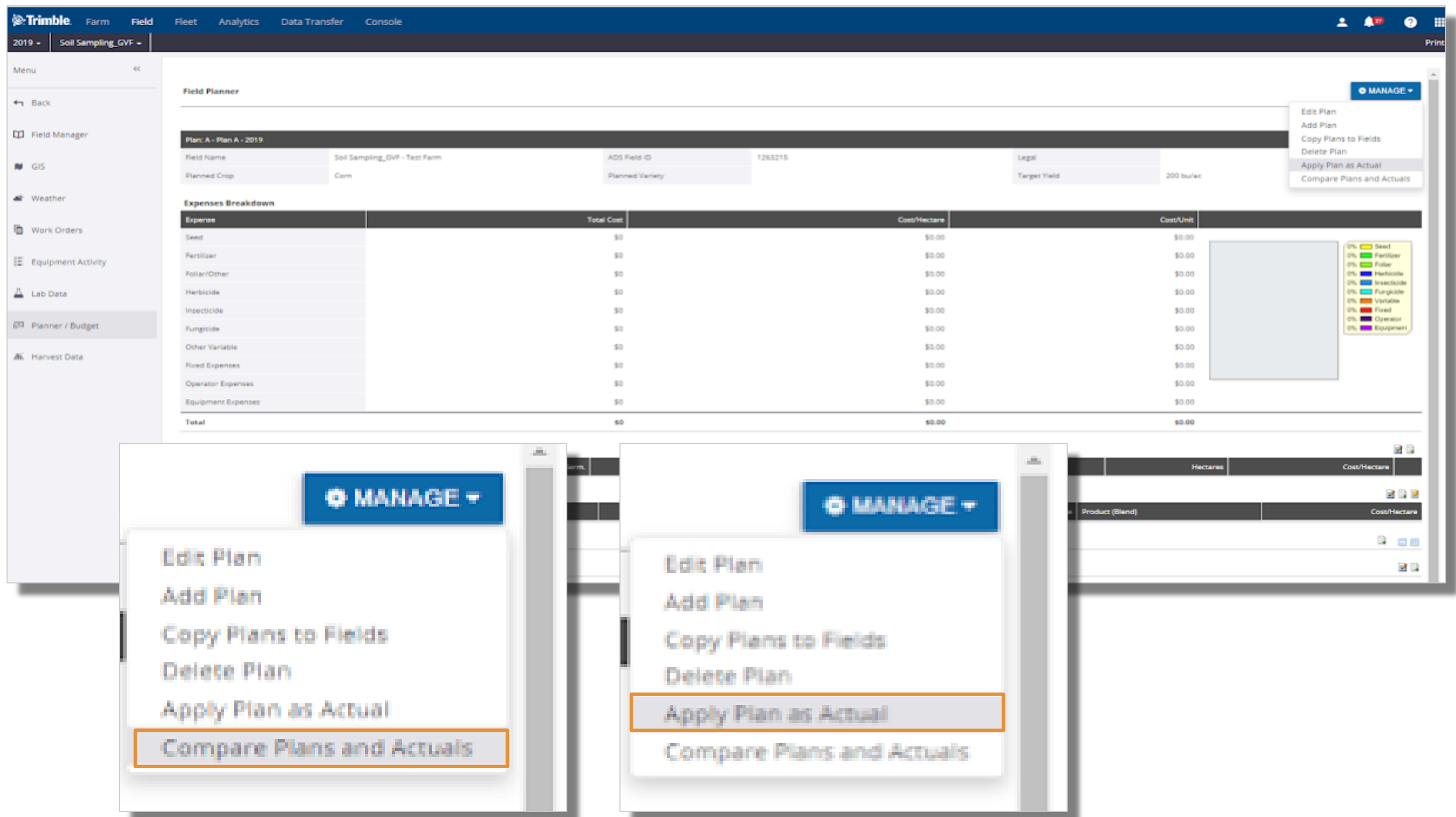
FARMER PRO ONBOARDING



1. Click on **Field Profiler** and in the **Field** of interest
2. From the **Field Manager** screen, select **Planner / Budget** (left navigation menu)
3. On the **Field Planner** screen, add or select options to define a new plan
4. Enter a **Name** for your field plan (example: Good, Better and Best)
5. Select a **Code** from the dropdown list to help keep your plans organized
6. Adjust the default **Crop**, if needed, by selecting a different crop from the list (or click +Add Crops) to add to your crops
7. Enter a **Target Yield** amount and click to adjust the unit of measure
8. Click **Create Plan** to save changes (or navigate away from this screen to cancel)
9. Review the new **Field Planner** and scroll down to enter relevant fixed and variable expenses for this plan
10. Seed – click the add record icon to display or edit the default crop type costs for any planned seed applications, then select one or more fields and click Add Application (or Close Window)
11. Fertilizer - click the add record icon to add any planned fertilizer application, then select one or more field to Add Application (or close Window)

Online| Planner/Budget (cont.)

FARMER PRO ONBOARDING



1. **Manage Button** then Select **Compare Plans and Actuals**
2. Select any two plans or actuals from the lists at the top of the screen to view or print the **Field Comparison report** to see the total cost of operating between actuals (in our example, the Field Manager actuals are on left, and the new scenario, Good – A plan, is on the right).
3. Click **Back** (top left) to return to the previous screen
4. To add more scenarios, click the **Manage** button and select **Add Plan**
5. Toggle between plans by choosing from the **Select Plan list**, beneath the Manage button
6. To begin working with your preferred plan as the plan of record, click **Manage** and select **Apply Plan as Actual** (replaces existing Field Manager plan of record, including any actual applications or expenses already recorded for the crop year)
7. From the left navigation menu, select **Overview** to return to the Field Manager (actuals) screen

0.2.g

Bins and Contracts

Online | Planning Bins and Contracts

FARMER PRO ONBOARDING

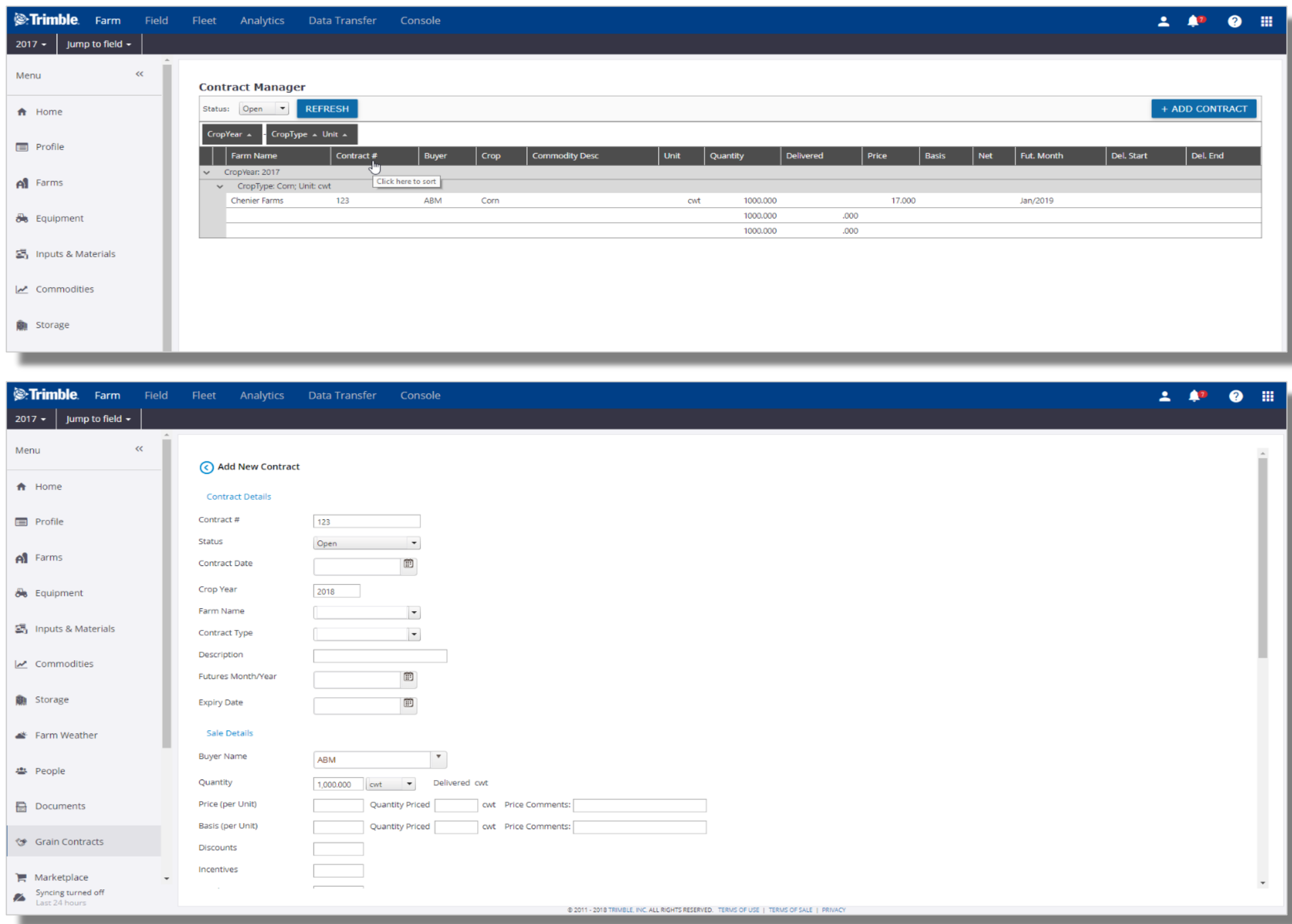
Objective: How to manage your contracts and storage during the crop season.

In this session you will learn:

- How to Create and Manage Grain Contracts in Online and Mobile
- How to manage your farm inventory through the Bin management system (Bins) in Online and Mobile

Online | Grain Contracts

FARMER PRO ONBOARDING



1. Go to **Marketplace** > if it hasn't been added already search for **Commodities & Contracts** and click **Add**
2. Click **Grain Contracts** tab
 - Click **+ Add Contract**
 - i. Contract #: **123**
 - ii. Crop Year: **enter year**
 - iii. Buyer Name: **Contract 1**
 - iv. Quantity: **500 MT**
 - v. Crop Type: **Corn**
 - vi. All other details in the contract are **Optional** but should be entered as needed for each contract
 - vii. Click **Save**

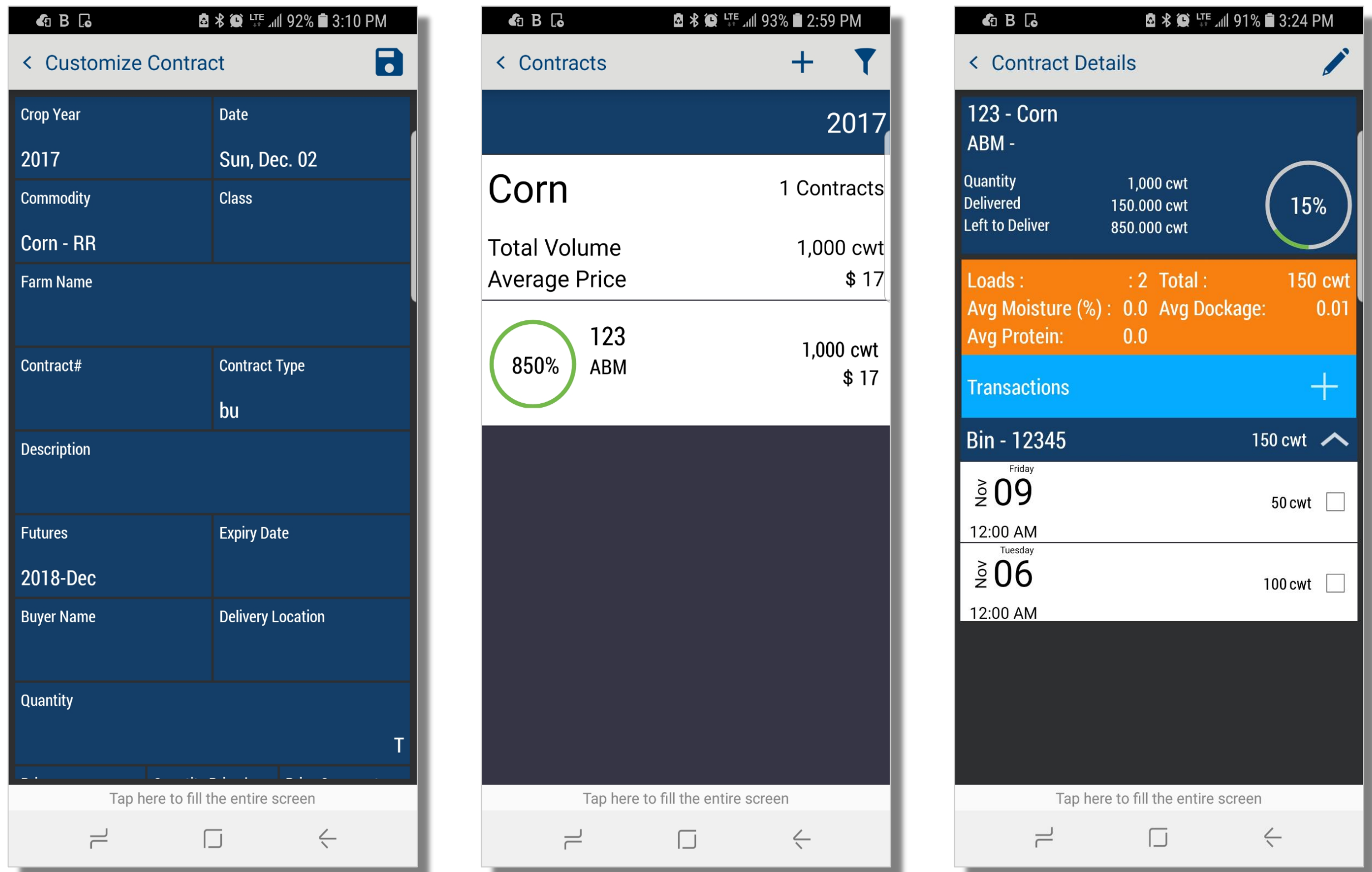
You can also **review** all **transactions** associated with each individual **contract** from the Grain Contracts page.



Watch this [video](#) to learn more.

Mobile | Grain Contracts

FARMER PRO ONBOARDING



1. Before the contract tile becomes available, you must ensure that the **Commodities and Contracts** module is turned on. See slides on **Marketplace** for proper steps.
2. Tap the **Contracts** tile > enter contract **details**. Note that the details below only represents the **Required** details for the contract. Additional information may be entered at the users discretion.
 - tap the + to add a new contract
 - i. Crop Year: **2018**
 - ii. Commodity: **Corn**
 - iii. Contract #: **123**
 - iv. Buyer Name: **ABM**
 - v. Quantity: **1000 cwt**
 - vi. tap **Save**

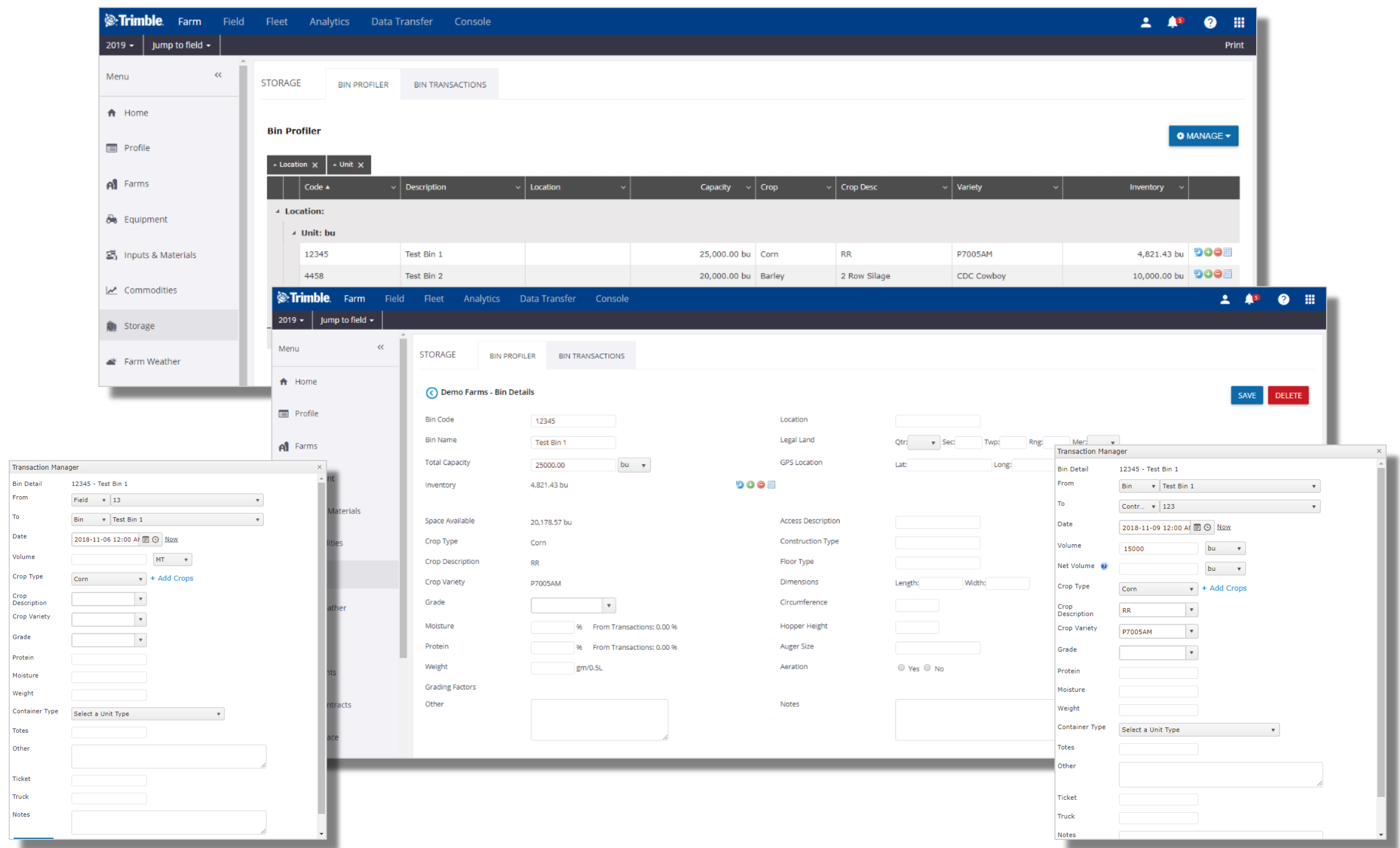
Tap on the contract to review transactions that have helped fulfill the contract, and to view other summarized details of the contract.





Watch this [video](#) to learn more.

Online | Storage

FARMER PRO ONBOARDING



1. Click **Farm > Storage > Bin Profiler**
2. Click **Manage > Add New Bin**
 - Enter **Required** info below, all others are optional:
 - i. Bin Code: **12345**
 - ii. Bin Name: **Home Bin**
 - iii. Total Capacity: **25,000 bu**, Click **Save**
3. Click **Add Inventory** button ()
 - Enter **Required** info below, all others are optional:
 - i. From: **Field, 13**
 - ii. To: **Bin, Test Bin 1**
 - iii. Date: **November 6, 2018**
 - iv. Volume: **1000 MT**
 - v. Crop Type: **Corn**, click **Save**
4. Click **Remove Inventory** button ()
 - Enter **Required** info below, all others are optional:
 - i. From: **Bin, Test Bin 1**
 - ii. To: **Contract, 123**
 - iii. Date: **November 9, 2018**
 - iv. Volume: **15000 bu**
 - v. Crop Type: **Corn**, click **Save**

Online | Storage (cont.)

FARMER PRO ONBOARDING

Transaction Manager

Bin: Test Bin 1 - 12345

Drag a column header and drop it here to group by that column

Crop	Grade	Mois...	Ticket	Date	Volu...	Net...	Doc...	ToF...
Corn				2018-11-09 12:00 AM	8400.056 cwt	8400.056 cwt	N/A	Out Contract: ABM:
Corn				2018-11-06 12:00 AM	100.000 cwt	100.000 cwt	N/A	Out Contract: ABM:
Corn				2018-11-06 12:00 AM	39368.000 bu	39368.000 bu	N/A	In Field: 13
Corn				2017-09-01 12:00 AM	5000.000 bu	5000.000 bu	N/A	In Field: 13

0 %

35,867.94 cwt 35,867.94 cwt

STORAGE BIN PROFILER BIN TRANSACTIONS

Bin Profiler

MANAGE

Location	Unit	Code	Description	Location	Capacity	Crop	Crop Desc	Variety	Inventory
Location:									
Unit: bu									
12345			Test Bin 1		25,000.00 bu	Corn	RR	P7005AM	4,821.43 bu
4458			Test Bin 2		20,000.00 bu	Barley	2 Row Silage	CDC Cowboy	10,000.00 bu
					45,000.00 bu				14,821.43 bu
					45,000.00 bu				14,821.43 bu

STORAGE BIN PROFILER BIN TRANSACTIONS

Bin Activity Report

MANAGE

Custom Start Date: 9/10/2018 End Date: 11/9/2018

Import From CSV
Add Harvest Data
Update Origin
Update Destination
Delete Transactions
Reset Table View

Drag a column header and drop it here to group by that column

ID	Date	Time	Crop	From	To	Volume	Net Volu...	Dockage
182069	2018-11-06	02:50 PM	Corn	Field: 13	Bin: 12345 - Test Bin 1	5000.00 bu	N/A	0.00 %
180909	2018-11-06	12:00 AM	Corn	Field: 13	Bin: 12345 - Test Bin 1	39368.00 bu	N/A	0.00 %
180910	2018-11-09	12:00 AM	Corn	Bin: Test Bin 1	Contract: Corn - ABM: (1000 cwt)	8400.06 cwt	N/A	0.00 %
180649	2018-11-06	12:00 AM	Corn	Bin: Test Bin 1	Contract: Corn - ABM: (1000 cwt)	100.00 cwt	N/A	0.00 %
						52,868.06	null	



Client: Demo Farms
Year: 2019

Transaction History

Bin: Test Bin 1 - 12345

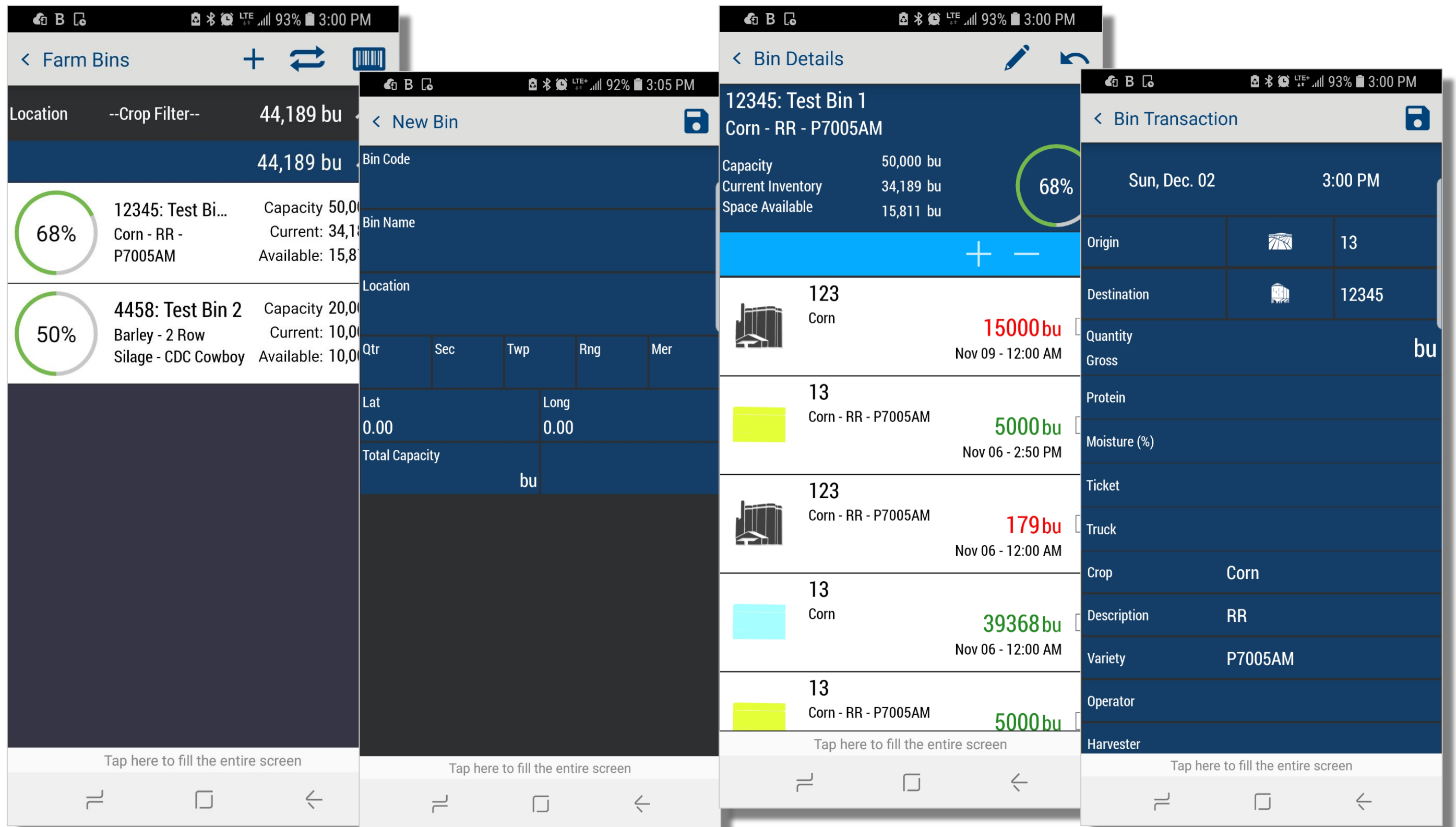
Drag a column header and drop it here to group by that column

Crop	Grade	Moisture	Ticket	Date	Volume	Net Volume	Dockage	To/From
Corn				2018-11-09 12:00 AM	8400.056 cwt	8400.056 cwt	N/A	Out Contract: ABM:
Corn				2018-11-06 12:00 AM	100.000 cwt	100.000 cwt	N/A	Out Contract: ABM:
Corn				2018-11-06 12:00 AM	39368.000 bu	39368.000 bu	N/A	In Field: 13
Corn				2017-09-01 12:00 AM	5000.000 bu	5000.000 bu	N/A	In Field: 13

- Click **View Transaction History** ()
 - Click **Edit** icon () to edit a transaction
 - Click **Print** to print a transaction report
- To view all transactions within a specific timeframe, click **Bin Transaction** tab
 - Choose **Custom** from dropdown
 - Enter **Start** and **End** for the **Bin Activity Report**
- To import an existing Transaction csv, first make sure that your transaction csv is set up based on the following [template](#). Once you have verified that all **Columns** are correctly labeled and the proper data entered, complete the following:
 - click **Manage > Import from CSV**
 - review any columns that have been highlighted in dark red. Make adjustments to content as needed, i.e. common issue seen is names in csv do not match the names in Farmer Pro.
 - Date Format Start Date: enter **Start Date**
 - End Date: enter **End Date**
 - Date Format: **Match what csv setup**
 - Time Format: **Match what csv setup**
 - Hour Format: **Match what csv setup**
 - click **Import**

Mobile | Storage

FARMER PRO ONBOARDING



1. Tap the **Bins** tile from the **Farm** screen.
2. Tap the (+) symbol to add a new Bin.
 - o Enter **required** info below, all others are optional:
 - i. Bin Code: **12345**
 - ii. Bin Name: **Home Bin**
 - iii. Total Capacity: **25,000 bu**
 - iv. tap **Save**
3. Tap the desired Bin to **add/subtract** inventory or **edit** bin details, then complete the steps below.
 - o To **Add**, tap the (+) symbol below the main bin details.
 - i. Enter **required** info below, all others are optional.
 1. From: **Field, 13**
 2. To: **Bin, Test Bin 1**
 3. Date: **November 6, 2018**
 4. Volume: **1000 MT**
 5. Crop Type: **Corn**
 6. tap **Save**
 - o To **Subtract**, tap the (-) symbol below the main bin details.
 - i. Enter the same **required** info that was required for adding inventory, all others are optional.
 - o Tap **Pencil** icon to edit bin details, and tap **Save**



0.3

Uploading Data

0.3.a

Equipment Data Upload

Equipment Data Upload

FARMER PRO ONBOARDING

Objectives - To understand the various ways you can bring data from your equipment to Trimble Ag Software.

In this session you will learn:

- What type of data flows into and out of TAS online
 - API Connection
 - Trimble Display
 - Manual Import
- How to managing as-applied data through Equipment Activity
- How to use Manage Files to review data flowing in and out of Trimble Ag software
- Why and How to Verifying Task

Option 1 | API Connection

FARMER PRO ONBOARDING

Account	Email	Date Added	Last Sync
AGCO	METfarms	10/22/2018	11/01/2018 3:10 PM
slingshot · 123D4566-2345F678-3456R789-567W890	jfarmer@email.com	11/01/2018	11/01/2018 3:10 PM
NEW HOLLAND AGRICULTURE		11/01/2018	
CASE IH AGRICULTURE		11/01/2018	
JOHN DEERE TIFARMS		11/01/2018	

1. Click **Data Transfer** tab > **Settings** > **API Connections**
 - Click **+ Add Account** to select the desired API Connection
 - Raven Slingshot®
 - AGCO Variodoc
 - JD Link
 - AFS or PLM Connect
2. Enter the credentials for the API Connection
 - CNH API Options
 - Sync Data
 - Manage Companies
 - JD Link Options
 - Settings
 - Import Fields
 - Import Files (for historical data)
3. View the data in Online like any other Equipment Activity data
4. Check the [compatibility chart](#) to see what API data is transferring

Once set up, data will begin populating in the website from the 3rd Party accounts.



Watch this [video](#) to learn more.

Option 2 | Trimble Display

FARMER PRO ONBOARDING

Field Task History

Planting
04/21/2017 12:59 AM
Stark#1
Demo Client: Stark Farm
2017 Corn
Tillable area: 28.74 ha
Area covered: 27.16 ha

CORN HARVEST 11-8-16
11/08/2016 3:08 PM
500B
CSU: MAIN STATION
2016 Corn
Tillable area: 2.77 ha
Area covered: 2.66 ha

Menu

- Field Profiler
- Farm Map
- Crop Planner
- Work Orders
- Equipment Activity

Q FILTER BY... **CLEAR FILTER** **Active Filter**
11/01/2016 - 11/01/2018; Demo Client

All	Name	Date	Client	Farm	Field
<input type="checkbox"/>	Harvest 1	10/11/2017 12:49:21 PM	Demo Client	Stark Farm	Stark#14
<input type="checkbox"/>	Planting	04/21/2017 12:59:07 AM	Demo Client	Stark Farm	Stark#1

OVERVIEW **OVERVIEW** **FIELD MAP**

Layers

- ☒ Stark#14 - Harvest 1 - Dry Yield
- ☒ Field Boundary

EXPORT

Vehicle Properties

Name * Jaguar Chopper
Manufacturer * Claas
Vehicle Type * Forage Harvester
Vehicle Group Tractor - Large Row Crop
Unit Cost \$0.00 / hr
Attached Devices
Display Device 5106509682 (FmX) - 5106509682 - No Vehicle
Telematics Device Unassigned
Vehicle License Active through 01/05/2019

Display Setup
Mapping
Patterns
Steering and Guidance
Safety and Alarms
Application Control
ISOBUS
Office Sync
Simulation
Users and Passwords

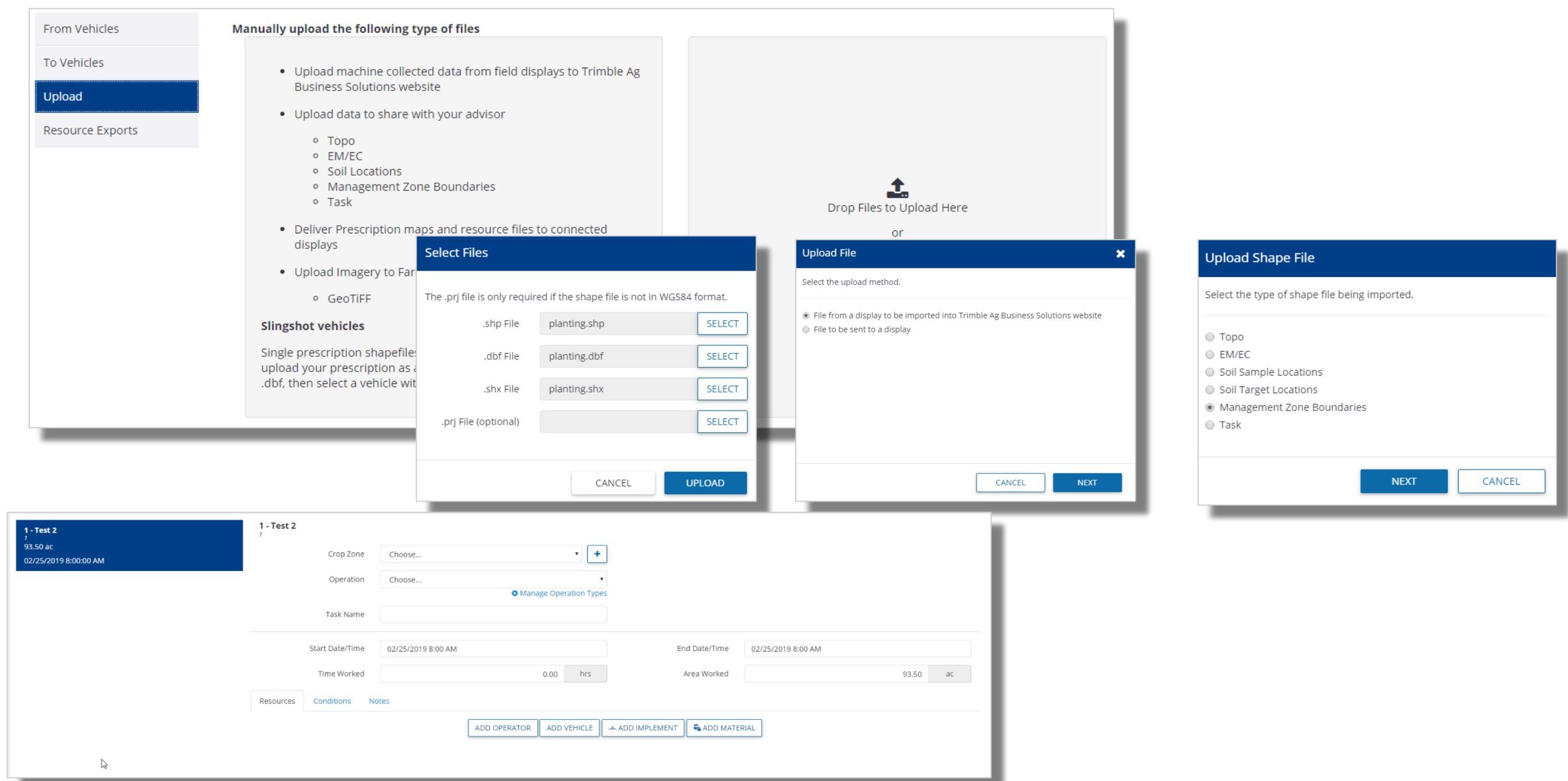
Office Sync
OfficeSync
OfficeSync
Check Server Every 10 minutes
Send Data Hourly
Auto-send without prompt
Auto-import inbox

- Trimble Display data can be viewed in several places on the website
 - Field Task History on the Home Page
 - Field > Equipment Activity
 - Field Manager > Field Map
- Setup Data Transfer
 - Create a **Vehicle** configured with a **Display License** in Online
 - Add the Display Device **serial number** from the drop down
 - Assign a display license
 - Configure the **Trimble Display** for Office Sync
 - Load Active Plugin for Office Sync (FmX/FmX+)
 - Configure Data Transfer (Office Sync)

Once set up, data will begin populating in the website wirelessly.

Option 3 | Manual Importing Data

FARMER PRO ONBOARDING



1. Click **Data Transfer** tab > **Manage Files**

2. To upload a **shapefile**

- **Search for** or **drag** the shapefile components for upload
- Select **“File From Display to be Imported...”**
- Select the **type** of shapefile being imported
- Select the appropriate **attributes** from the **dropdowns** for the file type you are uploading as well as the relative **unit of measurement**. Note this will vary depending on the task type
- Select the proper **Field**
- Enter a **Crop Zone**, **Operation Type** and **Task Name**
- Add a **vehicle** to the Task. Note that Vehicles must be [added](#) ahead of time to populate in the list
- All other details are optional.
- Click **Save**

3. To upload **display data**

- To upload **display data**, the file needs to be zipped before uploading
- **Search for** or **drag** the zipped display file for upload
- Select **“File From Display to be Imported...”**
- Select the **display format**
- Select the **Vehicle** and Click **Upload**
- Monitor the **processing status** of your upload via **From Vehicles** tab

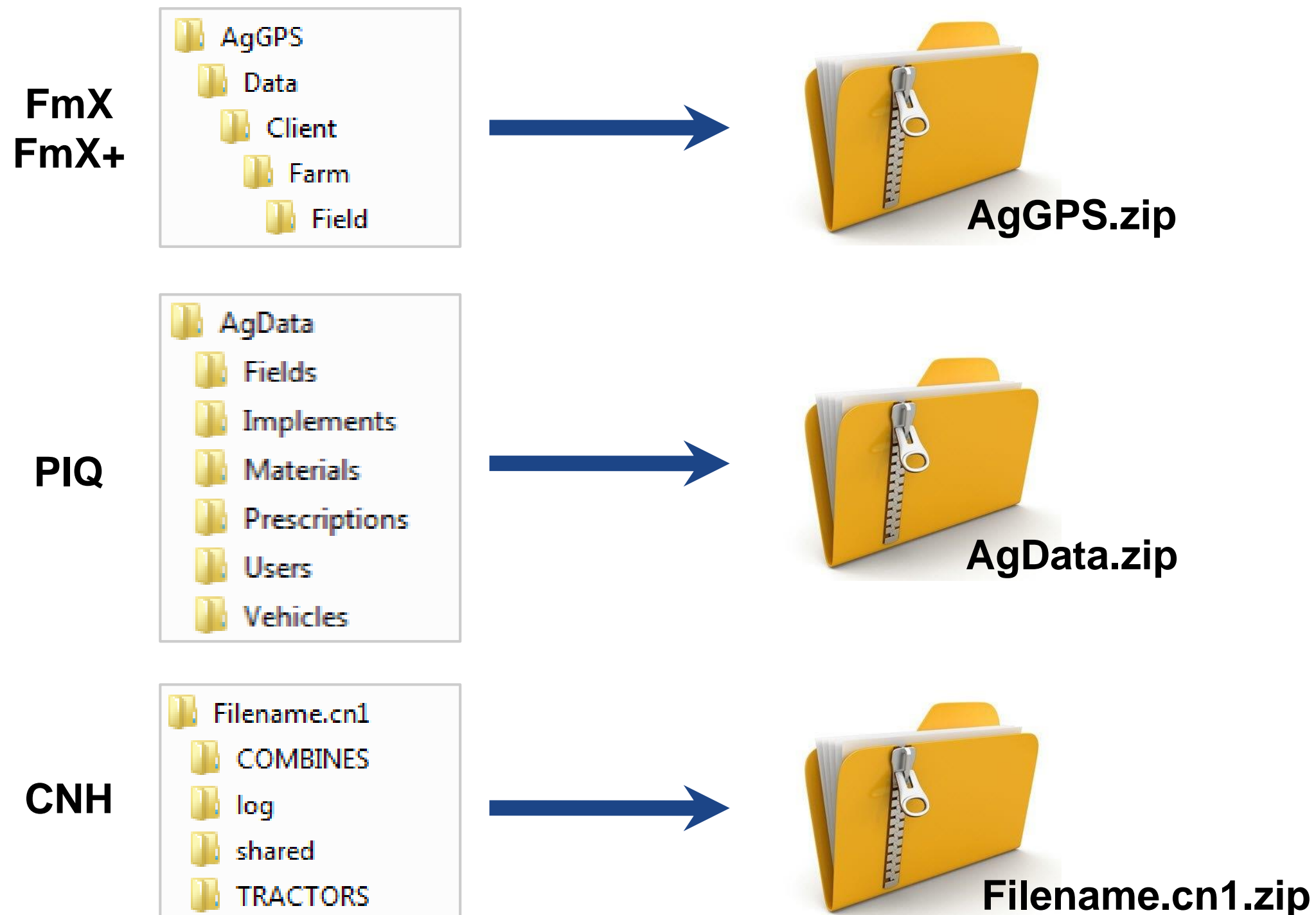


Watch this [video](#) to learn more.

Option 3 | More Info for Uploading

FARMER PRO ONBOARDING

Original format → Upload format



1. Click **Data Transfer** tab > **Manage Files**
2. To upload a shapefile
 - **Search for** or **drag** the shapefile components for upload
 - Select **"File From Display to be Imported..."**
 - Select the **type** of shapefile being imported
 - Select the appropriate **attributes** from the **dropdowns** for the file type you are uploading as well as the relative **unit of measurement**. Note this will vary depending on the task type
 - Select the proper **Field**
 - Enter a **Crop Zone, Operation Type** and **Task Name**
 - Add a **vehicle** to the Task. Note that Vehicles must be [added](#) ahead of time to populate in the list
 - All other details are optional.
 - Click **Save**
3. To upload **display data**
 - To upload **display data**, the file needs to be zipped before uploading
 - **Search for** or **drag** the zipped display file for upload
 - Select **"File From Display to be Imported..."**
 - Select the **display format**
 - Select the **Vehicle** and Click **Upload**
 - Monitor the **processing status** of your upload via **From Vehicles** tab

Online | Equip. Activity: Verify Task

FARMER PRO ONBOARDING

Verify Task is critical to push as applied data to other parts of the software

Until you verify, Equipment Activity works as a Placeholder for the information

Important!

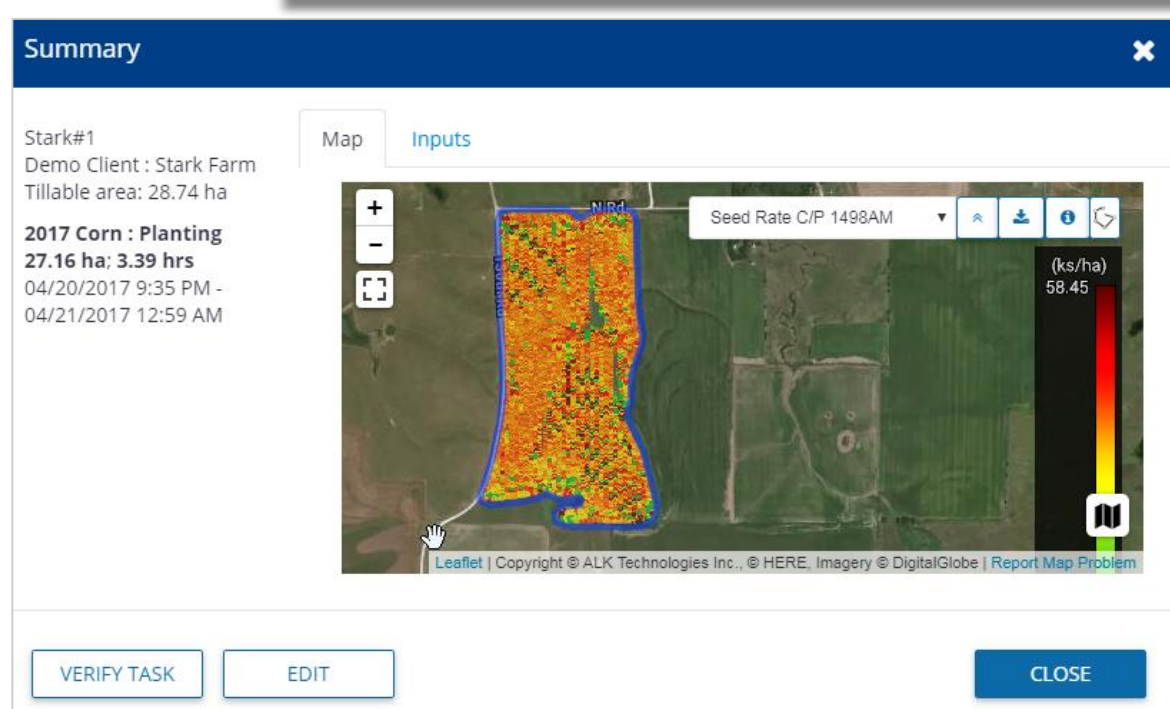
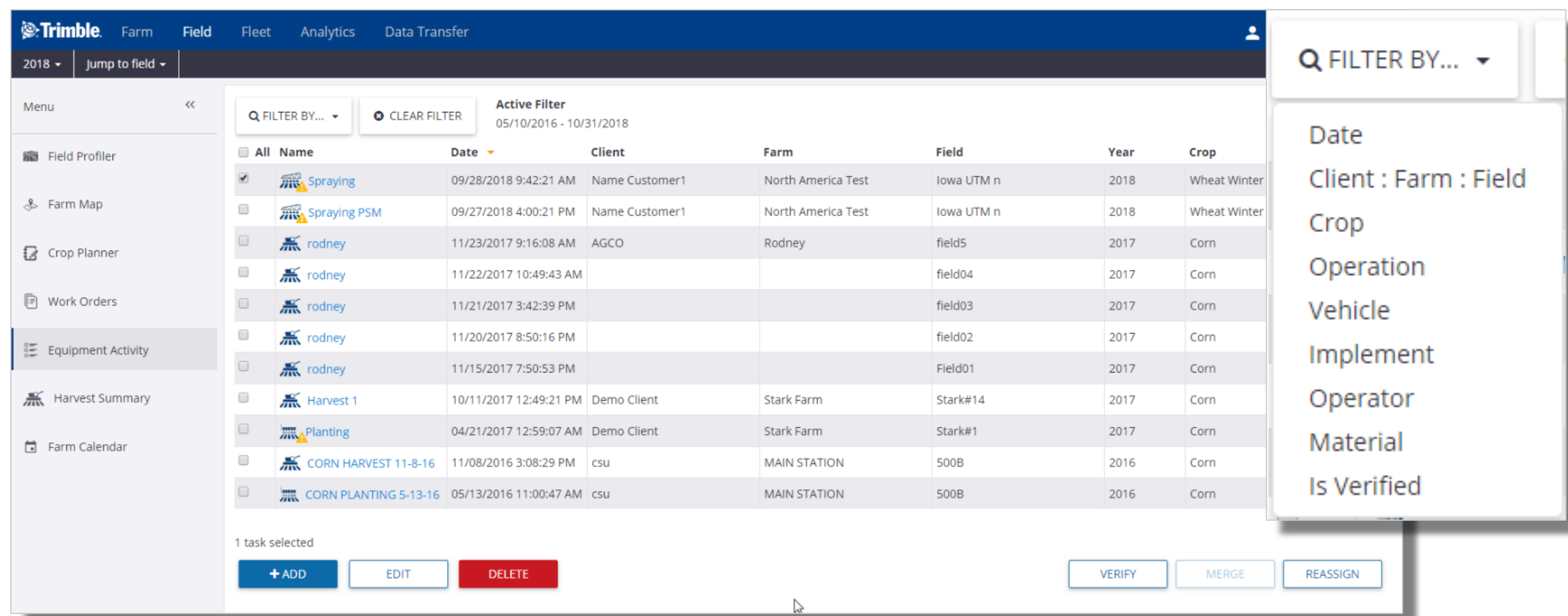
- Before Verify Task, make sure your Fertilizers contain product composition otherwise the system will not push as applied data to other parts of the software
- Verifying Cleaned Yield data will push resulting yield map to the fields Harvest Data tab for profit analysis
- Task files uploaded via Shapefile will come into the software auto-verified
- Task files synced from the Trimble Desktop software will come in auto-verified



Watch this [video](#) to learn more.

Online | Equipment Activity

FARMER PRO ONBOARDING



Map Inputs

Showing input totals for Task

Operators			
Planter, Doug	3.39 hrs	\$0.00 / hr	
Vehicles			
9230	3.39 hrs	\$0.00 / hr	
Implements			
Sprayer	27.16 ha	\$0.00 / ha	
Materials			
10-34-0	1,244.02 l	\$0.00 / l	47.46 l / ha

Stark#1

Demo Client: Stark Farm

Crop Zone: 2017 Corn (Stark#1)

Operation: Planting

Task Name: Planting

Start Date/Time: 04/20/2017 9:35 PM End Date/Time: 04/21/2017 12:59 AM

Time Worked: 3.39 hrs Area Worked: 27.16 ha

Resources: Conditions Notes

Sprayer

Area Worked: 27.16 ha Cost: \$0.00 / ha

10-34-0 Fertilizer

Area Applied: 26.21 ha Cost: \$0.00 / l


Target Rate: 0.00 l / ha Quantity Used: 1,244.02 l

Actual Rate: 47.46 l / ha

ADD OPERATOR ADD VEHICLE ADD IMPLEMENT ADD MATERIAL

CANCEL SAVE

1. Click Field tab > Equipment Activity

- View the list of equipment activity (tasks) that have been uploaded into Online
- Quickly view the activity items that need verified  - indicated with the caution symbol
- Select an activity item to **Add, Edit, or Delete**

1 task selected



- Select items to **Verify, Merge, or Reassign**



- Use the **Filter By...** drop down menu to filter the equipment activity list to Date, Crop, Is Verified, etc.
- Click on a specific task to open the Summary view of the mapped attributes as well as the Inputs data
- You can edit any necessary details of the equipment activity task prior to clicking the Verify button to ensure accurate data in the Field Profiler information - Save any edits, and then click Verify

Online | Manage Files

FARMER PRO ONBOARDING

The screenshot displays the Trimble Farmer Pro Online Manage Files interface. The top navigation bar includes 'Trimble', 'Farm', 'Field', 'Fleet', 'Analytics', and 'Data Transfer'. The left sidebar contains 'Menu', 'Manage Files', and 'Settings'. The main content area has tabs for 'From Vehicles', 'To Vehicles', 'Upload', and 'Resource Exports'. A table lists files with columns for Date Uploaded, Vehicle, File Name, Size, and Status. A modal window shows a detailed view of a file, including its date, vehicle, file name, size, and status. Another modal window shows a list of files with columns for File Created, File Name, and File Size.

Date Uploaded	Vehicle	File Name	Size	Status
11/01/2018 11:33:57 AM	Seaworth JD 8320R	AIM_Seaworth 2018_Little_flood_plow_20181101_093353.zip	64 KB	Processed
11/01/2018 11:26:42 AM	Seaworth JD 8320R	AIM_Seaworth 2018_Little_flood_plow_20181101_092633.zip	57.1 KB	Processed

Date Uploaded	Vehicle	File Name	Size	Status
10/01/2018 1:13:51 PM		5047591402_20181001_171351.zip	18.1 KB	Pending
09/30/2018 7:10:52 PM		5047591402_20180930_231050.zip	534 Bytes	Pending
11/22/2017 12:50:32 PM	Seaworth JD 8235	Operators.zip	339 Bytes	Pending
11/22/2017 12:50:32 PM	Seaworth JD 8320R	Operators.zip	339 Bytes	Sent
11/22/2017 12:50:32 PM	CSU JD 7820	Operators.zip	339 Bytes	Pending
11/22/2017 12:50:32 PM	Seaworth JD 7260R	Operators.zip	339 Bytes	Pending
11/07/2017 2:06:53 PM	Case IH 1660	Case Logo Plate.tif	18.4 MB	Pending
10/30/2017 8:17:04 PM	Kubota RTV1140	operators.zip	286 Bytes	Sent

Manually upload the following type of files

- Upload machine collected data from field displays to Trimble Ag Business Solutions website
- Upload data to share with your advisor
 - Topo
 - EM/EC
 - Soil Locations
 - Management Zone Boundaries
 - Task
- Deliver Prescription maps and resource files to connected displays
- Upload Imagery to Farm Map
 - GeoTIFF

Slingshot vehicles

Single prescription shapefiles are only supported currently. You can upload your prescription as a .zip file that includes a .shp, .shx, and .dbf, then select a vehicle with a Raven display assigned to it.

Drop Files to Upload Here or [UPLOAD FILES](#)

File Created	File Name	File Size
07/12/2018 3:39:55 PM	FarmResources_ID_GS3_20180712_193949.zip	
04/02/2018 1:07:19 PM	FarmResources_TASKDATA_20180402_170657.zip	
04/02/2018 1:03:51 PM	FarmResources_AgData_20180402_170356.zip	
02/09/2018 1:19:34 PM	FarmResources_AgGPS_20180209_181937.zip	
11/09/2017 3:43:54 PM	FarmResources_AgGPS_20171109_204358.zip	
10/09/2017 11:53:12 AM	FarmResources_AgGPS_20171009_155334.zip	1.28 MB
09/19/2017 6:39:16 PM	FarmResources_TASKDATA_20170919_224251.zip	715 KB
01/25/2017 2:10:02 PM	FarmResources_AgGPS_20170125_191007.zip	1.19 MB

AgGPS.zip

Date Uploaded: 1/31/2018 9:41 PM

Device: 4 Wheel Drive Tractor

Vehicle: 4 Wheel Drive Tractor

File Type: FMX AgGPS

Transfer Method: Manually Uploaded

File Size: 2.47 MB

Status: Processed

Errors & Warnings

[Download File](#) [Reprocess File](#)

CLOSE

1. Click Data Transfer tab > Manage Files

- **From Vehicles** lists the files that have been sent to Online from vehicles
- **To Vehicles** lists the files that have been sent to vehicles from Online
- **Upload** is used to manually upload files to Online or to vehicles
- **Resource Exports** is used to create resource export files and to send the resource files directly to vehicles
- Use the **Filter By...** drop down menu to filter the equipment activity list to Date, Crop, Is Verified, etc.

2. Click on a file name

- View **details** including File Type and Transfer Method
- **Download** a copy of the file
- **Reprocess** the file



Watch this [video](#) to learn more.

0.3.b

AutoSync™ Feature

AutoSync| Summary

FARMER PRO ONBOARDING



The AutoSync™ feature automatically syncs farm data across Trimble displays utilizing Precision-IQ software, eliminating the need to manually share data via USB. AutoSync exchanges guidance lines, field boundaries, client/farm/field names, landmarks, materials, implements, and operators. When the task is completed, task data will transfer from the displays to the online platform.

The AutoSync feature is included with Farmer Core, Farmer Fit, and Farmer Pro software subscriptions. Display Connections are required for each connected Trimble display.

Data Type		Create	Edit	Delete
Guidance Lines		✓	✓	✓
Coverage Maps ¹		✓		
Client/Farm/Field Names		✓	✓	✓
Landmarks and Boundaries		✓	✓	✓
Operators		✓	✓	✓
New	Vehicle Profiles ²	✓	✓	✓
New	Materials	✓	✓	✓
New	Implements	✓	✓	✓

¹AutoSync only sends the coverage map data from the display to Trimble Ag Software. It does not share the coverage map data to other Precision-IQ displays that are connected with AutoSync.
²Vehicle profiles are created on the display and saved automatically within Trimble Ag Software during the AutoSync process. If the display is accidentally damaged or lost, AutoSync can restore all the vehicle settings to a new Trimble display.

AutoSync| Requirements and Setup Steps

FARMER PRO ONBOARDING

Objectives: In this session you will learn how to setup AutoSync.

AutoSync Requirements

- PiQ-enabled display (**Note:** FmX, FmX+, and CFX-750 Office Sync users will continue to have access to the same Office Sync features. AutoSync is not supported on non-PIQ displays.)
 - Wireless cellular connectivity for display
 - AutoSync-enabled firmware 2.0
 - Trimble Ag Mobile app with AutoSync features
 - Trimble Ag Software account and Display Licenses (Farmer Core, Farmer Fit, Farmer Pro)
-

AutoSync Setup Steps

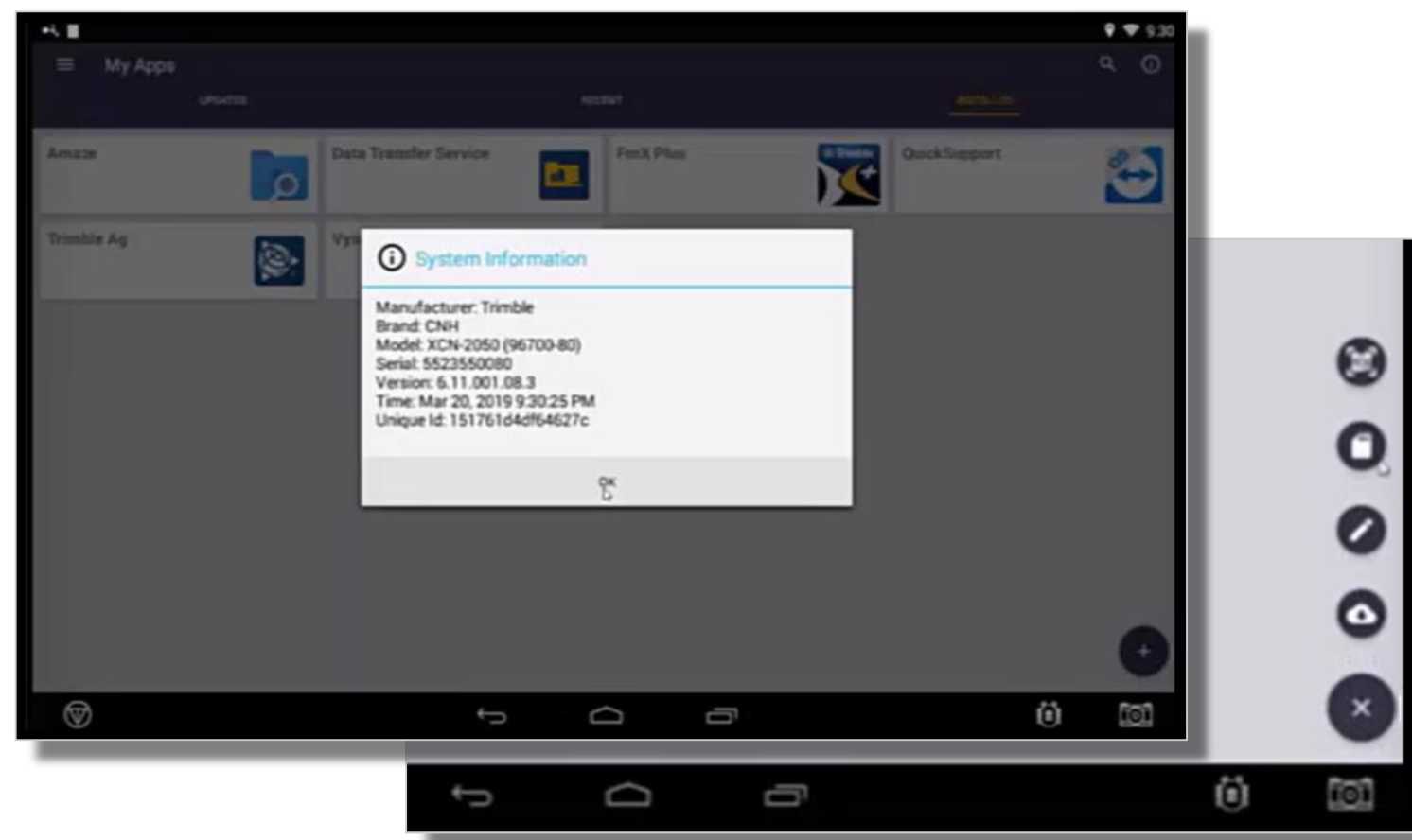
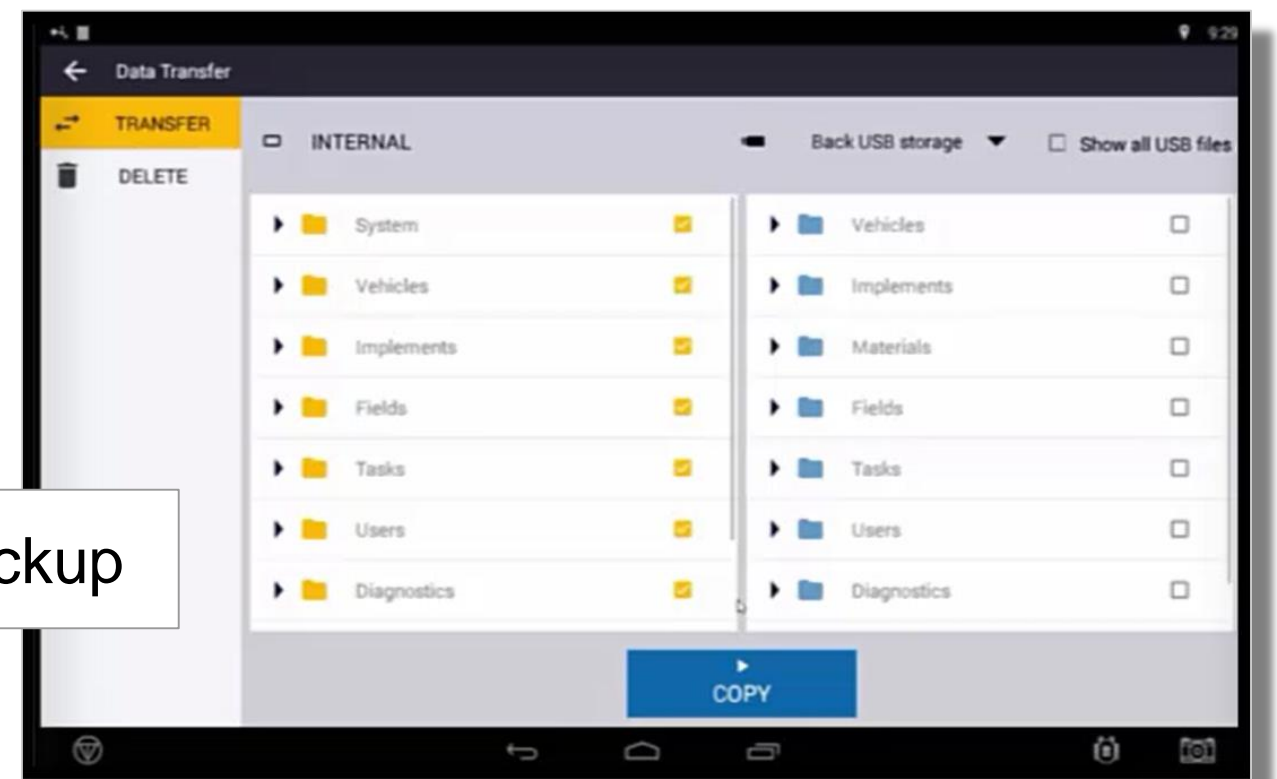
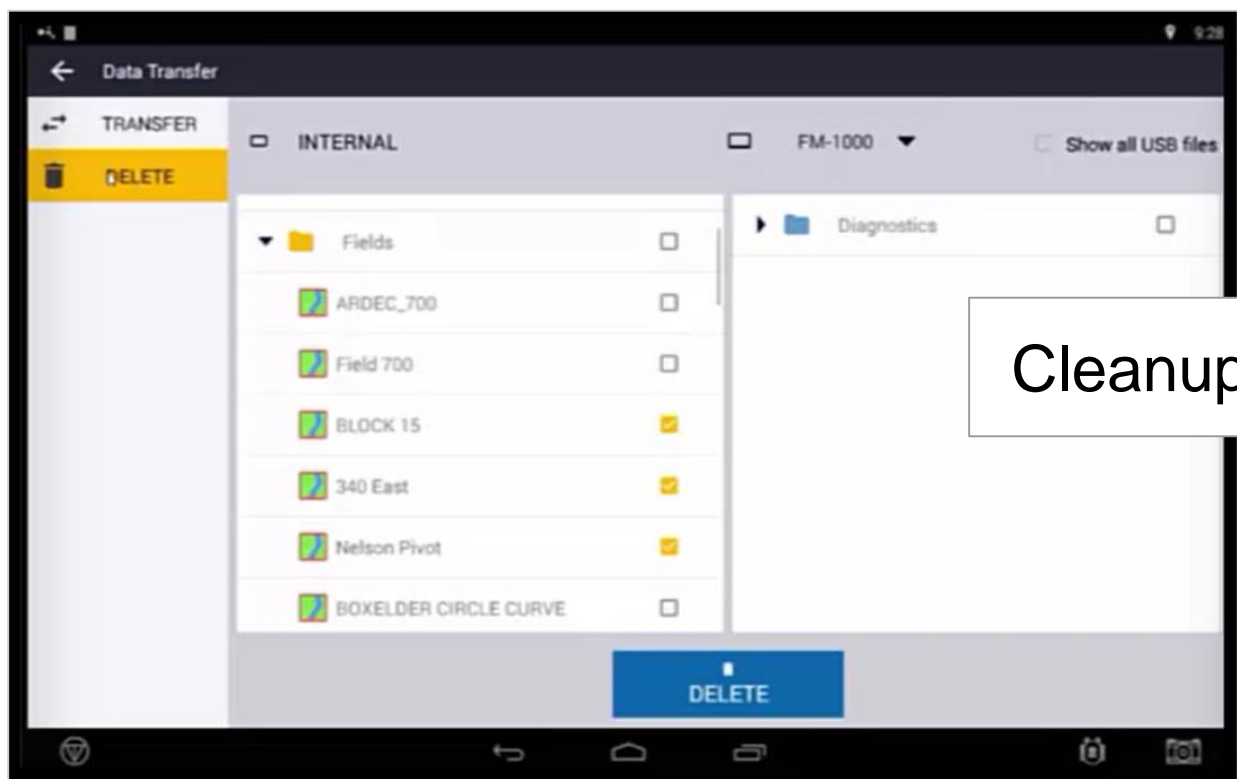
1. Setup online account and vehicles (*see Core guide pages 4 - 23*)
2. Clean up data, backup and update firmware on the displays
3. Connect display to internet (modem or Wi-Fi)
4. Enable Trimble Ag Mobile on the displays
5. Enable AutoSync in Precision-IQ



Watch this [video](#) to learn more.

AutoSync | Step 2: Cleanup, Backup, and Update

FARMER PRO ONBOARDING

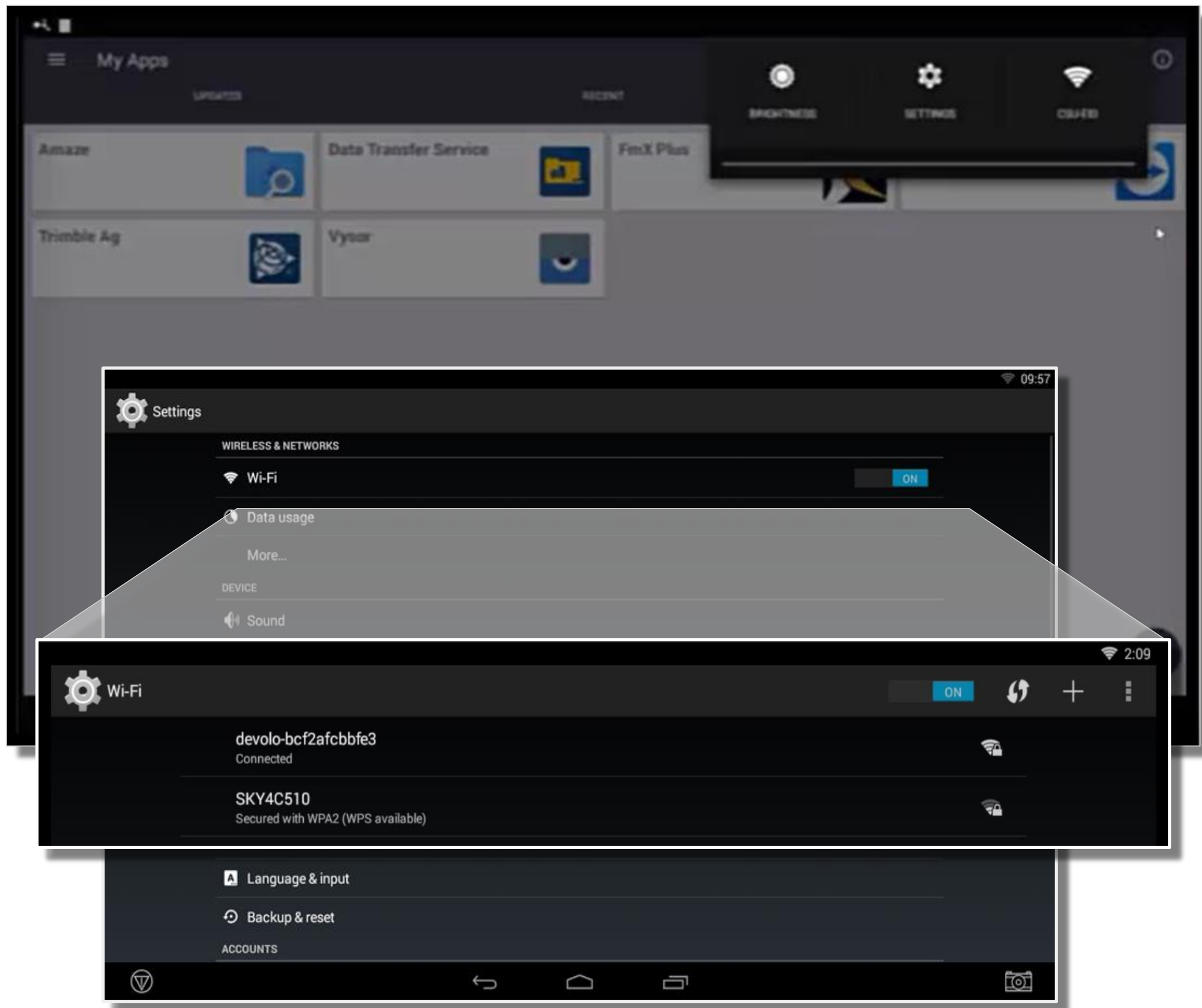


1. Open **PIQ** > goto **Field Tab** > Review details
2. To **Cleanup** data
 - a. Go to **Data Transfer** > select a category > **checkoff** unwanted data > click **Delete**
3. To **Backup**
 - a. Select **Directories** you wish to Backup
 - b. Select your **USB** drive on the right hand side
 - c. Select **Copy**
4. Update **Firmware**
 - a. Go to **home screen** > go to **App Central** > Check existing version by click the **Information** tab in the upper right corner
 - b. To **update**, click the **+** in the bottom right corner > go to **Disk icon** > navigate to **USB** drive that has the update on it > select that **firmware**.

Note: Below are the Firmware versions you must have in order for AutoSync to work
TMX-2050 version 6.11 containing PIQ 6.10 or higher
GFX-750 version 2.11 containing PIQ 2.10 or higher

AutoSync | Step 3: Connect Display to Internet

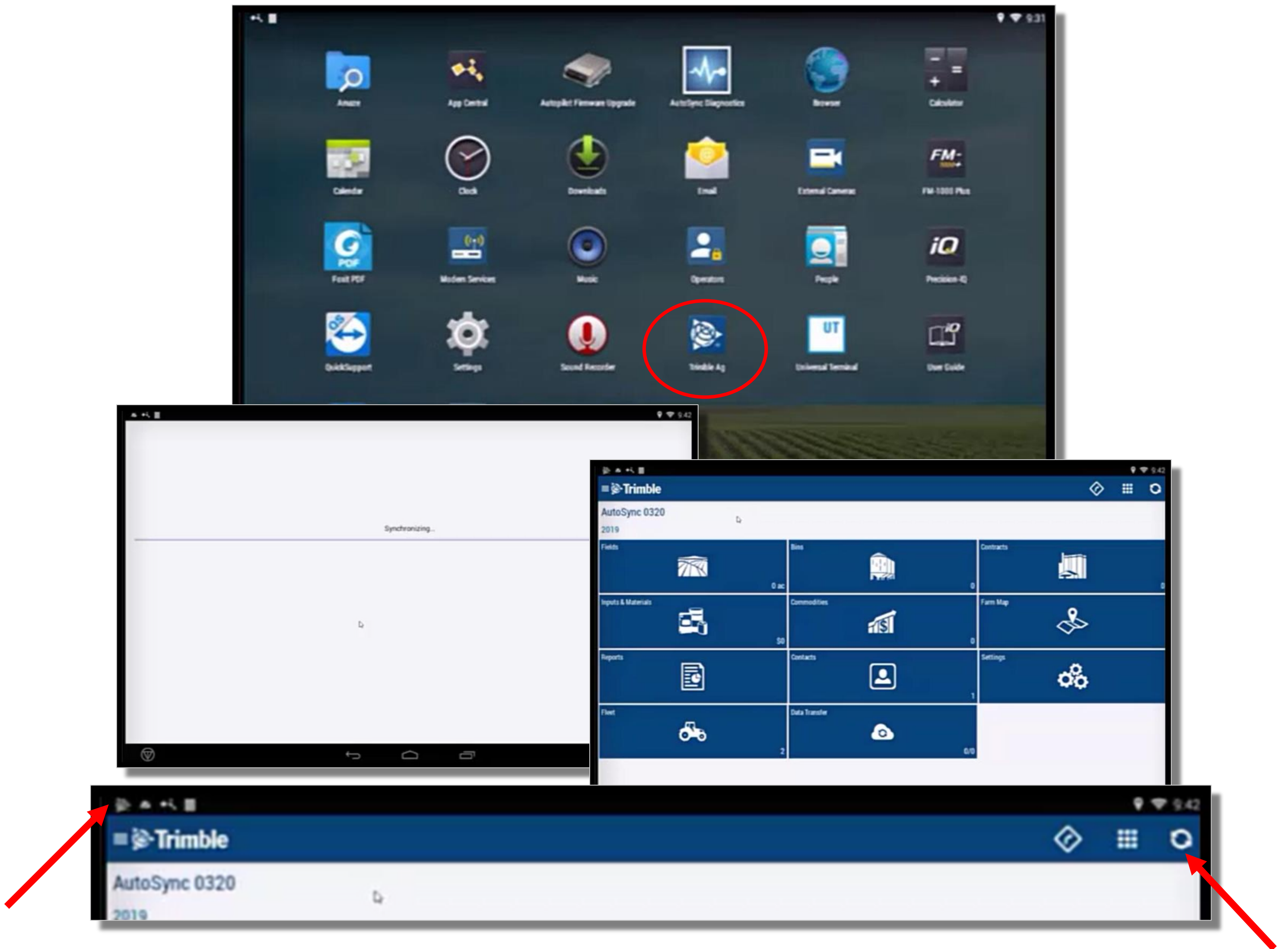
FARMER PRO ONBOARDING



1. Open the TMX or GFX display Settings.
2. Connect the display to the internet via cellular modem or Wi-Fi.
3. Verify connection to Wi-Fi before launching the Trimble Ag Mobile app.

AutoSync | Step 4: Enable Trimble Ag Mobile

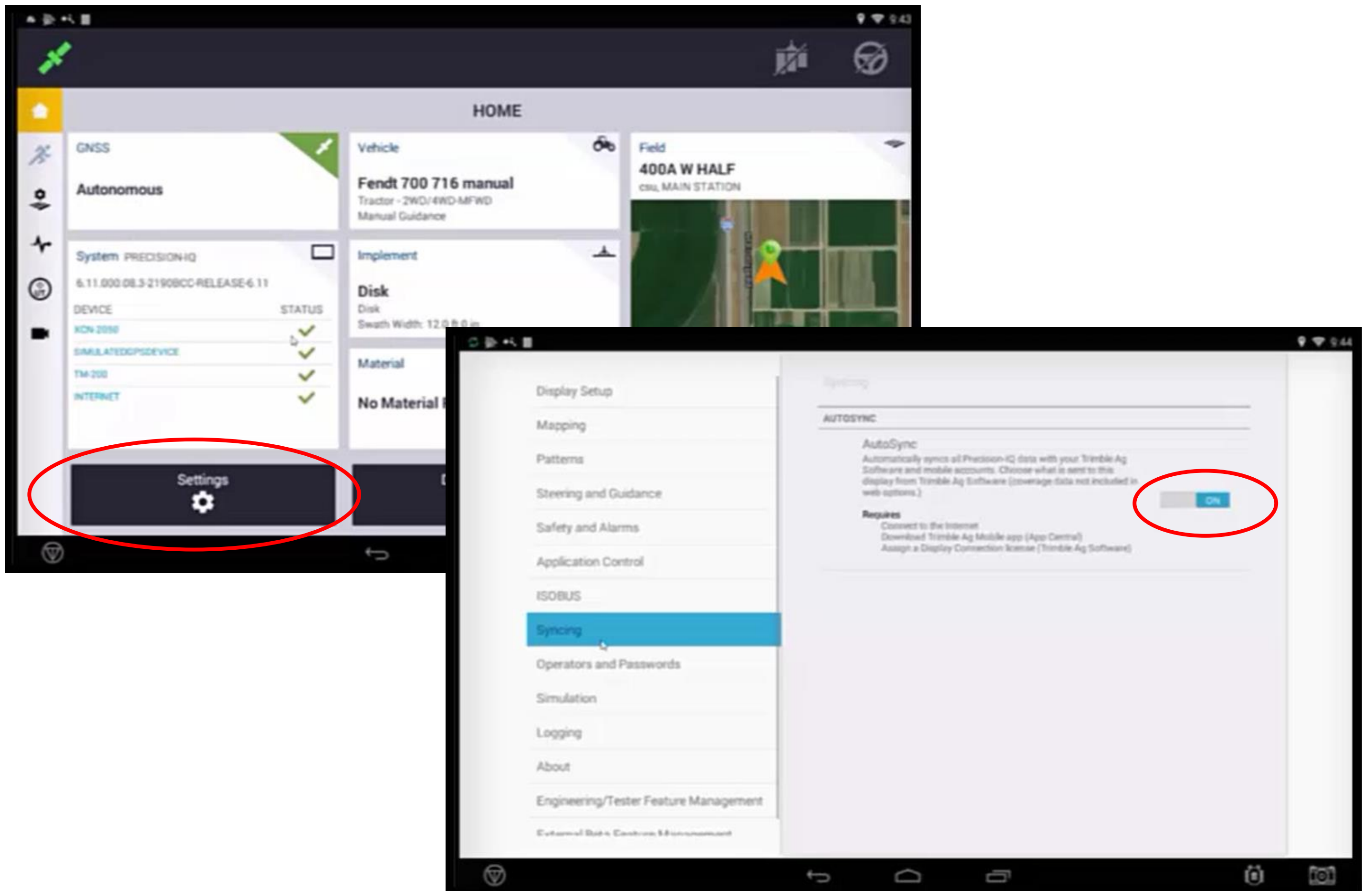
FARMER PRO ONBOARDING



1. Go to **Android Apps** > Search for **Trimble Ag App**
2. Drag the App to your home screen > Open **Trimble Ag Mobile**
3. Login to Trimble Ag Mobile, wait for the data to download
4. Manually **Sync** the Data by clicking the **Circle** icon in the top right. This is to confirm the data has been synced.
5. The **Timble Logo** in the upper left indicates that the **AutoSync** in Trimble Ag Mobile is working. If there is a message stating AutoSync is off, see **step 5**.

AutoSync | Step 5: Enable AutoSync in PIQ

FARMER PRO ONBOARDING



1. Leave Trimble Ag app Open > Launch Precision-IQ
2. Go to PIQ > Settings > Syncing > turn on AutoSync

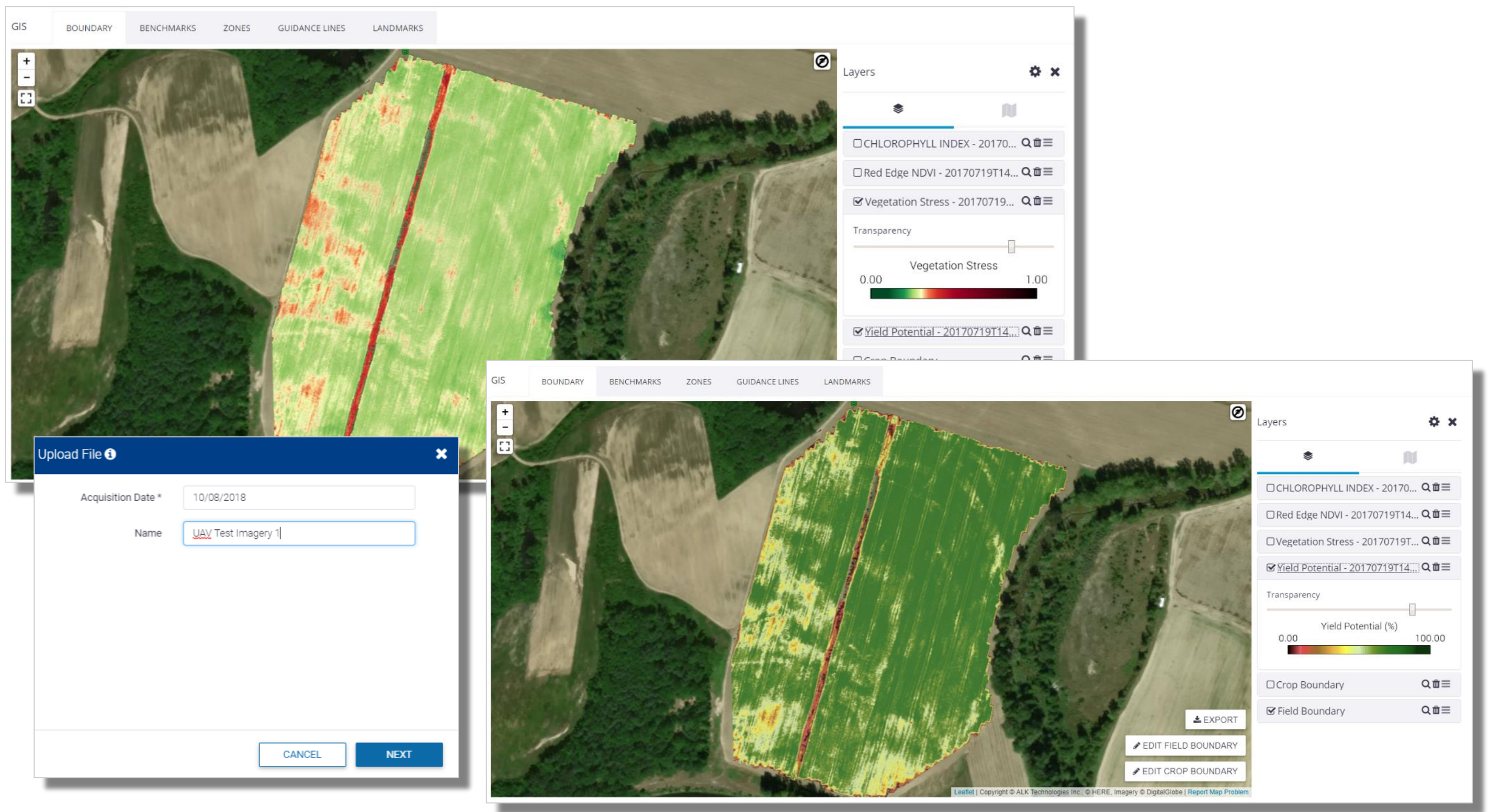


0.3.c

Generic Data Upload

Online | Import Data (UAV Imagery)

FARMER PRO ONBOARDING



1. Go to the **Data Transfer** tab (top menu)
2. Select **Manage Files**
3. Click **Upload** tab
4. Click **Upload Files**
5. Select the desired **GeoTiff**
6. Enter the **Acquisition Date** of the imagery
7. Enter an appropriate **Name** for the imagery
8. Click **Finish** when pop-up confirms import is finished
9. Review upload images at the field level by click **GIS** tab > **show layers** (☰) > **available layers** (⚙) > expand **Imagery** dropdown > check off **Geotiffs** > click **Save**

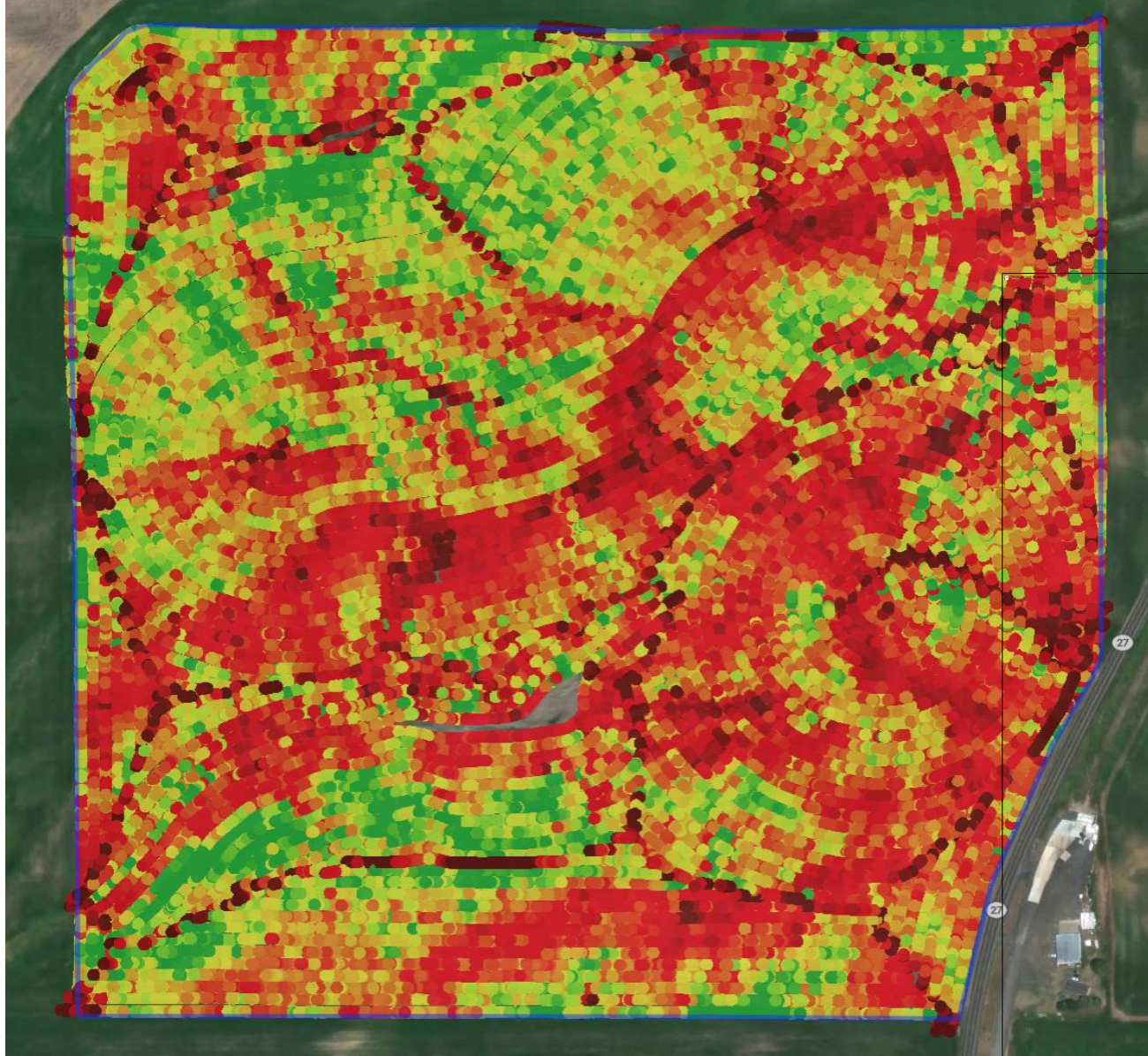
All geotiffs less than 500mb are accepted in the software, however Slantrane imagery currently has the only support legend. Also, please note that uploading of UAV Imagery **Requires** a field boundary.

0.3.d

Yield Data Upload / Cleaning

Yield| Cleaning

FARMER PRO ONBOARDING



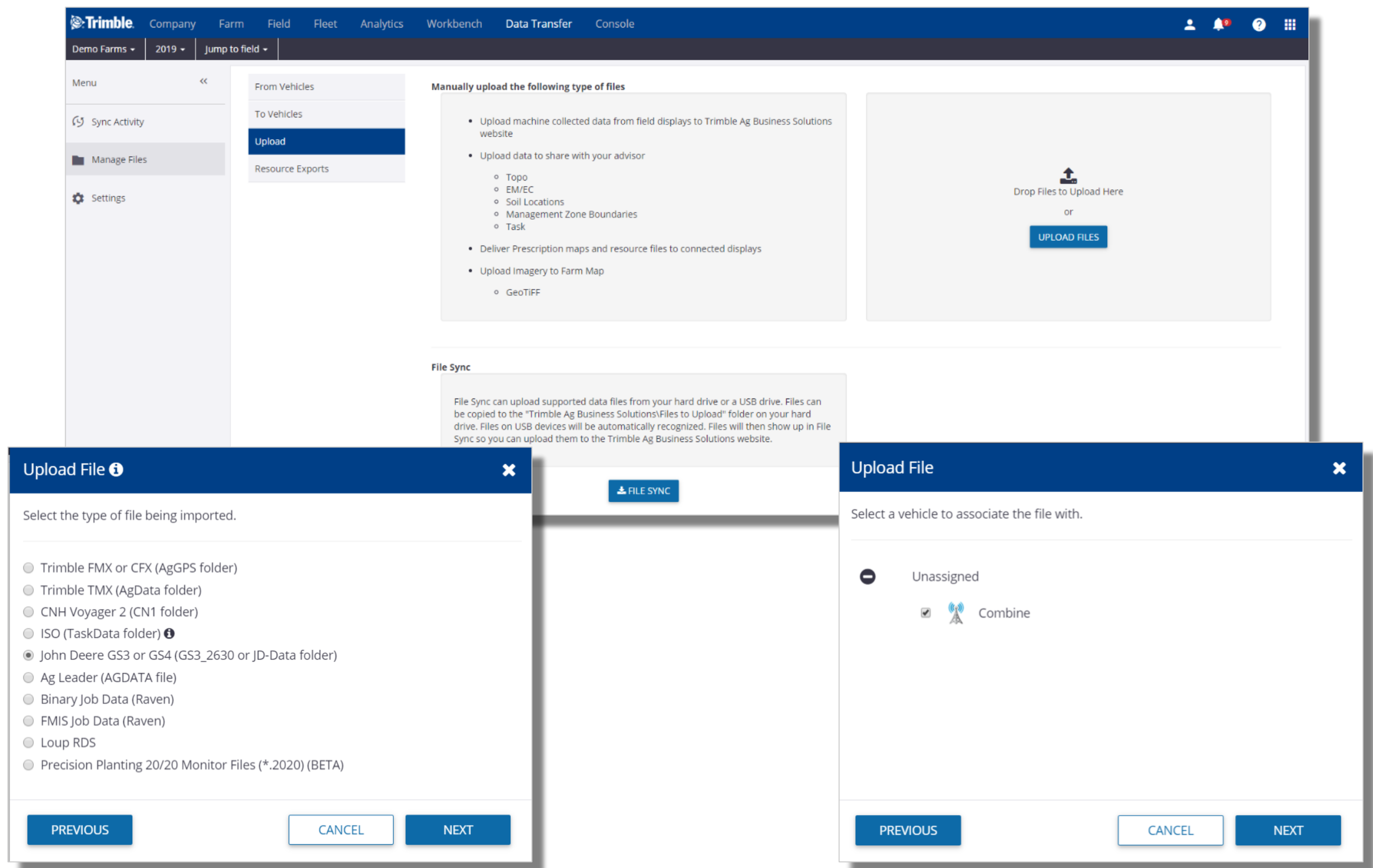
1. Eliminate Problematic Points
 - GPS Errors
 - Moisture sensor issues
 - Flow delay issues
 - Overlap passes
 - Speed and flow issues
2. Calibration between harvesters
 - Make relative adjustment
 - Use the offset entered by the user
3. Application of the scale ticket
 - If available by the user, scale ticket is distributed throughout the field to adjust actual productivity
4. Interpolation and Normalization



Watch this [video](#) to learn more.

Online | Import Data (RAW Yield)

FARMER PRO ONBOARDING



1. Go to the **Data Transfer** tab (top menu)
2. Select **Manage Files**
3. Click **Upload** tab
4. Click **Upload Files**
 - navigate to raw harvest data from display
5. Select your **Data Type** (File should be zipped with right structure)
6. Choose: File from a display to be imported into Trimble Ag Business Solutions website
7. Select **Combine/Vehicle** (Make sure it was added in Vehicles)
8. Click **Finish** when pop-up confirms import is finished

Imported Harvest Data task can then be viewed in the Fields > Equipment Activity section.

Notes before importing Harvest Shapefiles: When importing yield data from a shapefile, we need to assist the software in identifying the proper attribute in each dropdown listed in the Upload Shapefile pop out box as well as the appropriate unit of measurement for that attribute.

1. Please be aware that attribute titles may vary depending on the display used. For example, Engaged may be called “Engaged” or “Status” or “Header Status”, depending on the display.

Online | Import Yield from Shapefile

FARMER PRO ONBOARDING

Select Files

The .prj file is only required if the shape file is not in WGS84 format.

.shp File: B1_Yield_20150922.shp **SELECT**

.dbf File: B1_Yield_20150922.dbf **SELECT**

.shx File: B1_Yield_20150922.shx **SELECT**

.prj File (optional): B1_Yield_20150922.prj **SELECT**

CANCEL **UPLOAD**

Upload Shape File

Select the type of shape file being imported.

- Topo
- EM/EC
- Soil Sample Locations
- Soil Target Locations
- Management Zone Boundaries
- Task**
- Wetness Potential
- Soil Optix

NEXT **CANCEL**

Upload File

Select a vehicle to associate the file with.

Unassigned

PREVIOUS **CANCEL** **NEXT**

Choose Field(s)

Test Client

Test Farm

B1 Test

CANCEL **OK**

Upload Shape File

Flow: [] []

Yield: [] []

Width: Width [] ft []

Wet Yield Mass: Wet_Yield [] bu/ac []

Commodity: Wheat []

Moisture: Moisture [] %

Engaged: Engaged []

PREVIOUS **NEXT** **CANCEL**

500 Unassigned
7.28 ac
02/21/2019 8:00:00 AM

500 Unassigned

Crop Zone: 2018 Corn (500) **+**

Operation: Harvesting **Manage Operation Types**

Task Name: Corn Harvesting

Start Date/Time: 02/21/2019 8:00 AM End Date/Time: 02/21/2019 8:00 AM

Time Worked: 0.00 hrs Area Worked: 7.28 ac

Resources **Harvest** **Conditions** **Notes**

Corn

Area Harvested: 7.28 ac Price: \$0.00 / bu

Average Yield: 0.00 bu / ac Quantity Harvested: 0.00 bu

CANCEL **SAVE**

One of the following

- Vehicle assignment
- GPS position, time

One of the following

- Wet Yield Flow (with units)
- Dry Yield Mass (with units)
- Wet Yield Mass (with units)

Optional (recommended)

- Moisture (highly recommended)
- Width (with units)
- Engaged

1. Go to the **Data Transfer** tab (top menu)
2. Select **Manage Files**
3. Click **Upload** tab
4. Click **Upload Files**
 - navigate to harvest data shapefile(shp, shx, dbf are required)
5. Select **“Task”** as the shapefile type
6. Use the dropdown menus to identify the relative **attributes** associated with the **Yield Data**.
 - Ideal attributes to identify for optimal cleaning:
 - **Flow, Moisture, Width, Engaged, Wet Yield Mass**
 - Required field is **Timestamp**
7. Click **“Create Task File...”**
8. Select the appropriate **Field** for the Harvest Data
9. Fill in the remaining Task details
 - Choose a **Crop Zone** (if one does not exist then use the **Plus** symbol to add one)
 - Choose **Harvest** for the **Operation**
 - Choose the appropriate **Start** and **End** date
 - click **Add Vehicle** to attach a **Combine** to the task
 - All other details are optional.
10. Click **Save**
11. Resulting yield data will be available under Field > Equipment activity.

Yield Cleaning

FARMER PRO ONBOARDING

Calibrate Settings

Equipment	Acres	Adjustment %	Avg. Yield/ac	Total Yield
Combine	311.22	<input type="text" value="0"/>	1904.35 kg	592666.49 kg
		<input type="text" value="0"/>	2091.03 kg	346819.57 kg
			1969.25 kg/ac	939486.06 kg
Total Yield				<input type="text" value="939486.06"/> kg

CLOSE

SAVE

Clean Yield
Runs in the background and applies the following effects:

- Calibrated Yield**
Removes grain flow delay, overlaps, GPS errors, and differences due to differentially calibrated combines.
- Normalized Yield**
Divides each Calibrated Yield sample point by the field average. Normalized yields are expressed as a percentage of the average yield of the field and can be used to compare spatial yield patterns across different crops and years.

[View Requirements](#)

Verify
Takes People, Equipment, Materials and other items from the selected task(s) and applies them to the Field Manager screen for that field(s).

Merge
Combines two or more tasks into a single task. The tasks must be for the same field with the same crop and Task Type/Operation.

Reassign
Updates the crop zone for any task that's missing a crop, by searching the field(s) for an assigned crop that matches that date range.

VERIFY TASK

EDIT

CLEAN YIELD

After you have brought the yield data to the System through the API connection, Vehicle Sync or Manual import, follow these steps:

1. Click **Field > Equipment Activities**
2. Use the filter options to find and click on the desired **Harvest Task**
3. At the bottom of the page, click **Clean Yield**
4. Enter the desired calibrations
 - a. If there were **multiple** combines used to collect the harvest data, use the **“Adjustment %”** fields to make the adjustments between combines.
 - b. For single combines, or Multi combines with an unknown “Adjustment %”, enter the **Scale Ticket** information in the **Total Yield** section
 - c. Click **Save**
5. Click **Verify Task** for the new data to take effect in the system.
6. **Cleaned Yield** results can be viewed in the following places:
 - a. In the fields **GIS tab**, under both the **Task** and **Yield** sections
 - b. **Equipment Activity > click the Harvest task > use the dropdown menu to select the Calibrated and Normalize layers.**
 - c. **Zone** section of **Workbench** (for Prime users)

Click on the **Verify Task** button to then push the newly created Harvest layer into the **Harvest Data** tab for that field.



Watch this [video](#) to learn more.

0.4

Executing In-Season Agronomics

Online | In-Season Agronomics

FARMER PRO ONBOARDING

Objective: How to manage the various agronomic components of your operation during the growing season

In this session you will learn:

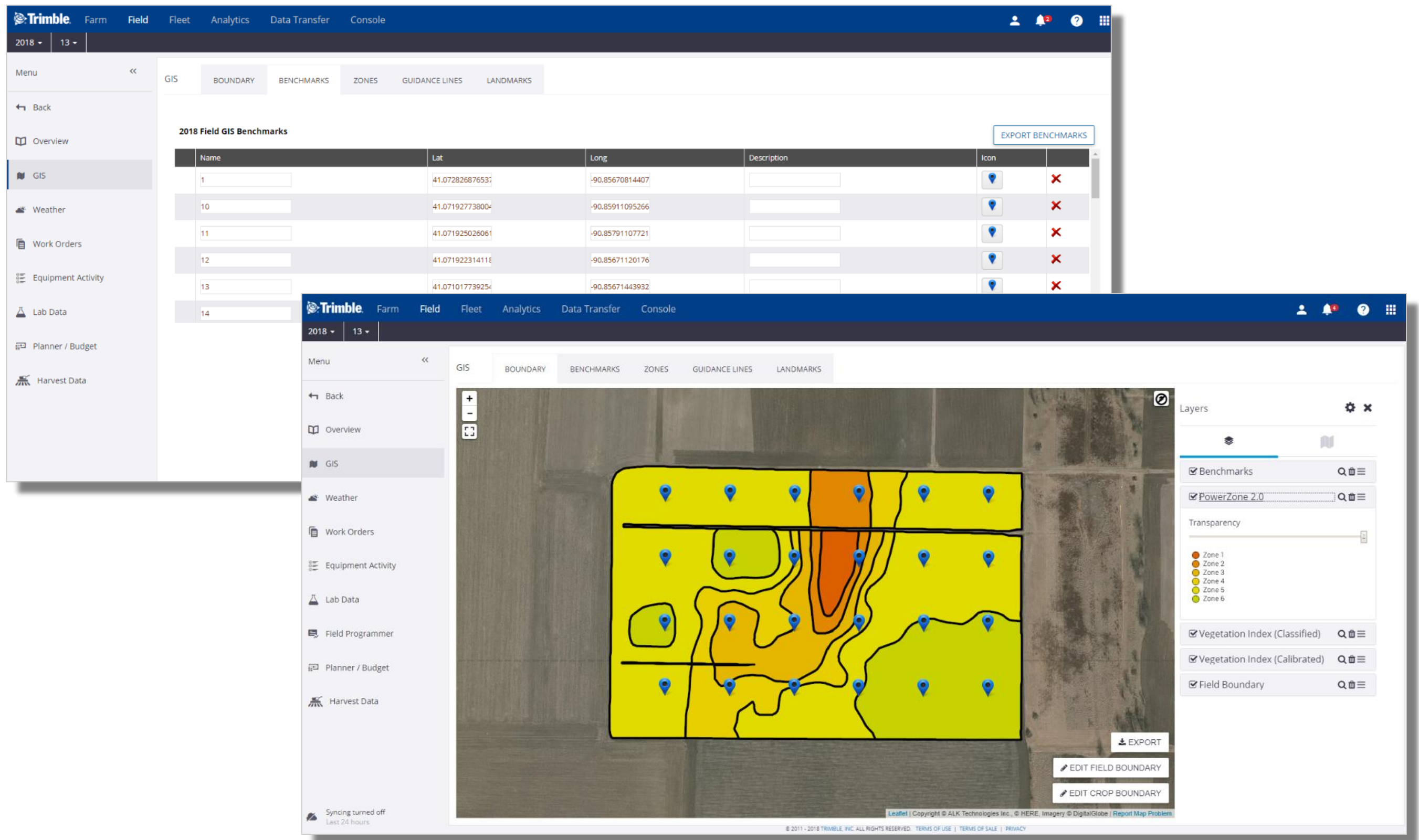
- How to collect soil samples and review lab results
- How to document and review in-season applications
- How to document a scouting event in mobile and online
- How to review Farm Weather data
- How to monitor your crop growth
- Using Prescriptions
- How to create and manage Work Orders in mobile and online



0.4.a

Soil and Tissue Sampling

Online | Soil Samples (Benchmarks)

FARMER PRO ONBOARDING



1. Go to **Marketplace** > if it hasn't been added already search for **Soil Sampling** and click **Add**
2. From a **Field**, click **GIS** tab
3. Under the **Benchmark** tab:
 - Lists all benchmarks acquired for profile, including:
 - **Soil Sample** points, **Scouting** points, **other benchmarks** acquired through mobile app.
 - click **Choose Files** > locate the **GPX**, **KML** or **KMZ** > click **Open**
4. To view your **benchmarks** overlayed on top of other GIS layers:
 - click the **Boundary** tab
 - click **Layer** menu icon () > click **Gear** icon () > check off desired layers, i.e. **Benchmarks**, **Crop Boundary**, **Crop Health Imagery**, **Management Zones** > click **Save**
 - you can adjust layer **transparency** by clicking the **layer name** > dragging the **sliding bar** left and right until you reach the desired transparency.

Online | Soil Samples (Lab Data)

FARMER PRO ONBOARDING

Trimble

FarmFieldFleetAnalyticsData TransferConsole

2018Jump to field

Menu

Lab DataField Data AnalyzerReportsMarket Position SheetScouting ReportCrop Production Costs

LAB DATA

SOILMANURETISSUELABELS & FORMS

Manage Soil Tests

Select/Deselect All

Report Depths: AllShow GPI Colors on PDF

MANAGE

Chenier Farms

Field ID	Field Name	Legal Name	Date	# of Tests
867573	13		2018-02-01	25

Import Soil Test Data From Excel

Choose File

Soil Tests Results new.csv

Upload Soil Tests From File

Soil Test Data Importer Beta

Verify Format

Submit Data

Current Template:

Save or Update Template:

Save format

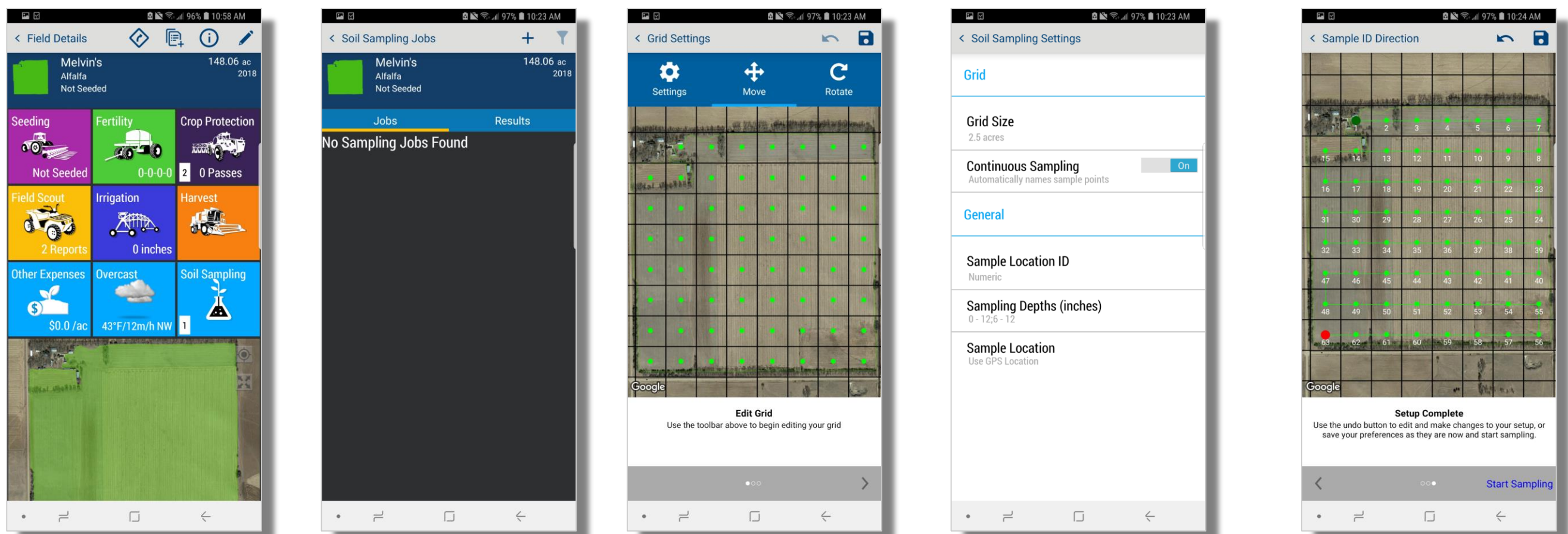
Soil Test Data Importer

Row	Field ID	Date Sampled	Start Depth Or Depth Range(Inches)	End Depth(Inches)	Organic Matter	Phosphorus(P)	Phosphorus (P1)	Phosphorus (P2)	P1:P2 Ratio	Saturation P%	Potassium	Magnesium	K:Mg Ratio	Calcium	Se
	Field_ID	Date	Start Depth	End Depth	OM		P1				K	Mg		CA	
1	867573	2018-10-20 12:00:00 AM	0	6	2.2		16				101	193		1271	
2	867573	2018-10-20 12:00:00 AM	0	6	2.3		11				96	182		1419	
3	867573	2018-10-20 12:00:00 AM	0	6	2.3		10				127	242		1321	
4	867573	2018-10-20 12:00:00 AM	0	6	1.5		12				111	287		1075	
5	867573	2018-10-20 12:00:00 AM	0	6	1.2		13				123	321		1023	
6	867573	2018-10-20 12:00:00 AM	0	6	1.9		10				113	256		1325	
7	867573	2018-10-20 12:00:00 AM	0	6	2.3		11				110	289		1245	
8	867573	2018-10-20 12:00:00 AM	0	6	2.4		15				125	290		1234	
9	867573	2018-10-20 12:00:00 AM	0	6	2.6		14				98	146		1365	
10	867573	2018-10-20 12:00:00 AM	0	6	2.9		13				115	186		1235	
11	867573	2018-10-20 12:00:00 AM	0	6	3.4		12				90	298		1325	
12	867573	2018-10-20 12:00:00 AM	0	6	3.1		11				119	314		1456	
13	867573	2018-10-20 12:00:00 AM	0	6	2		15				126	365		1025	
14	867573	2018-10-20 12:00:00 AM	0	6	1.5		18				120	389		1098	
15	867573	2018-10-20 12:00:00 AM	0	6	1.5		12				111	287		1075	
16	867573	2018-10-20 12:00:00 AM	0	6	2.2		16				101	193		1271	
17	867573	2018-10-20 12:00:00 AM	0	6	2.9		13				115	186		1235	
18	867573	2018-10-20 12:00:00 AM	0	6	2.2		16				101	193		1271	
19	867573	2018-10-20 12:00:00 AM	0	6	2.9		13				115	186		1235	
20	867573	2018-10-20 12:00:00 AM	0	6	2.9		13				115	186		1235	

1. Click **Analytics > Lab > Soil**
2. under **Import Soil Test Data From Excel**, click **Choose File** > locate the analysis results in **.CSV** format from the lab > click **Open** > click **Upload Soil Test Results From File**
3. Select the **.CSV attribute** from a **columns Dropdown** menu that matches that **columns title**. i.e. Organic Matter (column title) = OM (csv attribute). Do this for all applicable columns. If there is no matching attribute for the column, you may leave that drop down menu blank.
4. To **save** the column drop down menu selections as a **template** to apply to future lab submissions with an identical .csv layout, enter a **Template Title** > click **Save Format**
5. To use an **existing template**, select the desired template from the **Current Template** dropdown menu
6. Click **Verify Format**
 - Correct any errors that are identified, if any.
7. Click **Submit Data**

Mobile | Grid Soil Sampling

FARMER PRO ONBOARDING



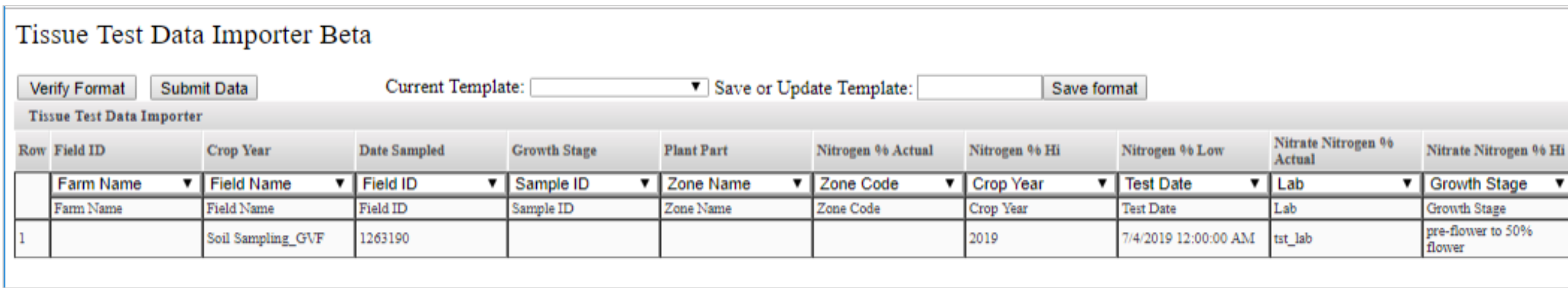
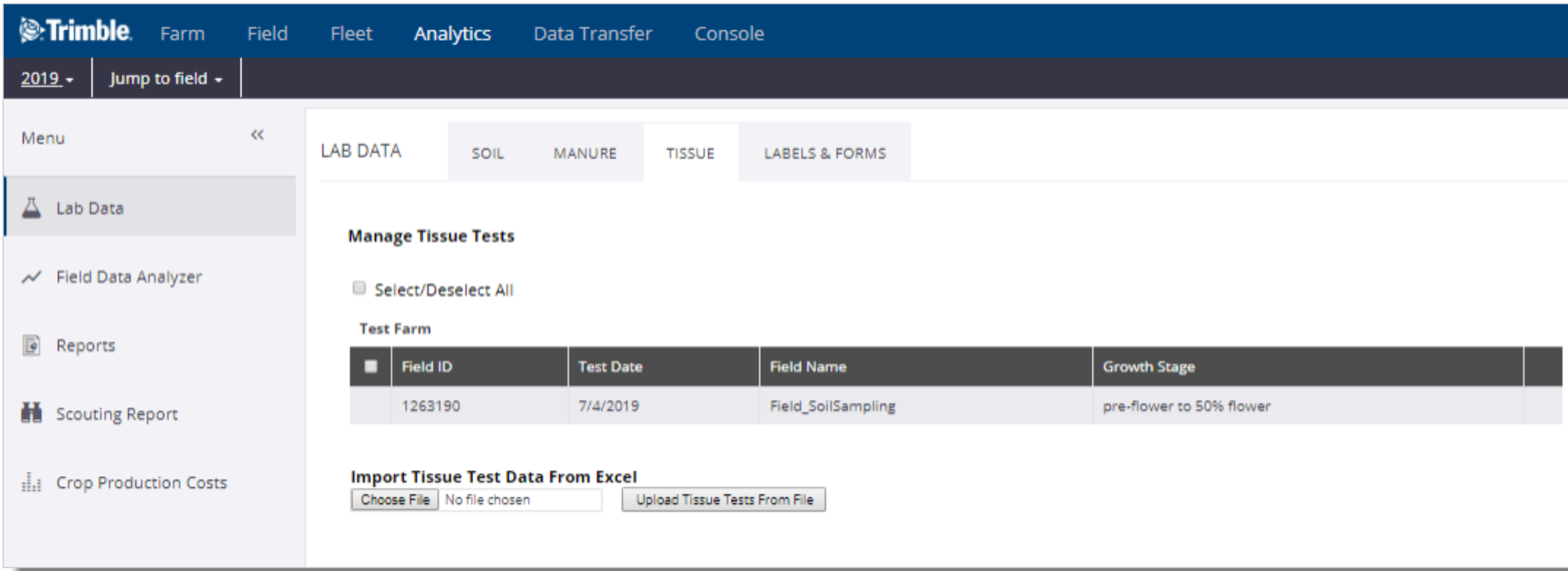
1. To create a **Grid Sampling** operation, tap the **desired field** in your **Trimble Mobile App** > Tap on the **Soil Sampling** tile
2. Tap the **(+)** symbol to create a new grid
3. Tap **Settings** >
 - Grid size **5 Acres** > Continuous Sampling **On** > Sample Location ID is **Numeric** > Sampling Depths **0-6** and **6-12** > Sample Location set to **Use GPS Location** > tap **back arrow** in upper left
4. Tap **Move** > tap a move finger on screen to move Grd
5. Tap **Rotate** > move scale bar to rotate Grid
6. Tap **bottom right arrow** to proceed to next screen
7. Edit point locations as needed using 1 of 3 methods
 - tap the point and manually relocated it within that grid or to delete it
 - tap the point randomizer
 - tap **(+)** symbol to manually add a new point
8. Tap **bottom right arrow** to proceed to next screen
9. Tap the **start location** of the sampling operation > tap the sample **direction** > this will **number** the sample locations
10. Tap **Start Sampling** at the bottom right corner
11. When you are in the field overtop of the **sample location**, tap **Log GPS Sample** to mark sample location as **complete**.
12. Tap **Save** icon in top right > tap **Save and Mark Complete**



Watch this [video](#) to learn more.

Online | Tissue Sample (Lab Data)

FARMER PRO ONBOARDING



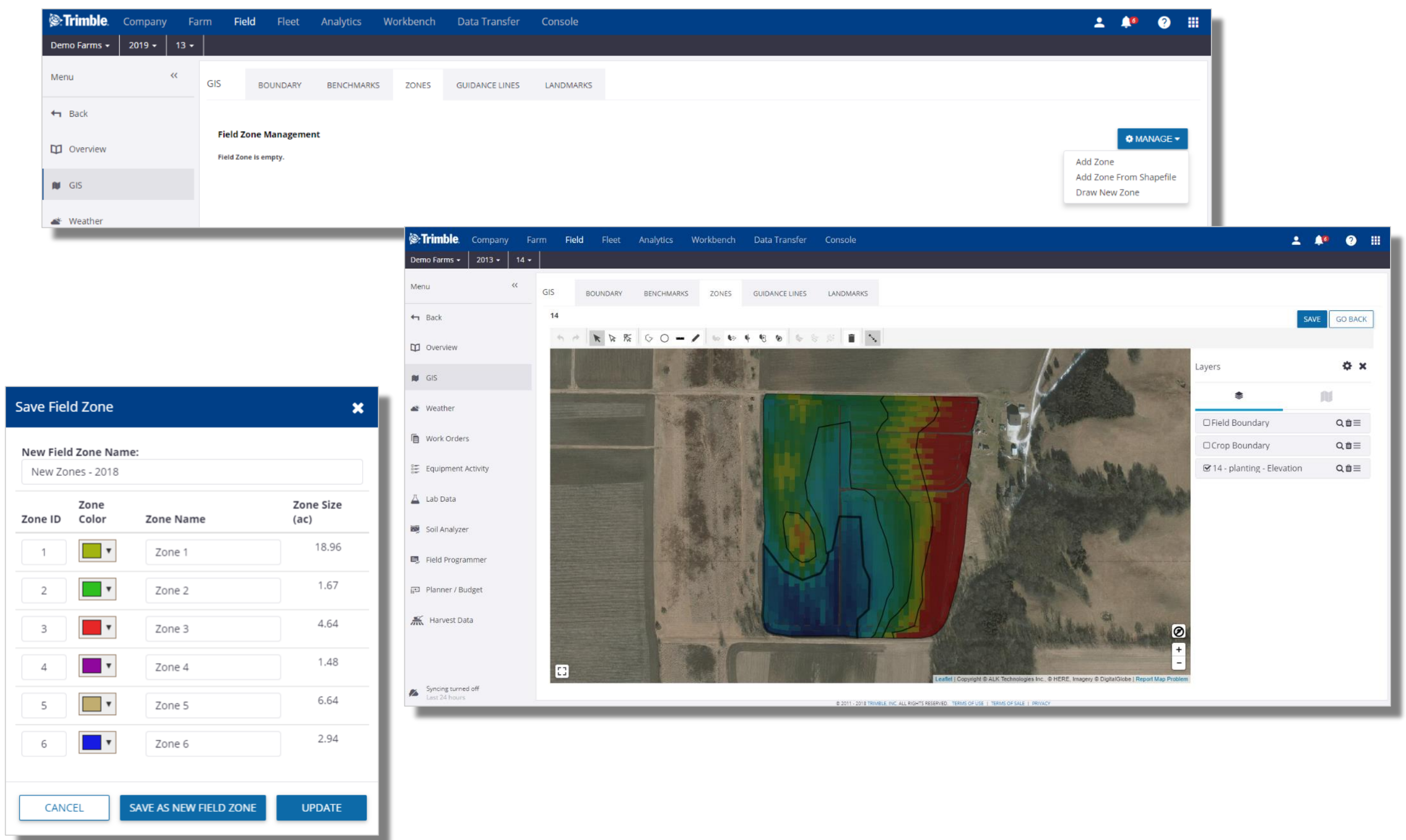
1. Click **Analytics > Lab > Tissue**
2. under **Import Tissue Test Data From Excel**, click **Choose File** > locate the analysis results in **.XLS** format from the lab > click **Open** > click **Upload Tissue Test Results From File**
3. Select the **.XLS attribute** from a **columns Dropdown** menu that matches that **columns title**. i.e. Organic Matter (column title) = OM (xls attribute). Do this for all applicable columns. If there is no matching attribute for the column, you may leave that drop down menu blank.
4. To **save** the column drop down menu selections as a **template** to apply to future lab submissions with an identical .csv layout, enter a **Template Title** > click **Save Format**
5. To use an **existing template**, select the desired template from the **Current Template** dropdown menu
6. Click **Verify Format**
 - Correct any errors that are identified, if any.
7. Click **Submit Data**

0.4.b

Management Zones

Online | Manual Zone Creation

FARMER PRO ONBOARDING



1. Enter the desired field
2. Click **GIS** tab
3. Click the **Zones** tab within the GIS section
4. Click **Manage > Draw New Zone**
5. Use the appropriate **GIS tools** to make adjustments to the new Zone layer
6. Click **save**
7. In the **Save Field Zone** pop-out window;
 - Enter a new Field Zone name: **Zones - 2018**
 - Enter Zone IDs: **1-6**
 - Adjust **Color** themes
 - Enter individual **Zone Names**, if desired
 - click **Save As New Field Zone**

Online | Upload Management Zone

FARMER PRO ONBOARDING

Field Zone Management

PowerZone 2.0

Zone ID	Zone Name	Acres	% of Field	CPI	Target Yield	Description
1	Zone 1	1.49	2.28 %	88.07	50	
2	Zone 2	3.27	5.00 %	91.73	60	
3	Zone 3	5.35	8.19 %	96.53	68	
4	Zone 4	7.79	11.92 %	98.87	70	
5	Zone 5	33.93	51.91 %	100.78	72	
6	Zone 6	13.53	20.70 %	103.10	75	
Total		65.36			70.95	

Save Field Zone

Zone Name: Mgmt zones: Nutrient Zone: ☐ No ☒ Yes Zone Type:

Zone ID Column: Set Default Colors

Low Value ID Column:

High Value ID Column:

Create Zone Cancel

DBF Values

Zone	Field	Area-Calc	Color
4	13	3.12	#FF0000
1	13	21.65	#FF6600
3	13	7.41	#99CC00
2	13	33.17	#006600

1. Enter the desired field
2. Click **GIS** tab
3. Click the **Zones** tab within the GIS section
4. Click **Manage > Draw New Zone**
5. Use the appropriate **GIS** tools to make adjustments to the new Zone layer
6. Click **save**
7. In the **Save Field Zone** pop-out window;
 - Enter a new Field Zone name: **Zones - 2018**
 - Enter Zone IDs: **1-6**
 - Adjust **Color** themes
 - Enter individual **Zone Names**, if desired
 - click **Save As New Field Zone**

0.4.c

Applications

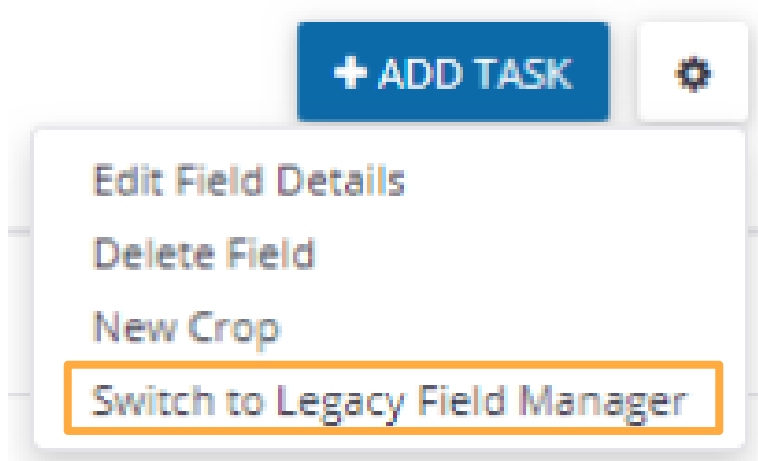
Online | New Field Manager

FARMER PRO ONBOARDING

Objective: Understand how you can view application data and manually add application tasks into the software.

In this session you will learn:

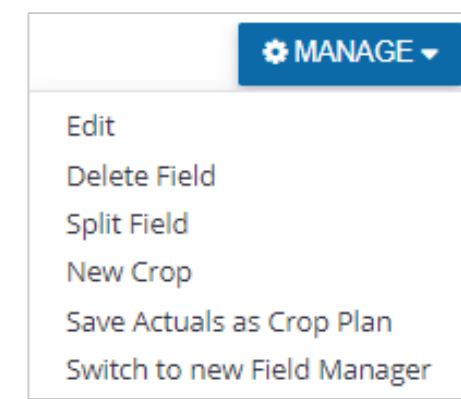
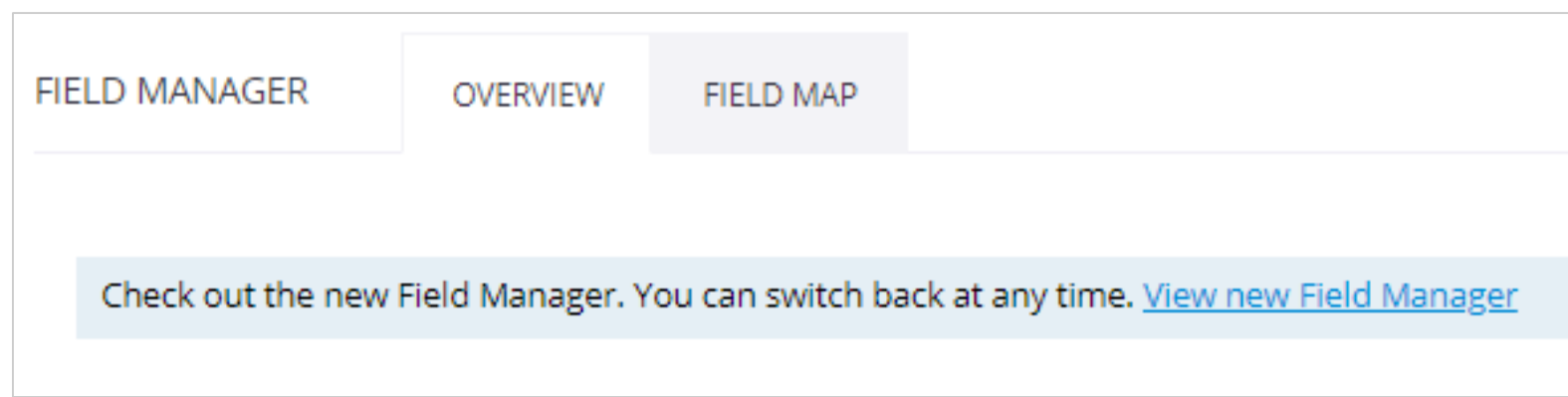
- View the New Field Manager
- Add a product application using the New Field Manager
- Add a product application using the Legacy Field Manager



- Add a product application on Mobile App
- Use Farm Calendar

Online | New Field Manager

FARMER PRO ONBOARDING



Training Field - Flat - W
Training Client 1: Training Farm 1
94.88 Acres

Crop: Soybeans
Planted: 05/12/2018

+ ADD TASK

Activities Profitability Seeding Fertility Chemicals Harvest Irrigation Scouting Other

Completed Activities ☐ Show Incomplete

Activity	Date	Days After Planting	Area	Cost
▼ Soybeans Spreading Spreading	04/24/2018	-18	94.88 ac	\$256.45
▼ Seeding Planting	05/12/2018	0	98.06 ac	\$93.55
▼ Soybeans Spraying Spraying	06/24/2018	42	94.88 ac	\$50.24
▼ Harvest Harvesting	10/03/2018	144	96.65 ac	\$0.00

Training Field - Flat - W
Training Client 1: Training Farm 1
94.88 Acres

Crop: Soybeans
Planted: 05/12/2018

+ ADD TASK

Activities Profitability Seeding Fertility Chemicals Harvest Irrigation Scouting Other

Income / ac (49.49 bu / ac) Expenses / ac Profit / ac

\$569.15 \$428.90 \$141.30

Type	Total	\$ / ac	\$ / bu
Seed	\$9,173	\$96.68	\$1.95
Fertilizer	\$23,721	\$250.00	\$5.05
Fungicide	\$4,744	\$50.00	\$1.01
Other Variable	\$2,372	\$25.00	\$0.51
Other Fixed	\$50	\$0.53	\$0.01
Operator	\$15	\$0.16	\$0.00
Equipment	\$619	\$6.53	\$0.13
Total Expense	\$40,695	\$428.90	\$8.67

Crop Sales (4,695.78 bu)	\$54,002	\$569.15	\$11.50
Other Revenue	\$100	\$1.05	\$0.02
Direct Costs (Materials)	\$40,010	\$421.69	\$8.52
Gross Profit	\$14,091	\$148.52	\$3.00
Equipment & Other Costs	\$684	\$7.21	\$0.15
Net Income	\$13,407	\$141.30	\$2.86

Using the New Field Manager

1. From **Field Profiler** > click on the desired field
2. If the Legacy Field Manager opens, select the link to View new Field Manager (or click the Manage button and select Switch to new Field Manger)
3. The Activities tab lists a summary of the Completed Activities for the selected field.
 - The Show incomplete option can be activated to include incomplete tasks
 - Expand any activity to see more details
4. The Profitability tab summarizes expenses and income for the field, categorized into expense type.
 - This information can be extremely valuable - cost information must be entered in the materials, equipment, and people properties to view total expense calculations



Watch this [video](#) to learn more.

Online | New Field Manager

FARMER PRO ONBOARDING

Training Field - Flat - W

Training Client 1: Training Farm 1

94.88 Acres

Crop: Soybeans

Planted: 05/12/2018

+ ADD TASK

Activities

Profitability

Seeding

Fertility

Chemicals

Harvest

Irrigation

Scouting

Other

Date	Crop	Variety	Rate	Area	Cost/Area
05/12/2018	Soybeans	S/C-3917R2X	92.34 lbs/ac	25.95 ac	\$93.42 /ac
05/12/2018	Soybeans	S/P-P38A98X	100.56 lbs/ac	72.10 ac	\$93.60 /ac

Date	Material (Blend)	Actual Nutrient	Placement	Type	Rate	Area	Cost/Area
04/24/2018	46-0-0	46-0-0-0		Dry	100.00 lbs/ac	94.88 ac	\$250.00 /ac
Total		46-0-0-0					

Date	Material	Cost/Unit	Target Pest	PHI	REI	Rate	Area	Cost/Area
06/24/2018	ABSOLUTE 500 SC FUNGICIDE	\$5.00 / l		10 days	72 hr	10.00 l/ac	94.88 ac	\$50.00 /ac

Date	Area	Average Yield	Total Yield	Price/Unit	Total Sale
09/24/2018	96.65 ac	48.59 bu/ac	4,695.82 bu	\$11.50 /bu	\$54,001.93
Total			4,695.82 bu		


View Summary

View Report

Edit

Delete

Using the Activity tabs

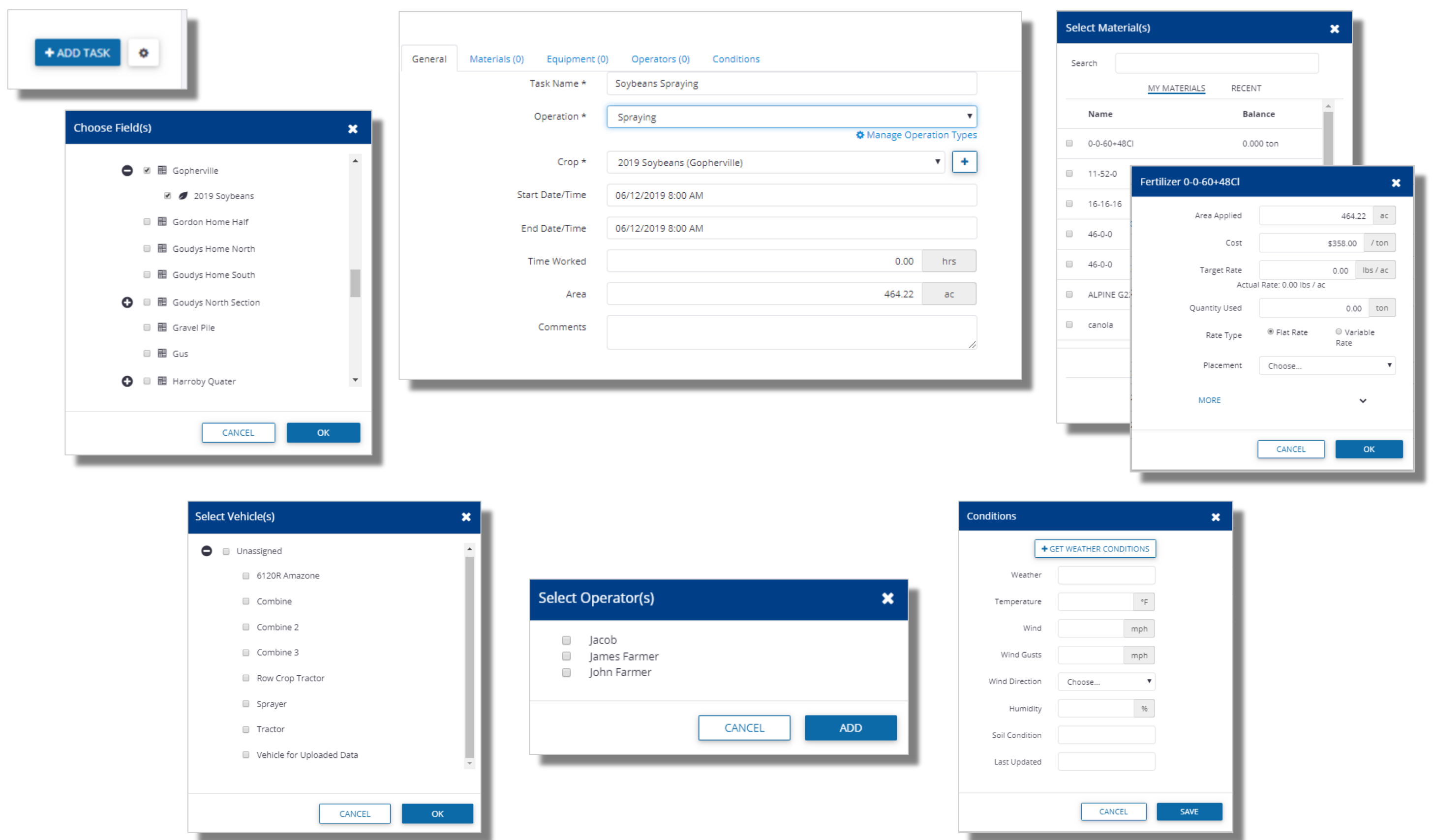
1. The Seeding, Fertility, Chemicals, and Harvest tabs summarize the field activities in each of these areas
2. Click the more button  on the right edge of any of these activities for additional actions
 - View Summary
 - Inputs view, map view, and yield cleaning for harvest activities
 - View Report
 - the Proof of Placement report for the activity
 - Edit
 - Delete



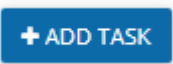
Watch this [video](#) to learn more.

Online | New Field Manager

FARMER PRO ONBOARDING



Add a Task

1. Click the **Add Task** button() from any Field Manager tab to manually add a completed task
2. You have the option to select other fields if you want to add the same task to multiple fields
3. Click **OK**
4. On the General tab, select what **Operation** you want to perform, **Crop** and **Date**
 - For this practice we selected Spraying and we will add a Fertilizer
5. Select the **Material** tab to Add your **Material**
6. You can **Search** for Material, **Select** one from the list or even **Add** a new Material and click **Save**
 - Make Sure you Add **Target Rate** and **Placement Type**
 - **Quantity Used** will be calculated based on the Acres and Rate
 - Click in More if you want to add **Pass Number** and **Tank**, and then click **OK**
7. Go to **Equipment** tab and click **Add** to enter your Equipment and Implements for this task
8. Select the Vehicle from the list and Click OK.
9. Select the **Operator** tab, Add the Operator for this task
10. The **Conditions** tab allows you to enter the weather information.



Watch this [video](#) to learn more.

Online | New Field Manager

FARMER PRO ONBOARDING

Other Materials can be added in the same way as Fertilizers

1. Multiple Products
 - Pick multiple products from the **Select Material(s)** window
2. Seed:
 - Make sure the the **Cost** and **Target Rate** is entered to have **Quantity Used** calculated
 - Click in **Seed Source** to add more details such as Seed Source, Lot, Spacing, Depth, Grade, Primary or UrderSeeded.
3. Chemicals:
 - Enter Pre-Harvest Interval or Restricted Entry Interval as needed
 - Identify Sensitive area as needed
4. Lime
5. Tank Mix:
 - For the Tank Mixes, you're allowed to create a Mix right from this Tab
 - Click on **Ingredients** to **ADD** Ingredients to your Mix
6. Water



Watch this [video](#) to learn more.

Online | New Field Manager

FARMER PRO ONBOARDING

The screenshot displays the 'New Field Manager' interface for 'Soybeans Harvesting'. The main window has a sidebar with field information: 'Training Field - Flat - W', 'Training Client 1: Training Farm 1', '94.88 ac', '07/25/2019', and '8:00:00 AM'. The main area shows tabs for 'General', 'Materials (0)', 'Equipment (0)', 'Operators (0)', 'Conditions', and 'Harvest'. The 'General' tab is active, showing 'Task Name *' as 'Soybeans Harvesting', 'Operation *' as 'Harvesting', and 'Crop *' as '2018 Soybeans (Trainin)'. A 'Manage Operation Types' link is visible. A 'Harvest Soybeans' modal is open, showing 'Area Harvested' as 94.88 ac, 'Price' as \$0.00 / bu, 'Average Yield' as 35.41 bu / ac, and 'Quantity Harvested' as 3,360.00 bu. The modal has 'CANCEL' and 'OK' buttons. The main window also has 'CANCEL' and 'SAVE' buttons at the bottom right.

Name	Area	Price/Unit	Average Yield	Quantity
Soybeans	94.882 ac	\$0.00 / bu	0.000 bu / ac	0.000 bu

Add a Harvest Task

1. When you select a Harvesting Operation the Harvest tab is created.
2. Enter the relevant task information on the General tab.
3. Select the Harvest tab
4. Click on the harvest line item to open the Harvest details window.
 - Enter Area Harvested, Price, Average Yield or Quantity Harvested, then click OK
5. Click Save to save the harvest task.



Watch this [video](#) to learn more.

Online | New Field Manager

FARMER PRO ONBOARDING

The screenshots illustrate the following features:

- Irrigation Tab:** Displays a table of irrigation events (Date, Type) and a chart view showing accumulated irrigation over time.
- Weather/Irrigation Event Modal:** A form to add or edit events with fields for Date, Type, Source, Amount, and Comments.
- Scouting Tab:** Displays a table of scouting reports (Date, Type, Stage, Status) with 'Edit' and 'Print' options.
- Add Expense Modal:** A form to add expenses or revenue with fields for Description, Type, Date, Area, Cost/Area, Total, and Comments.
- Other Tab:** Displays a table of expenses (Date, Description, Type, Cost/Area) with an 'Add Expense' button.

Additional Field Events

1. The Irrigation Tab:
 - Use Add Event to add an irrigation event
 - Chart view is also available
2. The Scouting tab will display any scouting tasks that have been logged with the Trimble Mobile App
 - Edit and Print capabilities are available for the scouting reports
3. The Other tab:
 - Use the Add Expense button to open the Add Expense window
 - Enter the details for a miscellaneous expense or revenue task
 - Click OK to save



Watch this [video](#) to learn more.

Online | Legacy Field Manager

FARMER PRO ONBOARDING

Seed

Date	Crop Type	Variety	Germ.	Mortality	Seed	Plants	Rate	Comments	Acres	Cost/Acre
5/12/2017	Corn - RR Primary	P7005AM	%	%	seeds/kg	plants/ha	28,000 Seeds/ac		65.21	50.40
2/22/2018	Corn - RR UnderSeeded/Refuge	P7005AM	%	%					65.21	

Fertilizer Application

Date	Comment	Placement	Type	Actual Nutrient (lb/ac)	Acres	Rate	Product (Blend)	Cost/Acre
	Starter In seed row	Seed Placed	Liquid	3-11-1-0	65.21	4.5 gal/ac	ALPINE G22	17.20
	Urea	Side band	Dry	75-0-0-0	65.21	163 lb/ac	46-0-0	26.90
	Side Band	Band	Dry	10-41-48-3-38.5Cl-0.2Zn	65.21	165 lb/ac	5-24-29-1-23.3Cl-0.1Zn	38.12
Total 87-52-49-3-38.5Cl-0.2Zn								82.22

Field Scouting / Product Recommendations

Date	Type	Stage	Status
Jun. 08, 2018	Field Scouter		

Fertilizer Application

Add Analysis, Manure or Compost

Pass #	Tank #/Size	Date	Comment/Zone	Placement/Type	Product	Price (tonne)	Acres	Rate	Cost/Acre
				Band Dry				lb/ac	

Select fields to apply application to.

Field ID	Farm Name	Field Name	Legal Desc.	Acres	Crop - Desc	Variety
<input type="checkbox"/>	867526	Chenier Farms	Ochsner E	150.79		
<input checked="" type="checkbox"/>	867573	Chenier Farms	13	65.21	Corn - RR	
<input type="checkbox"/>	1077211	Chenier Farms	west 7 - CropCare	63.99	Barley - 2 Row Silage	
<input type="checkbox"/>	1024002	CDN Farm	East Field - Corn	34.3	Corn	
<input type="checkbox"/>	1024002	CDN Farm	East Field - Soy	30	Soybeans	

Add Application

Close Window

Product Application

Application Type

Ground

Crop Stage

Sensitive Area

No Yes

Spray Volume

gal

Applicator Name

Applicator License No

Product

Cost/Unit

Rate

Cost/Acre

Material

Comments

Target Pest

PHI

REI

hours

Type in Product Name

Field List

Apply to multiple fields

Field ID	Farm Name	Field Name	Legal Desc.	Acres	Crop - Desc	Variety
<input type="checkbox"/>	867526	Chenier Farms	Ochsner E	150.79		
<input checked="" type="checkbox"/>	867573	Chenier Farms	13	65.21	Corn - RR	P7005AM
<input type="checkbox"/>	1077211	Chenier Farms	west 7 - CropCare	63.99	Barley - 2 Row Silage	
<input type="checkbox"/>	1024002	CDN Farm	East Field - Corn	34.3	Corn	
<input type="checkbox"/>	1024002	CDN Farm	East Field - Soy	30	Soybeans	

Field ID	Field Name	LLD	Date - Start	Date - End	Acres	Weather	Temp	Wind Sp	Wind Dir
867573	13				65.21		°F	mph	

Add Application

Close Window

Get Weather Condition

Update Events

Date

Type

Detail

Comments

Mechanical

In Field Support

Weather/Irrigation


Other

Select fields to apply application to.

Field ID	Farm Name	Field Name	Legal Desc.	Acres	Crop - Desc	Variety
<input type="checkbox"/>	867526	Chenier Farms	Ochsner E	150.79		
<input checked="" type="checkbox"/>	867573	Chenier Farms	13	65.21	Corn - RR	P7005AM
<input type="checkbox"/>	1077211	Chenier Farms	west 7 - CropCare	63.99	Barley - 2 Row Silage	
<input type="checkbox"/>	1024002	CDN Farm	East Field - Corn	34.3	Corn	
<input type="checkbox"/>	1024002	CDN Farm	East Field - Soy	30	Soybeans	

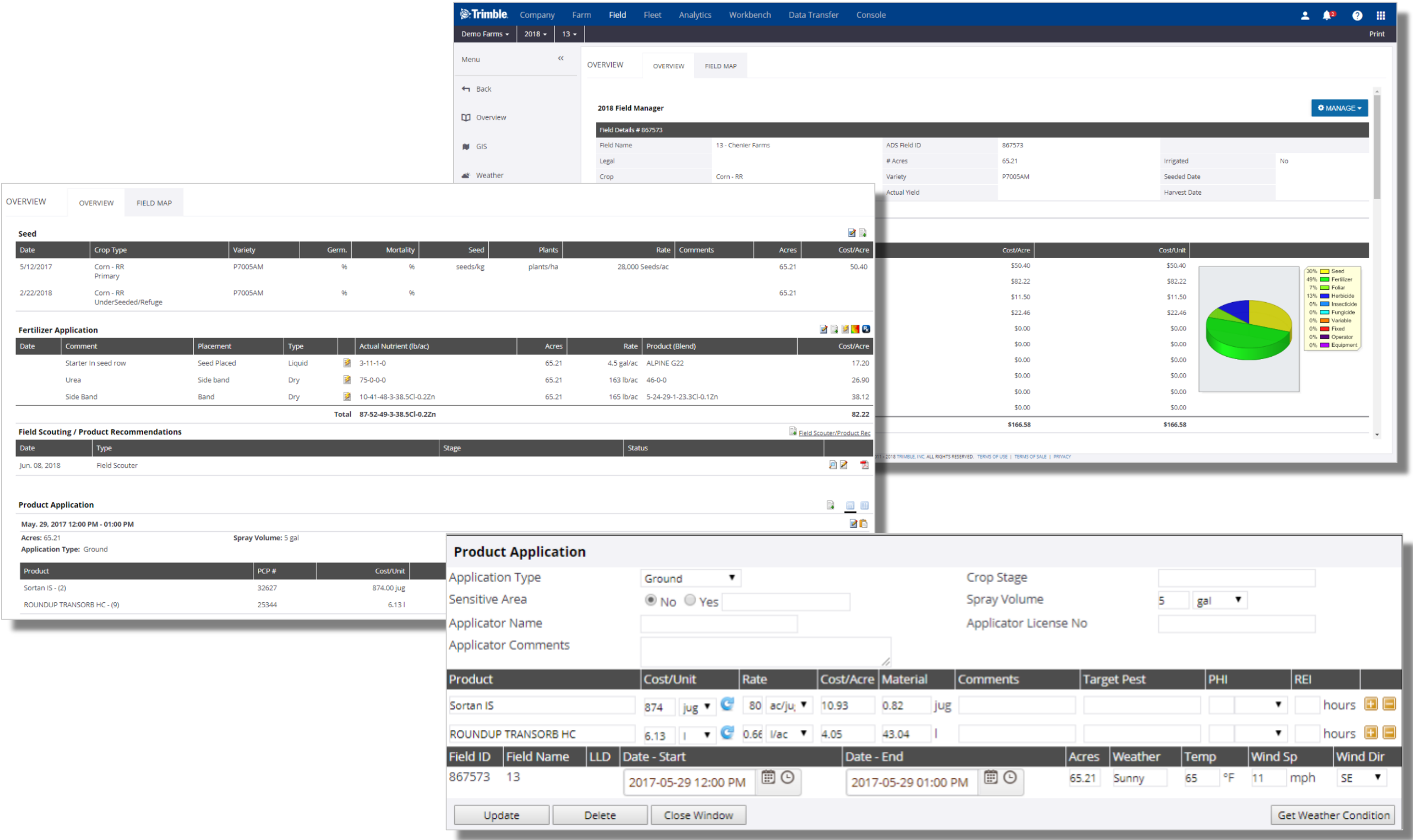
Save

Close

1. Click into a **Field** through the **Jump to Field** quick search bar or by clicking **Field > Field Profiler > click desired field**
2. Click in the **Engine** button ()to Switch back to Legacy Field Manager
3. Click the **Add New** button for **Fertilizers**
 - **Date:** Application date
 - **Placement/Type:** Band/Dry
 - **Product:** 11-52-0 (Dry)
 - **Price:** \$29.26/acre
 - **Acres:** enter as-applied acres
 - **Rate:** 160 lbs/acre
 - Click **Add Application**
4. Click the **Add New** button for **Chemicals**
 - **Application Type:** Ground
 - **Product:** Sortan IS
 - **Cost/Unit:** \$874/jug
 - **Rate:** 85 ac/jug
 - Click **Add Application**

Online | Reviewing Applications

FARMER PRO ONBOARDING

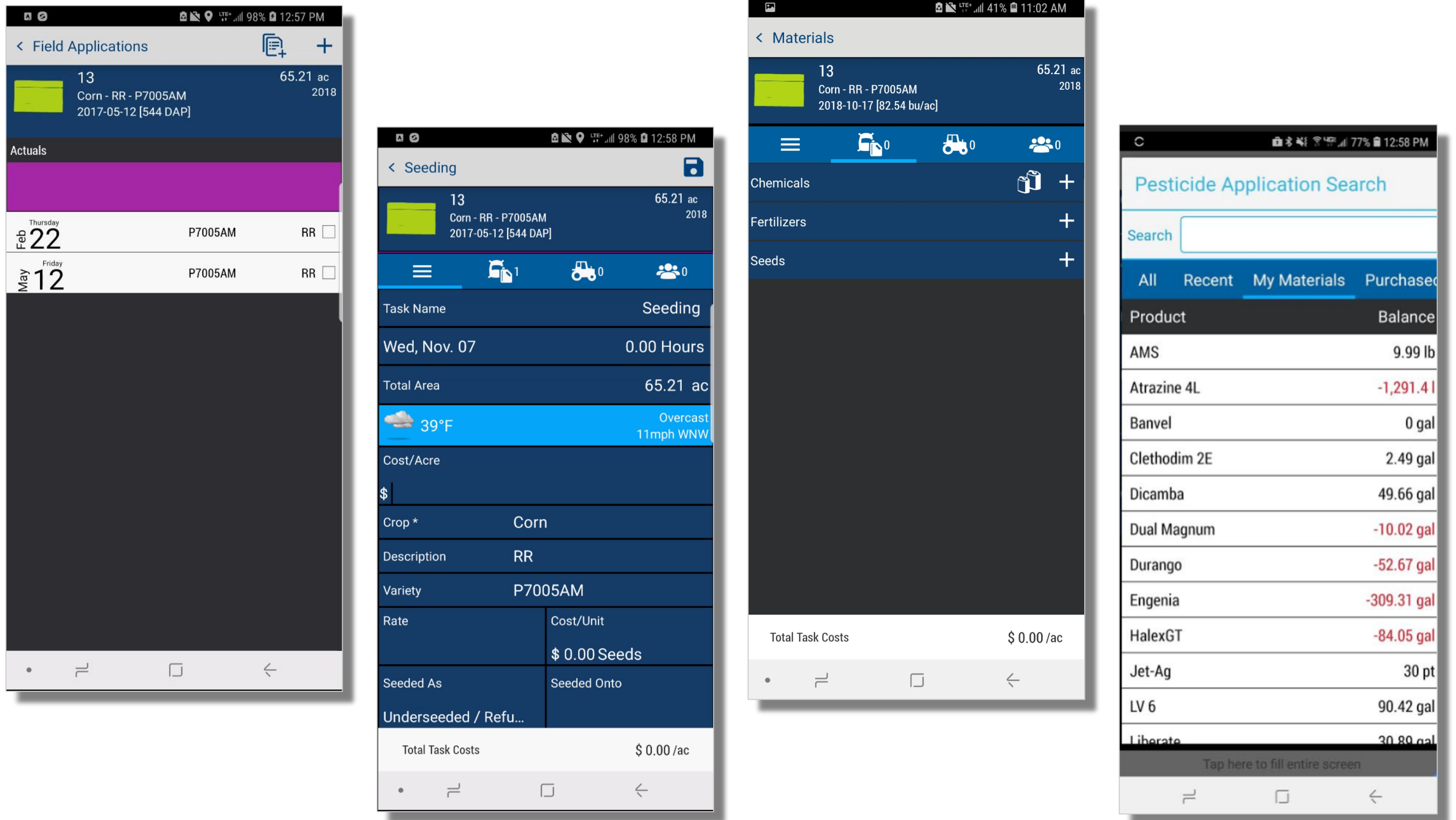





1. Click into a **Field** through the **Jump to Field** quick search bar or by clicking **Field > Field Profiler > click desired field**
2. **Field Details** can be edited by clicking **Manage > Edit**
 - After edits have been made, click **Save**
3. **Expense Breakdown** area is a summary of the costs associated with each field event. These costs make of the fields **Cost of Production (COP)**
4. All other areas below the expense breakdown are the various **Field Events**. Click the **Edit icon** (📝) to edit any of the **Event** details.

Please note that if you have Verified any task data through the Equipment Activity page then your event details will auto fill in this area as well.

Mobile| Adding Applications

FARMER PRO ONBOARDING



1. Tap into the desired **Field**
2. Tap the desired **Input** tile
 - Fill in application details
 - Tap **Input** tab () to add a new input
 - Tap the **plus** symbol beside the input type to choose input
 - Select **My Materials** to review the **Balance** of existing purchased materials
 - Tap **Equipment** tab () to add **equipment** to application
 - Tap the **plus** symbol beside the **equipment** type to choose equipment
 - Tap **Operator** tab () to add **operator** to application
 - Tap the **plus** symbol in top right corner of the app to add a **operator** to the application
 - click **Save**

Please note for **material balances** to show up, you must have previously documented purchase in [Online](#) or [Mobile](#). For [equipment](#) or [operators](#) to show up as options in mobile, you must have set these up in the online software first. See slides



Watch this [video](#) to learn more.

Online | Farm Calendar

FARMER PRO ONBOARDING

The screenshot displays the Farm Calendar interface. At the top is the 'Event Calendar' with a legend for event types: Seed (purple), Fertilizer (green), Product (blue), Harvest (orange), Scout (yellow), Field (red), and Weather/Irrigation (light blue). Below the legend is a calendar grid for August 2018. The grid shows dates from 29 to 31, with various events listed for each date. For example, on August 1st, there are 2 entries for 'Gravel P - Barley' and 'Russin L - Wheat'. On August 11th, there are 5 entries for '2 Fields - Misc L Fi - Wheat', 'Russin S - Wheat', 'Barrys - Peas', and 'Gravel P -'. On August 13th, there are 4 entries for 'Cliff - Barrys - REGLONE', 'Mac L Fi - Wheat', and 'Barrys - glyphosate'. On August 15th, there are 3 entries for '2 Fields - glyphosate'. On August 17th, there are 2 entries for '2 Fields - glyphosate'. On August 19th, there are 6 entries for '2 Fields - glyphosate', '3 Fields - Canola', and 'Joe's - glyphosate'. On August 21st, there are 2 entries for '2 Fields - glyphosate'. On August 23rd, there are 3 entries for '3 Fields - glyphosate'. On August 25th, there are 4 entries for '4 Fields - glyphosate'. On August 27th, there are 2 entries for '2 Fields - glyphosate'. On August 29th, there are 3 entries for '3 Fields - glyphosate'. On August 31st, there are 4 entries for '4 Fields - glyphosate'.

Below the calendar grid is the '6/6/2018 Entries' form. It includes fields for 'Product Application' (Application Type, Sensitive Area, Applicator Name, Applicator Comments), 'Ground' (No/Yes), 'Crop Stage', 'Spray Volume', and 'Applicator License No'. Below these fields is a table with columns: Product, Cost/Unit, Rate, Cost/Acre, Material, Comments, Target Pest, PHI, and REI. The table has a search bar and a 'Field List' section. The 'Field List' section has a table with columns: Field ID, Farm Name, Field Name, Legal Desc., Acres, Crop - Desc, and Variety. The table lists several fields, including 867526, 867573, 1077211, 1024002, and 1024002. Below the table are buttons for 'Add Application' and 'Close Window'.

To the right of the '6/6/2018 Entries' form is the '8/20/2018 Product Entries' form. It includes a 'Show Products by Category' dropdown menu (set to 'Product') and buttons for 'Delete Selected' and 'Add New...'. Below these buttons is a table with columns: Category, Description, and Field Name. The table lists three products, all of which are 'glyphosate (generic) @ 1.1 l/ac'. The 'Field Name' column lists 'Joe's', 'Dwayne Home Sec', and '15'. Each row has an 'Edit' button.

1. Click **Field** > **Farm Calendar**
2. Select **Month** and **Year**
3. A **Legend** can be located at the top that identifies each event type by color
4. Click an **existing event** to see more details
5. Click the **grey bar** at the top of a date to add new events for that date to the calendar.
 - Select the event type from the **Add New...** dropdown menu > enter event **details** > select **fields** to apply event to > click **Add (event type)** in bottom left corner



0.4.d

Prescriptions

Online | Managing In-Season Agronomics

FARMER PRO ONBOARDING

Objectives - How to manage the various agronomic components of your operation during the growing season

In this session you will learn:

- Learn how to generate fertilizer prescriptions
- Understand how to create multiple applications (Passes) for different times in the season
- Walk through the process:
 - Select Products and enter Nutrient Requirements
 - Set Zones, Passes, and Tanks
 - Repeat for any other Zones, Passes, or Tanks
 - Generate Report/Download Files

Online | Managing In-Season Agronomics

FARMER PRO ONBOARDING

Concepts for Fertilizer Components:

- Prescription components
 - Passes - applications in the field in a single trip or period
 - Tanks - are included in a Pass. Each Tank will have only one particular blend/material
- Material types
 - Single - products that are manufactured with a combination of different nutrients (e.g. 16-16-16)
 - Blend - products that are combined at certain ratios to create a material with a particular nutrient composition (e.g. 46-0-0 + 11-52-0 + 0-0-60)

Online | Prescriptions (Quick Blender)

FARMER PRO ONBOARDING

The screenshot displays the 'Field Zone Management' interface. At the top, there are tabs for GIS, BOUNDARY, BENCHMARKS, ZONES, GUIDANCE LINES, and LANDMARKS. The 'ZONES' tab is active. Below the tabs, there is a 'Field Zone Management' section with a table of zones. A 'MANAGE' button is in the top right corner. A file upload dialog is open, showing a progress bar at 100% and a file named 'Zone_Map_Field_13' (12.48 KB). The dialog also includes options for 'Zone Name', 'Zone ID Column', 'Low Value ID Column', 'High Value ID Column', 'Create Zone', and 'Cancel'. Below the dialog, there is a 'DBF Values' table with columns for Zone, Field, Area-Calc, and Color. The table shows data for zones 1, 2, 3, and 4. The 'Field Zones' table at the bottom shows a list of zones with columns for Zone ID, Color, Zone Name, Acres, Target Yield, Description, and ENR. The table includes zones 1 through 6, with a total of 65.36 acres and a target yield of 70.95.

Zone ID	Zone Name	Acres	% of Field	CPI	Target Yield	Description
1	Zone 1	1.49	2.28 %	88.07	50	
2	Zone 2	3.27	5.00 %	91.73	60	
3	Zone 3	5.35	8.19 %	96.53	68	
4	Zone 4	7.79	11.92 %	98.87	70	
5	Zone 5	33.93	51.91 %	100.78	72	
		103.10			75	
					70.95	

Zone	Field	Area-Calc	Color
4	13	3.12	#FF6600
1	13	21.65	#FF6600
3	13	7.41	#99CC66
2	13	33.17	#006633

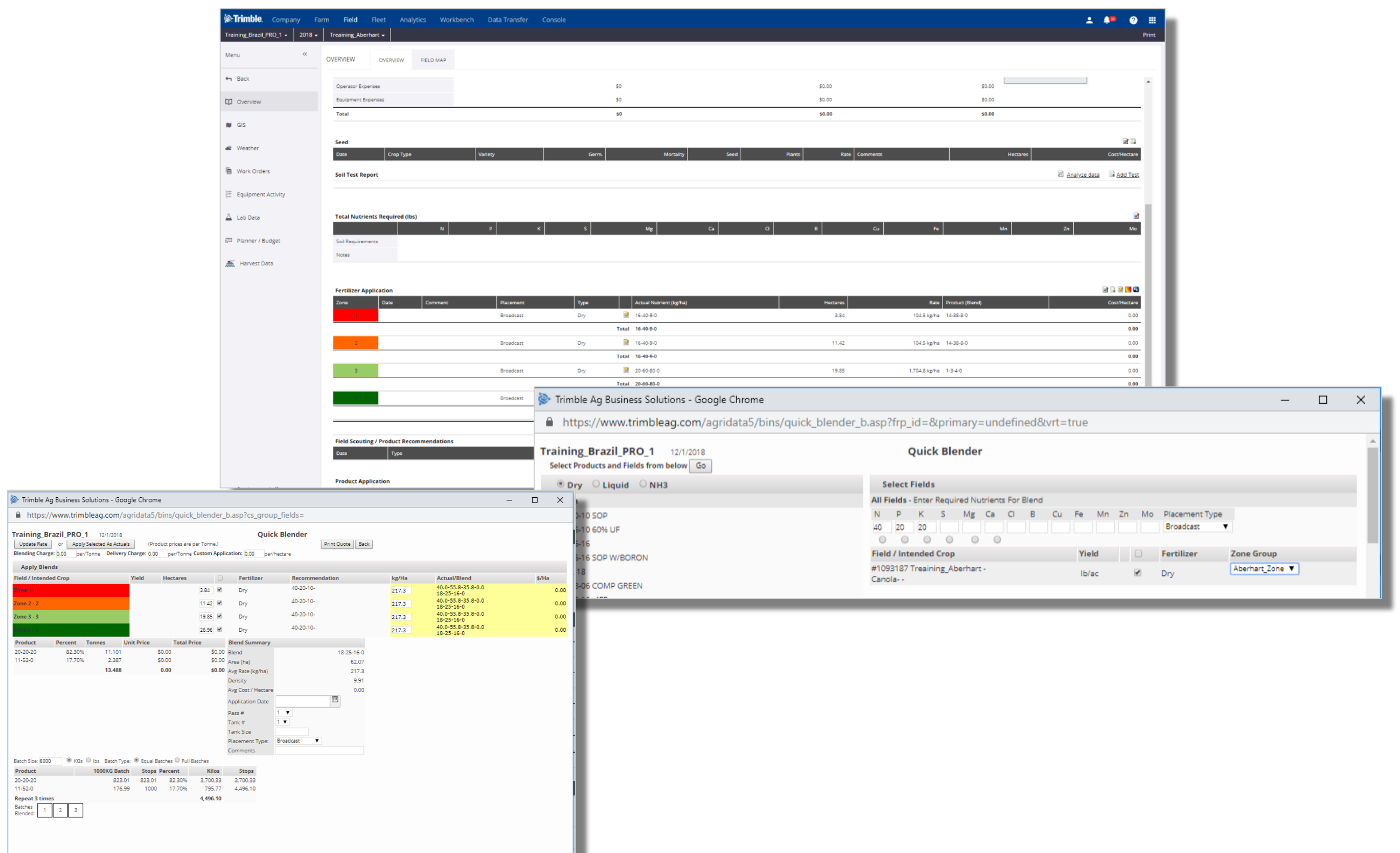
Zone ID	Color	Zone Name	Acres	Target Yield	Description	ENR
1	#DC5F00	Zone 1	1.49	50		
2	#E1870C	Zone 2	3.27	60		
3	#E5B70C	Zone 3	5.35	68		
4	#E8D00C	Zone 4	7.79	70		
5	#E2DB0C	Zone 5	33.93	72		
6	#C8D20C	Zone 6	13.53	75		
			65.36	70.95		


1. Before you start, make sure your Zones are set as Nutrient Zones.

- From Zone Import:
 - Click into a **field** > click **GIS** tab > click **Zone** tab within GIS
 - click **Manage** > click **Add Zone form Shapefile** > click **Choose files** > select the shp shx dbf and prj files for zones > click op
 - Enter zone name
 - Nutrient Zone: **Yes**
 - Zone ID Column : (select the zone id attribute)
 - click **Set Default Colors**
 - click **Create Zones**
- From Zone Edit:
 - Click into a **field** > click **GIS** tab > click **Zone** tab within GIS
 - click **Zone Edit**() button in upper far right corner of existing zone file
 - Nutrient Zone: **Yes**
 - click **Save**


Online | Prescriptions (Quick Blender)

FARMER PRO ONBOARDING



1. Go to **Field Profiler > Select Desired Field**, using the **Legacy Field Manager**, scroll down until **Fertilizer Application**
2. Click  on the right menu
3. Fill out your recommendation: **NPK = 20-20-40**
4. On the left, pick a **Product** for each nutrient
5. Select Form: **Liquid**
6. Right at the bottom of NPK, select the circle correspondent to the **Nutrient Driver: N**
7. Select Placement Type: **Broadcast**
8. Select the Zone Group: **Management Zone used for VRA**
9. Click: **Go**

At the next screen:

1. Select the **Zones** you want to run same blend
2. Select the **Pass** and **Tank** (If more than one blend is going to be used, make sure you change your Tank)
3. Click **Apply Selected as Actuals**
4. Repeat the steps for the other zones that will have a different blend.
5. Click at  on the Field Overview Screen to print a report and generate a PDF, or to generate a prescription file and send to connected vehicles.



0.4.e

Weather

Online | Premium Weather

FARMER PRO ONBOARDING



Objective: Learn how to use the Premium Weather feature

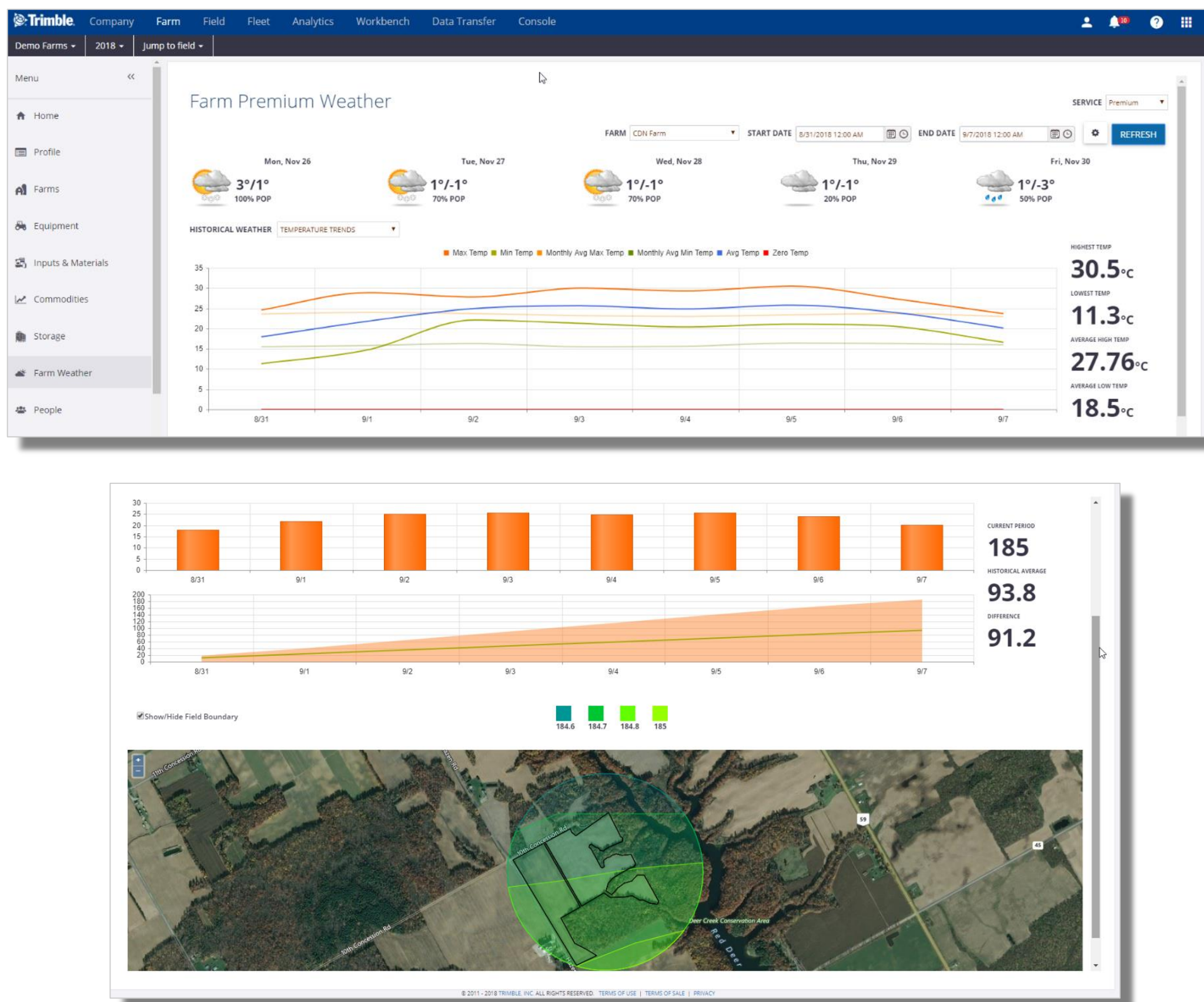
Hybrid of radar satellites and weather stations

- NA - 1km spatial res
- Central and Latam America - 4km spatial res
- Europe - 1km spatial res
- AUS - 1km spatial res
- Middle East - 4 km spatial res
- Western Russia - 4 km spatial res
- India - 4 km spatial res
- Remainder of Globe - 7km spatial res



Source: Weather Decision Technologies (<https://blog.weatherops.com/>)

Online | Premium Weather

FARMER PRO ONBOARDING



1. Click Farm > Farm Weather

- Service should be set to **Premium**
- Provides **current** and **historical** Farm Weather information over the **whole farm** and at the **field level**
- **Units of measurement** for Premium weather can be set through the **Person icon** () > **My Settings > Unit Systems** or **Customize Unit System** or can be temporarily changed using the **Gear icon** ().
- Current **5 day weather forecast** is located at the top of the Farm Weather page
- For **Historical Weather** records:
 - Select the Farm: **CDN Farm**
 - Select the Start and End Data: **Aug 31 2018 - Sept 7 2018**
 - Select a Historical Weather type: **Growing Degree Days**
 - click **Refresh**

2. Click Field > Weather

- Options are identical to the Farm Weather, just at an individual field level.

Online | Premium Weather (cont)

FARMER PRO ONBOARDING

Product Application

Application Type: Ground
 Sensitive Area: ☐ No ☐ Yes
 Applicator Name:
 Applicator Comments:
 Crop Stage:
 Spray Volume: 5 gal
 Applicator License No:

Product	Cost/Unit	Rate	Cost/Acre	Material	Comments	Target Pest	PHI	REI
Sortan IS	874	jug	80 ac/ju	10.93	0.82 jug			hours
ROUNDUP TRANSORB HC	6.13	l	0.66 l/ac	4.05	43.04 l			hours

Field ID: 867573 | Field Name: 13 | LLD: 2017-05-29 12:00 PM | Date - End: 2017-05-29 01:00 PM | Acres: 65.21 | Weather: Sunny | Temp: 65 °F | Wind Sp: 11 mph | Wind Dir: SE

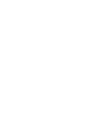
Field Scout
 13 Corn - RR - P7005AM 2017-05-12 [567 DAP] 65.21 ac 2018
 Fri Nov 30 01:54 PM
 Crop Stage: N0
 Crop Condition: 0 kmph
 Plant, Soil, Roots, Key Dates, Weeds, Insects, Diseases, Nematodes, Photos, Comments, Recommendations

Weather
 2° Cloudy
 Wind 13km/h E
 Humidity 76% Precipitation 0%
 03 PM 1° 0% ENE 8km/h
 04 PM 0° 0% ENE 9km/h
 Sunset 4:36 PM
 05 PM 0° 0% ENE 11km/h
 06 PM -1° 0% ENE 13km/h
 07 PM 0° 0% E 15km/h
 08 PM 0° 0% E 16km/h
 09 PM 0° 0% E 18km/h
 10 PM 1° 0% E 20km/h
 11 PM 1° 0% E 21km/h
 12 AM 2° 0% E 23km/h
 01 AM 2° 0% E 24km/h
 02 AM 2° 10% ENE 25km/h
 03 AM 3° 20% ENE 27km/h
 04 AM 3° 60% ENE 29km/h
 05 AM 3° 80% FNF 32km/h

Weather Restrictions
 Temperature: Min, Max
 Humidity: Min, Max
 Soil Temperature: Min, Max
 Wind Speed: Min, Max
 Notes

Hail Alert
 There has been a hail event in your area.
 Sample Farm Hail Alert Oct 12, 2017
 Map showing impact area and estimated moisture (0.50 in to 4.00 in)

1. Premium Weather add-on activates **Field Level** weather data for other areas of the software, like:
 - In-field Applications
 - Scouting
 - Work orders
2. In North America, Premium Weather activates Field level **hail alerts** that will be emailed to clients for each field that has been impacted by the event. The hail report also includes a map of the field, the area of impact and estimated moisture that fell on the field during the event



0.4.f

Imagery

Online | Crop Health Imagery

FARMER PRO ONBOARDING

Satellites	Collection/ month	Delivery cloud-free	Spatial Resolution
Landsat 8	8	3-4 on average	10 m
Sentinel 2A			
Sentinel 2B			

1. Color Infrared

False color composition
Used to ground truthing

2. Natural Color (RGB)

Original color composition as seen by our eye
Used to ground truthing

3. Vegetation Index (Calibrated)

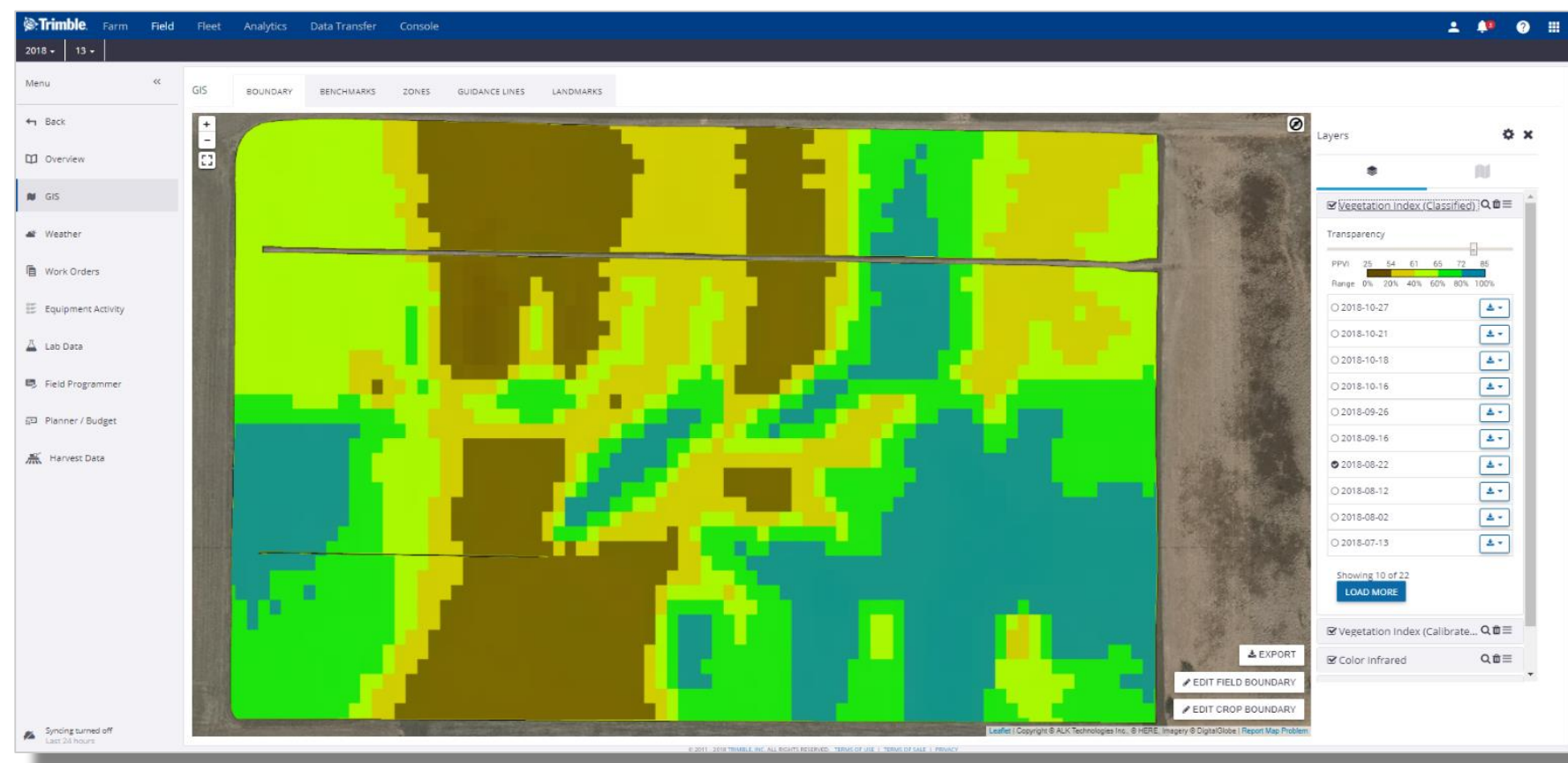
Multiple satellites cross-calibrated Veg Index
Used to monitor crop health

4. Vegetation Index (Classified)

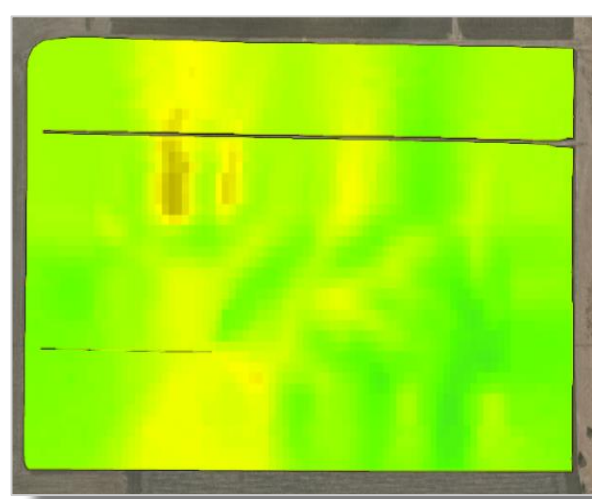
Vegetation index classified into 5 classes
Used for scouting and application

Online | Crop Health (CHI)

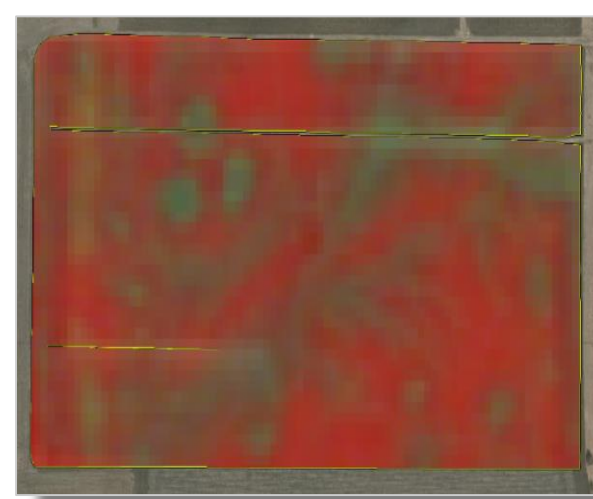
FARMER PRO ONBOARDING



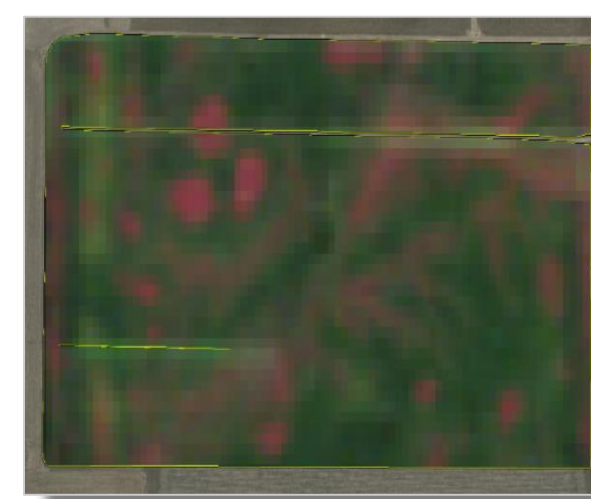
**Vegetation Index
(Calibrated)**





Color Infrared



**Natural Color
(RGB)**



1. Go to **Marketplace** > if it hasn't been added already search for **Crop Health Imagery: Less than 10,000 ac** and click **Add**
2. From a **Field**, click **GIS** tab
3. Under the **Boundary** tab:
 - Click **Layer** menu icon () > click **Gear** icon () > click **Crop Health Imagery** > check off **Vegetation Index (Classified)**
 - click the **layer name** > check off desired date: **2018-08-22**
 - toggle **Transparency** if desired
4. to download CHI layer:
 - click **dropdown** beside imagery date
 - click **shp** or **tif** to download imagery

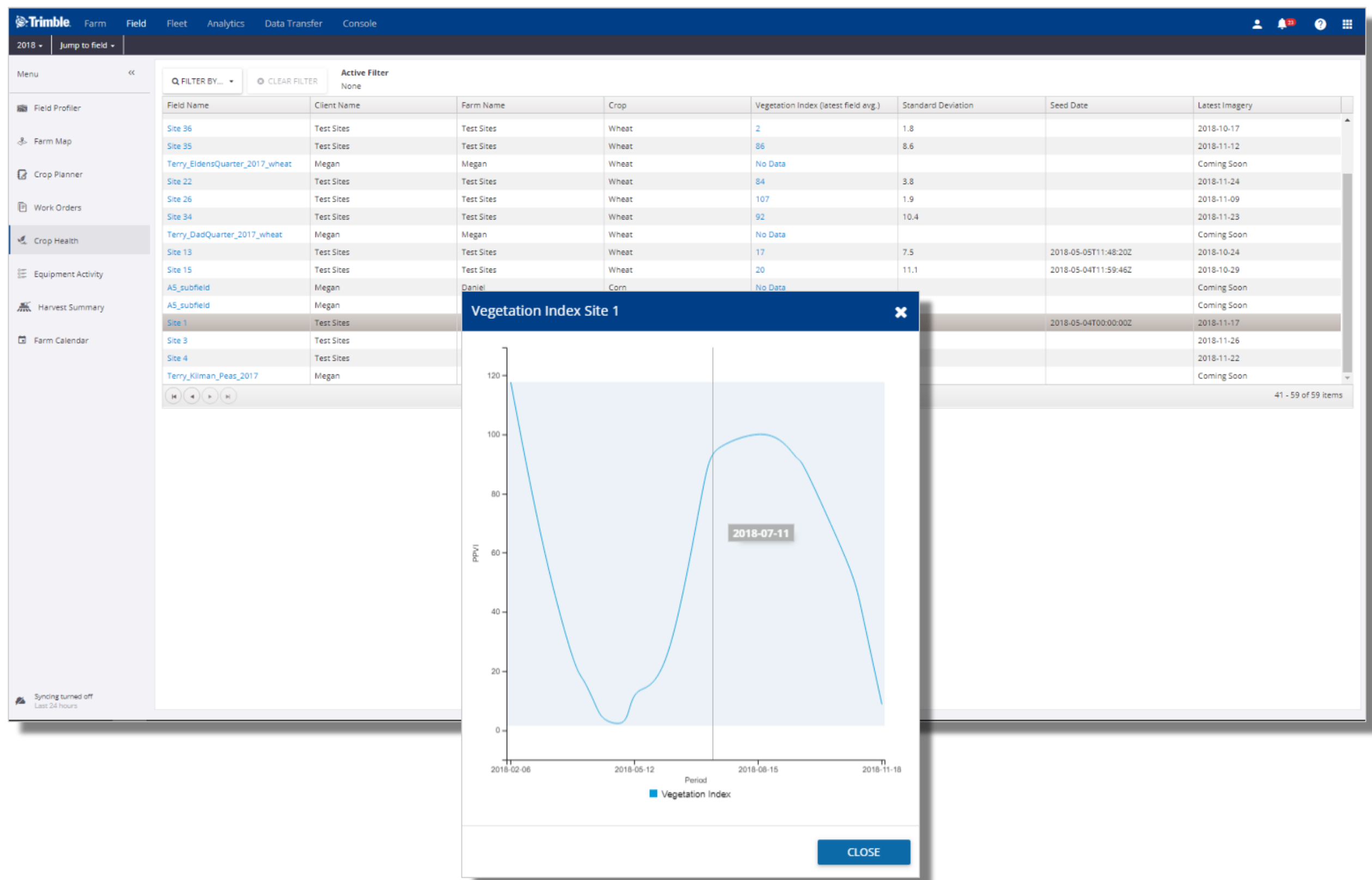
Note that CHI will start being collected for the field from the date you activate it in the Marketplace. The CHI feature does not collect historical imagery, so we highly recommend you activate this feature as soon as you log into the software to ensure you start collecting the imagery right away.



Watch this [video](#) to learn more.

Online| Crop Health Imagery

FARMER PRO ONBOARDING



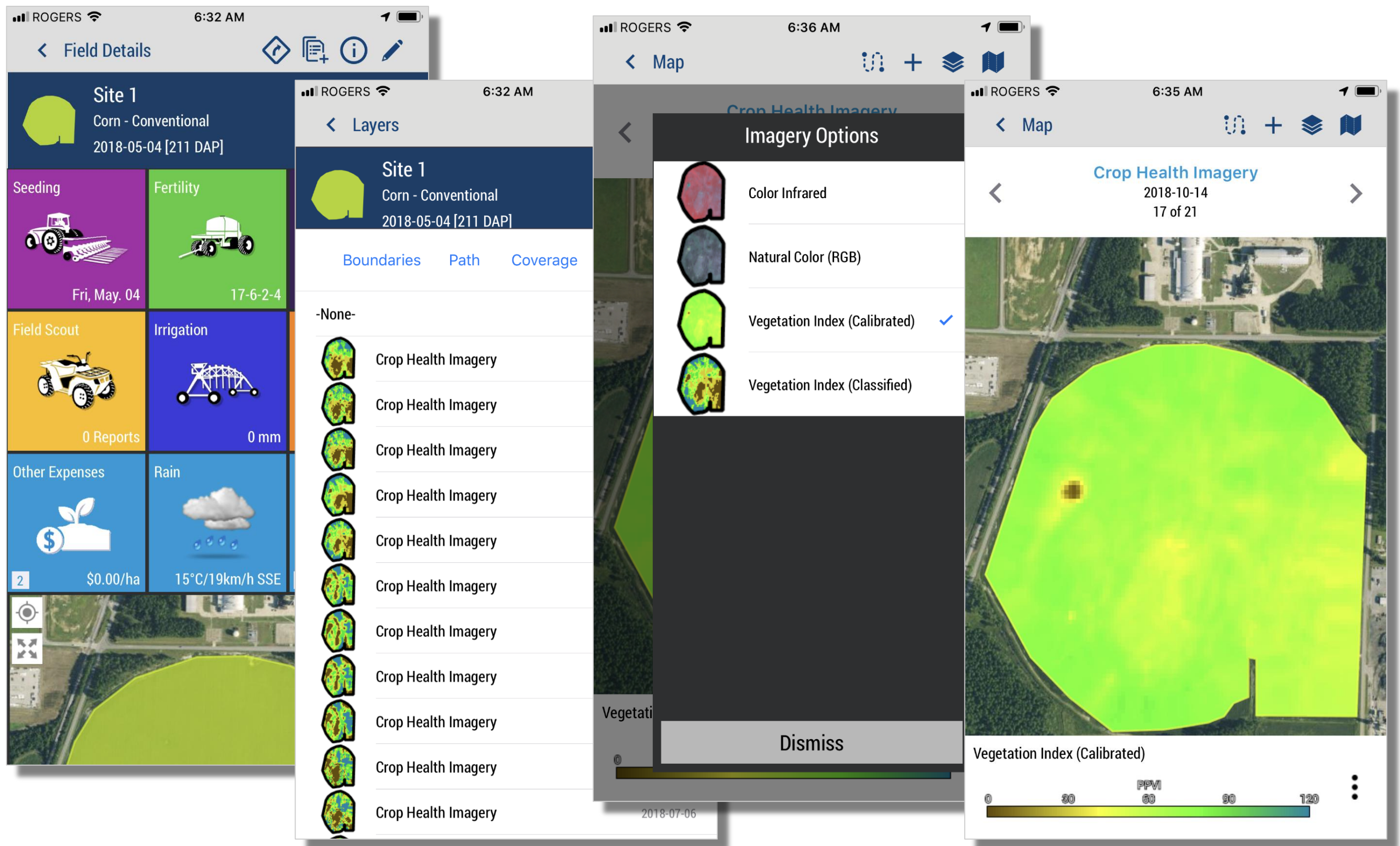
1. Go to menu **Field > Crop Health**
2. Sort information by the columns of interest
 - Standard Deviation will represent the variability of the field
 - Sort that column as decrescent to identify fields that have more variability
3. Click on the **Vegetation Index** Column of the field of interest to access the chart
4. Navigate through the bell shape to access the dates correspondent to the Vegetation Index average of the fields showed in the chart





Watch this [video](#) to learn more.

Mobile | Crop Health Imagery

FARMER PRO ONBOARDING



1. Tap into the **desired field** in the mobile app
2. Tap the **Map Expand** button
3. Tap the **Layers** button ()
 - Tap the **Imagery** tab
 - Tap the **desired imagery date**
 - Tap **Save**
4. Tap **imagery type** menu button ()
 - Select **Vegetation Index (Classified)**
5. Use the **Arrows** on top to scroll to previous or next days

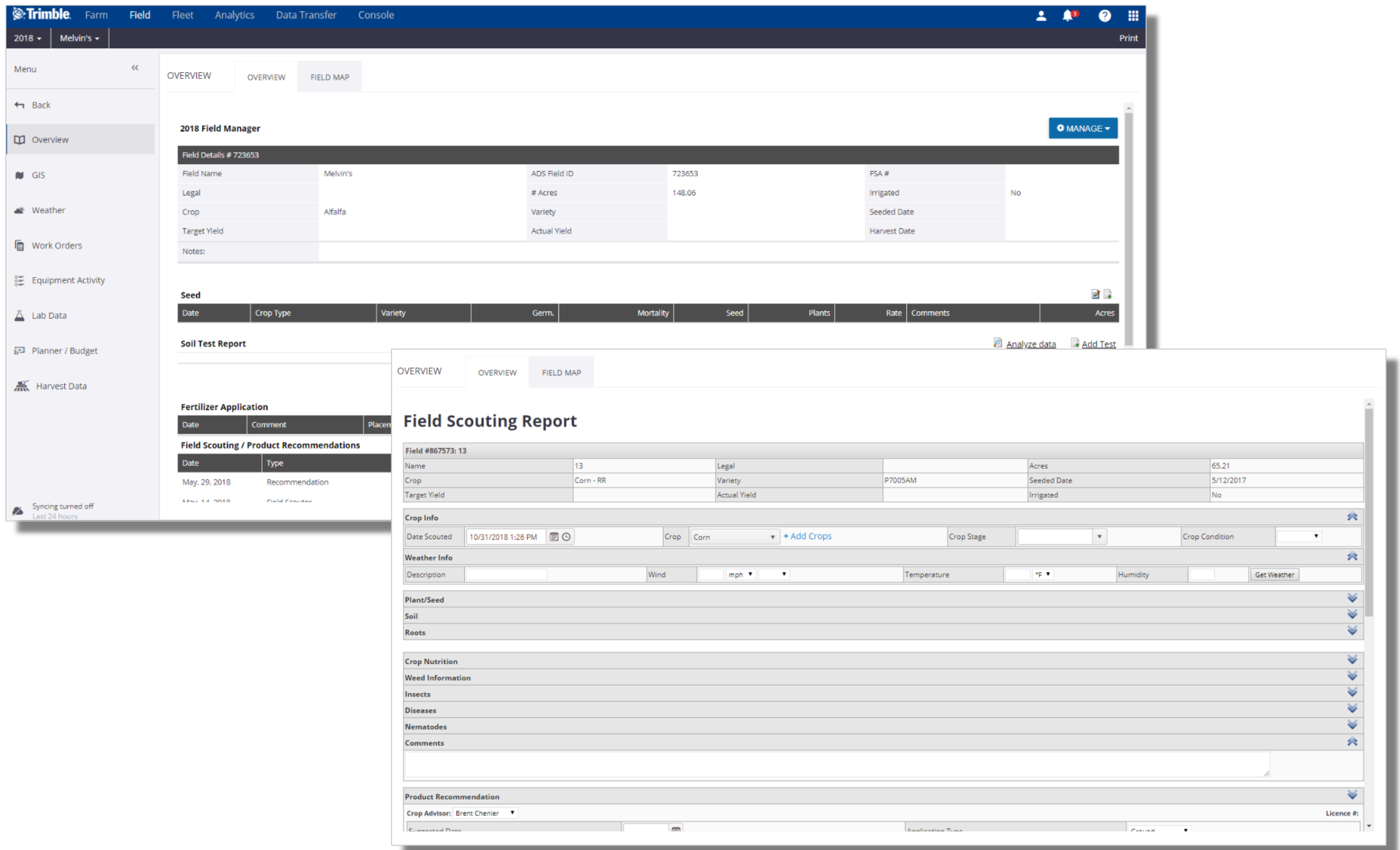
Note that CHI layers can be used in other areas of the mobile app like Scouting, to assist in identifying areas of concern.

0.4.e

Scouting





Online | Scouting

FARMER PRO ONBOARDING



1. From a fields **Overview** screen, scroll to the **Field Scouting/Product Recommendations** section > click the link on the far right called **Field Scouter/Product Rec.**
2. Scouting Date: Defaults to current day. Click **Calendar** to change
3. Enter **Crop Stage** and **Crop Condition** (Required)
4. Click **Get Weather** to pull weather data from scouting date
5. Enter applicable observations for:
 - Plant/Seed, Soil, Roots, Crop Nutrition, Weed Info, Insects, Diseases, Nematodes
6. **Upload** images under the **Photo** section
7. Enter **product recommendation** details, if applicable.
8. At the bottom, click **Save**, **Print** or **Delete** to finish.

For **existing** scouting reports, the buttons below do the following:

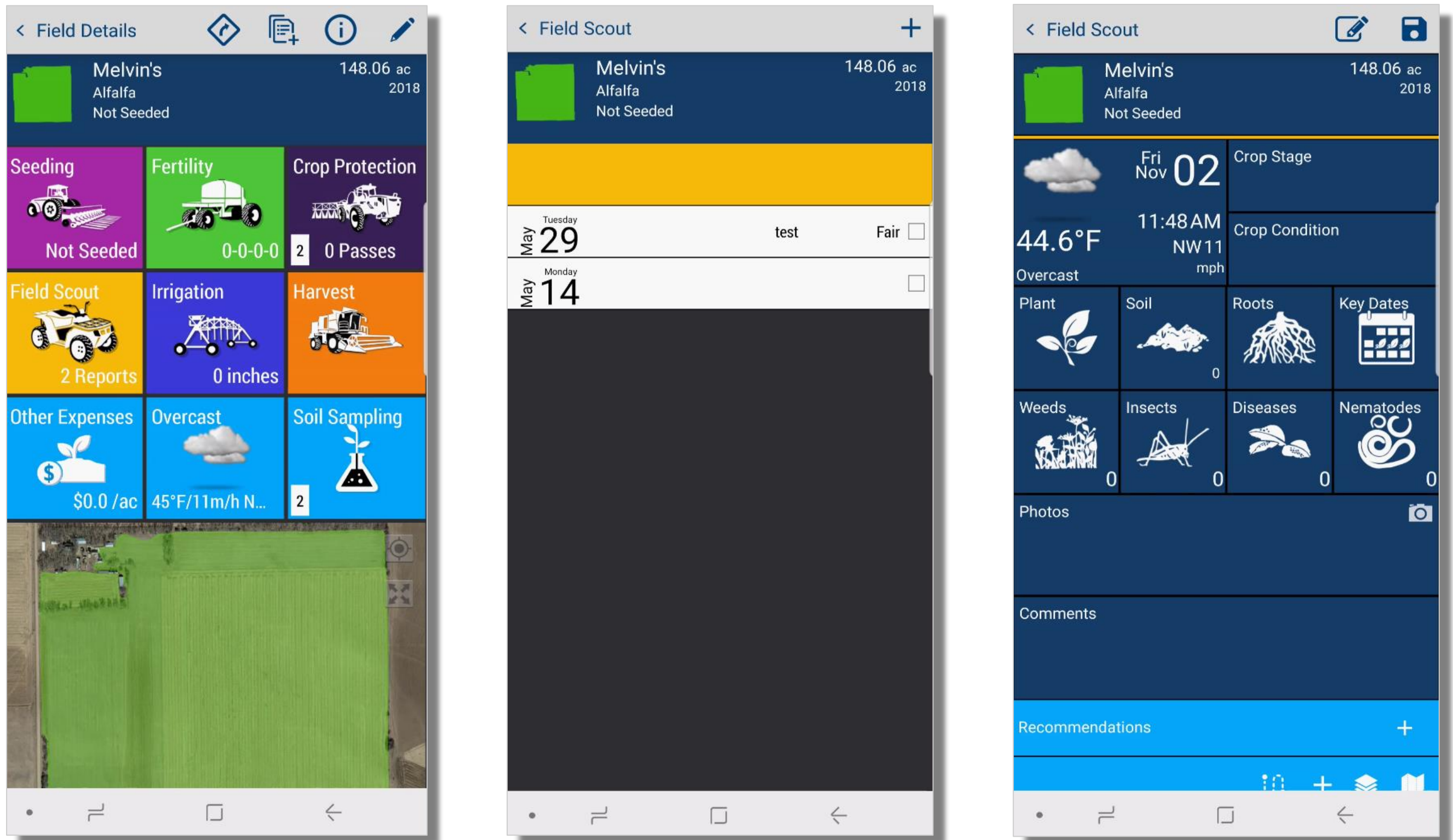
- () Preview the Scouting report
- () Edit the Scouting report
- () Product application report. Only active if recommendations are made
- () Download a PDF of the Scouting report




Watch this [video](#) to learn more.

Mobile | Scouting

FARMER PRO ONBOARDING

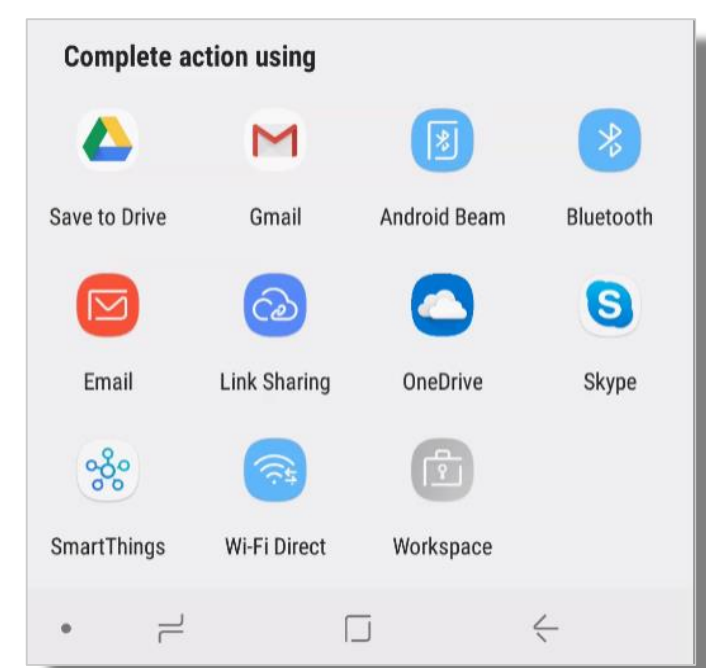
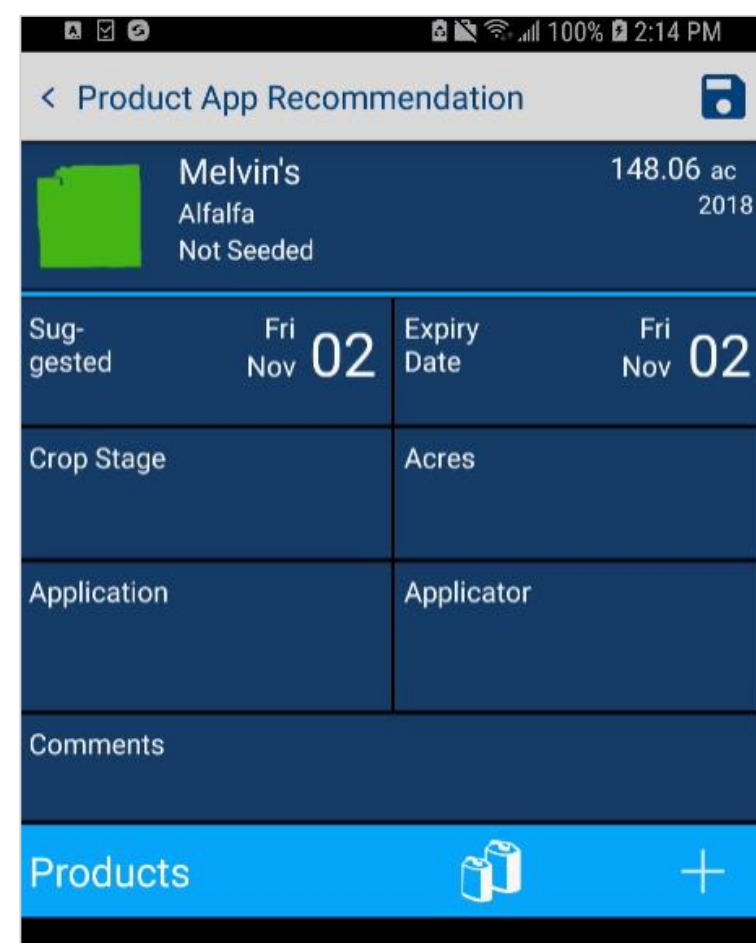
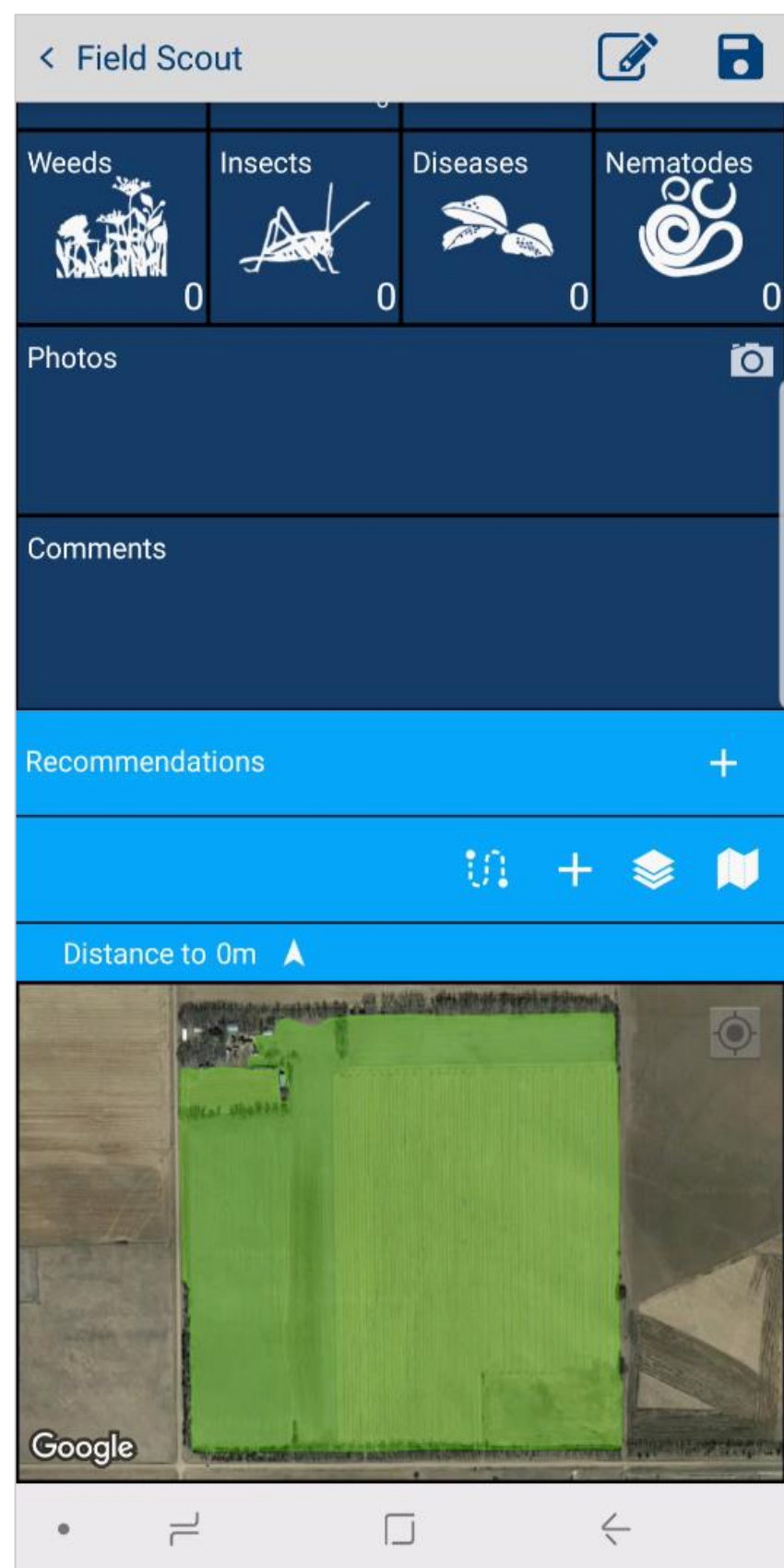


1. In your **Trimble Mobile App**, tap into the desired **field** > tap on the **Field Scout** tile
2. Tap on the (+) symbol to add a new report
3. Enter required information of **Crop Stage** and **Crop Condition**
4. You can track the **walking path** by tapping the path symbol () in the mapping area at the beginning of the **scouting event**
5. Enter applicable information for that scouting event into the additional tiles
 - a. **Plant, Soil, Roots, Weeds, Insects, Diseases, Nematodes, Key Dates**
6. **Weather** information from that day can be viewed in the upper left, and will be saved with that scouting event
7. Under **Photos**, tap the **Camera** icon to take a **live Photo** or **upload** one from your mobile device

Note that **walking paths** will show up on the PDF version of the scouting report.

Mobile | Scouting (cont.)

FARMER PRO ONBOARDING



1. Tap the (+) symbol beside **Recommendations** to add product recommendation details to the scouting event
 - Fill recommendation details
 - Add product by click the (+) beside **Products**
 - **Search** for desired product > tap **product** > **confirmation** or **edit** product details > tap **save** to add it to the recommendation
 - Tap **save**
2. Click the (+) symbol in the mapping area to drop a **benchmark** point over an area of concern > enter benchmark **title** and **description** > tap **checkmark** to save benchmark > repeat as needed
3. Tap **Save**

After syncing your mobile device, you would then be able to email out a PDF of this scouting report directly from your mobile device.

1. Go back into the **Field** > **field scout** > tap on the **Scouting event** > tap the **Pencil** icon > choose your preferred **email option** > enter details > tap **send**

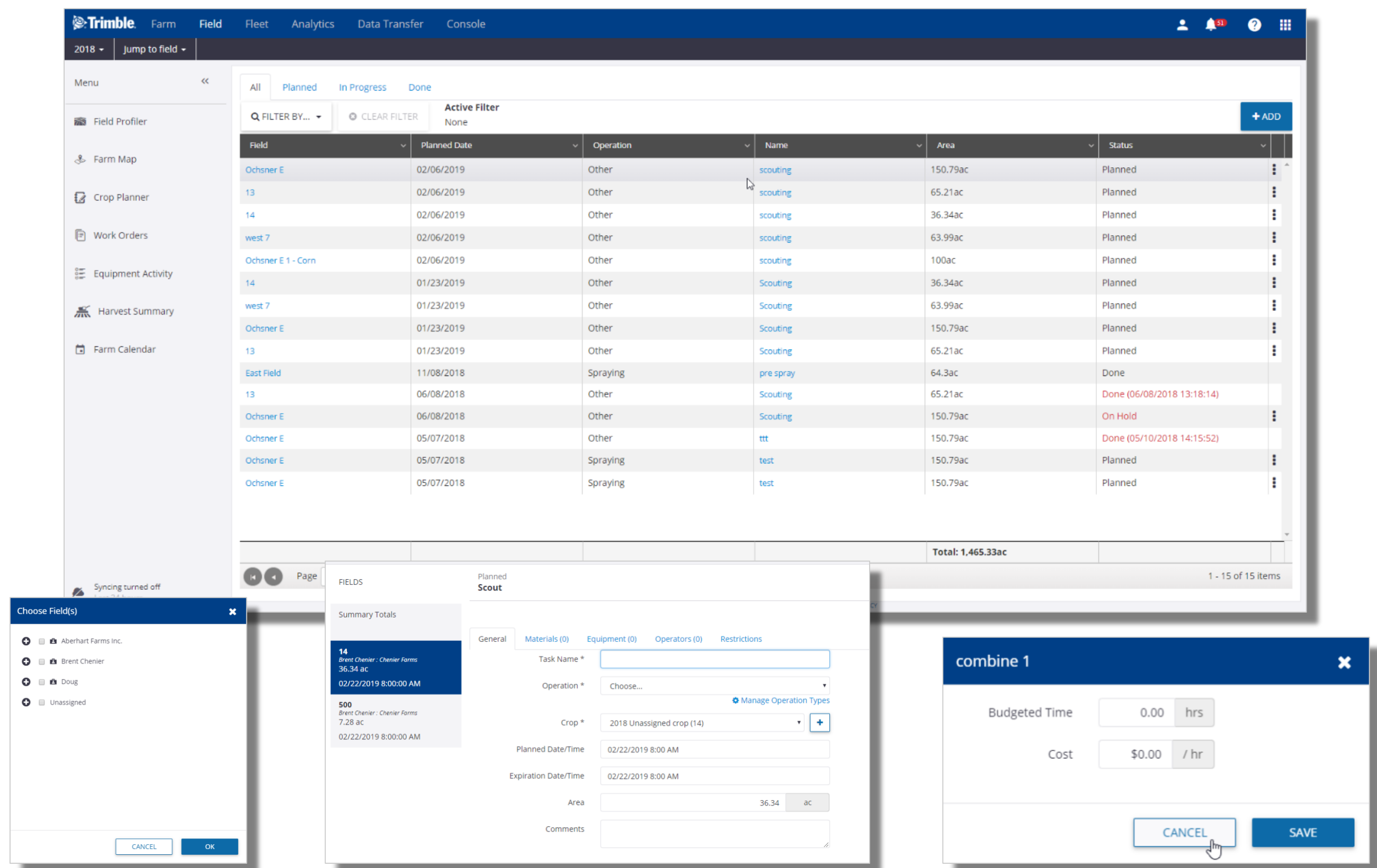


0.4.h

Work Orders

Online | Work Orders

FARMER PRO ONBOARDING



1. Go to **Marketplace** > if it hasn't been added already search for **Work Orders** and click **Add**
2. Click **Fields** > click **Work Orders** to access the Work Order section
3. You can review **Planned**, **In Progress** and **Completed** Work Orders by clicking on each tab at the top
4. To add new **Work Orders**, click the **+Add** button in the top right corner
 - a. **Check off** the fields you want included
 - b. Under the **Summary Total** column, you will see the selected fields listed.
 - c. Fill out the required fields in the **General** tab
 - i. For **Crop**, use the **Plus** symbol to add a new Crop if it does not already exist in the dropdown.
5. Click **Equipment** tab to add equipment to the Work Order
 - a. click **+Add**
 - b. Select **Implement** and/or **Vehicle**
 - c. **Check off** desired Equipment
 - d. click **Ok**
 - e. Once added, you can click on the piece of equipment to add a **Budget Time** and **Cost/hr**

***Note:** you are able to make customized selections for each field by selecting the specific field from the left column, i.e. each field could have a different operator assigned. Otherwise, the work order will be the same for all fields.*

Online | Work Orders (cont.)

FARMER PRO ONBOARDING

FIELDS

10

Brent Chenier - Farm 1

51.28 ac

02/22/2019 8:00:00 AM

Planned

Name

+ ADD

General

Materials (0)

Equipment (1)

Operators (1)

Restrictions

OPERATORS

Name	Budgeted Time	Cost
Doug Chaffer	0.00 hrs	\$0.00 / hr

FIELDS

10

Brent Chenier - Farm 1

51.28 ac

02/22/2019 8:00:00 AM

Planned

Name

General

Materials (0)

Equipment (1)

Operators (1)

Restrictions

Minimum Temp.	Maximum Temp.	Minimum Humidity	Maximum Humidity	Minimum Soil Temp.	Maximum Soil Temp.	Maximum Wind Speed
10 °C	35 °C	%	%	°C	°C	15 kph

Restrictions

Minimum Temperature

10 °C

Maximum Temperature

35 °C

Minimum Humidity

%

Maximum Humidity

%

Minimum Soil Temperature

°C

Maximum Soil Temperature

°C

Maximum Wind Speed

15 kph

Crop Stage

Comments

CANCEL

SAVE

- Click **Operator** tab to add operator to the Work Order
 - click **+Add**
 - Check off** the **Operator**. Note that the Operator must be setup ahead of time in the **People** section of the software.
 - click **Ok**
 - Once added, you can click on the Operator to add a **Budget Time** and **Cost/hr**
- Click **Restrictions** tab to add restrictions to the Work Order
 - click on any **unit of measurement** to open the restrictions window
 - Enter any applicable **restrictions**
 - click **Save**

Online | Work Orders (VRA)

FARMER PRO ONBOARDING

The screenshot displays the Farmer Pro software interface. In the background, a map of a field is shown with a yellow and orange VRA application plan. Overlaid on the map are two pop-up windows. The 'Select Material(s)' window on the left lists materials with their target rates. The 'Fertilizer Properties' window on the right allows for detailed configuration of the fertilizer application, including name, form, units, cost, and nutrient information. Below these windows, the 'Fertilizer 46-0-0' window shows application details like area, cost, rate, and placement, along with a 'Variable Rates' section for zone-based application.

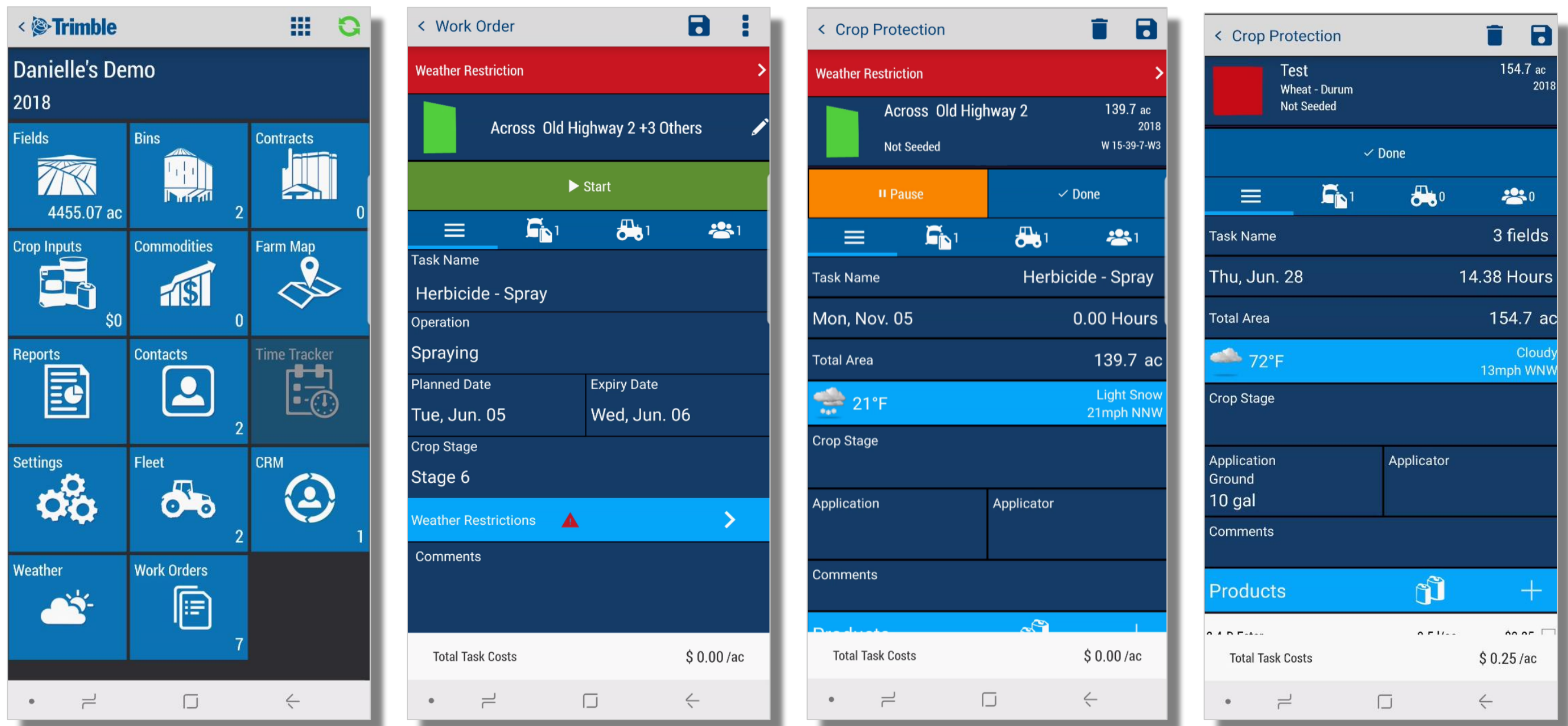
Name	Target Rate
11-52-0	0.000 lbs / ac
15-0-0-20	0.000 gal / ac
28-0-0	0.000 gal / ac
10-34-0	0.000 g / ac
brown nozzels	0.000 kg / ac

Zone	Rate	Units
1	15.00	lbs / ac
2	22.00	lbs / ac
3	25.00	lbs / ac
4	35.00	lbs / ac
5	45.00	lbs / ac
6	55.00	lbs / ac

1. Click **Material** tab to add Materials to the Work Order
 - a. click **+Add**
 - b. **Select** the desired material type
 - i. If the material does not exist in your material list yet, use the **+Create New** button at the bottom of the **Select Materials** pop out window.
 - c. click **Add**
 - d. fill in the remaining details of the product application
 - e. click **OK**
2. For **VRA Fertilizer** applications, complete the workflow above in addition to the steps below. Note that you must have uploaded or created a zone file in the software to use this feature.
 - a. When entering the fertilizer application details, select **Variable Rate**
 - b. under the new **Variable Rates** section, choose the desired **Zone** set
 - c. Manually enter the **Rate** details for each zone
 - d. click **OK**
3. Click **Save** to complete the **Work Order**

Mobile | Work Orders

FARMER PRO ONBOARDING



1. Go to **Marketplace** > if it hasn't been added already search for **Work Orders** and click **Add**
2. From the Farm level, tap the **Work Orders** tile
3. Tap **+** to add a new **Work Order**
 - a. Tap **+ Add Fields** to include 1 or more fields to this work order
 - b. Task Name: **Herbicide - Spray**
 - c. Operation: **Spraying**
 - d. Planned/Expiry date: **06/05/2018 - 06/06/2018**
 - e. Crop Stage: **Stage 6**
 - f. (Optional) **Weather Restriction** (provides an restriction warning for the Operator when they open the Work Order)
 - i. Wind Speed: **6 MPH**
 - g. (Optional) Add **Vehicle/Implements, Materials and Operators**
 - h. click **Save**
4. To start a task, tap **Work Orders** > tap a **task** > tap **Start**
 - a. (Optional) tap **Pause** and **Resume** when needed
5. Tap **Done** when task is complete


Mobile | Work Orders (VRA)

FARMER PRO ONBOARDING

Zone	Rate	Units
1	100	lb/ac
2	200	lb/ac
3	300	lb/ac
4	400	lb/ac

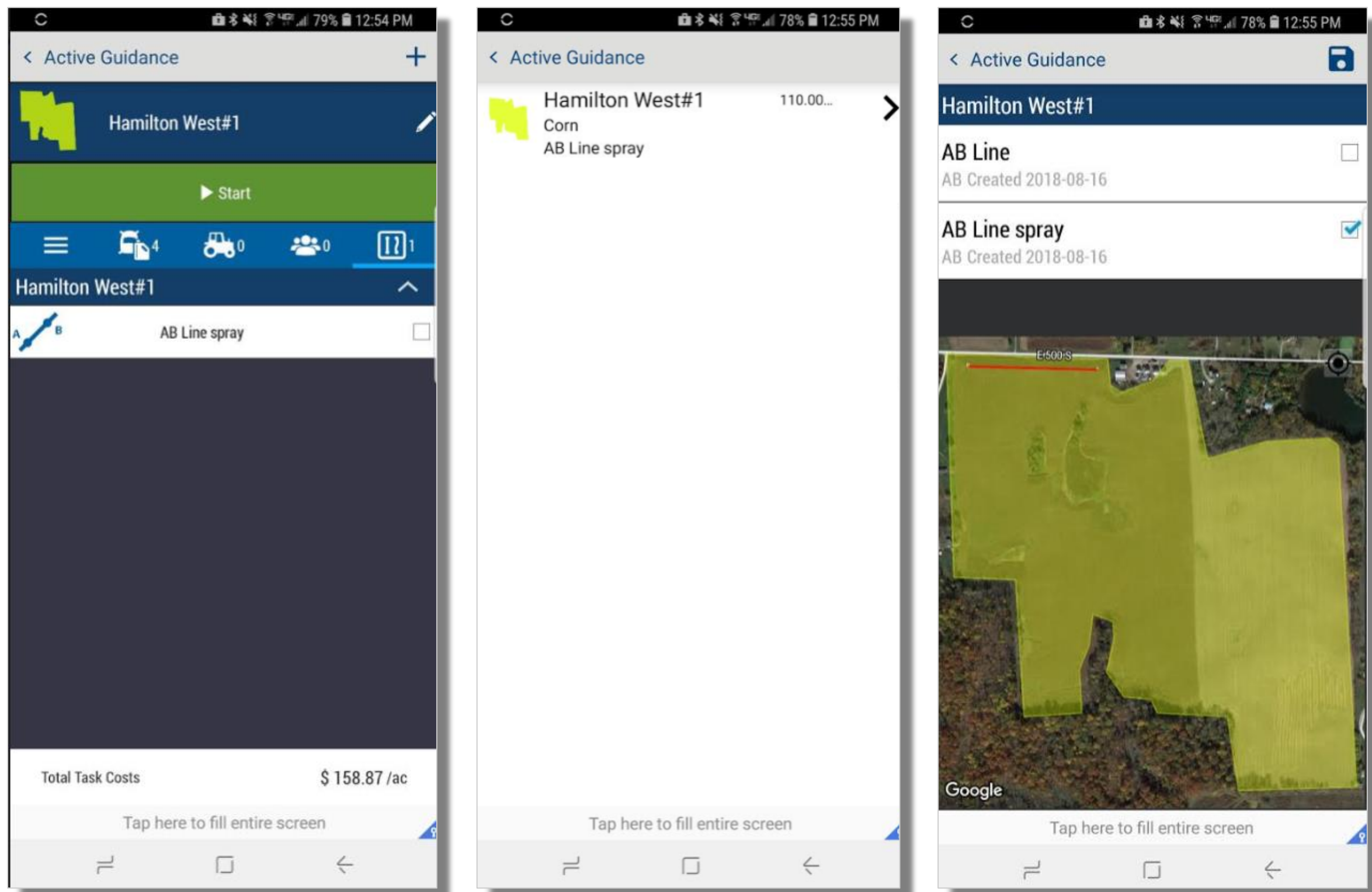
When you add a Fertilizer to a Work Order there is now a “Variable Rate” option. Selecting this option allows you to select a Zone Map and enter a rate for each zone. These VRA maps are used in Precision IQ when the operator selects the Work-Order. Please note that you must have a Zone file uploaded for the field to use this feature and VRA Fert work orders can only be done 1 field at a time.

Adding VRA Fertilizer to a Work Order:


1. Select **field**
2. Operation: **Spreading**
3. Tap the **Materials** icon ()
4. Tap **Plus** symbol beside Fertilizer
5. Tap **Fertilizer Single Product**
6. Fill in applicable details for Fertilizer application. Required items are **Fertilizer**, **Pass#** and **Tank #**
7. Select **Variable Rate**
8. Select appropriate **Zone** from **dropdown**
9. Tap **Rate** column for each zone and manually enter **Rate** and **Unit**
10. Tap **Save** icon in top right
11. Fill out any additional details about the Work Order and tap **Save** to complete **Work Order**.

Mobile | Work Orders (Guidance Lines)

FARMER PRO ONBOARDING



Using Guidance Lines in a Work Order:

1. While setting up your Work Order, tap the **Guidance Line** icon ()
2. Tap the **Plus** symbol in the top right corner
3. Tap the **Field** you wish to add the **guidance line** to
4. **Check off** the appropriate guidance line
5. Tap **Save**
6. Tap **back** button in top left
7. Continue filling out the rest of the Work Order
8. Tap **Save** in the top right corner

When you create a Work Order there is now a Guidance Lines tab where you can select the guidance line(s) that will be included with the work order. When the work order is loaded in Precision IQ the operator will only see the lines that are included in the work-order.

0.5

Other Features

Online | Time Tracker

FARMER PRO ONBOARDING

PEOPLE CONTACTS PARTNERSHIPS

Contact Properties

UPDATE PHOTO

First Name * Brent

Last Name Chenier

Job Title

Email Brent.Chenier@trimble.com

Phone System Access Time Tracker Equipment Operator

☒ Can Access System

Email * Brent.Chenier@trimble.com

☐ E-mail this contact to let them know they have access

☒ Web and Mobile

☒ Financial Access

☒ Organization Administrator

☒ Operator Manager

☐ Mobile Only

☐ Time Tracker only

☐ Limited web access, no mobile

Mobile Security

Resource	Year	Permission
Time Tracker Admin	(All Years)	Edit
Time Tracker	(All Years)	Edit

+ ADD PERMISSION

CANCEL SAVE

Time Tracker

Search GO!

Nov 01, 2018 Nov 30, 2018

+ Timesheets

Brent Chenier

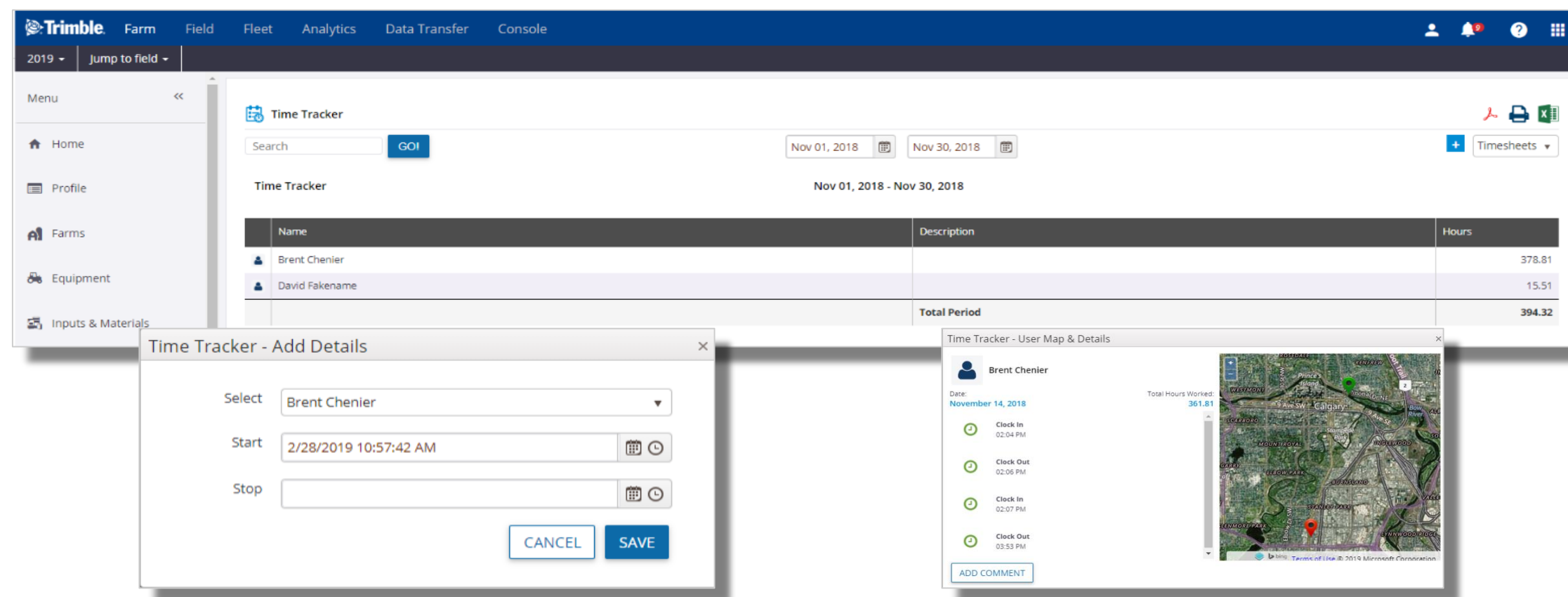
Nov 01, 2018 - Nov 30, 2018

Date	Hours
November 12, 2018	8.00
November 13, 2018	9.00
November 14, 2018	361.81
November 30, 2018	0.01
Total Period	378.81

1. To purchase Time Tracker through your Trimble Ag Software
 - click Marketplace > click **ADD \$349/12 Month** to add it to your shopping cart > click **Shopping Cart** and follow instructions
2. For **Time Tracker Admin**, click **People** > **Systems Access** tab > **+ Add Permissions** under mobile security
 - Add **Time Tracker Admin** and **Time Tracker** as resources
 - i. Year: **All**
 - ii. Permission: **Edit**
3. For **Time Tracker** users, click **People** > **Systems Access** tab
 - Select **Time Tracker Only**, for those who will only use the mobile app for time tracker
 - click **People** > **Systems Access** tab > **+ Add Permissions** under mobile security
 - i. Add **Time Tracker** as resources
 1. Year: **All**
 2. Permission: **Edit**
 - click **Time Tracker** tab > click **+Add**
 - i. Add **Start** and **End** date of employment
 - ii. Add a **Wage**

Online | Time Tracker

FARMER PRO ONBOARDING



Time Tracker - Add Details

Select: Brent Chenier

Start: 2/28/2019 10:57:42 AM

Stop:

CANCEL SAVE

Time Tracker - User Map & Details

User: Brent Chenier

Date: November 14, 2018

Total Hours Worked: 361.81




Map showing location history.

Time Tracker

Client: Brent Chenier
Year: 2019

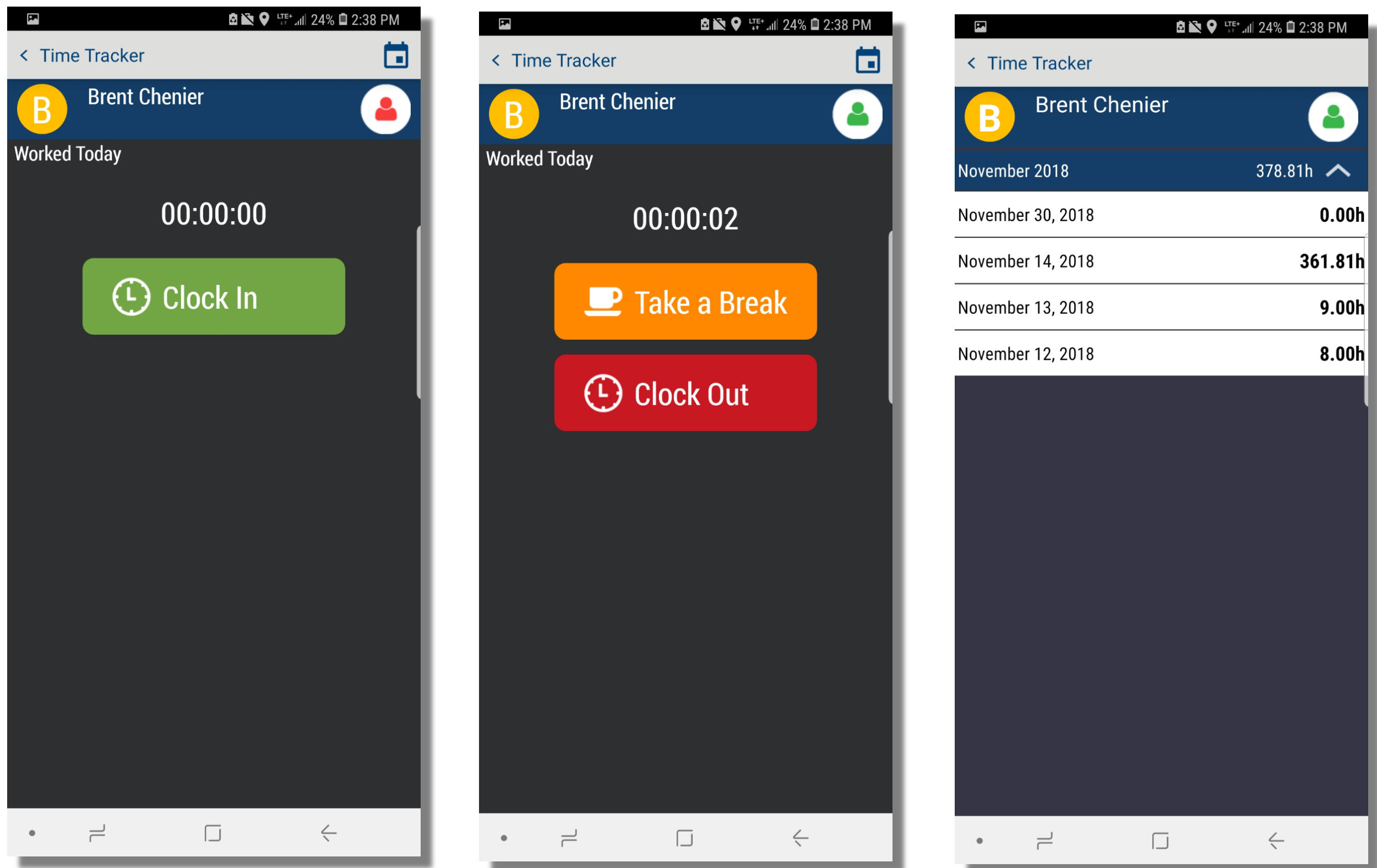
Dec 30, 2017 - Feb 28, 2019

Date	Hours	Wage	Payable
March 28, 2018	0.01	20.00	0.11
November 12, 2018	7.50	20.00	150.00
November 13, 2018	8.00	20.00	160.00
November 14, 2018	5.01	20.00	100.19
Total Period	20.51		410.29

1. To review/edit/print reports for **Time Tracker** entries online, click **Farm > Time Tracker**
2. Use the **Calendars** at the top to identify a **date range**
3. The default table will show a list of all **Farm Contacts** and their **total hours** documented.
4. Click the blue (+) in the top right to manually enter a time tracker entry for a **Farm Contact**
5. Use the dropdown to switch between **Timesheet** and **Payables**
 - **Timesheet** Includes: Name, Contact Description, Total Hours
 - **Payables** include: the above items plus Wages and Payables
6. Click on a **Farm Contact** to view a **summary** of their hours. You can use the same **Timesheet** and **Payable** dropdown for different views.
7. If you click on a **specific date**, a pop out window will show the clock in and out times as well as a **map** showing the **locations** of each.
8. Time Tracker **reports** can be Downloaded in **PDF**(), **CSV** () or **Printed** ().

Mobile | Time Tracker

FARMER PRO ONBOARDING



1. In the Mobile app, tap the **Time Tracker** tile
 - Tap **Clock In** to start time tracker
 - Tap **Take A Break** to pause time tracker for things like lunch breaks
 - i. Tap **Resume** to continue time tracker
 - Tap **Clock Out** to stop time tracker for that day.
 - Tap the **Calendar** icon in the top right corner (📅) to review your time tracker usage

0.6

Post-season Reports and ROI Analysis

Online | Reports

FARMER PRO ONBOARDING

The screenshot displays the Trimble Farmer Pro Onboarding interface. The top navigation bar includes 'Farm', 'Field', 'Fleet', 'Analytics', 'Data Transfer', and 'Console'. The 'Analytics' tab is selected, leading to the 'Report Builder' section. The 'Report Builder' section has a 'Select Report' dropdown with options: Seed Reports, Fertilizer Reports, Pesticide/Product Reports, and Financial Reports. The 'Report Options' section includes 'Soil Placement Application Summary', 'Show Pricing' (Yes/No), and 'Include Field ID'. A 'GENERATE REPORT' button is present. Below these is a table of fields with columns: XIR, ID, Field Name, Location, Acres, Crop - Desc, and Variety. The table lists fields like '13', 'East Field - Corn', 'East Field - Soy', 'Ochsner E', 'Ochsner E 1', and 'West 7'.

The 'Field Manager' section shows details for field # 867573, including field name, acres, variety, and target yield. It also displays a 'Seed' table with columns: Date, Crop Type, Variety, Germ, Mortality, Seed, Plants, Rate, Comments, Acres, and Cost/Acre. The 'Fertilizer Application' table shows columns: Date, Comment, Placement, Type, Actual Nutrient (lb/ac), Acres, Rate, Product (Blend), and Cost/Acre. The 'Product Application' section shows details for May 29, 2017, and July 01, 2017, including product, PCP #, Cost/Unit, Rate, Comments, Target Pest, PHI, REI, and Cost/Acre.

The 'Home 1 - 041318 - Done' report shows a coverage map and details for the Home Farm. It includes a table of chemicals with columns: Chemicals, Acres, EPA #, Actual Rate, Target Pest, Comment, Quantity, and Cost/ac. The table lists chemicals like Strut, Atrazine 4L, LV 6, AM5, Durango, and Surfactant. It also includes a table of equipment with columns: Operator, License, Duration, Cost/hr, and Cost/ac. The 'Conditions' table shows Temperature at 55.00°F.

1. Click **Analytics > Reports**
2. Click each **category** to access specific reports
3. Sample Report:
 - click **Field Manager Reports**
 - i. click **Print Field Manager**
 - ii. check off
 1. Show Costs: Yes
 2. Seed Application
 3. Fertilizer Application
 4. Product Application
 5. Expense Breakdown
 - iii. check off **Fields** you want the report run on
 - iv. click **Generate Report**
4. If application information is uploaded via equipment activity, you can also print a **Proof of Placement** report for infield applications, which would also include the uploaded coverage map.
 - After **verifying** the task in equipment activity, go to **Field > Overview**, for the desired field.
5. Click on the **clipboard** icon (📋) next to the application

Online | Harvest Data / Profit Maps

FARMER PRO ONBOARDING

The screenshot displays the Trimble Farmer Pro software interface. The top navigation bar includes tabs for Company, Farm, Field, Fleet, Analytics, Workbench, Data Transfer, and Console. The left sidebar contains a menu with options like Field Profiler, Farm Map, Crop Planner, Work Orders, Equipment Activity, Harvest Summary (selected), Farm Calendar, and Farm Nutrient Manager. The main content area is divided into two sections: '2017 Harvest Summarizer' and 'Harvest Data'.

2017 Harvest Summarizer

Field ID	Field Name	Crop - Desc. - Variety	Seeded Acres	Harvest Date	Acres	Actual Yield	Total Yield	Comments	>>	Sale Price
893728	Adel Park - Corn		100							
893728	Adel Park - Soybeans									
893729	Anderson's									
893730	B.K. Home SO.									
893731	B.K. & Merical									
893732	Blake's									
893733	Boyer									
893734	Brodericks									
893735	Bruce Kent									
893736	Butterbaugh									
893737	Callan									
893738	Carter's									
893739	Charlie's									
893740	Chew									
893741	Connollys									

Harvest Data

Harvest Summary

Yield Data

Harvest Date: 10/25/2017
Actual Yield: 69.37 bu/ac
Sale Price: 3.45
Comments:

Acres: 65.35
Total Yield: 4533.40 bu
% Moisture:

Field Area: 65.21 ac Target Yield: 65 bu/ac

Yield Map

Yield (bu/ac)

Zone	Acres	CPI	Tar. Yield	Yield	Cost	CPI/P	Profit
1	1.49	88.07	65.00	76.81	\$156.71	\$2.04	\$108.28
2	3.27	91.73	65.00	82.95	\$156.71	\$1.89	\$129.47
3	5.35	96.53	65.00	92.57	\$156.71	\$1.69	\$162.65
4	7.79	98.87	65.00	88.96	\$156.71	\$1.76	\$150.21
5	33.93	100.78	65.00	77.43	\$156.71	\$2.02	\$110.42
6	13.53	103.10	65.00	86.12	\$156.71	\$1.82	\$140.42
Total	65.36 ac	99.94	65.00 bu/ac	82.10 bu/ac	\$156.71/ac	\$1.92	\$126.55/ac

Yield Map PDF Profit Map PDF

Bin Profiler

Source	Location	Amount	Time
		0.00	

Step 2

The screenshot shows the 'Field Zones' configuration screen. It includes a 'Zone Name' field with the value 'Zone Sample 1', a 'Nutrient Zone' dropdown set to 'Yes', and a 'SAVE' button. Below this is a table with columns for Zone ID, Color, Zone Name, Acres, and Target Yield.

Zone ID	Color	Zone Name	Acres	Target Yield
1	#FF0000	1	1.49	65

1. Click **Field** > **Harvest Summarizer** > enter harvest data for all fields applicable > Click **Save**
2. (Optional) Setup for **Zone Analysis**
 - From **Field Overview**, click **GIS** tab > click **Zone** tab > click **Edit** icon () for desired zones > Nutrient Zone = **Yes** > click **Save**
3. From **Field Overview**, click **Harvest Data** tab
 - Yield Stats:
 - i. Enter Harvest Date: 10/25/2017
 - ii. Acres: 65.35
 - iii. Actual Yield: 69.37 bu/ac
 - iv. Total Yield: 4533.40
 - v. Sale Price: \$3.75
 - Yield Map:
 - i. Choose Fields: select .shp, shx and dbf files for yield > **Open**
 - ii. Choose Yield attribute from dropdown (name may vary): **Yld_Vol_Dr**
 - iii. click **Process**
 - click [Yield Map PDF](#) and [Profit Map PDF](#) buttons to generate the respective reports > click **Report Hyperlinks** once ready

Note that Cleaned Yield Calibrated mapping layer will automatically flow into this section once the Harvest Task is verified.

Online | Proof of Placement Reports

FARMER PRO ONBOARDING

The screenshot displays the Trimble Farmer Pro Onboarding interface. The top navigation bar includes 'Farm', 'Field', 'Fleet', 'Analytics', 'Data Transfer', and 'Console'. The left sidebar shows a 'Menu' with options like 'Back', 'Field Manager', 'GIS', 'Weather', 'Equipment Activity', 'Lab Data', and 'More'. The main content area shows 'Completed Activities' for 'Brian Field' (Brian Stark: Stark Farm, 44.4 Acres). A table lists activities, with one highlighted: 'Fertilize Spreading' on 02/07/2019, covering 48.46 ac at a cost of \$120.87. A red box highlights the options menu for this activity, which includes 'View Summary', 'View Report', 'Edit', and 'Delete'. A red arrow points from the 'View Report' option to a detailed view of a corn planting activity.

500b - CORN PLANTING 5-13-16 - Done

MAIN STATION
Brent Chenier - Core Planting

Start: 05/13/2016 11:53 AM
End: 05/13/2016 1:00 PM

2.69 ha

Farm: Field
Seeded Date: 05/12/2016 8:00 PM
Crop: Corn
Variety: DEKALB DKC43-48RIB

Comments:

Seed	Variety	Hectares	Actual Rate	Quantity	Cost/ha
Corn	DEKALB DKC43-48RIB	2.69	83,549.78 lb/ac	224.42 kS	0.00

Equipment	Hectares	Cost/hr	Cost/ha
Tractor 1	2.69	0	0.00
MONOSEM	2.69		0.00

Total Cost/ha 0.00

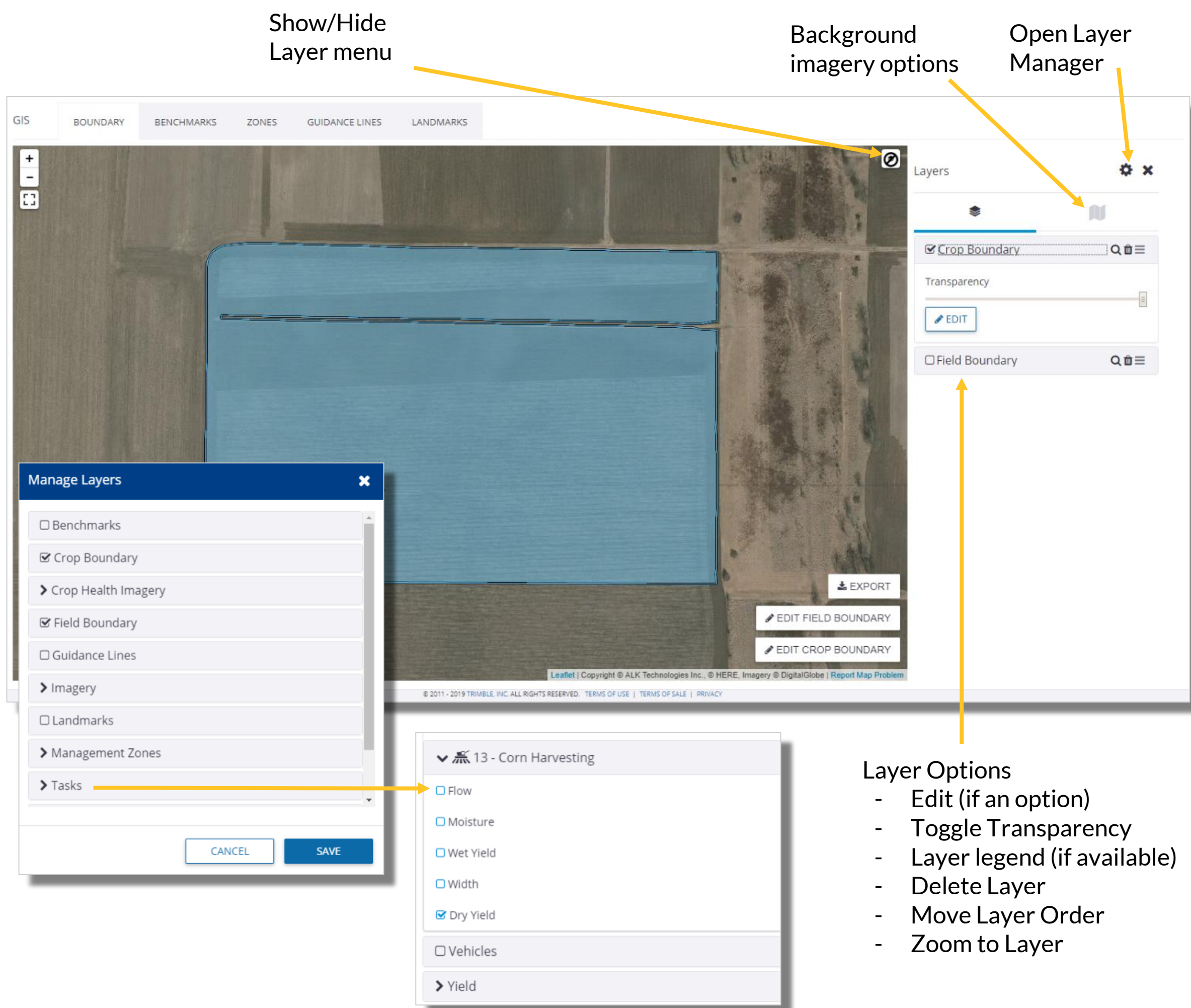
1. If application information is uploaded via equipment activity, you can also print a **Proof of Placement** report for infield applications, which would also include the uploaded coverage map
 - After **verifying** the task in equipment activity, go to the **Field Manager**
2. Click **View Report** from the options button for that activity

0.7

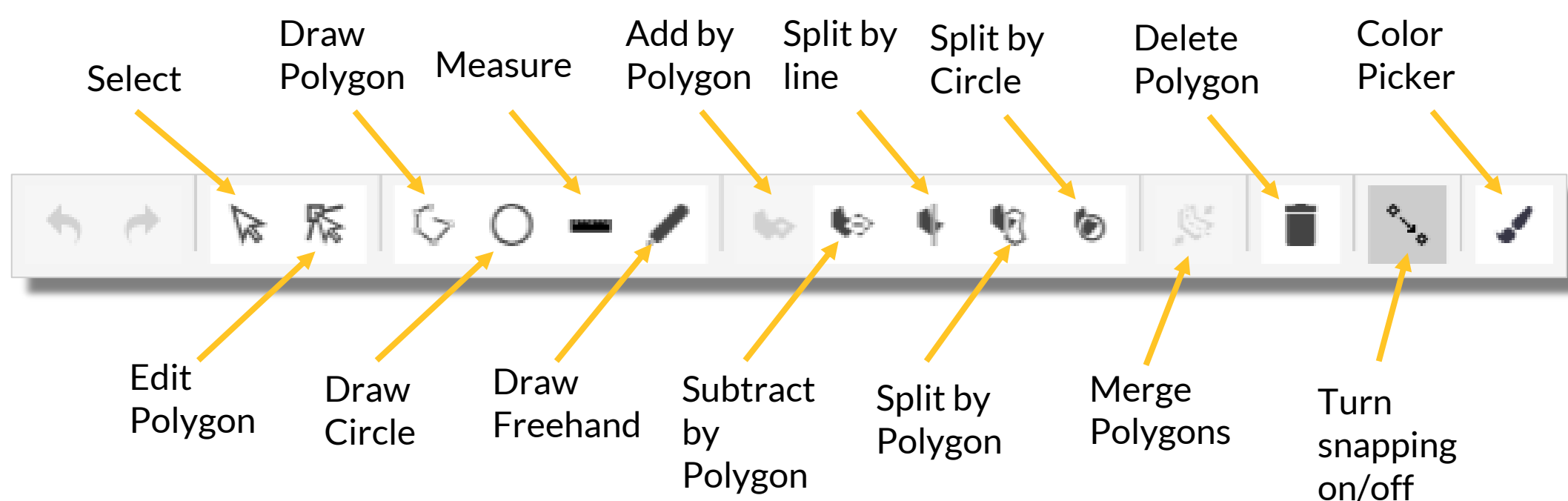
Coverage Maps and Guidance Lines

Online | GIS tools

FARMER PRO ONBOARDING

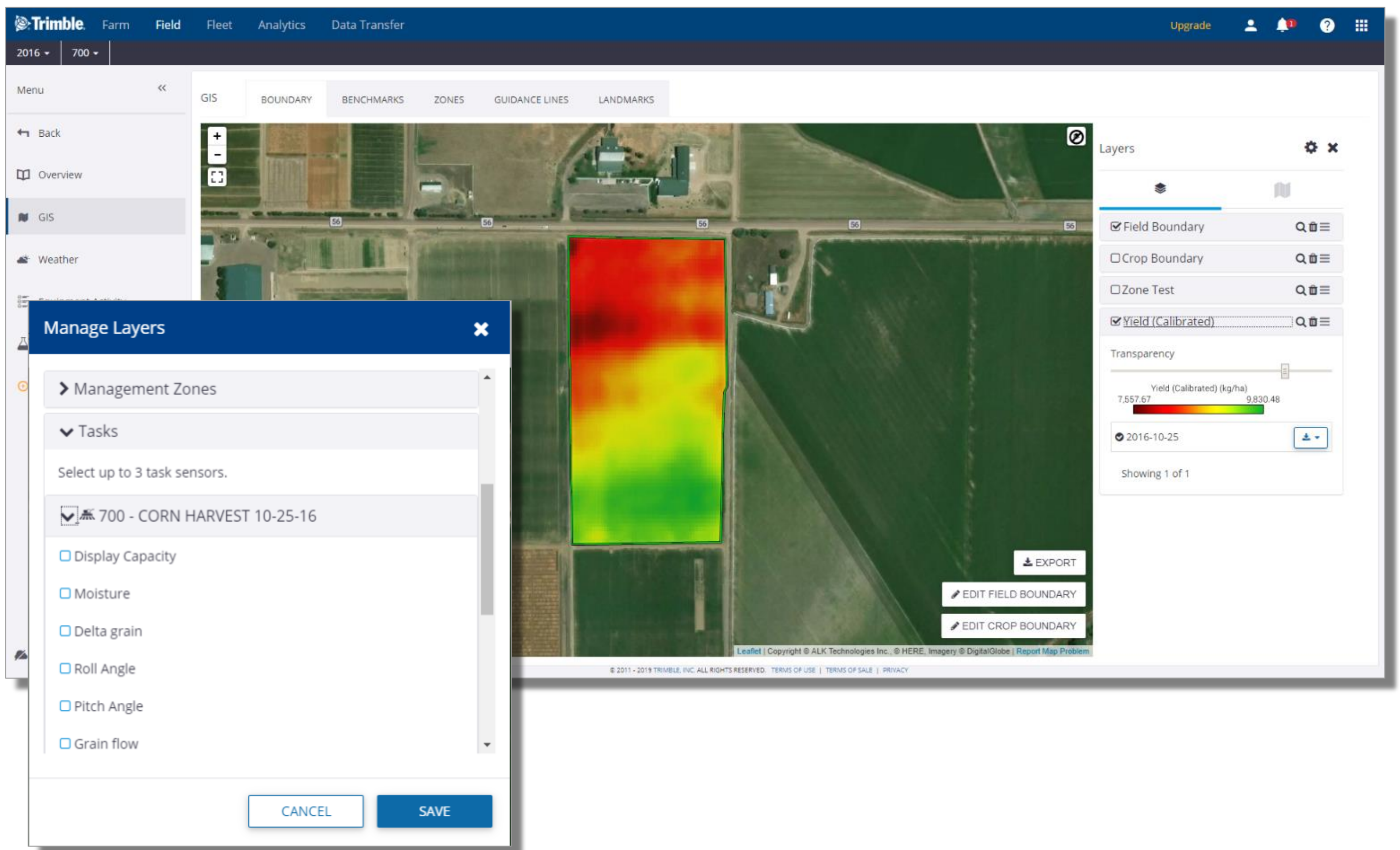


GIS Editing Tools (used when editing Zones or Field Boundaries):



Online | Map Layers

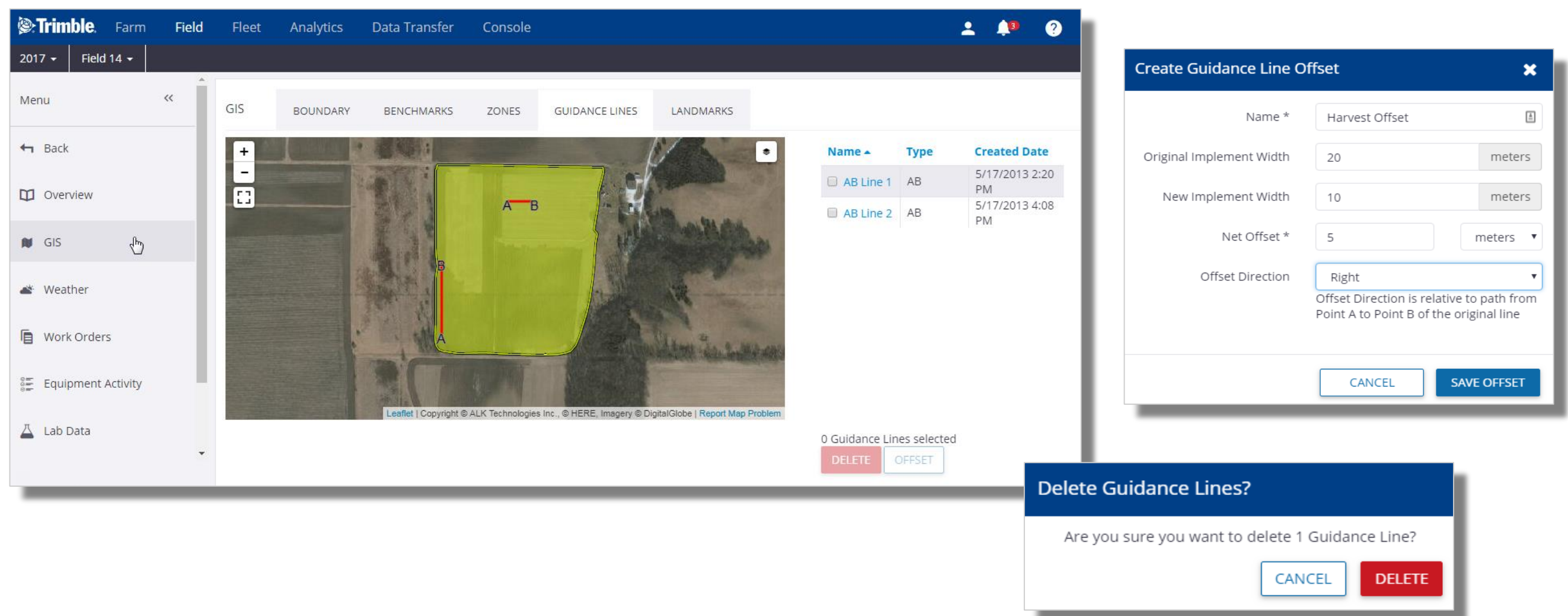
FARMER PRO ONBOARDING



1. When at the **Field** level, click the **GIS** tab on the left side
2. Open the **Map Layers** tab by clicking the **Layers** button (🗺️)
3. Click the gear button (⚙️) to open the **Manage Layers** menu
 - **Check off** all layers you wish to add to the map > click **Save**
4. Click on the Layer in the Layer table to:
 - Review the Legend
 - Adjust Transparency
 - Chose layer dates (Task data, Yield data, CHI)
5. Use the following tools in the **Layer** list
 - (☰) **Move** the Layer Order
 - (🔍) **Zoom** to the Layer
 - (🗑️) **Delete** Layer

Online | Guidance Lines

FARMER PRO ONBOARDING



1. Click **Field** tab > **Select the Field**

- Click the **GIS** tab > Select the Guidance Lines tab
- To view **Guidance Line Properties**, click on the line name in the right hand column

2. Create **Offset**

- Place a checkmark next to the original line
- Click the **Offset** button
- Define the parameters in the **Create Guidance Line Offset** window, be sure to provide a relevant name for the new line.

3. **Delete** Guidance Line

- Place a checkmark next to the original line
- Click the **Delete** button

John Deere Guidance line update: Guidance lines produced from John Deere equipment can now be used alongside other display types, i.e. Trimble, Agco, etc., enabling Trimble Ag softwares user to run mixed fleets within their operations. When exporting from JD to another format, the user will be prompted with the following notice.

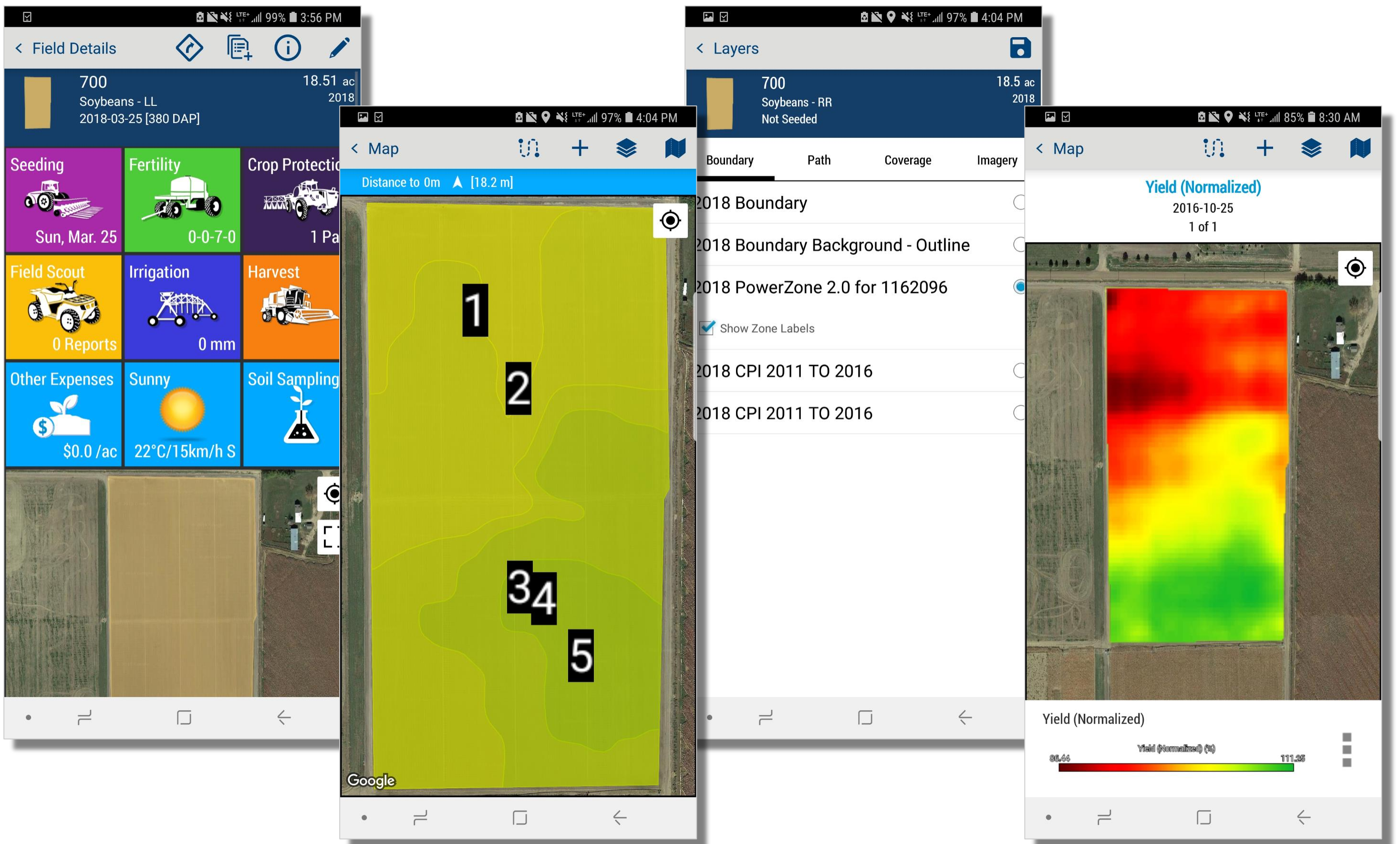
“Notice: Due to potential variations between manufacturers guidance systems, guidance line repeatability and position accuracy may degrade as field work occurs further away from the master AB line.”













Watch this [video](#) to learn more.

Mobile | Map Layers

FARMER PRO ONBOARDING



1. You can turn on various mapping layers from any of the mapping windows, ie. Field page, Scouting page, etc.
2. Tap the **Expand** button () > find and tap on the desired layer > tap **save**
3. Some surface layers have multiple layer options. Tap the 3 buttons () beside the legend to view other related layers.
4. For CHI, tap the **left** and **right** (  ) arrows to cycle between different imagery dates.
5. Tap the **Locate** button () to zoom to your location
6. Tap the **Plus** symbol () to drop a **Benchmark** point
7. Tap the **Background** layer button () to choose a different background image
8. Tap the **Path** button () to log a walked or driven path.
9. Tap the **Layer** button () to open the layer menu so you may turn on a different surface layer, i.e Yield, Zone, CHI, etc.
 - Tap on the desired layer > tap **Save** to turn on a different layer

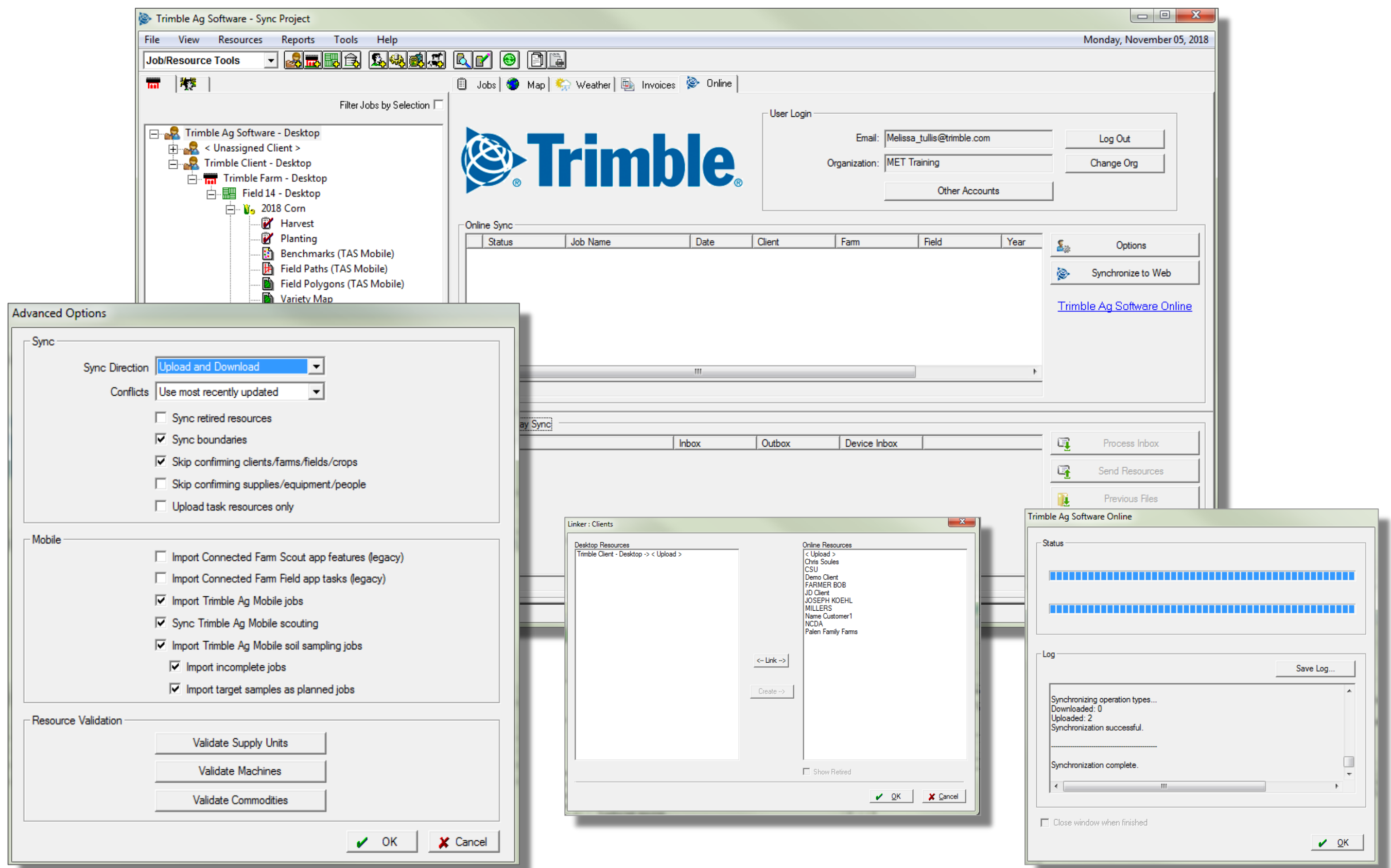


0.8

Desktop Sync

Online| Sync from Desktop: Resources

FARMER PRO ONBOARDING

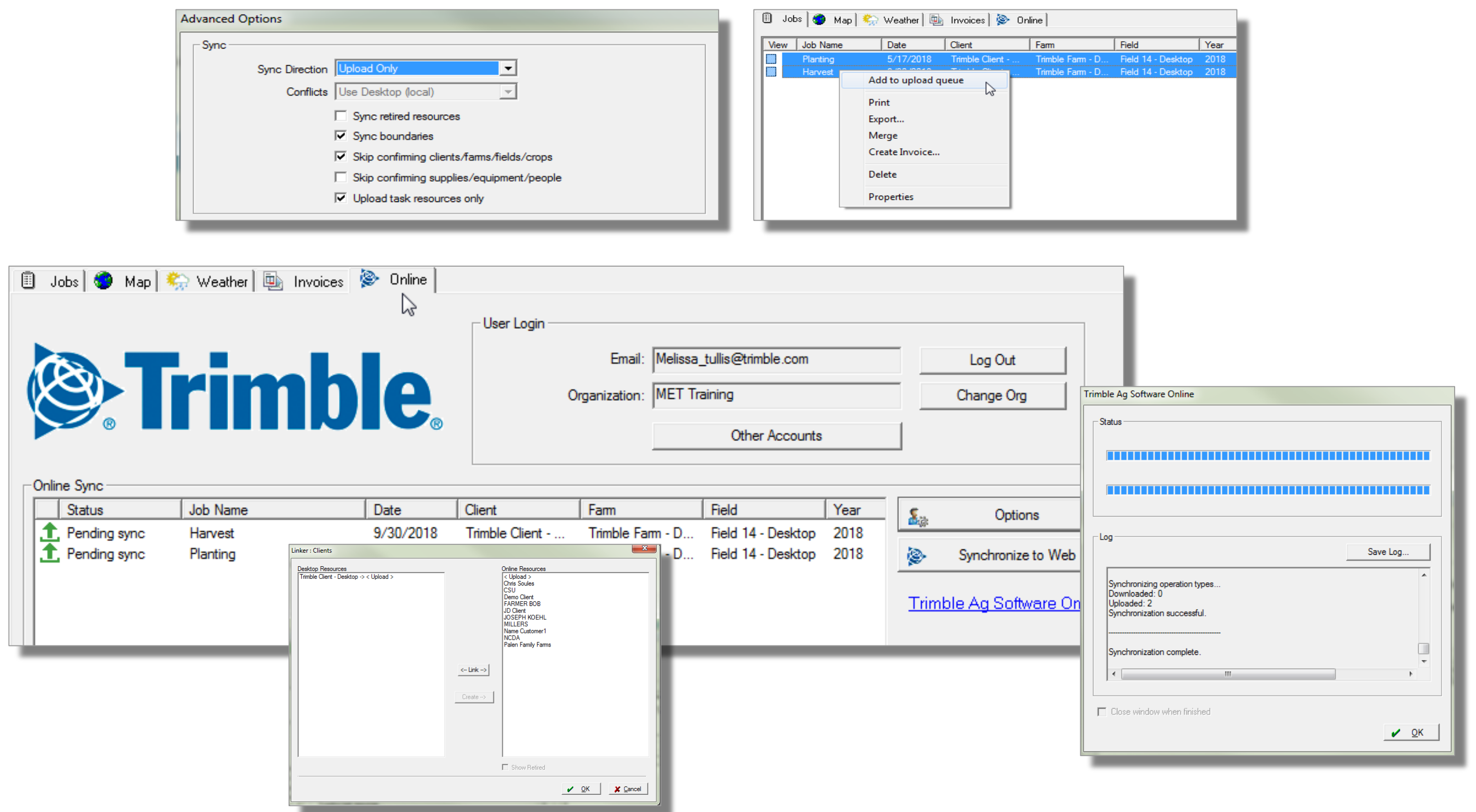


1. Open the Desktop Software
 - Click on the **Online** Tab
 - Enter the email address for your Online Account
 - Select the Organization with which you want to sync
2. Click **Options** in the Online Sync section
 - Configure the **Sync Direction**
 - Configure **Conflicts** for resolution priority
 - Configure Sync checkbox options
 - Configure Mobile checkbox options (only available if Upload and Download Sync Direction is selected)
 - **Validate Supply Units**, **Validate Machines**, and **Validate Commodities** to check for any differences in units used in Desktop and Online
 - Click OK to save the options
3. Click **Synchronize to Web**
 - Work through any Linker boxes that appear to process data from Desktop to Online and Online to Desktop as appropriate
 - The status window will track the progress of syncing
 - be sure to click **Save Log** if any errors were noted during the sync process the log may help with troubleshooting the cause of the error

The Resources sync includes Client, Farm, Field, Crops, Crop Enterprise, Machines, Operators, Inputs, Boundaries

Online| Sync from Desktop: Task Data

FARMER PRO ONBOARDING



1. Open the Desktop Software
 - Click on the **Online** Tab
 - Enter the email address for your Online Account
 - Select the Organization with which you want to sync
2. Click Options in the Online Sync section
 - Configure the **Sync Direction**
 - Configure **Conflicts** for resolution priority
 - Configure Sync checkbox options
 - Configure Mobile checkbox options (only available if Upload and Download Sync Direction is selected)
 - **Validate Supply Units, Validate Machines, and Validate Commodities** to check for any differences in units used in Desktop and Online
 - Click OK to save the options
3. Click the Jobs tab
 - Right click on the task to sync - select Add to Upload Queue (use the CTRL key on the keyboard to select multiple tasks from the Jobs tab)
4. Click Synchronize to Web
 - Work through any Linker boxes that appear to process data from Desktop to Online and Online to Desktop as appropriate
 - The status window will track the progress of syncing

Task Data will sync to Online along with the Resources if the tasks have been added to the Upload Queue

1. There is an option to Upload task resources only that will limit the resources upload to only those related to the tasks that have been selected