



Getting Started with Farmer Pro

User Guide for Trimble Ag Software | Farmer Pro



Edition 6 | November, 2020

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 Pro
Farm Setup	Login users	Up to 5	Up to 5	Up to 5
	Manage client/farm/field names with boundaries	X	X	X
	Sync desktop data to cloud		X	X
	Map landmarks with mobile app (points, lines, and boundaries)		X	X
Farm Operations	Manage guidance lines		X	X
	Includes AutoSync for syncing guidance lines and other data to all Trimble connected devices ¹		X	X
	Import/export or use third-party APIs to get data to/from precision farming displays		X	X
	Track fleet locations, status and utilization		X	X
	Create and assign Work Orders and monitor the status of each		X	X
Farm Records	Add materials and track purchases and usage by field with costs		X	X
	Print a 'Proof of Placement' report that includes details of each job including a coverage map		X	X
	Enter detailed field records for seed, spray, fertilizer, harvest and other applications			X
	View basic weather with option for upgrading to Ag Premium Weather			X
VRA Tools	Use drawing tools to layout management zones based on yield and other map data			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			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.

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 8

0.2. Planning Crop Season

- a. [People](#)
 - i. Contacts
 - ii. Operators and Display Shared
- 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 and Split Fields
 - vi. [Farm Maps](#)
 - vii. Crop Rotation Plan
- f. Planner / Budget
- g. Bins and Contracts
 - i. [Grain Contracts and Storage Online](#)
 - ii. [Grain Contracts and Storage on Mobile](#)

Page 17

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. Generic Data Upload
 - i. Import UAV Imagery
 - ii. Add Soil Moisture Probes
- c. Yield Data Upload / Cleaning
 - i. [Yield Cleaning Tool](#)
 - ii. Import Raw Yield Data
 - iii. Import Yield from Shapefile
 - iv. Yield Cleaning

Page 65

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
 - iii. Creating Management Zones in Mobile
- 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. Prescription (Quick Blender)

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. Post-Season Reports and ROI Analytics
 - i. Online Reports
 - ii. Online Harvest Data and Profitability Maps

Page 120

0.5. Standard and Display Work Orders

- a. Standard 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
- b. Display Work Orders
 - i. Auto Sync Feature
 - 1. Auto Sync Summary
 - 2. Auto Sync: Requirements and Setup Steps
 - 3. Step 1: Setup Vehicles in Online
 - 4. Step 2: Cleanup, Backup and Update
 - 5. Step 3: Connect Display to Internet
 - 6. Step 5: Enable Auto Sync in PiQ
 - 7. Step 6: Monitor Synchronization in PiQ
 - 8. Set up: Auto Sync Service App in PiQ
 - 9. Set up: Check the Unit in the System
 - 10. Set up: Operator Display Sign In
 - ii. Work Orders
 - 1. Requirements and Setup
 - 2. Work Orders Various Options
 - 3. Work Orders Turn On in Online
 - 4. Create a Work Order with Flat Rate
 - 5. Create a Work Order with VRA Rx
 - 6. Display Visualize and Execute Work Orders
 - 7. Display Change Vehicles Profiles
 - 8. Display Create a New Work Order
 - 9. Disable Work Order Display and Online
 - 10. Monitor Operator Sign In from Online

Page 138

Farmer Pro User Guide | Index

FARMER PRO ONBOARDING

0.6. Other Features	<ul style="list-style-type: none">a. Time Tracker Onlineb. Time Tracker Mobile	Page 177
0.7. Coverage Maps / Guidance Lines	<ul style="list-style-type: none">a. GIS Toolsb. Map Layers Onlinec. Guidance Linesd. Map Layers in Mobile	Page 181
0.8. Desktop Sync	<ul style="list-style-type: none">a. Sync Resources from Desktopb. Sync Task Data from Desktop	Page 186

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

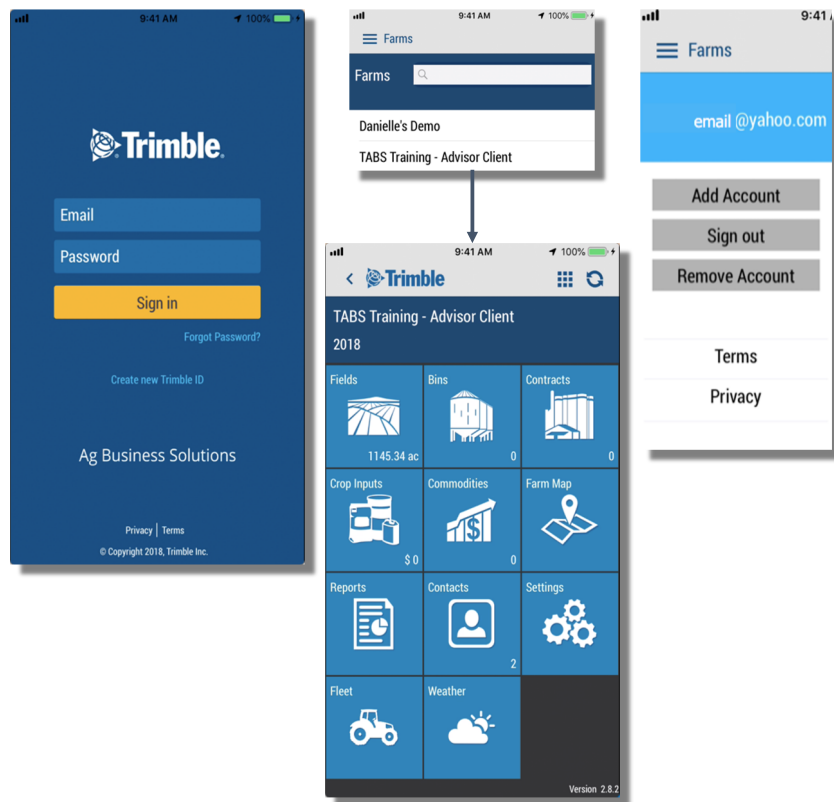
FARMER PRO ONBOARDING

The screenshot shows the Trimble Agriculture website. The header includes the Trimble logo, navigation links (About Us, News & Updates, Blog, Trimble.com), and social media icons. The main navigation bar has 'Agriculture' selected, with links for 'Products', 'Solutions', 'Support', 'How to Buy', and 'Login'. A large banner image of a cornfield features a 'Login' button. Below the banner, there are two columns: 'Trimble Reseller Login' with a link to the 'Channel Resource Center' and 'Software Customer Login' with a link to 'Trimble Ag Software Login'. A central inset shows a login form with fields for 'Email address' and 'Password', a 'Sign in' button, and links for 'Stay signed in', 'Forgot password?', and 'Create new Trimble ID'.

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 Console

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.

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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 image shows a screenshot of the Trimble Software Support page. The page has a blue header with the Trimble logo and navigation links: Ag Business Solutions, About Us, Solutions, News & Updates, Blog, and Support. There are buttons for 'TAKE A TOUR' and 'LOG IN'. Below the header is a large green banner with the text 'Software Support'. Underneath, there's a section titled 'How-To Central' with a sub-header 'Find answers now. Search or browse step-by-step guides, watch videos, download desktop software updates and get v Central.' followed by a link to 'Central'. Below this is a section titled 'Help from Support' with a sub-header 'Four ways to receive personal support from Trimble:'. It lists four ways: 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), and 4. Mobile App (tap the Settings tile and swipe up to tap Email Diagnostic Info). A note states '*available during most of North America's business hours'. Below this is a section titled 'Onboarding' with two bullet points: '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.' and 'Find printable Getting Started guides and searchable help topics on How-To Central.' Below this is a section titled 'Regional Support' with a table.

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

Overlaid on the right side of the screenshot is a 'Support Request' form. The form has a title bar 'Support Request' and a close button. It contains a 'Submit Request' section with fields for 'Your Name' (Brent Chener), 'Your Email' (Brent.Chener@Trimble.com), 'Phone', 'Subject', 'Product Family' (T4S Online), 'Feature' (Login Issue), 'Issue Type' (Login Issue), and 'Priority' (Low). There is a 'Description' field with a placeholder text: '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.' and a 'Submit Request' button.

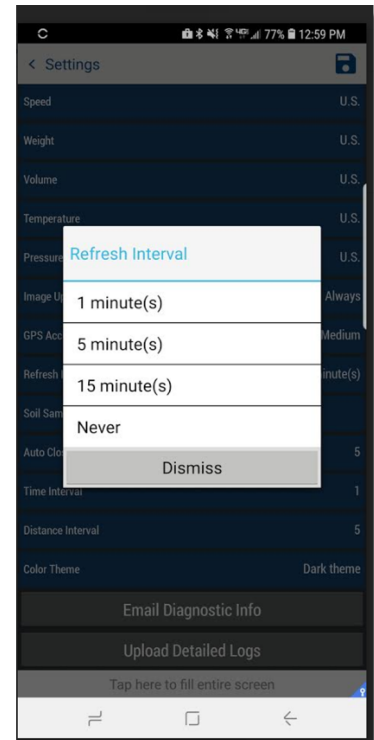
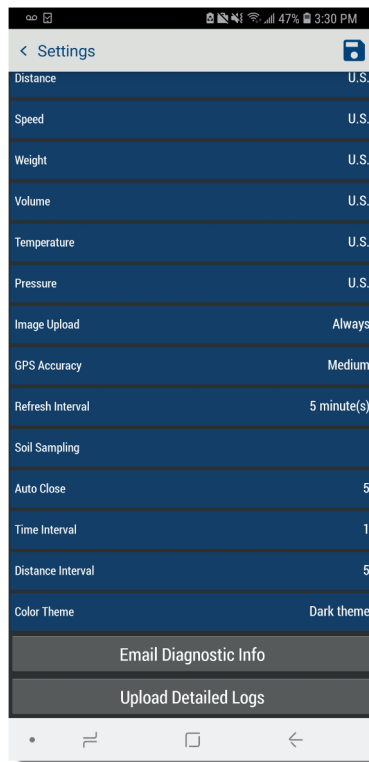
1. The **Software Support** page can be reached by clicking on the Support button (?) > **Support Website**
2. Choose from 3 support avenues
 - a. **Telephone** (available through support website)
 - b. **Chat** (available through support button)
 - c. **Email** (available through support button)



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

Mobile | Support/Settings

FARMER PRO ONBOARDING



Support:

1. Log into **Mobile App** with Farmer 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 '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 tabs: 'MARKETPLACE', 'CURRENT LICENCES', and 'SHOPPING CART'. The 'MARKETPLACE' tab shows various add-on products with 'Add' buttons. The 'SHOPPING CART' tab shows a list of items with prices and quantities, and a 'PROCEED TO CHECKOUT' button. The 'CURRENT LICENCES' tab shows a table of licenses with columns for Name, Is Demo?, Effective Date, Expiration Date, and Vehicle. Below the table, there are sections for 'Desktop Software' and 'Licenses'.

MARKETPLACE

Shopping Cart

PRODUCT	PRICE	QTY	SUBTOTAL
Vehicle Connection (office sync + Fleet) -- \$299 Per Year	C\$299.00	1	C\$299.00
Ag Time Tracker -- \$340 Per Year	C\$340.00	1	C\$340.00
GRAND TOTAL			C\$639.00

Current Licences

Name	Is Demo?	Effective Date	Expiration Date	Vehicle
Ag Premium Weather	No	02/13/2018	02/13/2019 7:52 PM	
PureNet 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	

Desktop Software

Licenses

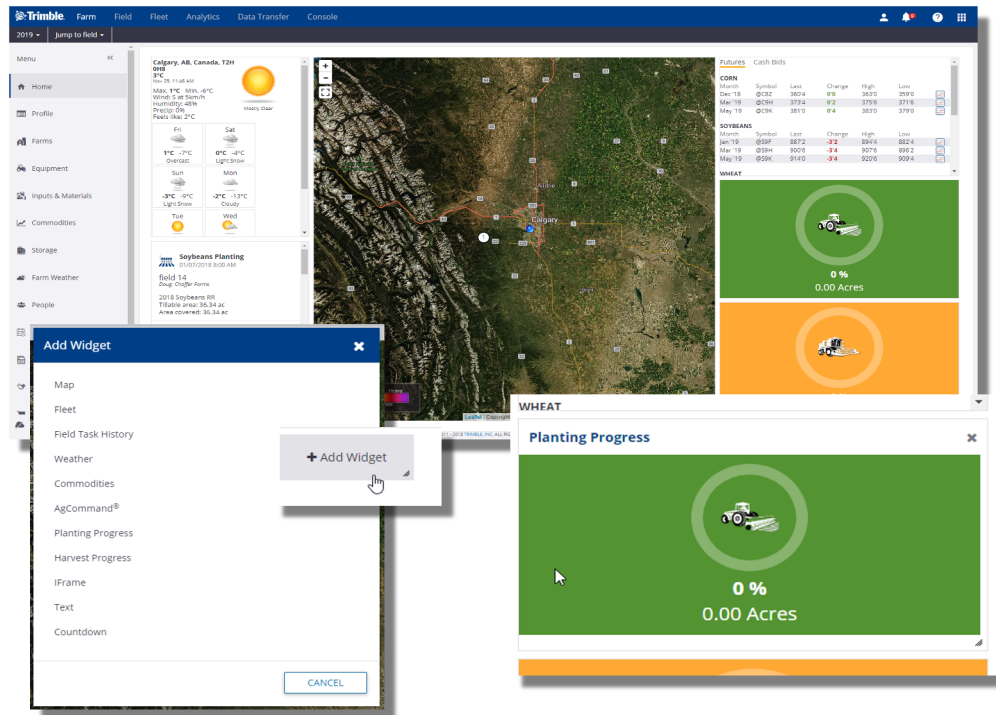
Installations & Activation Codes



Installation Id	Activation Code	Date Installed
No installations to display		

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:

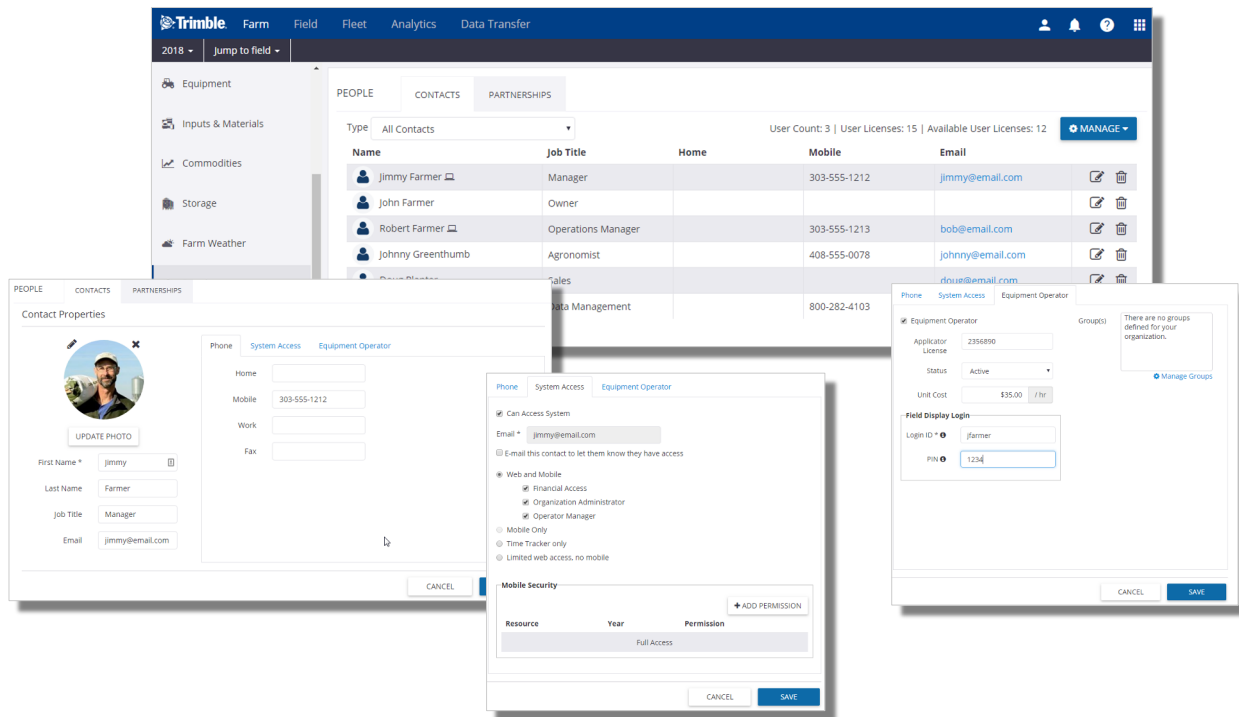
- How to manage people and operators
- How to manage equipment
- How to leverage Trimble Fleet capabilities (optional)
- Where to enter Inputs and Materials
- How to manage your Bins and Grain Contracts
- How to setup Farms and Fields

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 & Display Share

FARMER PRO ONBOARDING

The screenshots illustrate the process of adding new operators and sharing them with vehicles. The first screenshot shows the 'Operators' list in the Trimble Farmer Pro interface, with an orange arrow pointing to the 'MANAGE' button. The second screenshot shows the 'Contact Properties' form, with an orange arrow pointing to the 'Equipment Operator' tab. The third screenshot shows the 'Send Operators to Vehicles' dialog, with an orange arrow pointing to the 'Send' button. The fourth screenshot shows a 'Success' message: 'Send Operators to Vehicles Succeeded'.

Operator Name	Login	Job Title	Groups	Availability
Farmer, James	James Farmer			Active
Farmer, John	John Farmer			Active
Operator, Joe	Joe Operator			Active

Contact Properties

Equipment Operator

Applicator License: 78790513
Unit Cost: /hr

Trimble Display Access

Operator display sign in: ON
Sign in ID: FIRST and last name
4 Digit PIN: 1234
Precision IQ Access: Select Only

Send Operators to Vehicles

Vehicles: ☐ CSU Staff, ☒ Fleet Group, ☐ EMGA, ☐ Farm A, ☐ Generic, ☐ Tractor - Large Row Crop, ☐ Unassigned

Success

Send Operators to Vehicles Succeeded

1. Add New Operators
 - a. Select Manage > New Operator
 - b. Configure Contact Properties
 - c. Select the Equipment Operator tab to include Applicator License, assign to a Group (optional), and configure Trimble Display Access
1. Send To Vehicles: Send the list of operators to connected **FmX** displays
 - a. Select Manage > Send to Vehicles
 - b. Select the operator names
 - c. Select the vehicles
 - d. Click the Send button
 - Please note this functionality is only for FmX displays:
 - ◆ **TMX displays** utilize the **Operators App** to download the list of operators
 - ◆ **PIQ displays** utilize **AutoSync** to sync the list of operators from Trimble Ag Software

0.2.b

Equipment Data

Online| Planning Season: Equipment

FARMER PRO ONBOARDING

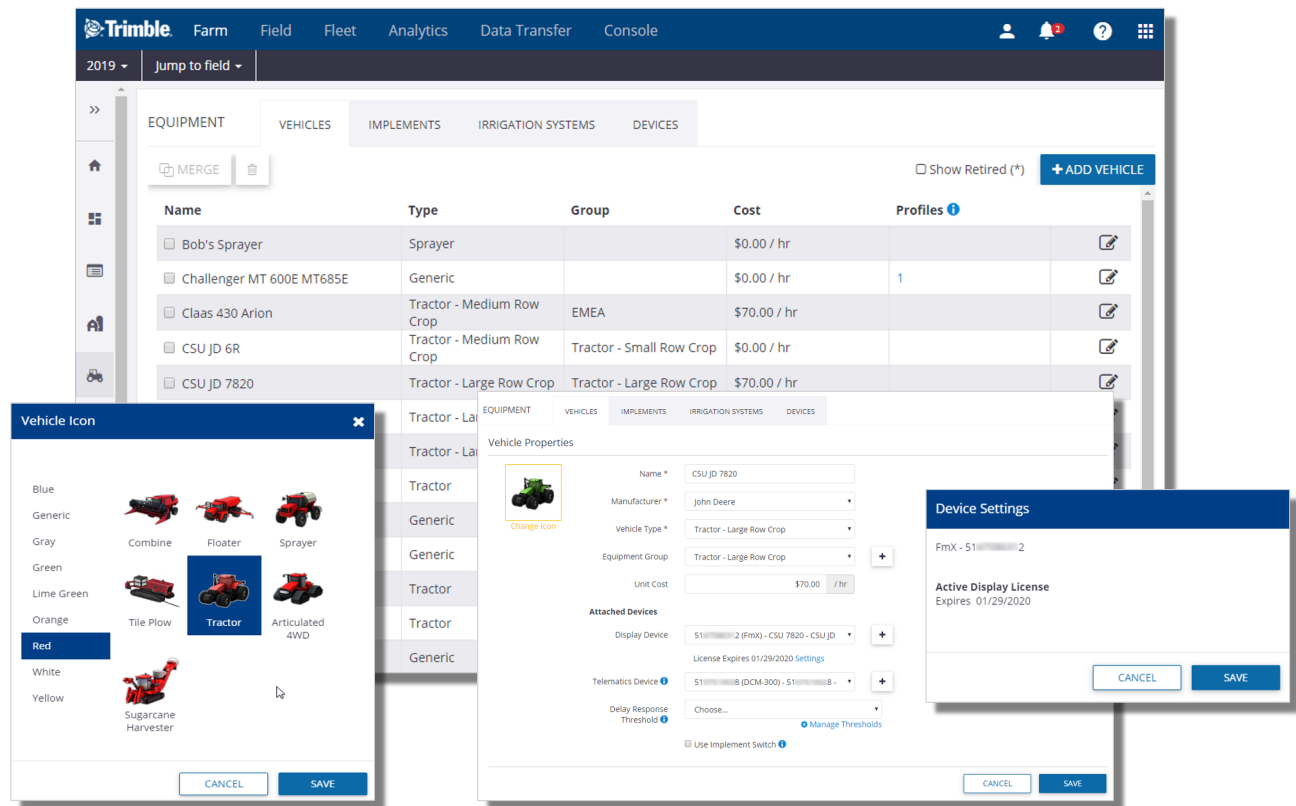
Objective: To understand the various ways you can bring data from your equipment to Trimble Ag Software.

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

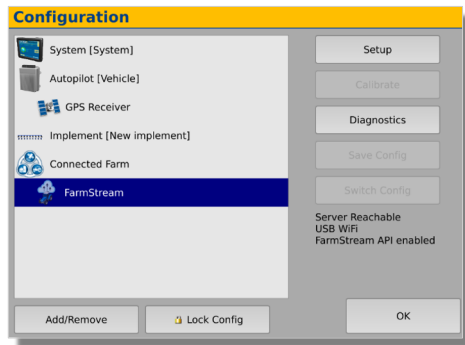
Add Telematics Device

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.

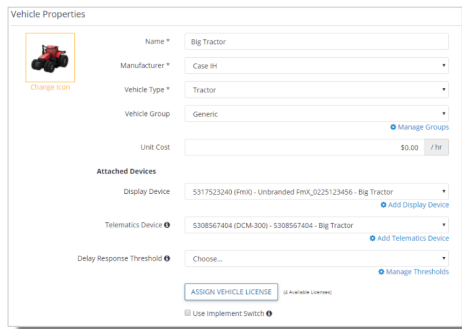
Modem	Supported Trimble Displays	Supported Features	Display Device	Telematics Device
Sierra Wireless GX450	GFX-750 FmX Integrated Display TMX-2050 CFX-750	Office Sync RTK Corrections via cell FarmStream Wi-Fi Access Point	Yes	No
SNM941 Connected Site Gateway	FmX Integrated Display TMX-2050	Office Sync 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

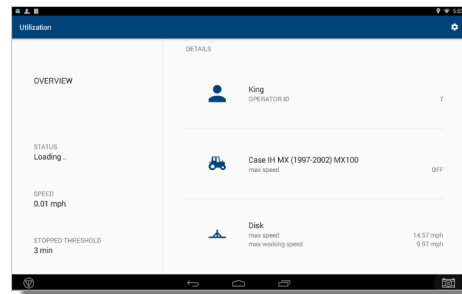
FARMER PRO ONBOARDING



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 displays the Trimble Farmer Pro Onboarding interface. The top navigation bar includes the Trimble logo and tabs for Farm, Field, Fleet, Analytics, Data Transfer, and Console. A sidebar menu on the left lists various options: Home, Dashboard, Profile, Farms, Equipment (selected), Inputs & Materials, Commodities, and Storage. The main content area is titled 'EQUIPMENT' and contains sub-tabs for EQUIPMENT, VEHICLES, IMPLEMENTS (selected), IRRIGATION SYSTEMS, and DEVICES. A table lists existing implements with columns for Implement, Group, Cost, and Profiles. A '+ ADD IMPLEMENT' button is visible. An 'Implement Properties' modal is open, showing fields for Name (Air Seeder), Operation Type (Unassigned), Equipment Group (Unassigned), and Unit Cost. A 'Profiles' modal 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
Air Seeder		\$0.00 / ac	1
Arnie		\$0.00 / ac	1
Disk		\$0.00 / ac	1
feb2019		\$0.00 / ac	1
Generic PWM Std ISOBUS VR		\$0.00 / ac	1
Gleaner		\$0.00 / ac	1

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.

Online | Auto Asset Detection

FARMER PRO ONBOARDING



Beacon

Save Time Setting Up Display Tasks

Beacons automatically connect your implements to your display when you're in range.

Requires a GFX-750, GFX-350, XCN-1050 or XCN-750 display. Contact your dealer to learn more.

Trimble

Farm

Field

Fleet

Analytics

Data Transfer

2020

Jump to field

EQUIPMENT

VEHICLES

IMPLEMENTS

IRRIGATION SYSTEMS

SOIL MOISTURE PROBES

DEVICES

MERGE

Show Retired (*)

+ ADD IMPLEMENT

Implement	Group	Beacon	Cost	Profiles	
<div>129" fumrip</div>			\$0.00 / ha	0	<div></div>
<div>20ft Disk</div>			\$0.00 / ha	1	<div></div>
<div>43" 2 Shank Straddle</div>			\$0.00 / ha	0	<div></div>
<div>Big Disk</div>			\$0.00 / ha	0	<div></div>
<div>Demco 1200</div>			\$0.00 / ha	0	<div></div>
<div>Disk Copy</div>			\$0.00 / ha	6	<div></div>
<div>Disk Copy 2</div>		<div>test beacon id</div>	\$0.00 / ha	1	<div></div>
<div>Disk IH20 sdfg</div>			\$0.00 / ha	0	<div></div>
<div>Pull Type Sprayer 3chn</div>		<div>12:34:56:78:11</div>	\$0.00 / ha	1	<div></div>
<div>Pull Type Sprayer_12</div>			\$0.00 / ha	0	<div></div>
<div>Pull Type Sprayer</div>		<div>test123</div>	\$0.00 / ha	1	<div></div>
<div>Pull Type Sprayer 1chn</div>			\$0.00 / ha	1	<div></div>
<div>Pull Type Sprayer 2 channel</div>			\$0.00 / ha	0	<div></div>

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TERMS OF USE

TERMS OF SALE

PRIVACY

When using Trimble's Auto Asset Detection Solution with Bluetooth Low Energy (BLE) beacons with AutoSync turned on, the Beacon IDs will synchronize to the Economic Vehicle that they are associated with in Online and synchronize out to other connected devices..

1. Open the Vehicles>Implement screen in Online
 2. Active Beacon IDs for the Auto Asset devices will be listed in the Beacon column.
- Note: Beacons are setup on the display using the Auto Asset Detection App.

0.2.c

Fleet

Online| Fleet

FARMER PRO ONBOARDING

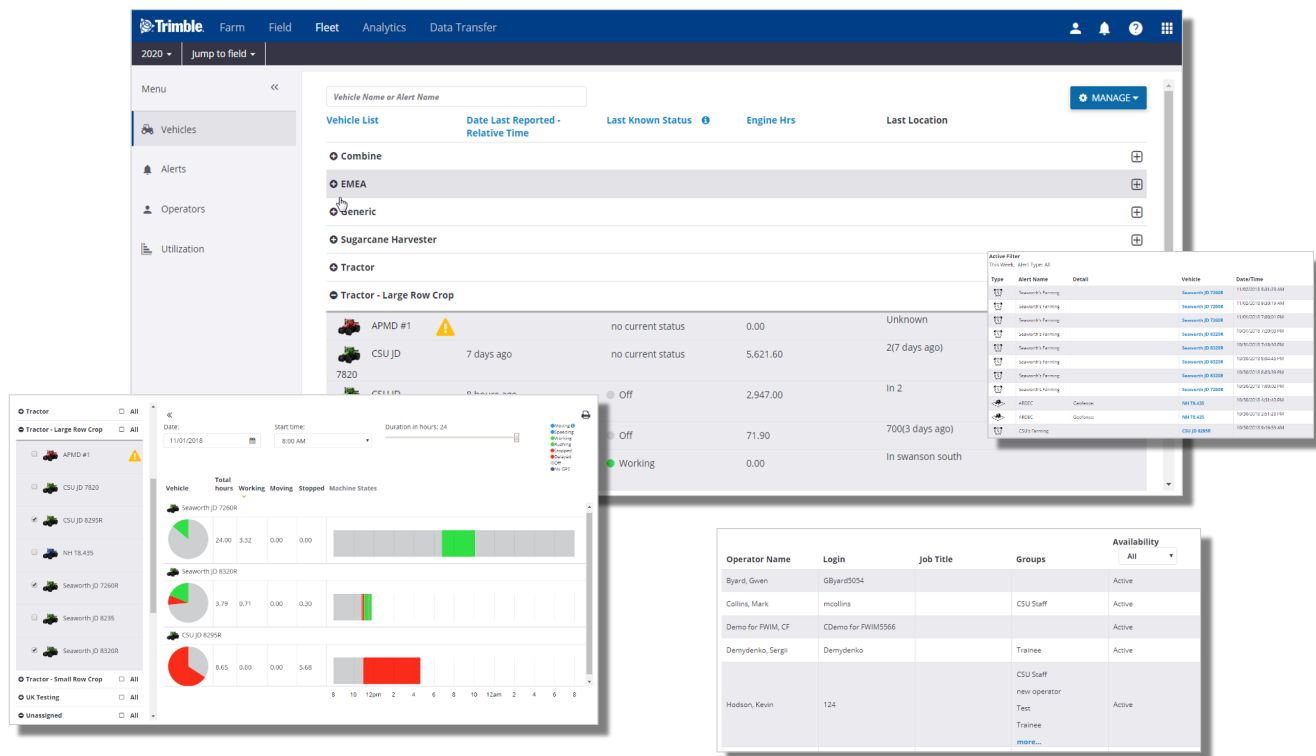
Objective: Learn the fleet monitoring features if you have purchased the add-on in the virtual market.

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
 - a. View and Manage the vehicles in your fleet
 - b. Configure Alerts and Geofences
 - c. View the list of Operators (active and inactive)
 - d. 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.

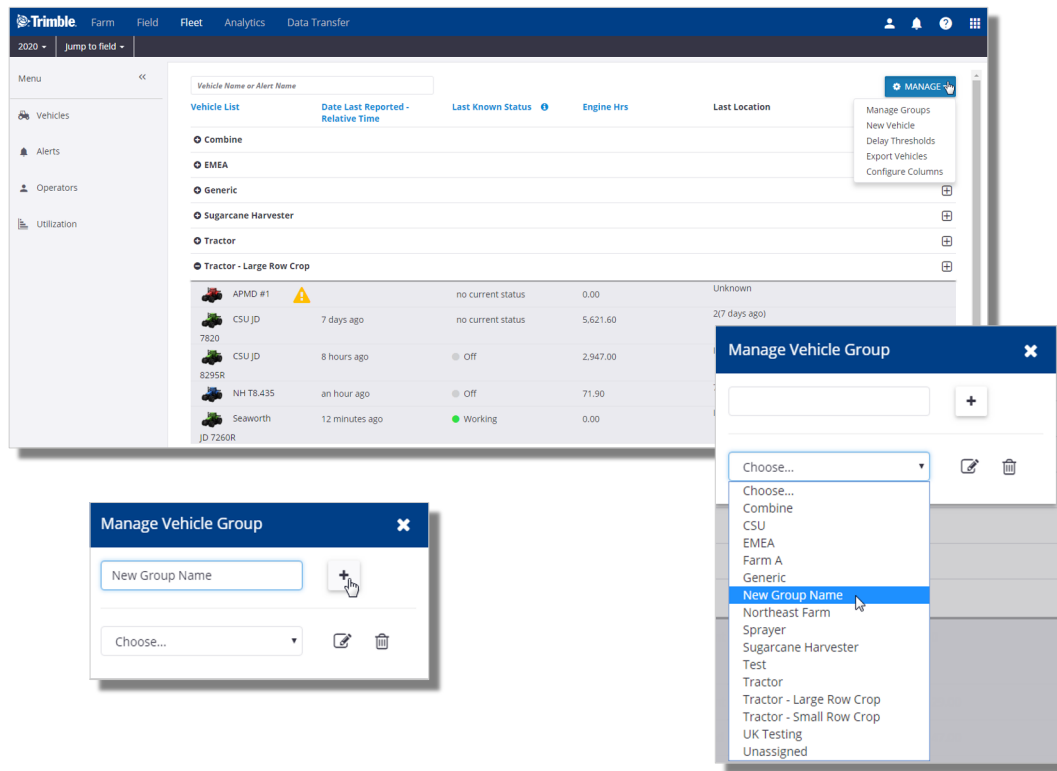
Use the Fleet website to manage your vehicles. Do this for your entire fleet. Online receives information from your vehicles. The back-end system processes the vehicle data into secure databases where you can access the data on demand.

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

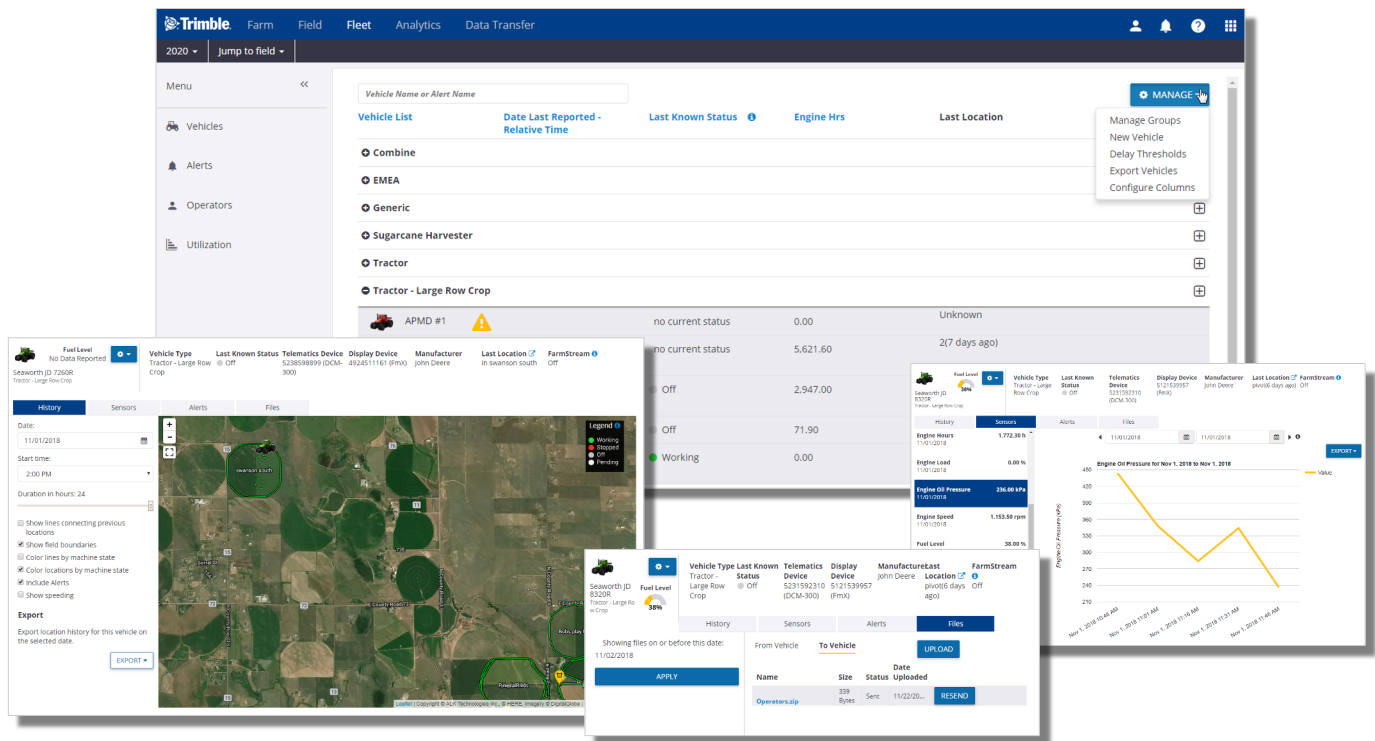
FARMER PRO ONBOARDING



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

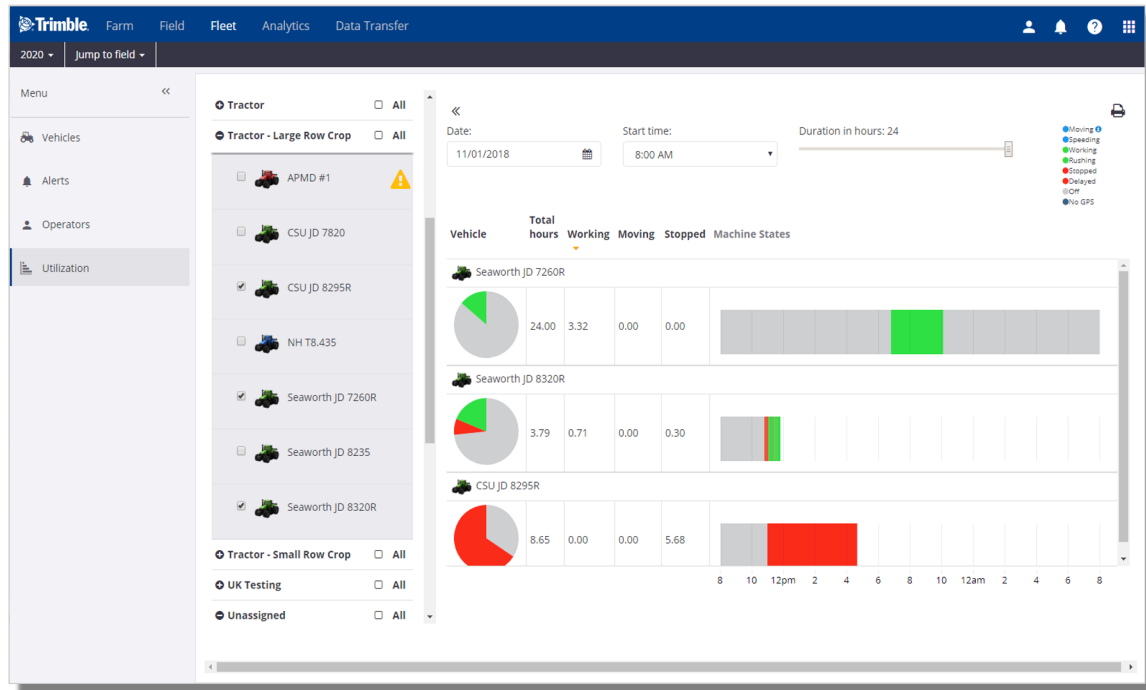
The screenshot displays the Trimble Farmer Pro Alerts interface. At the top, there's a navigation bar with tabs for Farm, Field, Fleet, Analytics, and Data Transfer. Below this, a sidebar on the left contains a menu with options like Vehicles, Alerts, Operators, and Utilization. The main area shows a list of alerts with columns for Type, Name, Vehicle, and Date/Time. A 'MANAGE' button is visible next to the list. Below the list, there's a detailed view of a specific alert, showing its configuration, including Alert Type (Geofence, Curfew, Ignition, Rushing), Alert Details (Frequency, Alert when Ignition is), and Vehicles (Combine, CSU). A map view is also shown on the right, displaying a geofence area on a satellite map.

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 left sidebar shows a menu with options like 'Home', 'Profile', 'Farms', 'Equipment', 'Inputs & Materials', 'Commodities', and 'Storage'. The main content area is titled 'INPUTS & MATERIALS' and includes tabs for 'CHEMICALS', 'FERTILIZERS', 'LIME', 'SEEDS', 'WATER', 'TANK MIXES', and 'SUMMARY'. 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 'MOC' by Bayer Cropscience.

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

The screenshot displays the Trimble Farmer Pro Onboarding interface. The top navigation bar includes 'Farm', 'Field', 'Fleet', 'Analytics', and 'Data Transfer'. The left sidebar shows a menu with 'Home', 'Profile', 'Farms', 'Equipment', and 'Inputs & Materials'. The main content area is titled 'INPUTS & MATERIALS' and contains tabs for 'CHEMICALS', 'FERTILIZERS', 'LIME', 'SEEDS', 'WATER', 'TANK MIXES', and 'SUMMARY'. The 'FERTILIZERS' tab is active, showing a table with columns: Material, Qty. Purchased, Avg. Cost, Total Cost, Applied Area, Avg. Rate, Qty. Used, and Balance. The table lists three fertilizers: 0-0-15, 10-34-0, and 16-0-0-20Zn. A '+ ADD FERTILIZER' button is visible in the top right of the table area.

The 'Fertilizer Search' modal is open, showing a search form with fields for 'Name' (containing 'FOL'), 'Manufacturer' (set to 'PLANT HEALTH TECH.'), and a list of search results. The results table has columns 'Name' and 'Manufacturer' and lists four fertilizers: Folo Spray 0-50-30, Folo Spray 12-5-40, Folo Spray 20-20-20, and Folo Spray 6-30-30, all from 'PLANT HEALTH TECH.'. A link at the bottom of the modal says '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 (burndown), Form (Liquid), Carrier (water), Default Rate (10.00 gal/ac), Mix Rate (10.00 gal/ac), and Mix Cost (\$2.25 / gal). A table lists ingredients: Durango (\$25.00 / gal, 0.10 gal/ac) and Atrazine 4L (\$40.00 / gal, 0.50 gal/ac). A blue button labeled '+ ADD INGREDIENTS TO RECIPE' is visible. A modal dialog box titled 'Select Material(s)' is open, showing a list of materials: Chemical, Fertilizer, Lime, and Water. The dialog has 'CANCEL' and 'OK' buttons at the bottom.

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 Farm 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', and 'Commodities'. The main content area is titled 'INPUTS & MATERIALS' and contains tabs for 'CHEMICALS', 'FERTILIZERS', 'LIME', 'SEEDS', 'WATER', 'TANK MIXES', and 'SUMMARY'. A table lists materials with columns for 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 second screenshot shows the 'Fertilizers > 10-34-0' sub-view with a table of purchase history.

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
 - o Click **+ New Purchase**
4. Enter the Purchase Details
5. Click the OK button to save the purchase

Optional:

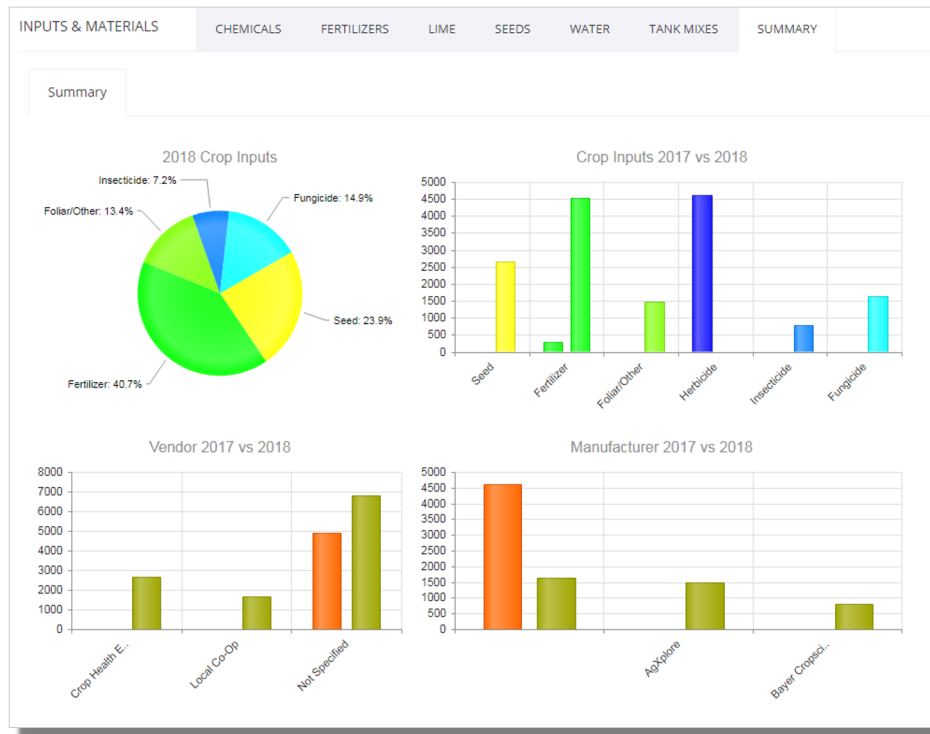
- use the **+ Carry Over** button to carry over purchase balances to the next year
- **Update Task Costs** and **Update Material Unit Cost** can be used when changes for either need to be made and updated for existing applications in that growing season



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

Online | Inputs and Materials Summary

FARMER PRO ONBOARDING

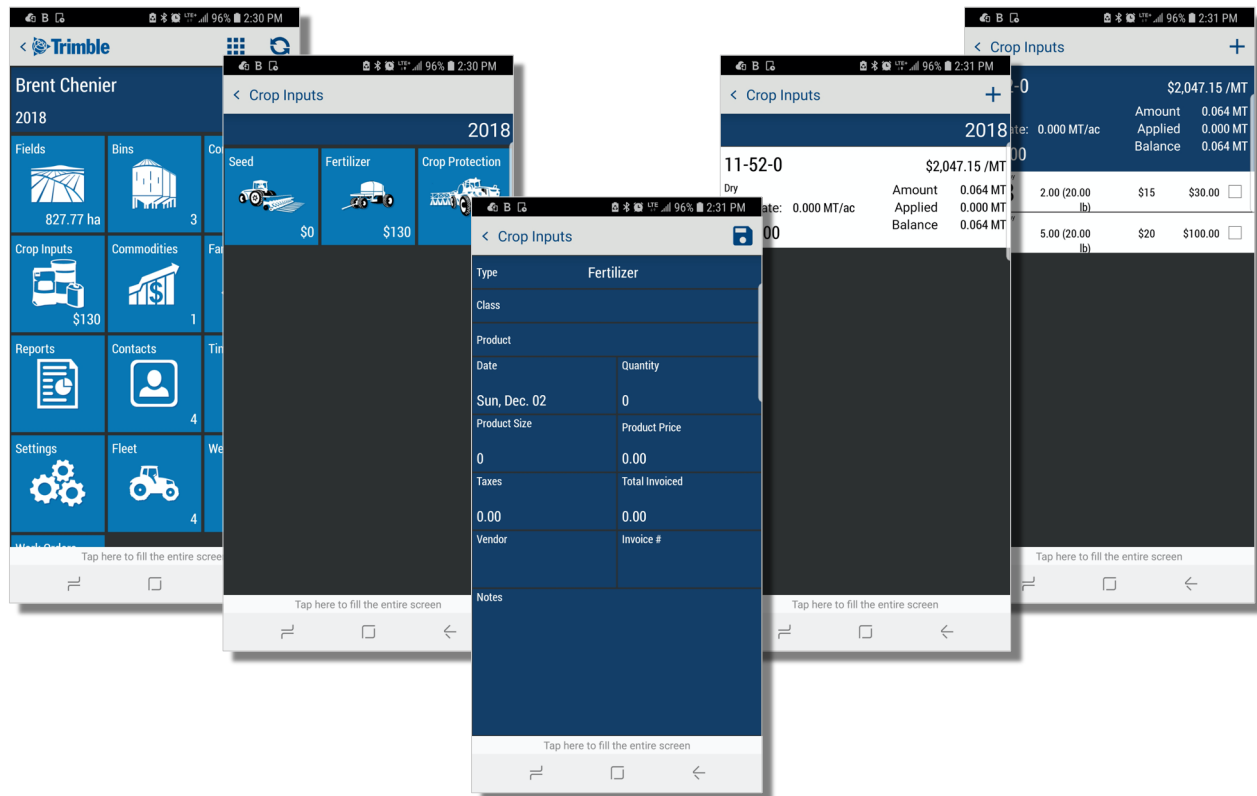


Click **Farm** tab > **Inputs & Materials** > **Summary**

- 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

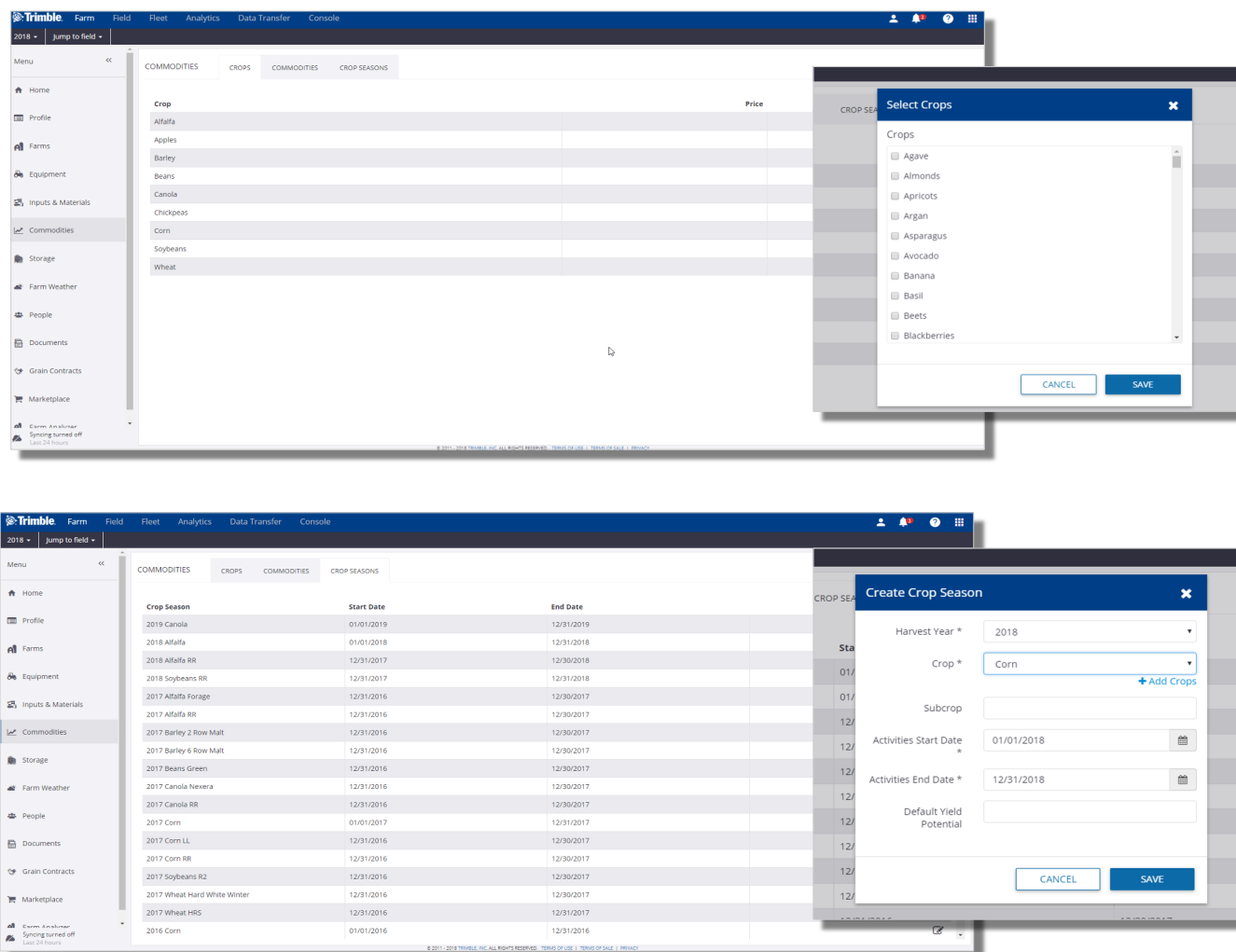
Objectives: To understand the basic information required when planning for a new crop season.

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

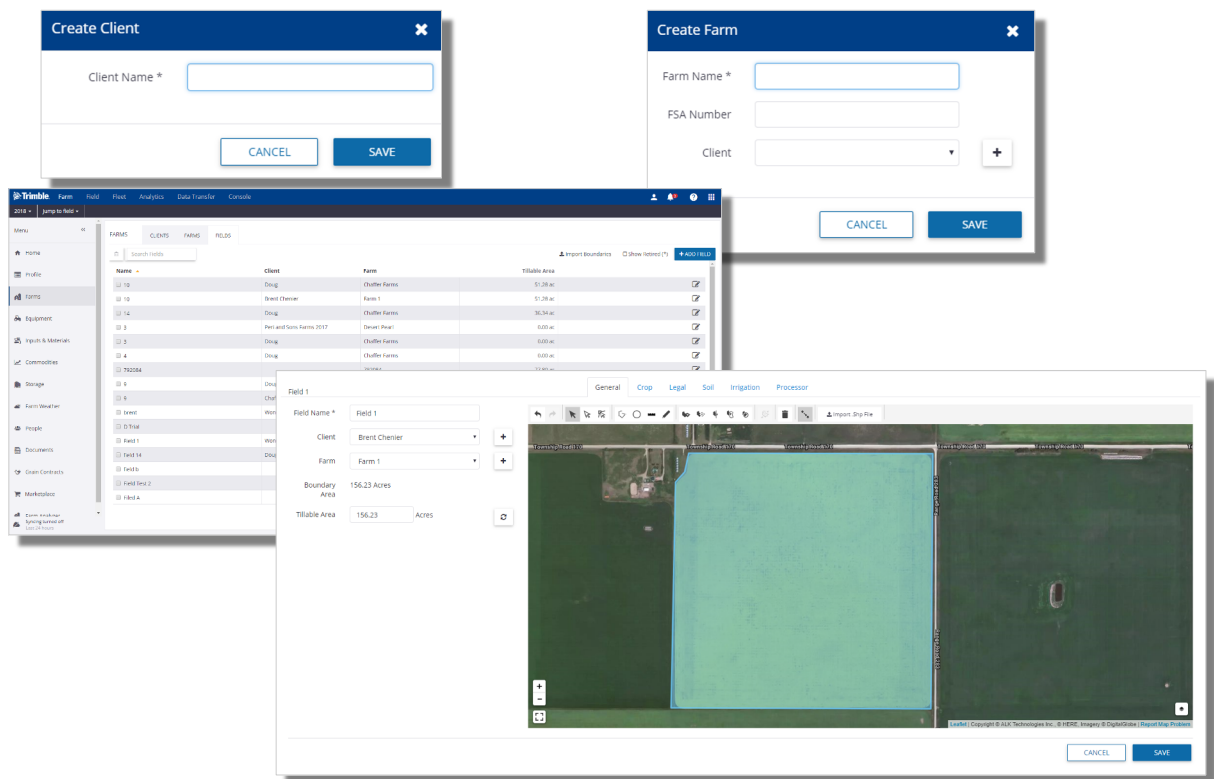


1. Click **Farm > Commodities > Crop**
 - Click **+ Add Crops**
 - **Check off** the appropriate crops
 - Click **Save**
2. Click **Crop Season** tab
 - Click **+ Add Crop Season**
 - Select **Harvest Year**
 - Select **Crop**
 - Select **Activity Start** and **End date** (if different from default)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

The screenshot displays the Trimble Farmer Pro software interface. The top navigation bar includes 'Farm', 'Field', 'Fleet', 'Analytics', 'Data Transfer', and 'Console'. The 'Field' tab is active, showing the '2018 Field Profiler' with a table of fields. A 'MANAGE' button is visible in the top right. An 'Open' file dialog is open, showing a list of files in the 'Boundary' folder, including .shp, .shx, and .dbf files. An 'Upload Field Boundary' dialog is also open, prompting the user to drag files or select files to upload. The dialog includes a progress bar and a table of uploaded shapes.

Field ID	Field Name	Legal Desc.	Acres	I.	Crop	Variety
1077636	field b		0	N	-	
1077635	Field A		63.91	N	Alfalfa	
1034815	home 1/4		77.8	N		
723953	Melvin's		142.06	N	Alfalfa	

Legal Desc.	Acres	I.	Crop	Variety	Target Yield
	77.8	N			
Farm Total	77.8				

Legal Desc.	Acres	I.	Crop	Variety	Target Yield
	36.34	N	Soybeans - RR		
	36.34	N	-		kg/ha
	36.34	N	Soybeans - RR		

File Details	Projection	Field	Farm Column FarmName	Field Column FieldName
<input checked="" type="checkbox"/> CF_Field_1 0.98 KB .shp, .shx, .dbf	WGS 84	New Field	FarmName	CF Farm
<input checked="" type="checkbox"/> planting 497.22 KB .shp, .shx, .dbf	WGS 84	New Field	None	Elevation
<input checked="" type="checkbox"/> Ochsner_E 9.66 KB .dbf, .shp, .shx	WGS 84	New Field	FarmName	Darwyn Ochsner

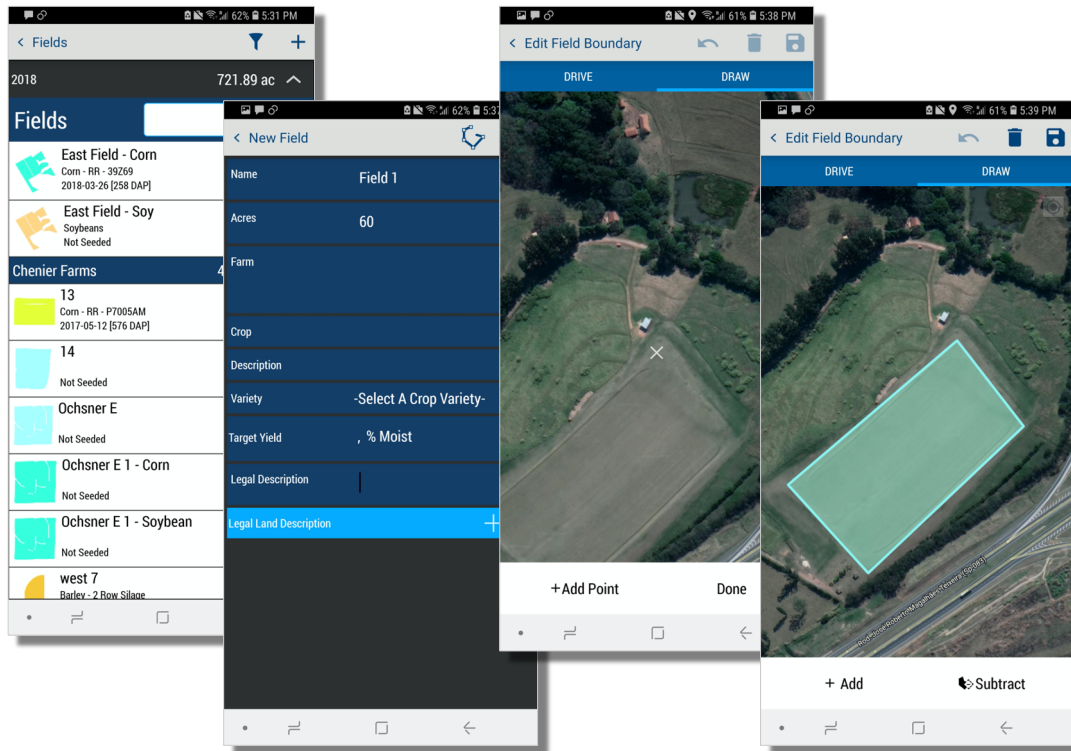
1. Click **Field** tab > **Field Profiler** > **Manage**
 2. Select **Upload Boundary Files**
 - o Select **.shp, .shx** and **.dbf** for all desired boundaries
 - click **Open**
 - o Leave **Field** column at **default** (New Field)
 - o Select **Farm Name** and **Field Name** attribute columns from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

The screenshot displays the Trimble Farmer Pro interface. The top navigation bar includes 'Company', 'Farm', 'Field', 'Fleet', 'Analytics', 'Workbench', 'Data Transfer', and 'Console'. The left sidebar shows a 'Menu' with options like 'Overview', 'GIS', 'Weather', 'Work Orders', 'Equipment Activity', and 'Lab Data'. The main content area shows the '2019 Field Manager' overview for 'Ochsner E'. It includes a 'Field Details' section for field #1014809, an 'Expenses Breakdown' table, and a 'New Crop' modal. The modal shows a 'Parent Field: #1014809 - Ochsner E (151.10 ac)' and a form to add new crops. The form has fields for 'New Name', 'New Acres', and 'Crop Sequence'. Arrows point from the 'Original Field (parent field)' and 'New Crop Fields' to the corresponding fields in the modal.

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

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 | Split Fields

FARMER PRO ONBOARDING

2020 Field Manager

Field Details # 1436418

Field Name: test field, Acre ID: 1436418, # Acres: 156.96, Irrigated: No, Seeded Date: , Harvest Date:

Notes:

Expenses Breakdown

Expense	New Acres	New Name	Cost/acre
Seed	100	test field (seeded)	\$0.00
Seed	56.96	test field (not seeded)	\$175.91

Split Field

Parent Field: #1436418 - test field (156.96 ac)

New Acres: 100, New Name: test field (seeded)

New Acres: 56.96, New Name: test field (not seeded)

Field List

Field ID	Field Name	Acres	Ir.	Crop
1581439	Farm Map Test	56.68	N	
1668518	Smart Farm Field 11	48.2	N	
1251629	Test Field - New Crop	2	N	Alfalfa
1251629	Test Field - New Crop	4.91	N	Almonds
1436418	test field (not seeded)	56.96	N	
1436418	test field (seeded)	100	N	

ALKALI

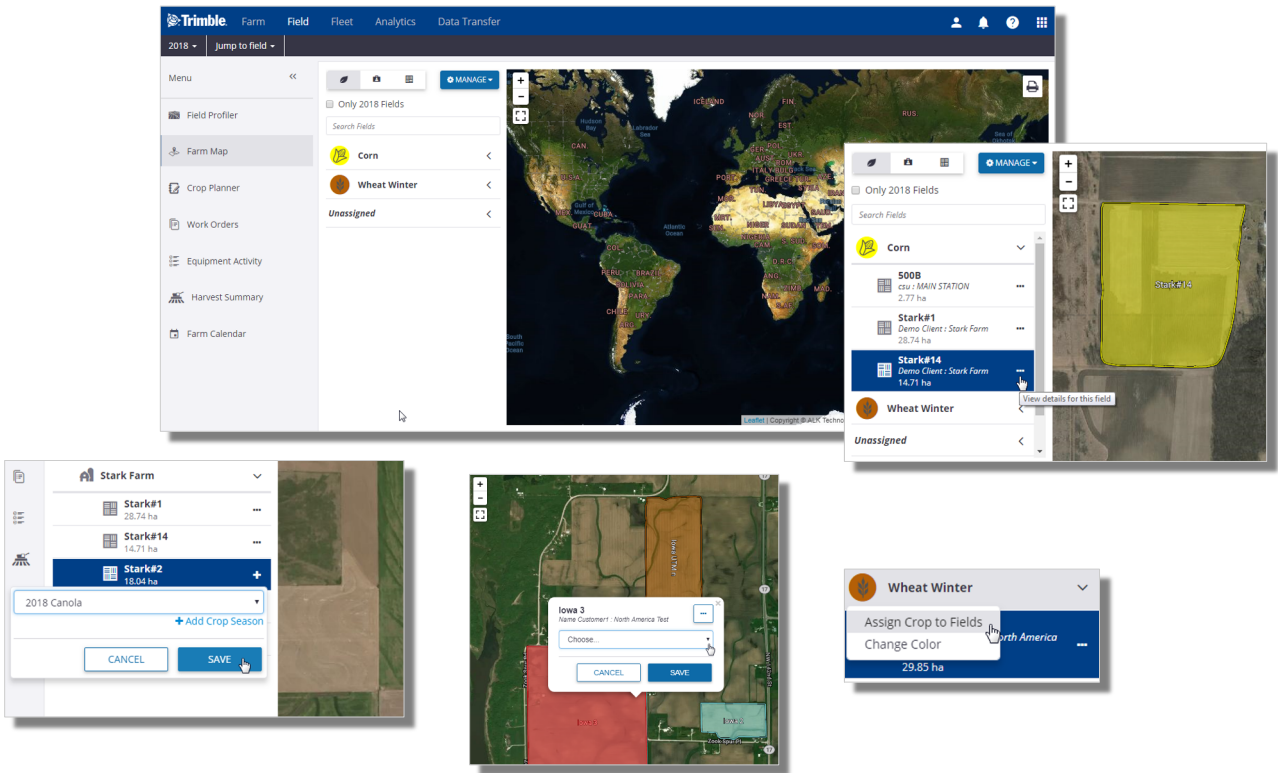
Field ID	Field Name	Legal Desc.	Acres	Ir.	Crop
1115580	05		100	N	Alfalfa
1115580	05 (Corn)		85	N	

Farm Total 185

1. Navigate to field>field profiler. Find the field you are looking to split and select that field from the list.
2. Once you are on the field manager page for the field you want to split, select the “manage” icon on the right side of the page, and then choose the option “split field”
3. A window will pop up allowing you to set the acreage for the newly created split field (child field) and the original field that you are splitting off of (parent field). It will also allow you to set a new name for both the parent and child field so it is easier to differentiate between the two. Both the parent and the child field will have the same field ID.
4. Once you set the acreage and new names for both the parent and child field and save, it will take you back to the field profiler home page, and you will see both the parent and child field active in the list.

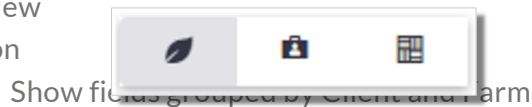
Online | Farm Map

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 Only

- From the Field level list, click on the ■ ■ ■ button to **View details for this field** in the Field Manager screen.
- 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.
- 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 Rotation Plan

FARMER PRO ONBOARDING

The screenshot shows the Trimble Farm Field interface for creating a Crop Rotation Plan. The top navigation bar includes 'Farm', 'Field', 'Fleet', 'Analytics', and 'Data Transfer'. The 'Field' tab is active, and the 'Crop Rotation Plan' link is highlighted. Below the navigation bar, there are filters and a table showing crop rotation data for various fields. The table has columns for 'Field', 'Acres', and years from 2017 to 2021. The '2020 (Current)' column is highlighted. A 'MANAGE' button is visible in the top right of the table. A modal window titled 'Add New Crop' is open, showing fields for 'Crop', 'Subcrop', 'Variety', 'Area', 'Yield Goal', 'Target Price', 'Crop Sequence', 'Perennial Crop', and 'Number of planned years'. A 'MANAGE' button is also visible in the top right of the modal window.

1. Click **Field > Crop Rotation Plan**
2. Configure how many Years Backward and Years Forward to work with
3. Click the plus sign in any box that needs information to be entered
 - a. Use the Multi Select check box to activate selection of more than one box to fill in with the same crop information
 - b. Select the desired boxes and then click Manage>Add/Edit Selected Record
 - c. Fill in the Crop details using the Add New Crop window
4. If you're working with a perennial crop, select "Perennial" and define the number of years for that multi-year cycle
5. Use the Manage Option to Export to CSV to save or share the plan details.



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

Online | Crop Rotation Plan

FARMER PRO ONBOARDING

The screenshot shows the 'Crop Rotation Plan' interface. At the top, there's a 'FILTER BY...' dropdown, a 'CLEAR FILTER' button, and an 'Active Filter' set to 'Soybeans'. Below this is a table with columns for years from 2016 to 2022. The rows represent different fields: 'Field 14 - Grid Farm Demo', 'Field 500 Farm Demo (Retired)', 'Field 700 - Zone Farm Demo', and 'Field_ebee Farm Demo'. Each field has a 'Hectares' column and crop details for each year. Callout 6 points to a '+' icon in the 2019 column for Field 14. Callout 7 points to the 'Crop' dropdown in the 'Add New Crop' dialog. Callout 8 points to the 'Edit Crop' dialog. Callout 9 points to the '2019 (Current)' crop details. Callout 10 points to the 'Add new information as separate crop split' option. Callout 11 points to the area in red in the '2019 (Current)' crop details.

6. For planning a crop sequence for the same field, you can click on the (+) below the crop grid.
7. Now you can add the detail for that crop and pick the correct sequence in the drop down. The Crop Planner allows up to 10 crop sequences entry.
8. The system will ask you to select how you want to proceed. Select “**Replace old crop details with new information**” if you just want to add a crop sequence, but keep a single crop.
9. The new crop sequence will be displayed beside the previous drop under the same crop year.
10. If desired to split a field, you can select the option “**Add new information as separate crop split**” and click SAVE.
11. That will split the field into two crops and you can adjust the area for each split by clicking in the area in red. That will re-open the **Edit** crop window and you can adjust the area for each part of the field before click **SAVE**.



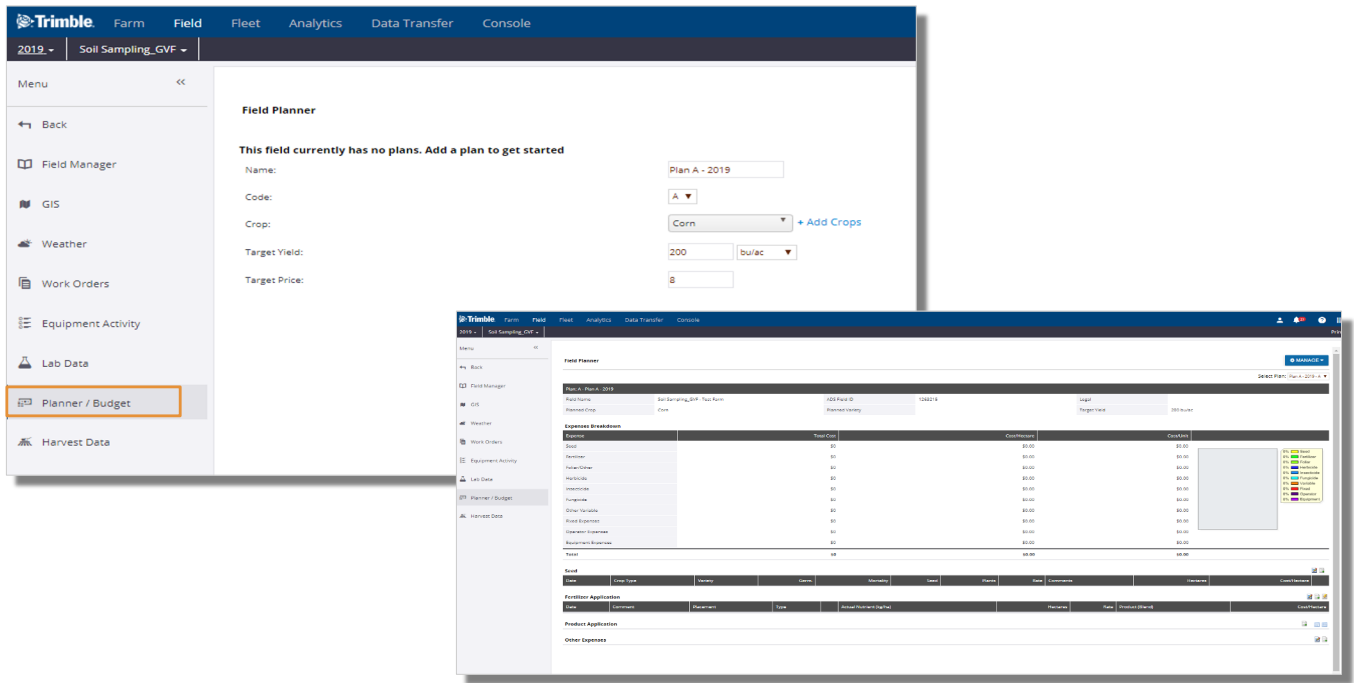
Watch this [video](#) to learn more.

0.2.f

Planner / Budget

Online| Planner / Budget

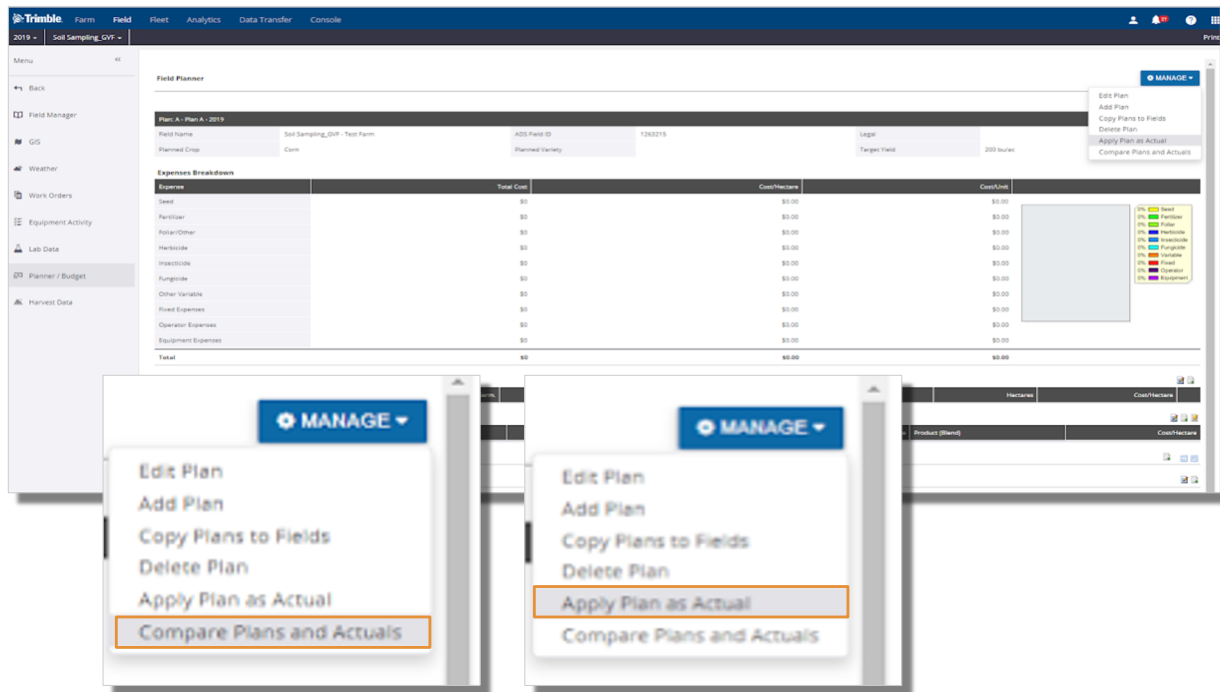
FARMER PRO ONBOARDING



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

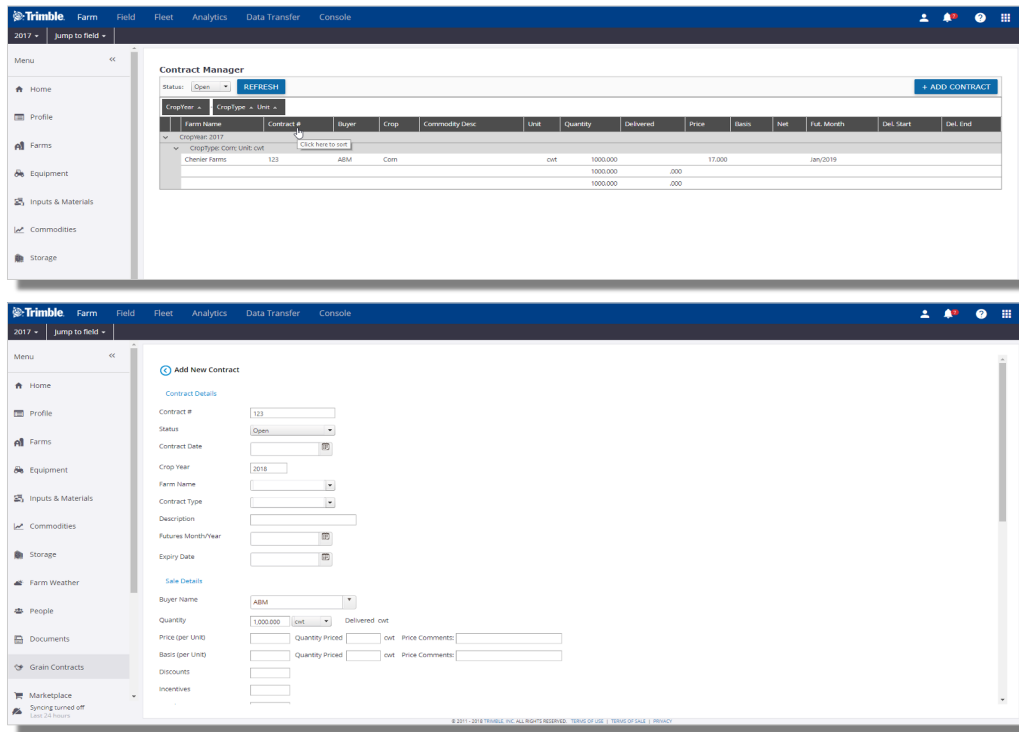
Objective: How to manage your contracts and storage during the crop season.

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**

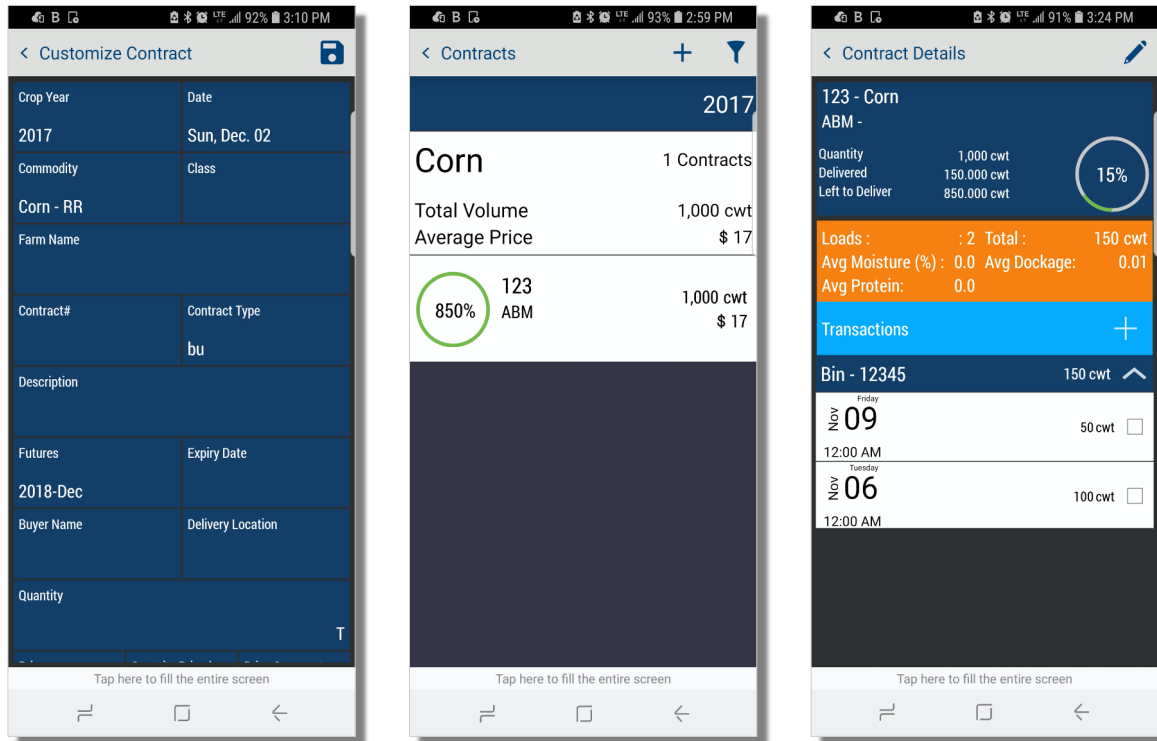
You can also **review** all **transactions** associated with each individual **contract** from the Grain Contracts page.



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.
 - o 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**

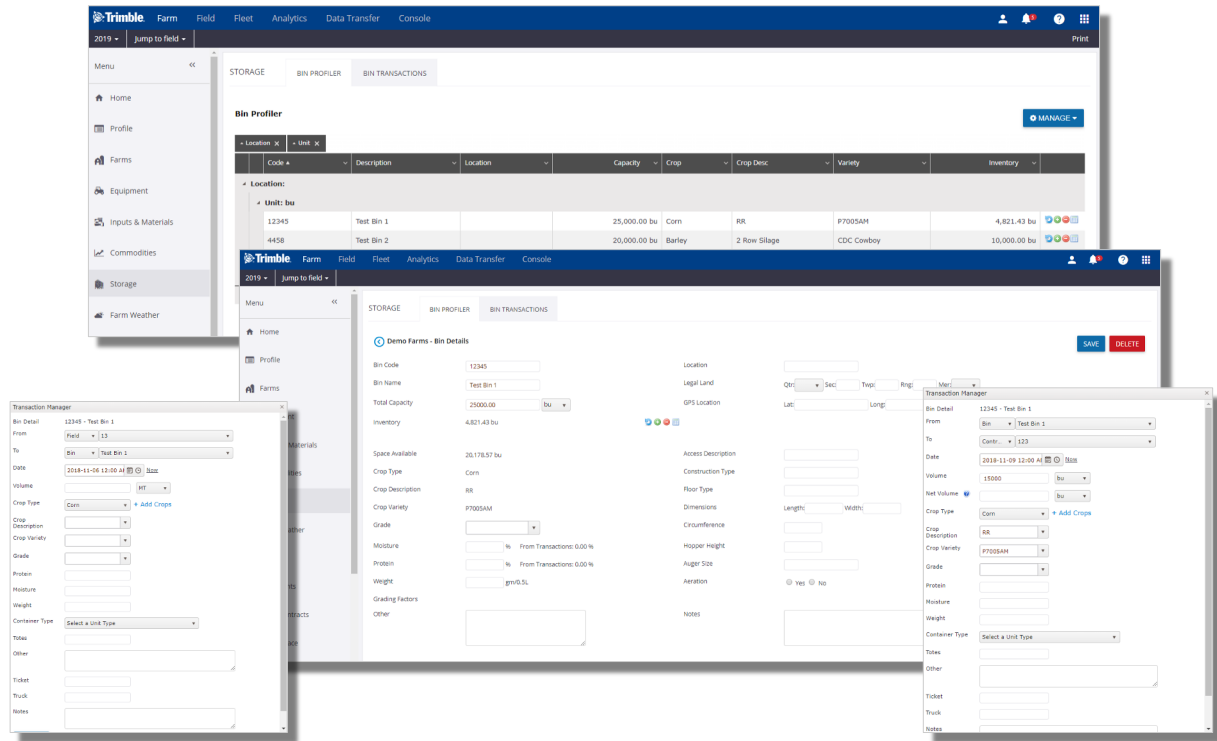
Tap on the contract to review transactions that have helped fulfill the contract, and to view other summarized details of the contract.





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

Online | Storage

FARMER PRO ONBOARDING



1. Click **Farm > Storage > Bin Profiler**
2. Click **Manage > Add New Bin**
 - o 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 ()
 - o 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 ()
 - o 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

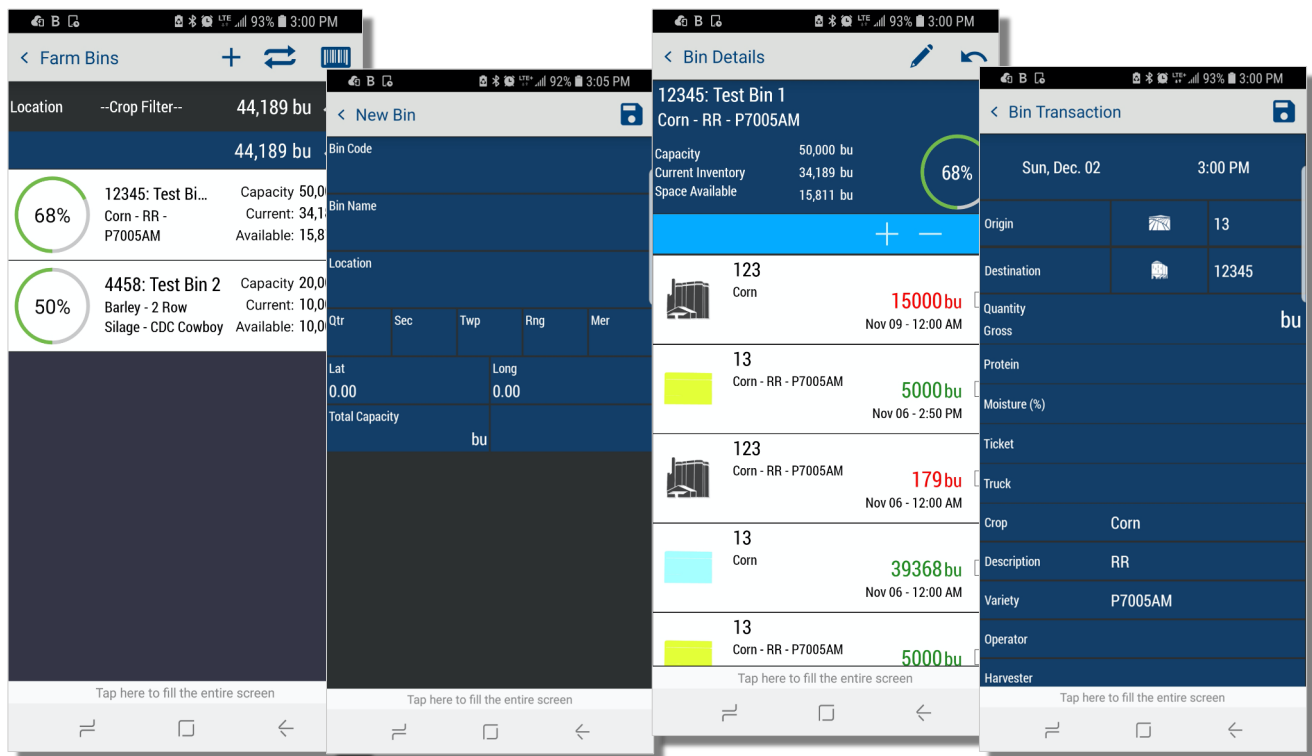
The screenshots illustrate the Farmer Pro Storage interface, which includes several key components:

- Transaction Manager:** A table for managing transactions, with columns for Crop, Grade, Moisture, Ticket, Date, Volume, Net Volume, and Location. It includes a 'Manage' button and a 'Print' icon.
- Bin Profiler:** A table for profiling bins, with columns for Location, Code, Unit, Description, Location, Capacity, Crop, Crop Desc, Variety, and Inventory. It includes a 'Manage' button and a 'Print' icon.
- Bin Activity Report:** A table for reporting bin activity, with columns for ID, Date, Time, Crop, From, To, Volume, Net Volume, and Dockage. It includes a 'Manage' button and a 'Print' icon.
- Transaction History:** A table for viewing transaction history, with columns for Crop, Grade, Moisture, Ticket, Date, Volume, Net Volume, and Location. It includes a 'Manage' button and a 'Print' icon.

1. Click **View Transaction History** ()
 - Click **Edit** icon () to edit a transaction
 - Click **Print** to print a transaction report
2. 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**
3. 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.
 - 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.
 - 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**
 - 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.
 - 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		11/01/2018	
JOHN DEERE TIFARMS		11/01/2018	

+ ADD ACCOUNT ▾

- Raven Slingshot®
- AGCO Variodoc
- JD Link
- AFS Connect
- PLM Connect

Sync Data
Manage Companies
Delete

Settings
Import Fields
Import Files
Delete

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

The screenshots illustrate the Trimble Display website interface, showing various data views and settings:

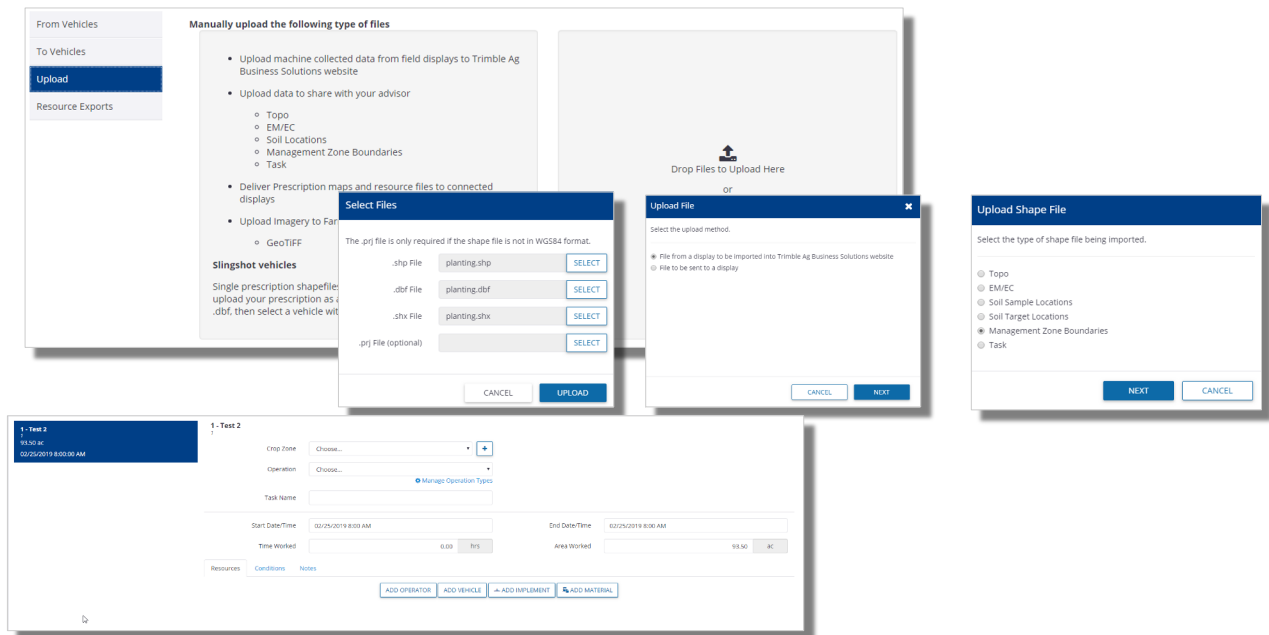
- Field Task History:** Displays a list of tasks, including "Planting" and "CORN HARVEST 11-8-16", with details like date, time, client, farm, and field.
- Menu:** A sidebar menu with options like "Field Profiler", "Farm Map", "Crop Planner", "Work Orders", and "Equipment Activity".
- Overview:** A main dashboard area with a "FIELD MAP" tab, showing a map of a field with a color-coded yield distribution. It includes a "LAYERS" panel on the right with options like "Stark#14 - Harvest 1 - Dry Yield" and "Field Boundary".
- Vehicle Properties:** A form for configuring a vehicle, including fields for Name, Manufacturer, Vehicle Type, Vehicle Group, Unit Cost, and Attached Devices (Display Device, Telematics Device, Vehicle License).
- Office Sync:** A settings panel for configuring data transfer, including options for "Office Sync", "Check Server", "Send Data", and "Auto-send without prompt".

- 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**

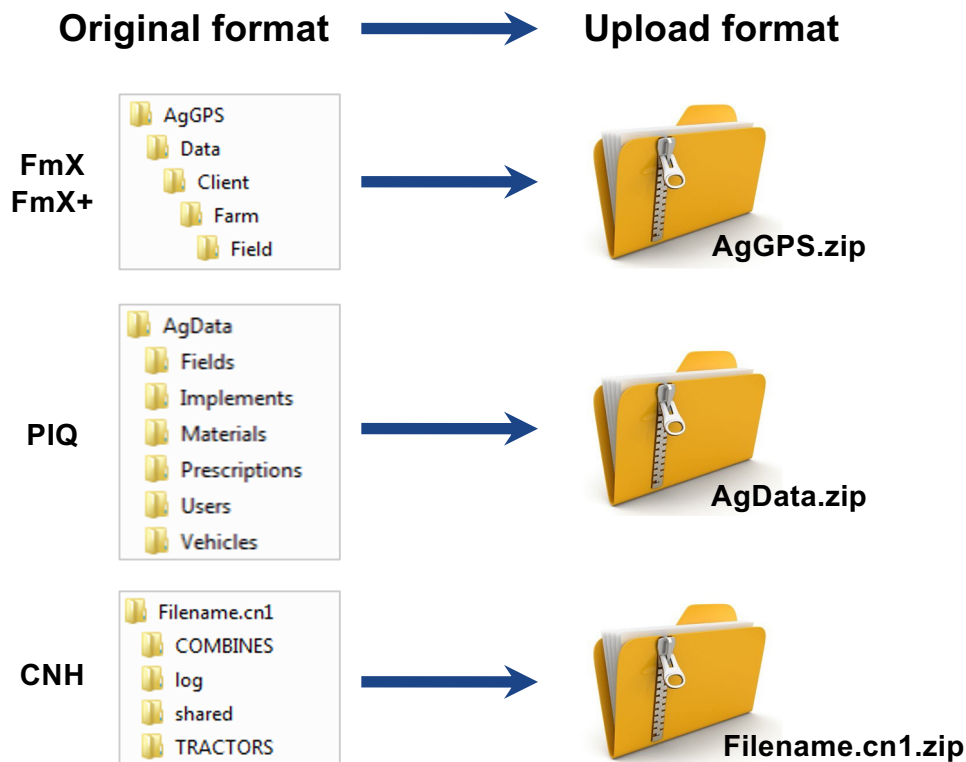
- To upload **display data**, the file needs to be zipped before uploading
- **Search for** or **drag** the zipped display file for upload
- Select **“File From Display to be Imported...”**
- Select the **display format**
- Select the **Vehicle** and Click **Upload**
- Monitor the **processing status**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



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

Option 3 | More Info for Uploading

FARMER PRO ONBOARDING



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

Trimble Farm Field Fleet Analytics Data Transfer

2016 Jump to field

Menu

Field Profiler

Farm Map

Crop Planner

Work Orders

Equipment Activity

Harvest Summary

Farm Calendar

Q FILTER BY... CLEAR FILTER

Active Filter: 05/10/2016 - 10/31/2018

All Name	Date	Client	Farm	Field	Year	Crop
Spraying	09/28/2018 9:42:21 AM	Name Customer1	North America Test	Iowa UTM n	2018	Wheat Winter
Spraying PSM	09/27/2018 4:00:21 PM	Name Customer1	North America Test	Iowa UTM n	2018	Wheat Winter
rodney	11/23/2017 9:16:08 AM	AGCO	Rodney	field5	2017	Corn
rodney	11/22/2017 10:49:43 AM			field04	2017	Corn
rodney	11/21/2017 3:42:39 PM			field03	2017	Corn
rodney	11/20/2017 8:50:16 PM			field02	2017	Corn
rodney	11/15/2017 7:50:53 PM			Field01	2017	Corn
Harvest 1	10/11/2017 12:49:21 PM	Demo Client	Stark Farm	Stark#14	2017	Corn
Planting	04/21/2017 12:59:07 AM	Demo Client	Stark Farm	Stark#1	2017	Corn
CORN HARVEST 11-8-16	11/08/2016 3:08:29 PM	csu	MAIN STATION	500B	2016	Corn
CORN PLANTING 5-13-16	05/13/2016 11:00:47 AM	csu	MAIN STATION	500B	2016	Corn

1 task selected

+ADD EDIT DELETE

VERIFY MERGE REASSIGN

Summary

Stark#1
Demo Client: Stark Farm
Tillable area: 28.74 ha
2017 Corn: Planting
27.16 ha; 3.39 hrs
04/20/2017 9:35 PM - 04/21/2017 12:59 AM

Map Inputs

Seed Rate CIP 1498AM

(kg/ha) 58.45

Leaflet | Copyright © ALK Technologies Inc., © HERE, Imagery © DigitalGlobe | Report Map Problems

VERIFY TASK EDIT CLOSE

Inputs

Showing input totals for Task

Category	Item	Hours	Cost
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

Client: Stark Farm

Crop: 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

Sprayer

Area Worked: 27.16 ha

Cost: \$0.00 / ha

10-34-0

Area Applied: 28.31 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 with the caution symbol Spraying - indicated
- Select an activity item to **Add, Edit, or Delete**

1 task selected



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



1. Use the **Filter By...** drop down menu to filter the equipment activity list to Date, Crop, Is Verified, etc.
2. Click on a specific task to open the Summary view of the mapped attributes as well as the Inputs data
3. 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 sidebar on the left includes 'Manage Files' and 'Settings'. The main content area features a top navigation bar with 'From Vehicles', 'To Vehicles', 'Upload', and 'Resource Exports' tabs. Below these tabs is a table listing files with columns: Date Uploaded, Vehicle, File Name, Size, and Status. A modal window is open, showing details for a file named 'AgGPS.zip' uploaded on 1/31/2018. The modal includes fields for Date Uploaded, Device (4 Wheel Drive Tractor), File Type (FMV AgGPS), Transfer Method (Manually Uploaded), File Size (2.47 MB), Status (Processed), and an 'Errors & Warnings' section.

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.

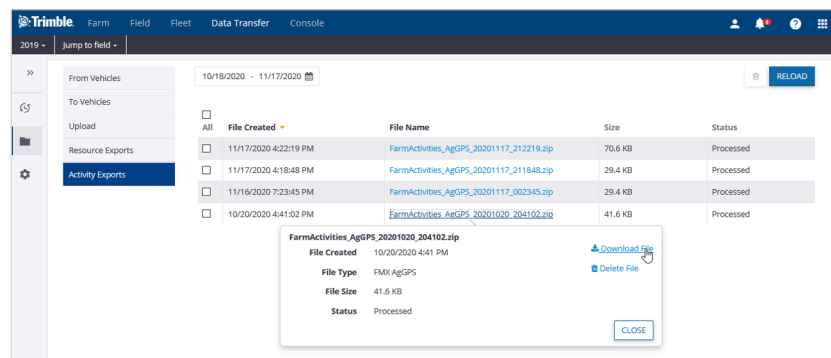
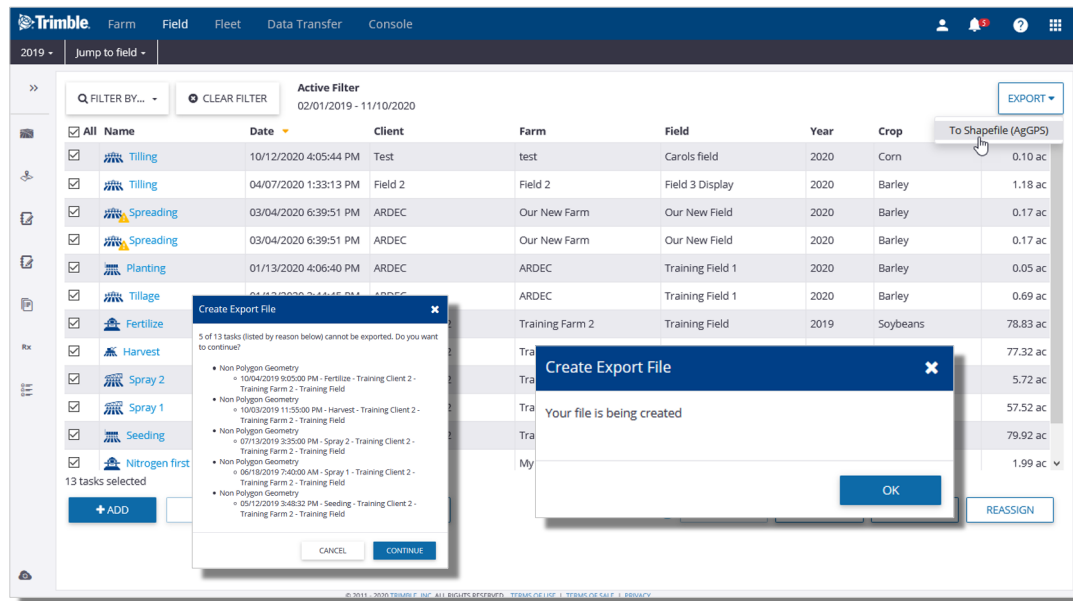
2. Click on a **file name**

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

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

Online | Equipment Activity Export

FARMER PRO ONBOARDING



Export AgData as-applied data from Online in Shapefile format to be able to utilize your PIQ as-applied data outside of Online.

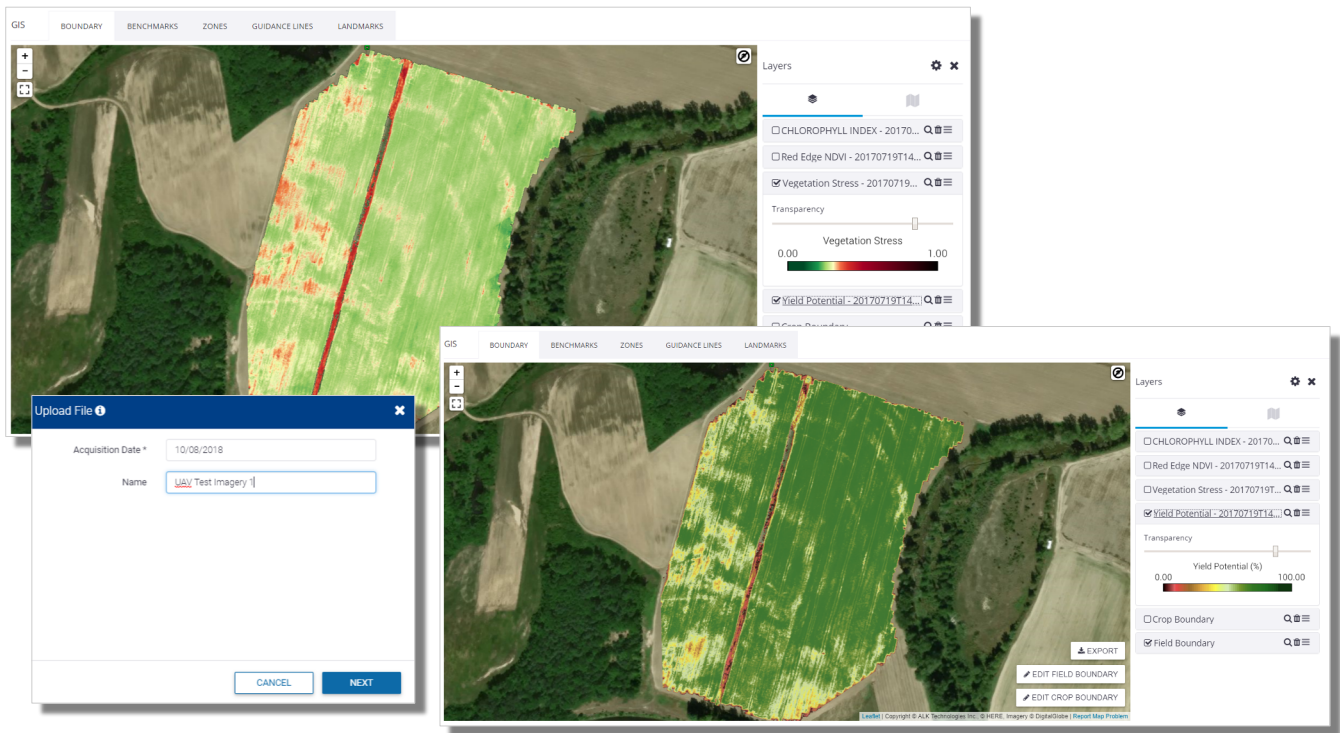
1. Open Field>Equipment Activity
2. Place a check mark beside the tasks you would like to export
3. Click on the Export button in the upper right corner of the screen
4. Select To Shapefile (AgGPS)
 - a. The output file converts PIQ AgData files into an AgGPS directory structure where the shape files are embedded
 - b. Point-based data and tasks with no coverage will notify of an exception and are not included in output file.
5. Click the OK button on the Create Export File confirmation window.
6. A zip file containing the exported as-applied data is then created and stored on the Data Transfer>Activity Export page where it can be downloaded.

0.3.b

Generic Data Upload

Online | Import Data (UAV Imagery)

FARMER PRO ONBOARDING

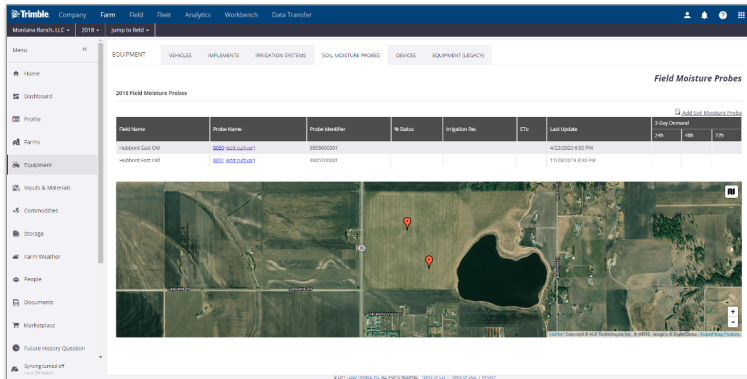


1. Go to the **Data Transfer** tab (top menu)
2. Select **Manage Files**
3. Click **Upload** tab
4. Click **Upload Files**
5. Select the desired **GeoTiff**
6. Enter the **Acquisition Date** of the imagery
7. Enter an appropriate **Name** for the imagery
8. Click **Finish** when pop-up confirms import 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.

Online | Soil Moisture Probes

FARMER PRO ONBOARDING



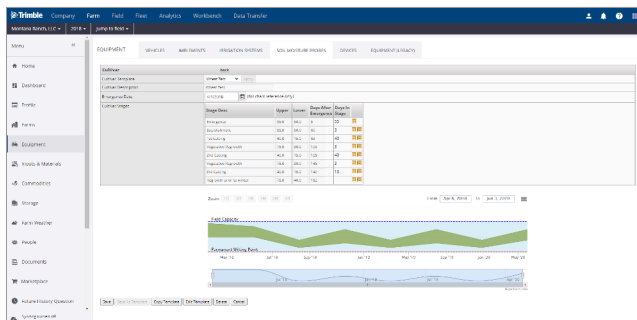
Step 2

Step 4

Field Moisture Probes

Field	Name	Lat, Long (Decimal Degrees)	Identifier	Type	Soil Type	Field Capacity (VWC%)	Onset of Stress (VWC%)	Start Date	End Date	Time Offset
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Save Delete Selected



Step 5

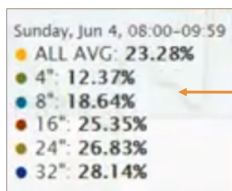
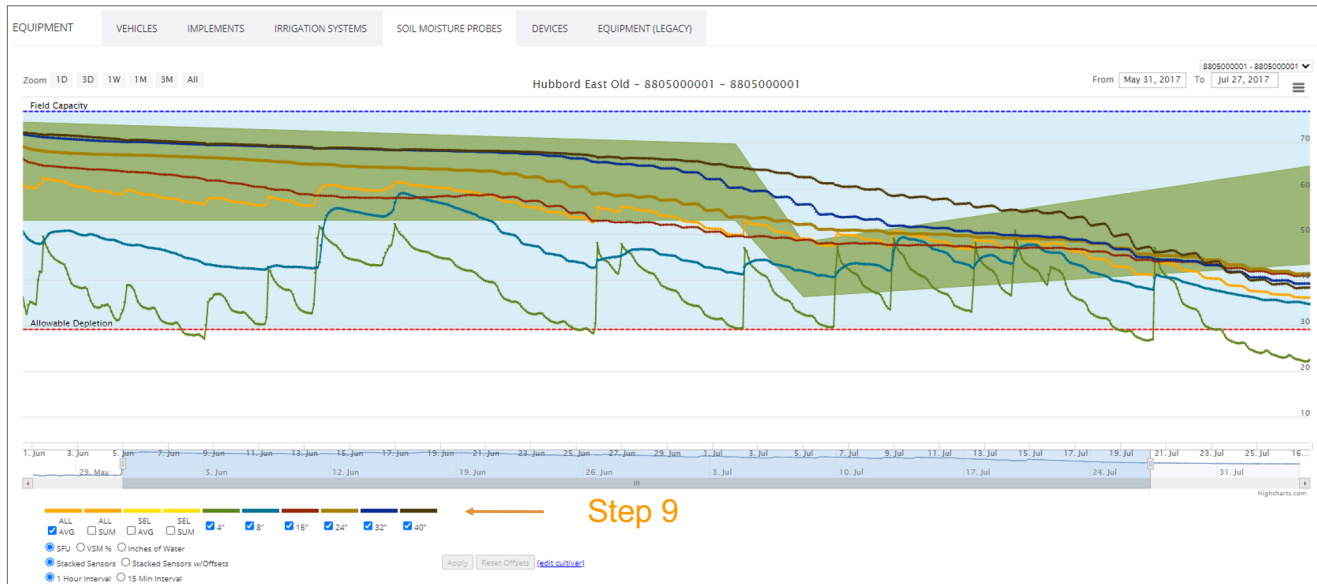
1. Soil Moisture probes can be connected into Trimble Ag Software. First, you need to work with your probe provider to get the data in the cloud. You can find the list of probes on Step 2.
2. In Trimble Ag software go to Farm >> Equipment >> Soil Moisture Probes
3. To add a new probe, click **Add Soil Moisture Probe** over the map view
4. In that dialog fill all the information requested. A location in the map will be shown based on the lat/long entered.
5. Click in **"edit cultivar"** in front of the Probe Name to access the input table for specific thresholds for how you want to monitor each cultivar. That list includes Crop Stages, Upper and Lower Soil Moisture Levels, Days after Emergence and the period/days in that stage.
6. On the bottom of the page you can see the graphical view of the moisture expected based on the values entered.
7. Click **SAVE** to ensure changes take effect.



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

Online | Soil Moisture Probes

FARMER PRO ONBOARDING



8. To access the current moisture status, you can either click on the probe name or on the map pin from the main page.
9. In that page you can change the time window for visualization, as well as the variables you want to display:
 - i. The soil depths for visualization (it varies based on your probe sensors)
 - ii. % Volumetric Soil Moisture (VSM), Scale Frequency Units (SFU) or Inches of Water
 - iii. Hour interval for data sharing (it depends on the probe source)
10. Click **Apply** to see the updates on the chart
11. As you hover through the chart, You will see the average informed for each depth selected throughout the season.



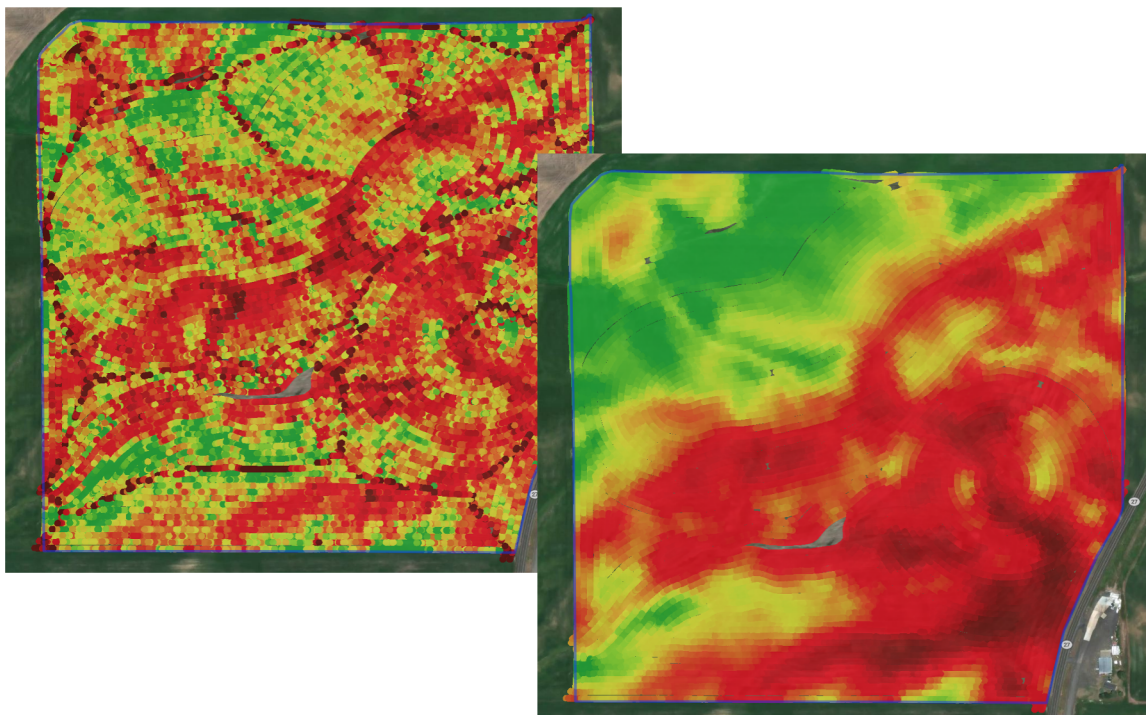
Watch this [video](#) to learn more.

0.3.c

Yield Data Upload / Cleaning

Yield| Cleaning

FARMER PRO ONBOARDING



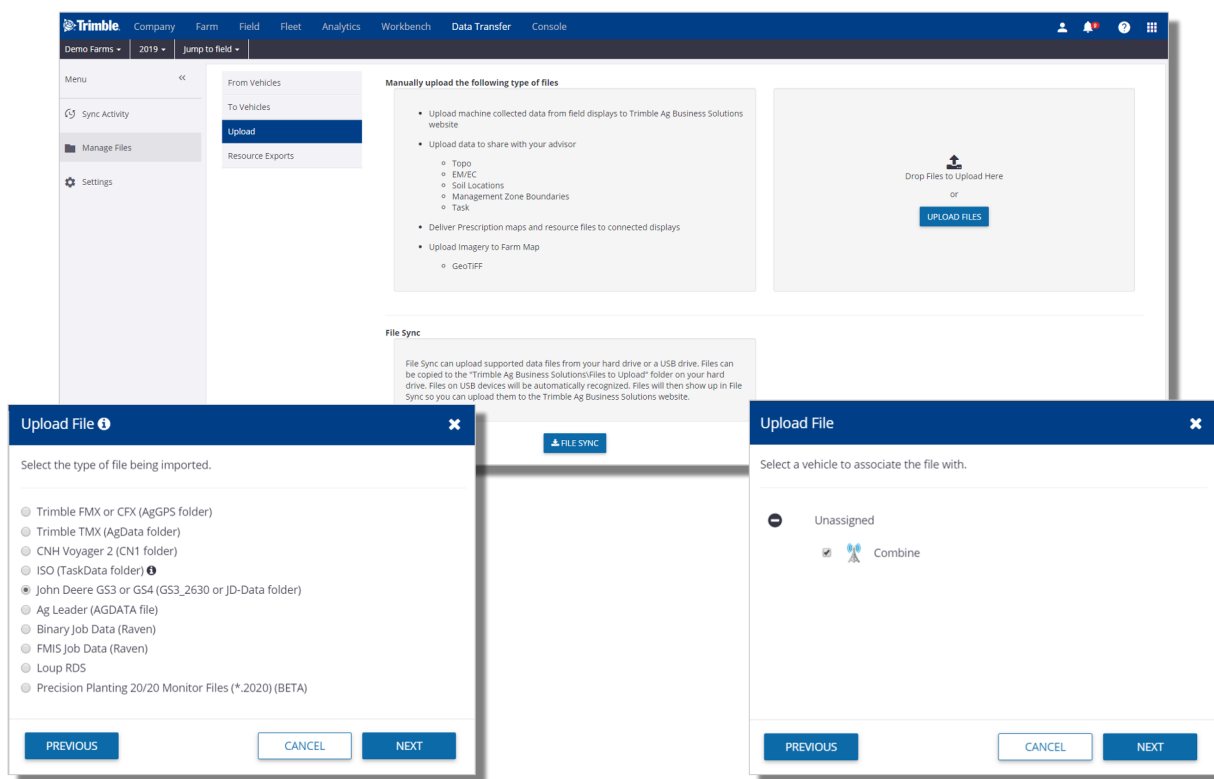
1. Eliminate Problematic Points
 - GPS Errors
 - Moisture sensor issues
 - Flow delay issues
 - Overlap passes
 - Speed and flow issues
2. Calibration between harvesters
 - Make relative adjustment
 - Use the offset entered by the user
3. Application of the scale ticket
 - If available by the user, scale 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

The screenshots show the following steps:

- Select Files:** A dialog box with fields for .shp File, .dbf File, .shx File, and .prj File (optional), each with a 'SELECT' button and 'CANCEL'/'UPLOAD' options at the bottom.
- Upload Shape File:** A dialog box asking to select the type of shape file being imported, with radio buttons for Topo, EM/EC, Soil Sample Locations, Soil Target Locations, Management Zone Boundaries, Task, Wetness Potential, and Soil Optix. 'NEXT' and 'CANCEL' buttons are at the bottom.
- Upload File:** A dialog box asking to select a vehicle to associate the file with, showing 'Unassigned' and 'Combine' options. 'PREVIOUS', 'CANCEL', and 'NEXT' buttons are at the bottom.
- Choose Field(s):** A dialog box showing a list of fields with checkboxes, including 'Test Client', 'Test Farm', and 'B1 Test'. 'CANCEL' and 'OK' buttons are at the bottom.
- Upload Shape File (Detailed):** A form with dropdown menus for Flow, Yield, Width, Wet Yield Mass, Commodity, Moisture, and Engaged, with 'PREVIOUS', 'NEXT', and 'CANCEL' buttons at the bottom.
- Task Details:** A form for task configuration including Crop Zone, Operation, Task Name, Start Date/Time, End Date/Time, Time Worked, Area Worked, and a table for Resources (Harvested, Conditions, Notes) with fields for Area Harvested, Average Yield, Price, and Quantity Harvested. 'CANCEL' and 'SAVE' buttons are at the bottom.

- 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"/>	<input type="text" value="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:

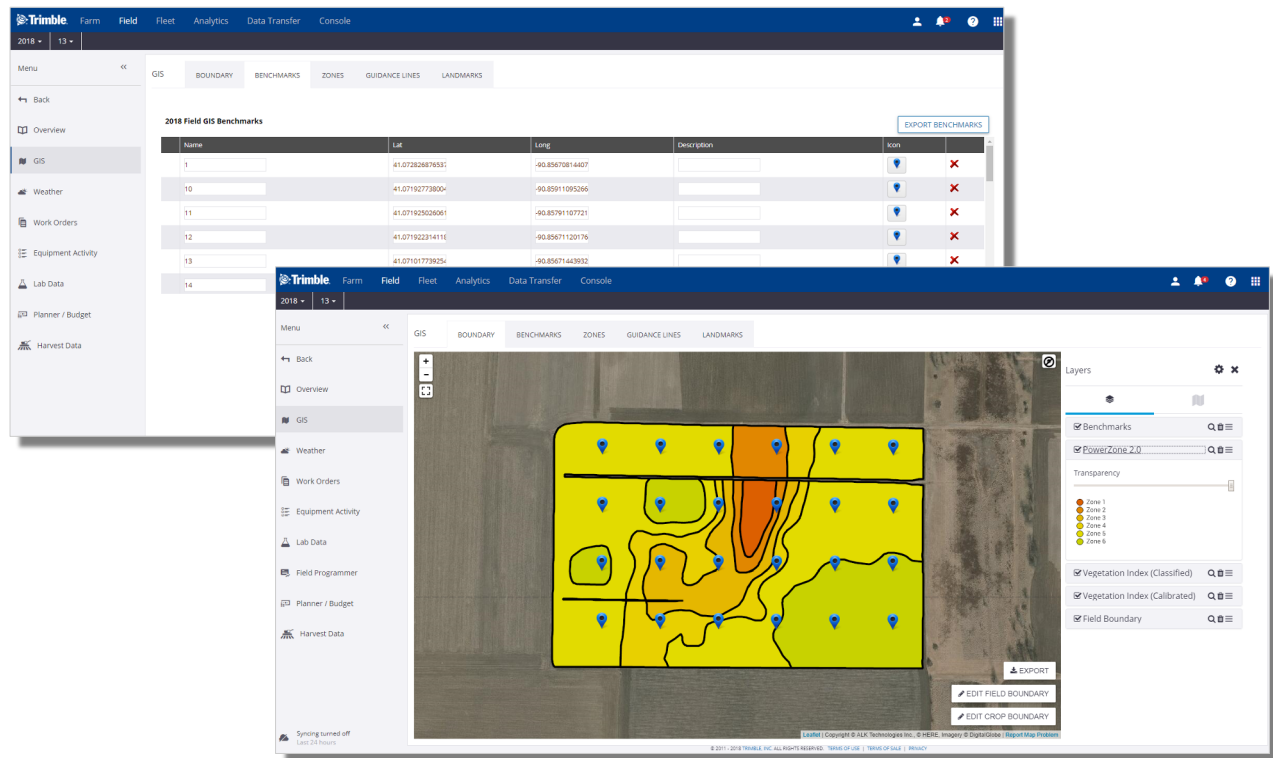
- How to collect soil samples and review lab results
- How to document and review in-season applications
- How to document a scouting event in mobile and online
- How to review Farm Weather data
- How to monitor your crop growth
- Using Prescriptions
- How to create and manage Work Orders in mobile and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

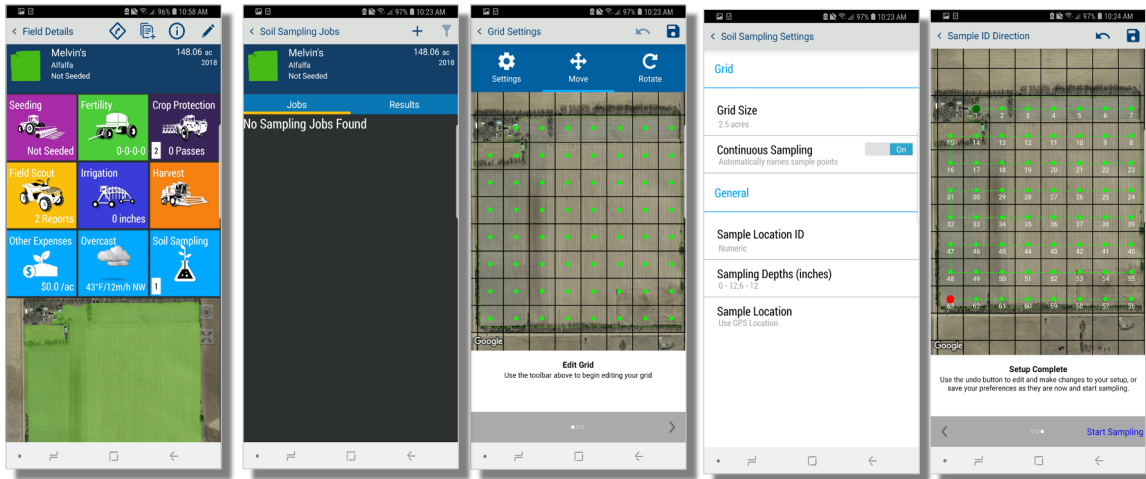
Online | Soil Samples (Lab Data)

FARMER PRO ONBOARDING

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**
 - o Correct any errors that are identified, if any.
7. Click **Submit Data**

Mobile | Grid Soil Sampling

FARMER PRO ONBOARDING



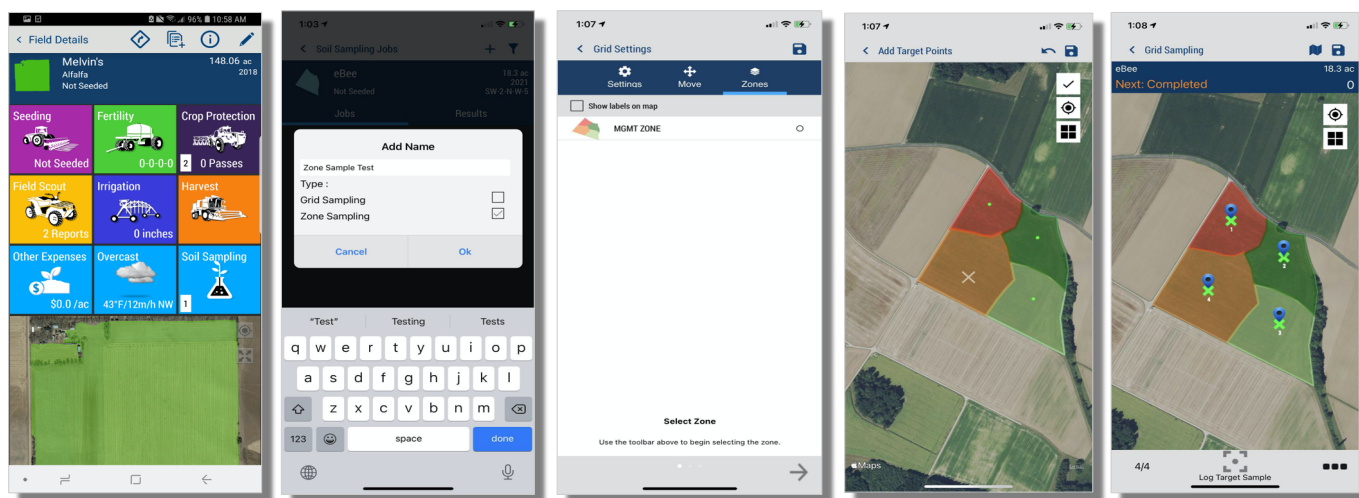
1. To create a **Grid Sampling** operation, tap the **desired field** in your **Trimble Mobile App** > Tap on the **Soil Sampling** tile
2. Tap the **(+)** symbol to create a new grid
3. Tap **Settings** >
 - Grid size **5 Acres** > Continuous Sampling **On** > Sample Location ID is **Numeric** > Sampling 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 Grid
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.

Mobile | Zone Soil Sampling

FARMER PRO ONBOARDING



1. To create a **Zone 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 sample job
3. Select the 'Zone Sampling' option and give the sample job a name
4. Select the management zone that you want to use for this sample job
5. If you want to use a grid for reference, in the same screen you can also use the "Settings" to change the grid size and the "Move" button to align the grid in the boundary
6. In the next screen, the grid shows for reference, and you can tap the icon with four squares to remove the grid. Tap the **(+)** symbol to start adding target points. Move the 'X' to the desired location and tap the checkmark. Repeat process until all target points have been added and tap the save icon
7. Tap **bottom right arrow** to proceed to next screen
8. Edit point locations as needed using 1 of 3 methods
 - tap the point and manually relocate it within that grid or to delete it
 - tap the point randomizer
 - tap **(+)** symbol to manually add a new point
9. Tap **bottom right arrow** to proceed to next screen
10. Tap the **start location** of the sampling operation > tap the **sample direction** > this will **number** the sample locations
11. Tap **Start Sampling** at the bottom right corner
12. When you are in the field overtop of the **sample location**, tap **Log GPS Sample** to mark sample location as **complete**.
13. Tap **Save** icon in top right > tap **Save and Mark Complete**



Watch this video to learn more.

Online | Visualize Samples

FARMER PRO ONBOARDING



1. Once you have marked the sample job complete on the mobile app and synced to online, you can visualize the targets/samples in the **GIS tab**
2. Navigate to field profiler, and find the field you have the completed sample job for. Once in the field manager page for that field, go to the **GIS menu** on the left side of that page
3. Under **GIS>boundary**, you will see a gear icon in the top right corner. Click on that gear
4. Here you can enable the layers you want to visualize on the map. Under the management zone dropdown, check off the zone you are using for this sample job. Also check off the “soil samples” option, and press save
5. Make sure both options are also checked off on the right side of the screen under “Layers”
6. You should now be able to visualize both the sample job as well as the zone used to sample. If you have more than one sample job for this field, you can click on “soil samples” on the right side of the screen, and a dropdown will appear which allows you to select which job you want to visualize on the map

Online | Tissue Sample (Lab Data)

FARMER PRO ONBOARDING

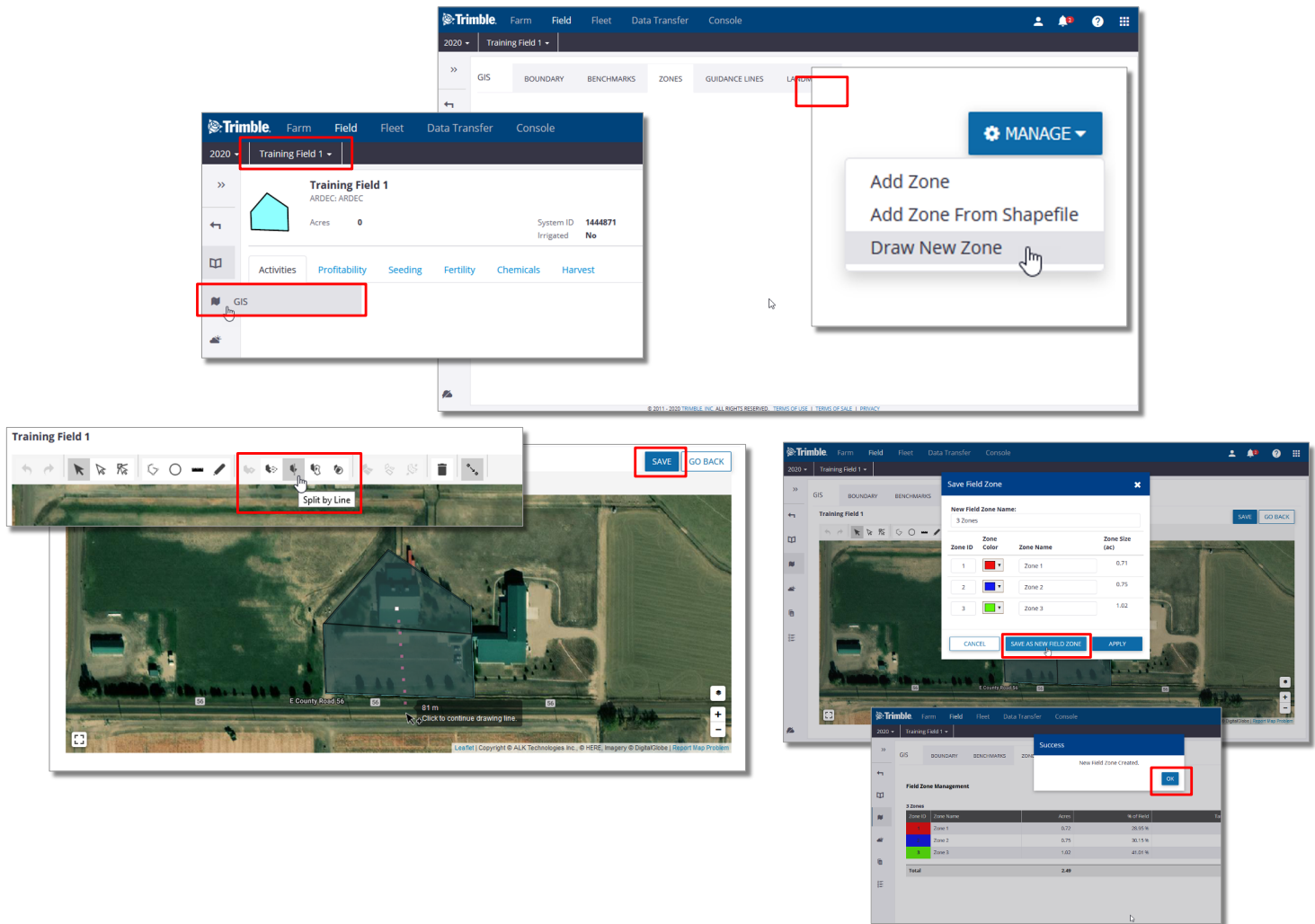
1. Click **Analytics > Lab > Tissue**
2. under **Import Tissue Test Data From Excel**, click **Choose File** > locate the analysis results in **.XLS** format from the lab > click **Open** > click **Upload Tissue Test Results From File**
3. Select the **.XLS attribute** from a **columns Dropdown** menu 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 | Create a Manual Zone

FARMER PRO ONBOARDING



1. Open the field where the zone map is going to be created
2. Select the GIS tab
3. Open the Zones tab
4. Click on the Manage button
 - a. Add Zone From Shapefile (the shapefile for zones must have unique ids for each zone)
 - b. Draw New Zone
 - i. Use the drawing toolbar in the map view to manually create the desired zones, then click the Save button
 - ii. Enter the New Field Zone Name and select the desired color assignment for each zone, click the Save a New Field Zone button then click OK on the Success confirmation window.

Online | Upload Management Zone

FARMER PRO ONBOARDING

The screenshot displays the Trimble Farmer Pro software interface. The main window shows a satellite map of a field with a yellow and orange zone overlay. The 'GIS' tab is selected in the top navigation bar. A 'Field Zone Management' pop-out window is open, showing a table of field zones and a 'Save Field Zone' dialog box.

Field Zone Management Table:

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 Dialog:

Zone Name: Zones - 2018
 Zone ID Column: Zone
 Low Value ID Column:
 High Value ID Column:
 (Green Zone) | Cancel

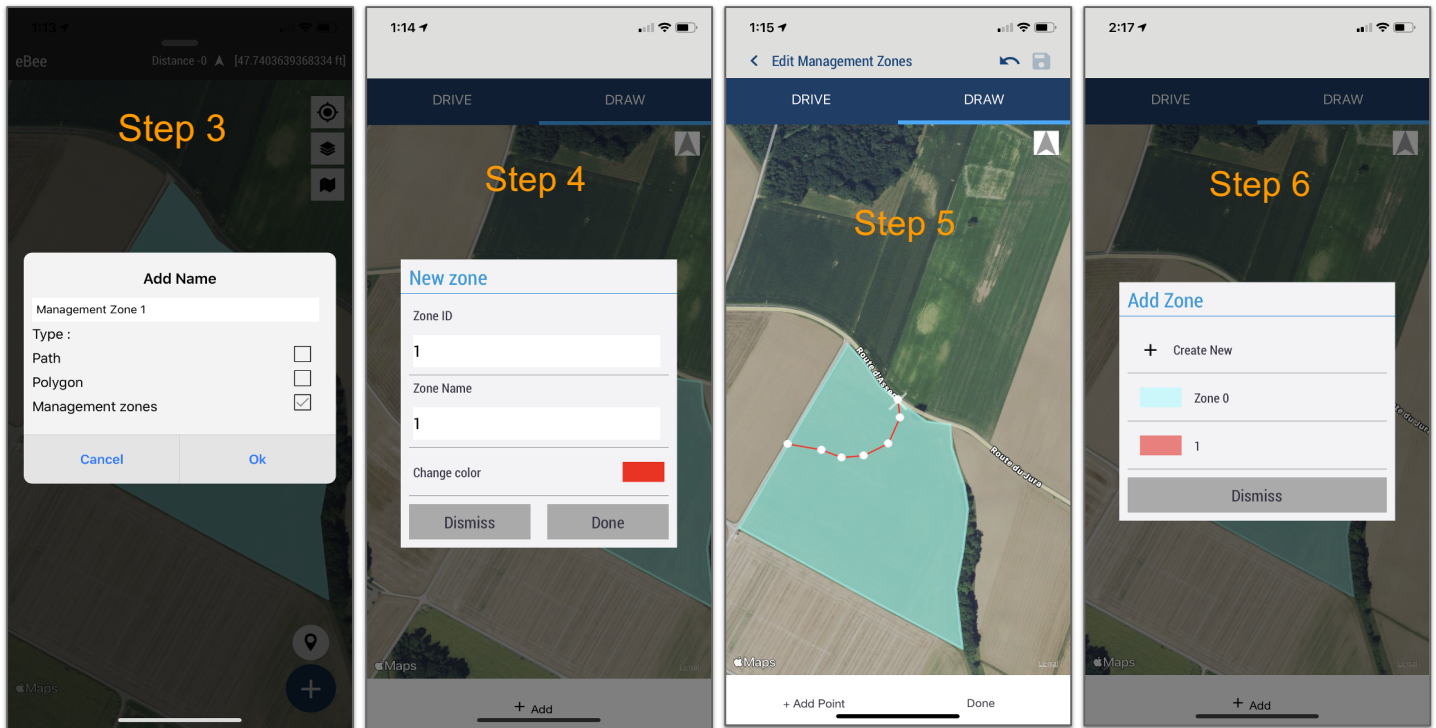
DBF Values Table:

Zone	Field	Area-Calc	Color
4	13	21.83	Red
1	13	21.83	Red
3	13	7.41	Green
2	13	33.17	Green

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**

Mobile| Management Zone Creation

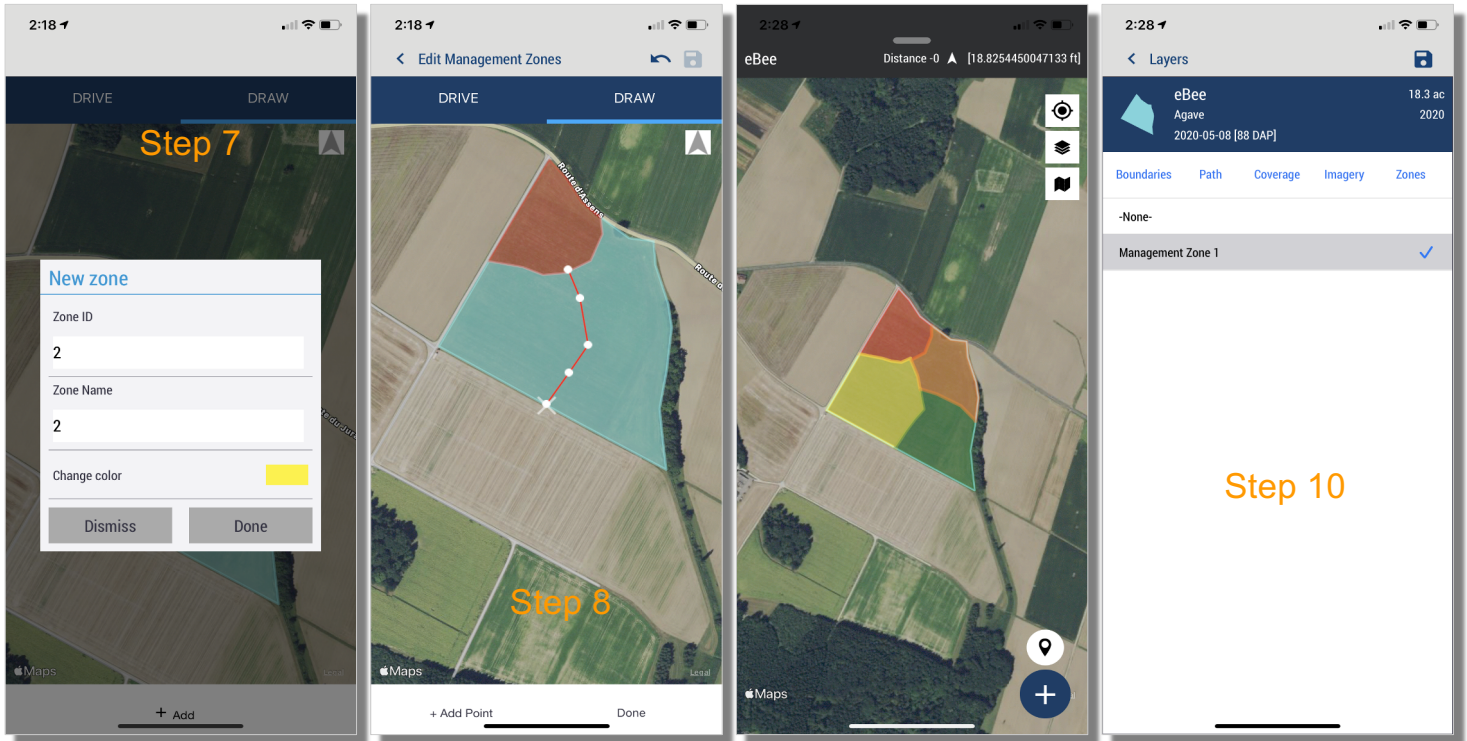
FARMER PRO ONBOARDING



1. In the mobile app, select the “fields” tile from the home page, and then choose the field you want to create a zone for.
2. You will then see a field map at the bottom of the page. Click on the grey bar above the field map to expand it to full screen.
3. Click the “+” sign in the bottom right corner. Check off the “management zone” option, set a name for the zone and click ok.
4. Choose to either drive or draw the zone. Click “+add”, set the zone name, zone ID, and color for the zone, then click done.
5. If you are driving the zone, click “start” and begin driving the zone boundary. If you are drawing the zone, move the X to the desired spot, click “+add point” then repeat the process to begin drawing out the first zone in the set.
6. By default we carve out the existing boundary and create it as a “zone 0” at the start of this process. When you finish adding the first zone in the set, and start another one, you will see this zone 0 created as well. You can either override it and turn it into a zone in the set, or leave it be and delete it online once the zone creation process is finished.

Mobile| Management Zone Creation

FARMER PRO ONBOARDING



7. Set the zone ID, zone name, and zone color for the second zone in the set.

8. Draw out the second zone in the set by clicking “+add point” until you first point in the zone again, which will close out the zone. Repeat steps 7 and 8 for each zone in the set until you are complete with the zone set.

9. Once you are finished, hit the save icon and you will see the newly created zone as a visible layer on the field map.

10. Click the layers icon (3 squares stacked on top of each other) and navigate to the zones tab. You will see the zone listed there where you can enable it or disable it as a layer showing on the field map. Once you sync the mobile app, this zone will also be available online under GIS>zones.

0.4.c

Applications

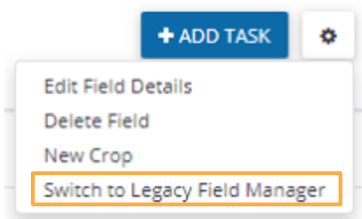
Online | New Field Manager

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:

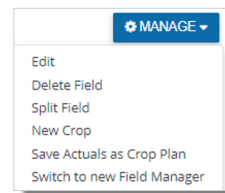
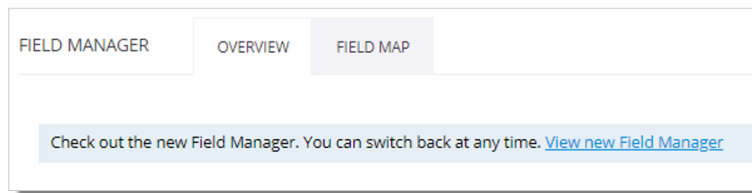
- View the New Field Manager
- Add a product application using the New Field Manager
- Add a product application using the Legacy Field Manager



- 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	04/24/2018	-18	94.88 ac	\$256.45
▼ Seeding	05/12/2018	0	98.06 ac	\$93.55
▼ Soybeans Spraying	06/24/2018	42	94.88 ac	\$50.24
▼ Harvest	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) **\$569.15** Expenses / ac **\$428.90** Profit / ac **\$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

	Total	\$ / ac	\$ / bu
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 Manager)
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

The screenshots illustrate the 'Training Field - Flat - W' interface. The top screenshot shows the 'Seeding' tab with a table of seeding activities. The second screenshot shows the 'Fertility' tab with a table of fertility activities. The third screenshot shows the 'Chemicals' tab with a table of chemical applications. The fourth screenshot shows the 'Harvest' tab with a table of harvest data. Each table includes columns for Date, Crop/Material, Rate, Area, and Cost/Area. A context menu is shown on the right, listing actions: View Summary, View Report, Edit, and Delete.

Seeding Tab Data:

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

Fertility Tab Data:

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					


Chemicals Tab Data:

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

Harvest Tab Data:

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		

Using the Activity tabs

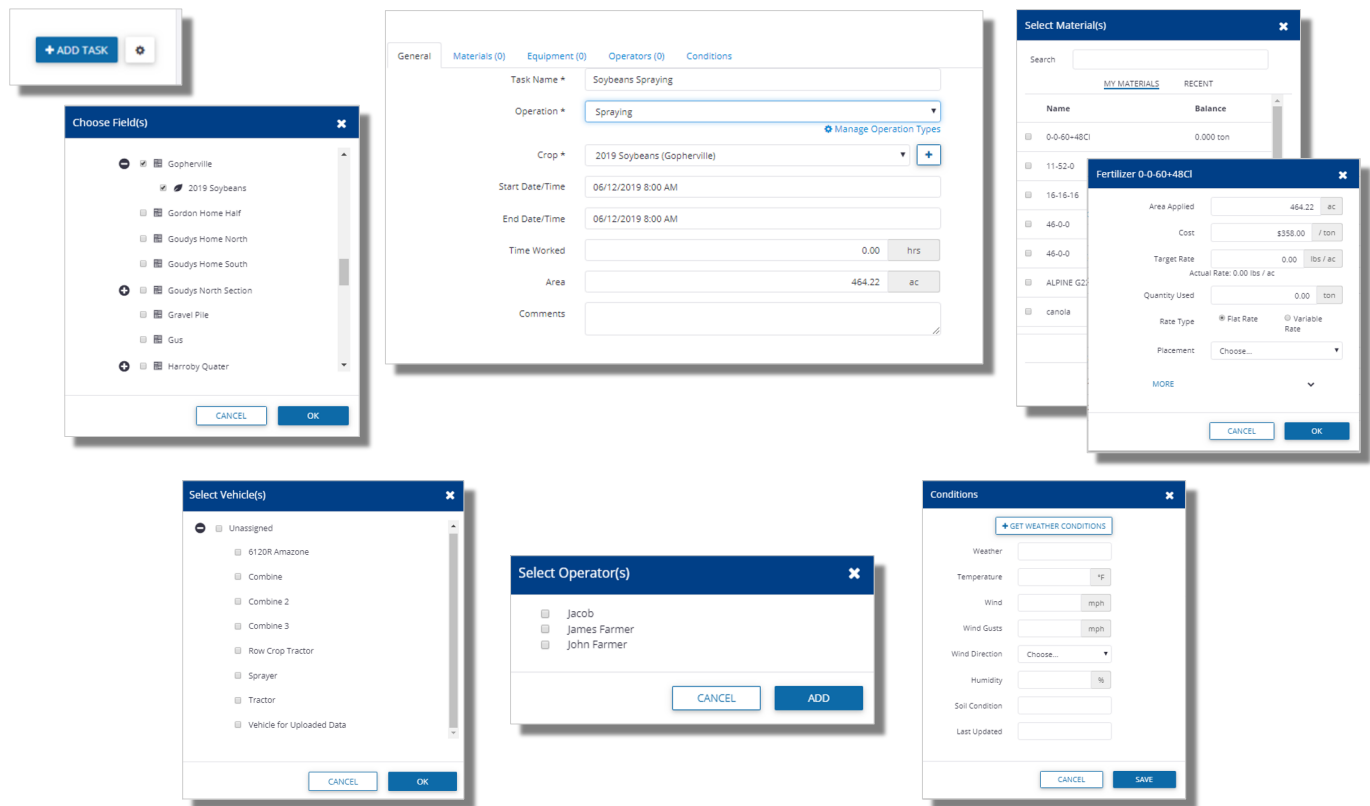
1. The Seeding, Fertility, Chemicals, and Harvest tabs summarize the field activities in each of these areas
2. Click the more button  on the right edge of any of these activities for additional actions
 - View Summary
 - Inputs view, map view, and yield cleaning for harvest activities
 - View Report
 - 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(**+ ADD TASK**) 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. On the left, a sidebar shows 'Training Field - Flat - W' with details: 'Training Client 1: 94.88 ac', '07/25/2019 8:00:00 AM'. The main window is titled 'Completed Soybeans Harvesting' and has tabs for 'General', 'Materials (0)', 'Equipment (0)', 'Operators (0)', 'Conditions', and 'Harvest'. The 'General' tab is active, showing 'Task Name * Soybeans Harvesting', 'Operation * Harvesting', and 'Crop * 2018 Soybeans (Trainin)'. A 'Harvest Soybeans' dialog box is open on the right, showing fields for 'Area Harvested' (94.88 ac), 'Price' (\$0.00 / bu), 'Average Yield' (35.41 bu / ac), and 'Quantity Harvested' (3,360.00 bu). The dialog has 'CANCEL' and 'OK' buttons. At the bottom of the main window, there are 'CANCEL' and 'SAVE' buttons.

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.
 - o 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 'Training Field - Flat - W' interface for Soybeans, planted on 05/12/2018, covering 94.88 Acres. The main dashboard includes tabs for Activities, Profitability, Seeding, Fertility, Chemicals, Harvest, Irrigation, Scouting, and Other.

- Irrigation Tab:** Displays a table of irrigation events and a corresponding chart.

Date	Type
04/27/2018	Rain
05/31/2018	Irrigation - Canal
06/11/2018	Rain
- Weather/Irrigation Event Pop-up:** Allows adding events with fields for Date (07/25/2019), Type (Irrigation), Source (None), Amount (0.00 in), and Comments. Buttons for CANCEL and OK are at the bottom.
- Scouting Tab:** Shows a table of scouting reports.

Date	Type	Stage	Status
06/10/2018	Field Scouter	V1	

 Edit and Print buttons are available for each entry.
- Other Tab:** Displays a table of expenses and revenue.

Date	Description	Type	Cost/Area
07/24/2019	Rent	Other Variable	\$25.00 /ac
07/24/2019	Misc	Revenue	\$1.05 /ac
07/24/2019	Other Fixed	Other Fixed	\$0.53 /ac

 Edit and Delete buttons are available for each entry.
- Add Expense Pop-up:** A form to add new expenses or revenue with fields for Description (Choose...), Type (Other Fixed), Date (07/25/2019), Area (94.88 ac), Cost/Area (\$0.00 /ac), Total (\$0.00), and Comments. Buttons for CANCEL and OK are at the bottom.

Additional Field Events

- The Irrigation Tab:
 - Use Add Event to add an irrigation event
 - Chart view is also available
- 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
- 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	17.30
	Urea	Side band	Dry	75-0-0-0	65.21	163 lb/ac	46-0-0	26.90
	Side Band	Band	Dry	10-41-48-3-38.5CI-0.22n	65.21	165 lb/ac	5-24-29-1-23.3CI-0.12n	38.12
Total								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

Select fields to apply application to:

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

Product Application

Application Type: Ground Sensitive Area: No Yes Crop Stage: 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

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

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

Update Events

Date: Type: Detail: Comments:

Select fields to apply application to:

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

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

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 main content area is divided into several sections:

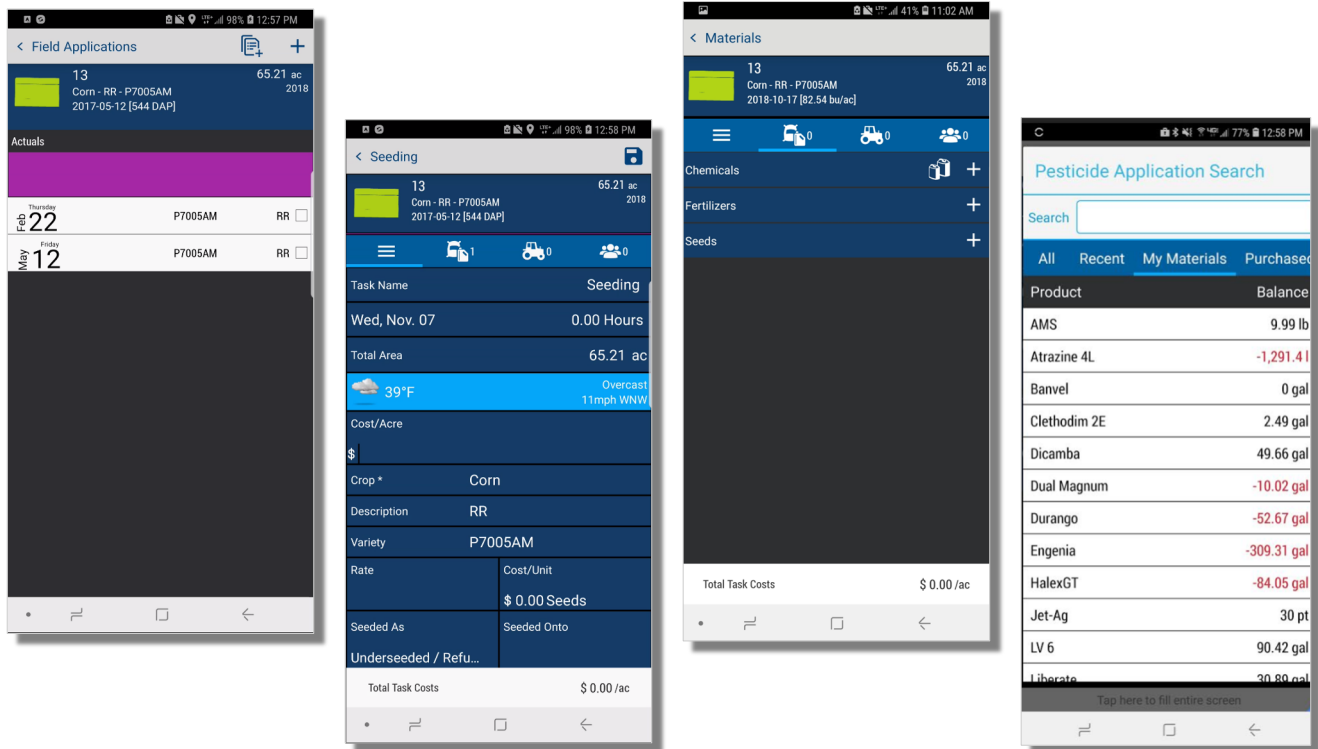
- 2018 Field Manager:** Shows field details for Field ID 867573, including Field Name (13 - Chester Farms), Acreage (65.21), and Variety (Corn - R8).
- Seed:** A table listing seed applications with columns for Date, Crop Type, Variety, Germ., Mortality, Seed, Plants, Rate, Comments, Acres, and Cost/Acre. It shows two entries for 5/12/2017 and 2/22/2018.
- Fertilizer Application:** A table listing fertilizer applications with columns for Date, Comment, Placement, Type, Actual Nutrient (lb/ac), Acres, Rate (Product blend), and Cost/Acre. It shows three entries for 5/12/2017.
- Field Scouting / Product Recommendations:** A table listing field scouting events with columns for Date, Type, and Status. It shows one entry for 6/8/2018.
- Product Application:** A form for applying products, including fields for Application Type, Sensitive Area, Applicator Name, and Applicator Comments. It also includes a table for Product details with columns for Product, Cost/Unit, Rate, Cost/Acre, Material, Comments, Target Pest, PHI, and REI.




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

Event Calendar

Legend: Seed (purple), Fertilizer (green), Product (blue), Harvest (orange), Scout (yellow), Field (red), Weather/Irrigation (light blue)

August 2018

6/6/2018 Entries

Product Application

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

Field List

Field ID	Farm Name	Field Name	Legal Desc.	Acres	Crop - Desc.	Variety
867526	Chenier Farms	Ochoner E		150.79		
867573	Chenier Farms	13		65.21	Corn - RR	P7005AM
1077211	Chenier Farms	west 7 - CropCare		63.99	Barley - 2 Row Silage	
1024002	CDN Farms	East Field - Corn		34.3	Corn	
1024002	CDN Farms	East Field - Soy		30	Soybeans	

8/20/2018 Product Entries

Show Products by Category: Product

Category	Description	Field Name	
Product	glyphosate (generic) @ 1.1 l/ac	Joe's	Edit
Product	glyphosate (generic) @ 1.1 l/ac	Dwayne Home Sec	Edit
Product	glyphosate (generic) @ 1.1 l/ac	15	Edit

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.
 - o 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

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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:

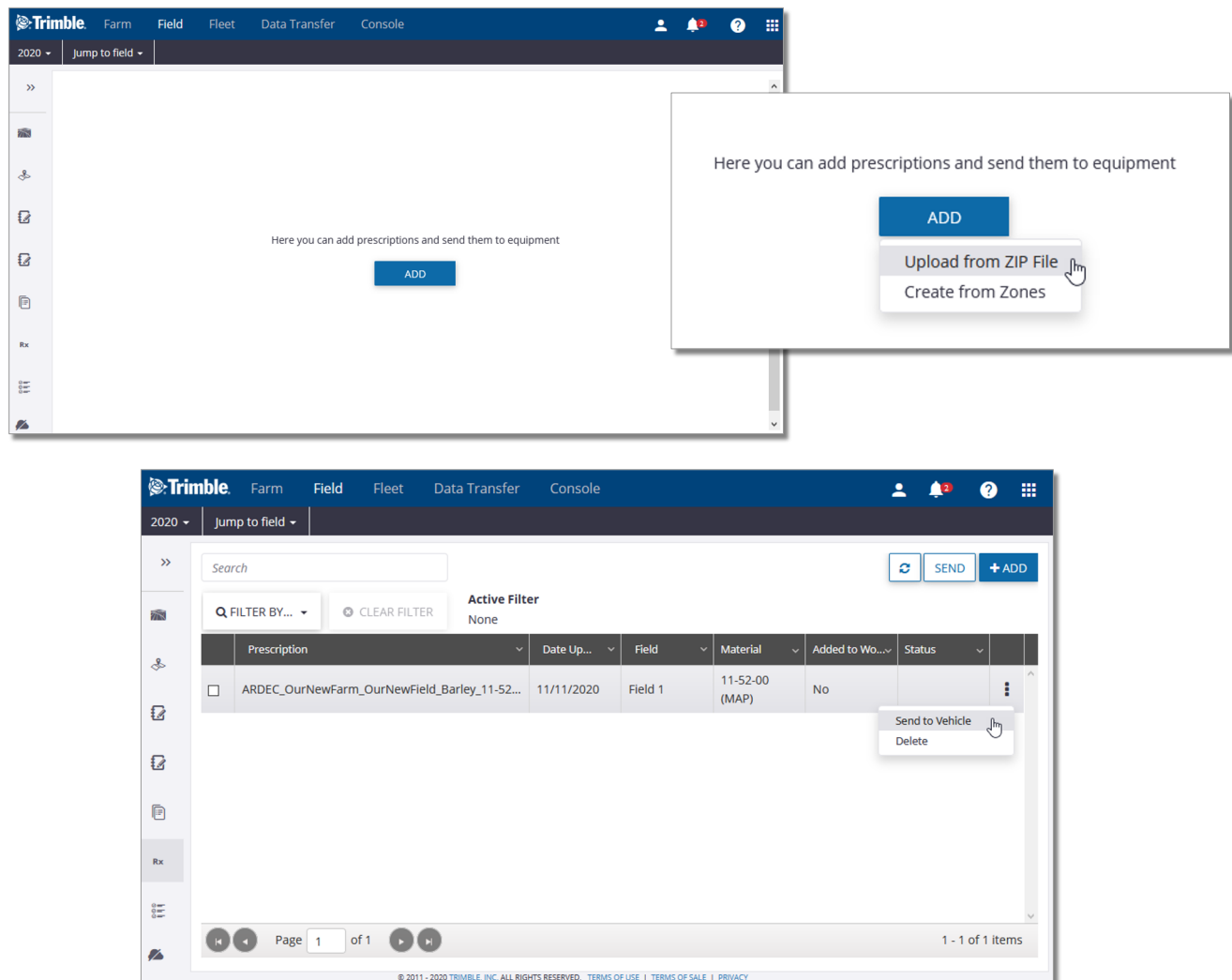
- The two ways to generate prescriptions in Farmer Pro:
 - The NEW Prescription Tab:
 - Create a Prescription from Zone
 - Upload a third party Rx
 - Send to connected display - office sync/ auto sync
 - Quick Bender:
 - Fertilizer prescriptions
 - Select Products and enter Nutrient Requirements
 - Set Zones, Passes, and Tanks
 - Repeat for any other Zones, Passes, or Tanks
 - Generate Report/Download Files

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 Tab Overview

FARMER PRO ONBOARDING



The Prescriptions tab has been added to create, store, and send prescription files to connected displays

- create from externally saved shape file prescriptions saved as a zip file
- create from zone maps uploaded or created in Farmer Core

Send directly to any AutoSync or Office Sync display

All material types are supported

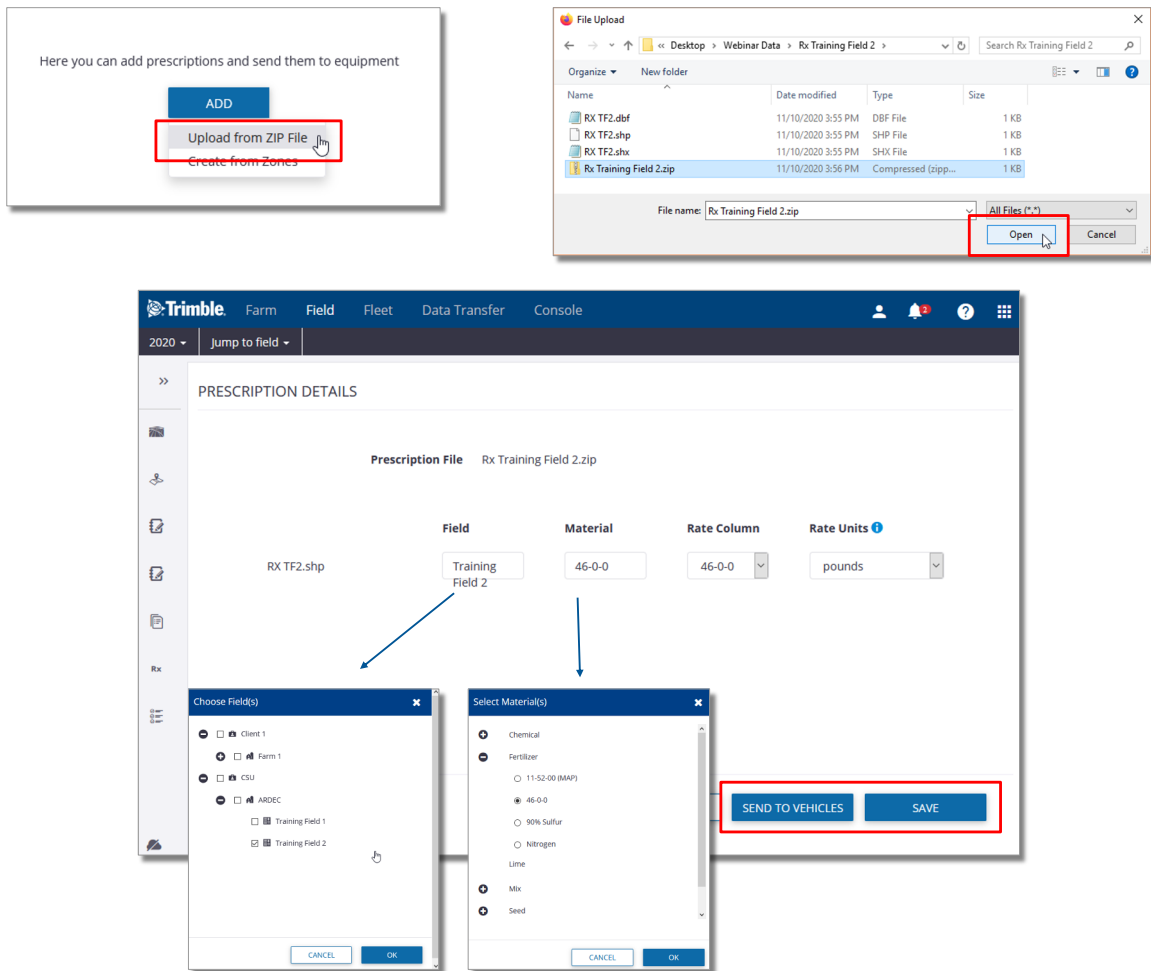
- Fertilizers, Seeds, Chemicals, Tank Mixes

Prescriptions that are saved are not able to be edited

- Delete a Prescription and recreate to make any changes
- Deleting a Prescription will not send a delete request to the display via AutoSync

Online | Add Prescription from Zip File

FARMER PRO ONBOARDING

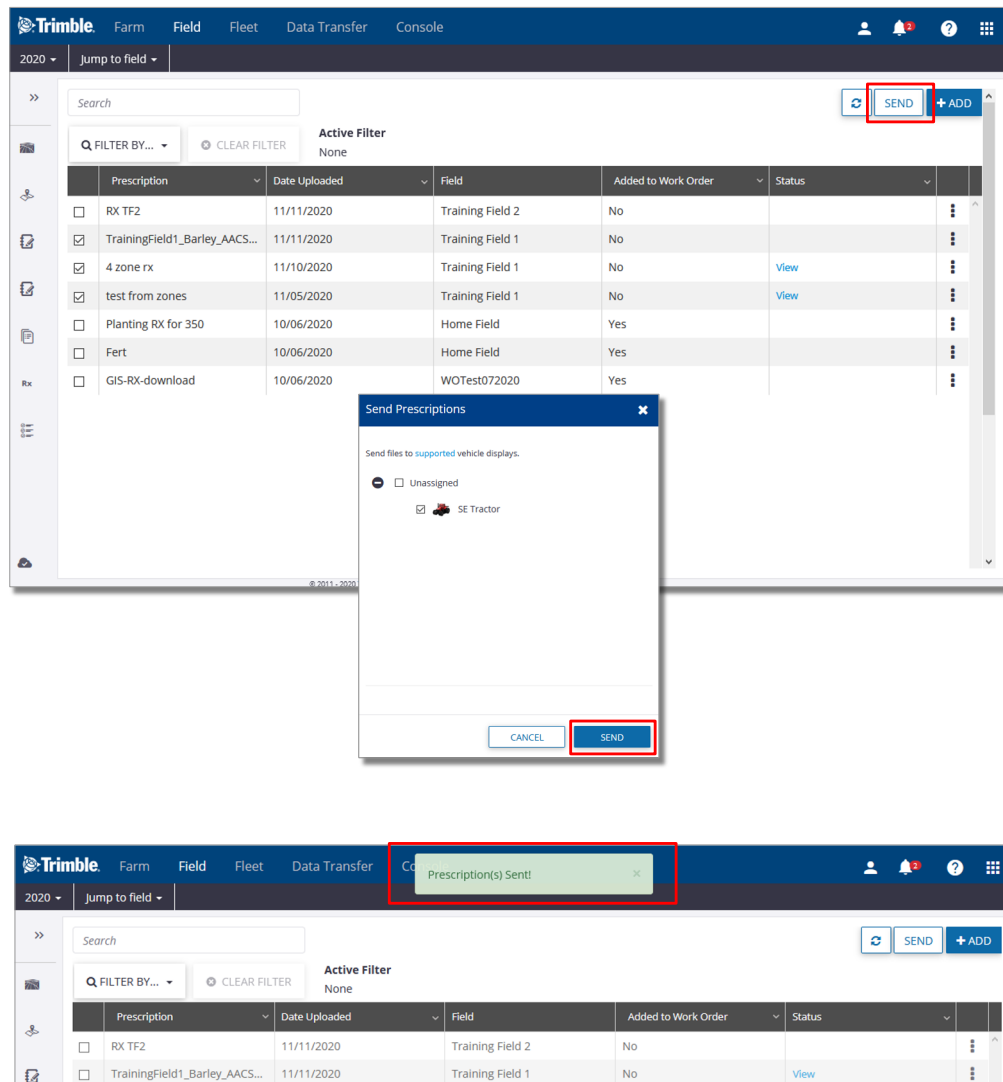


Add Prescription from Zip File

1. Open Field>Prescriptions
2. Click the Add button
3. Select the Upload from ZIP file option
4. Browse to the file location where the zip file has been stored, select the file, and click Open
5. Use the drop-down menus to select the Field and Material for the prescription
6. Verify the Rate Column and Rate Units
7. Click Send To Vehicles to send to any AutoSync or Office Sync connected display for your Organization - the file will also get saved to the Prescription page.
8. Alternately, click the Save button to save the prescription and send to connected displays at a later time.

Online | Send Multiple Prescriptions

FARMER PRO ONBOARDING



1. Create and save the prescriptions on the Prescriptions tab
2. Select the desired prescription files by placing a checkmark in the checkbox
3. Click the Send button in the upper right corner
4. Select the desired AutoSync and Office Sync connected vehicles from the Send Prescriptions window
5. A Prescriptions Sent confirmation popup will appear when sent.

Online | Sent Prescriptions Status

FARMER PRO ONBOARDING

The screenshot shows the Trimble Farmer Pro Onboarding interface. The top navigation bar includes 'Farm', 'Field', 'Fleet', 'Data Transfer', and 'Console'. The 'Field' tab is active, showing a table of prescriptions. The table has columns: Prescription, Date Uploaded, Field, Added to Work Order, and Status. Two 'View' links are visible in the Status column. Two 'Send History' windows are overlaid, showing details for a specific prescription. The windows display the Prescription File, Field Name, Date Sent, Vehicle, Device, and Status.

Prescription	Date Uploaded	Field	Added to Work Order	Status
<input type="checkbox"/> RX TF2	11/11/2020	Training Field 2	No	
<input type="checkbox"/> TrainingField1_Barley_AACS...	11/11/2020	Training Field 1	No	
<input type="checkbox"/> 4 zone rx	11/10/2020	Training Field 1	No	View
<input type="checkbox"/> test from zones	11/05/2020	Training Field 1	No	View
<input type="checkbox"/> Planting RX for 350	10/06/2020	Home Field	Yes	

Send History (Left Window)

Prescription File: 4 zone rx
Field Name: Training Field 1

Date Sent	Vehicle	Device	Status
11/11/2020 5:36:06 PM	SE Tractor	GFX-350	Pending

Send History (Right Window)

Prescription File: 4 zone rx
Field Name: Training Field 1

Date Sent	Vehicle	Device	Status
11/11/2020 5:36:06 PM	SE Tractor	GFX-350	Sent

View the status of sent prescriptions

1. Open the Field>Prescriptions tab
2. Sent prescriptions will show a View link in the Status column
3. Click the View link to open the Send History window
4. Details for each vehicle where the prescription has been sent will be displayed
 - a. Date Sent
 - b. Vehicle name
 - c. Device type
 - d. Status (Pending, Sent, or Cancelled)

Online | Add Prescription from Zones

FARMER PRO ONBOARDING

Here you can add prescriptions and send them to equipment

ADD

Upload from ZIP File

Create from Zones

Select Field

- ☐ Client 1
- ☐ CSU
- ☐ ARDEC
- ☐ Training field 1
- ☐ Training field 2

Select Material

- ☐ Chemical
- ☐ Fertilizer
- ☐ Seed

Create Zone Prescription

Name * Fertilizer Rx TF1

Field Training Field 1

Zones * Choose...

Material 46-0-0

Area Applied 2.49 ac

Quantity Used 28.84 lbs / ac

Lead Time * 2.00 Seconds

Off-prescription Behavior * Zero Rate

Zone	Rate	Units
1	10.00	lbs / ac
2	12.00	lbs / ac
3	14.00	lbs / ac

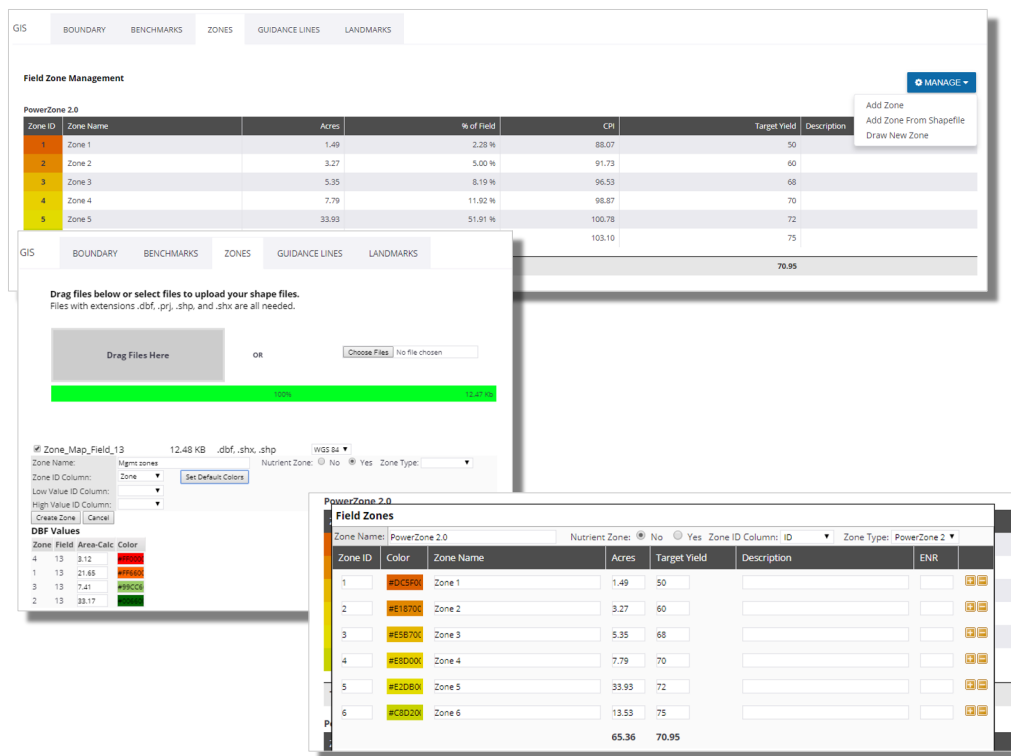
SEND TO VEHICLES **SAVE**

Create from Zones

1. Once Zones are created in GIS tab, return to the Prescriptions tab.
2. Click the Add button, then select Create from Zones
3. Select the Field in the Select Field window, then click Next
4. Select the Material in the Select Material window, then click Next
5. Enter a name for the prescriptions in the Create Zone Prescription window
6. Use the Zones drop down menu to select the previously saved zone map
7. Enter the Lead Time and Off-prescription behavior
8. Manually enter the rate for each zone
9. Click Send To Vehicles to send to any AutoSync or Office Sync connected display for your Organization - the file will also get saved to the Prescription page.
10. Alternately, click the Save button to save the prescription and send to connected displays at a later time.

Online | Prescriptions (Quick Blender)

FARMER PRO ONBOARDING

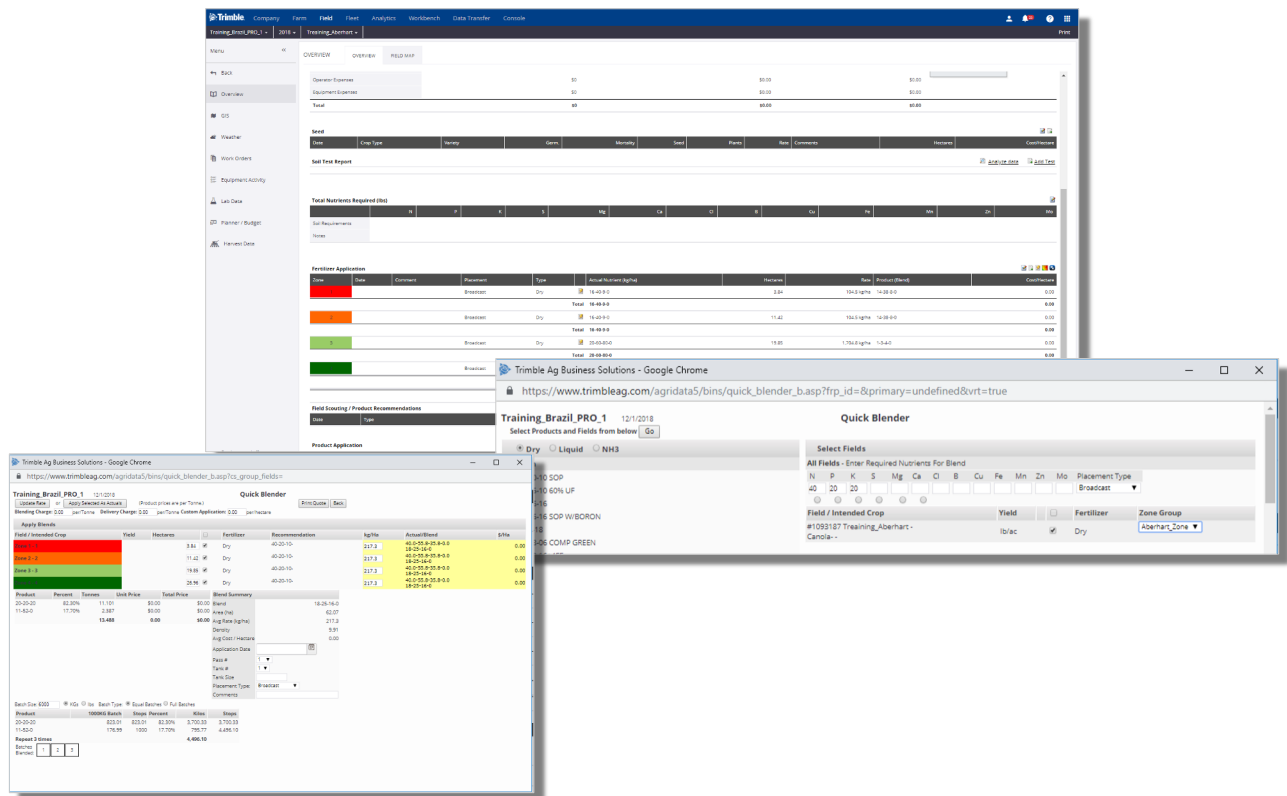



1. Before you start, make sure your Zones are set as Nutrient Zones.

- 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.

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Weather

Online | Premium Weather

FARMER PRO ONBOARDING



Objective: Learn how to use the Premium Weather feature

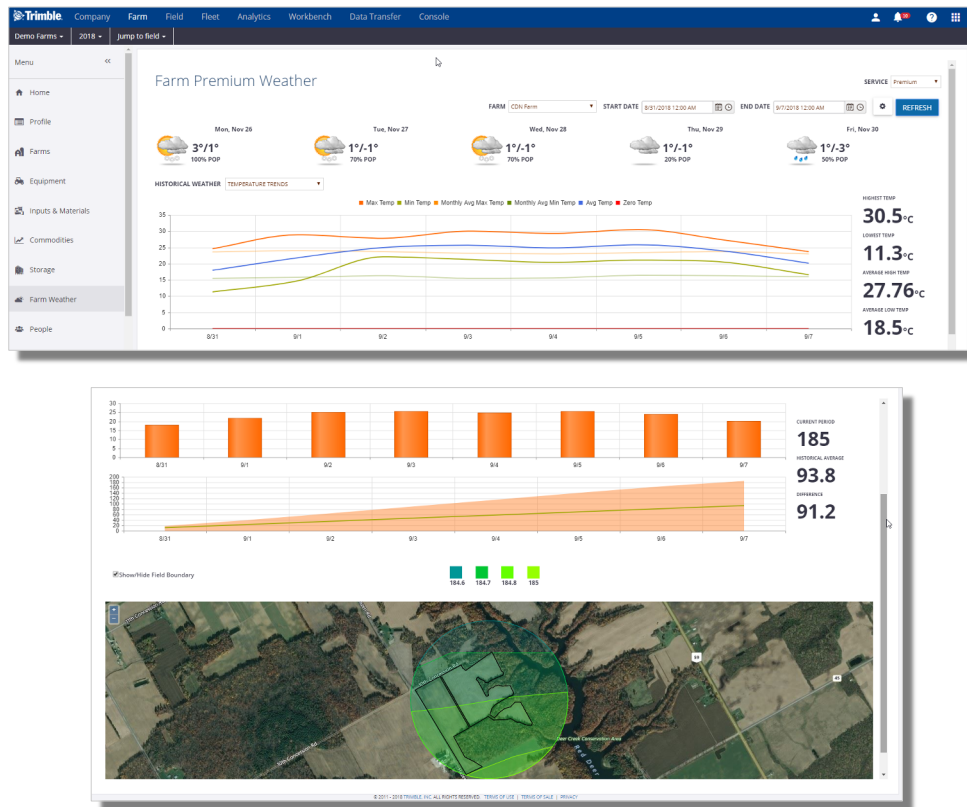
Hybrid of radar satellites and weather stations

- 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
 Crop Stage:
 Spray Volume: 5 gal
 Applicator License No:
 Applicator Comments:

Product	Cost/Unit	Rate	Cost/Acre	Material	Comments	Target Pest	PHI	REI
Sortan IS	874	jug	80	ec/jug	10.93	0.82	jug	hours
ROUNDUP TRANSORB HC	6.13	l	0.6	l/ac	4.05	43.04	l	hours

Field ID: 867573 | Field Name: 13 | LLD: 2017-05-29 12:00 PM | Date - Start: 2017-05-29 01:00 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
 Com - RR - P7005AM
 2017-05-12 [567 DAP]
 3°C
 01:54 PM
 Crop Stage: NO
 Crop Condition: NO
 Plant, Soil, Roots, Key Dates, Weeds, Insects, Diseases, Nematodes, Photos, Comments, Recommendations

Weather
 2° Cloudy
 Wind 12km/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 0" 0% ENE 13km/h
 07 PM -1" 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% ENE 30km/h

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

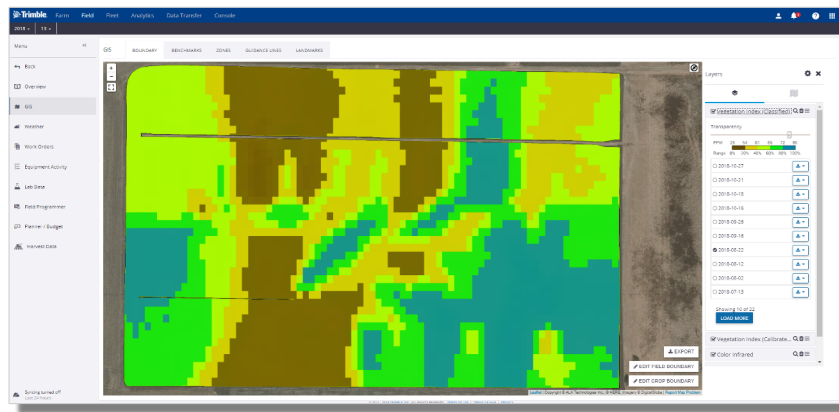
4. Vegetation Index (Classified)

Vegetation index classified into 5 classes

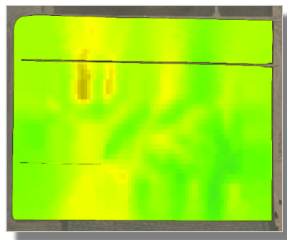
Used for scouting and application

Online | Crop Health (CHI)

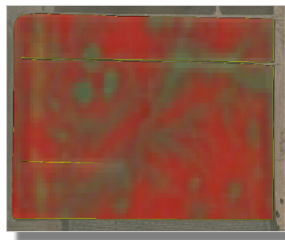
FARMER PRO ONBOARDING



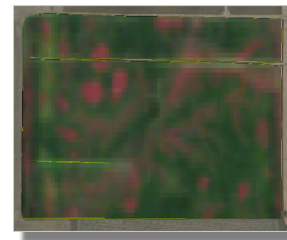
**Vegetation Index
(Calibrated)**





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

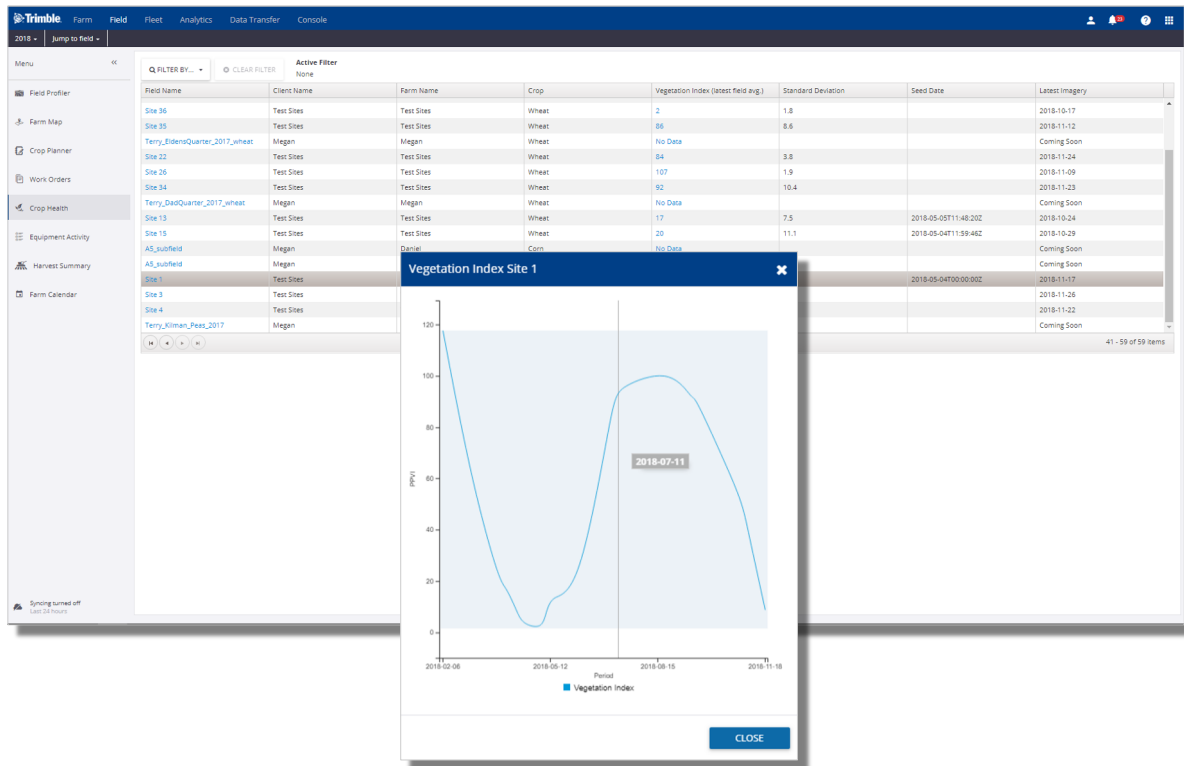
Note that CHI will start being collected for the field from the date you activate it in the Marketplace. The CHI feature does not collect historical imagery, so we highly recommend you activate this feature as soon as you log into the software to ensure you start collecting the imagery right away.



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

Online| Crop Health Imagery

FARMER PRO ONBOARDING



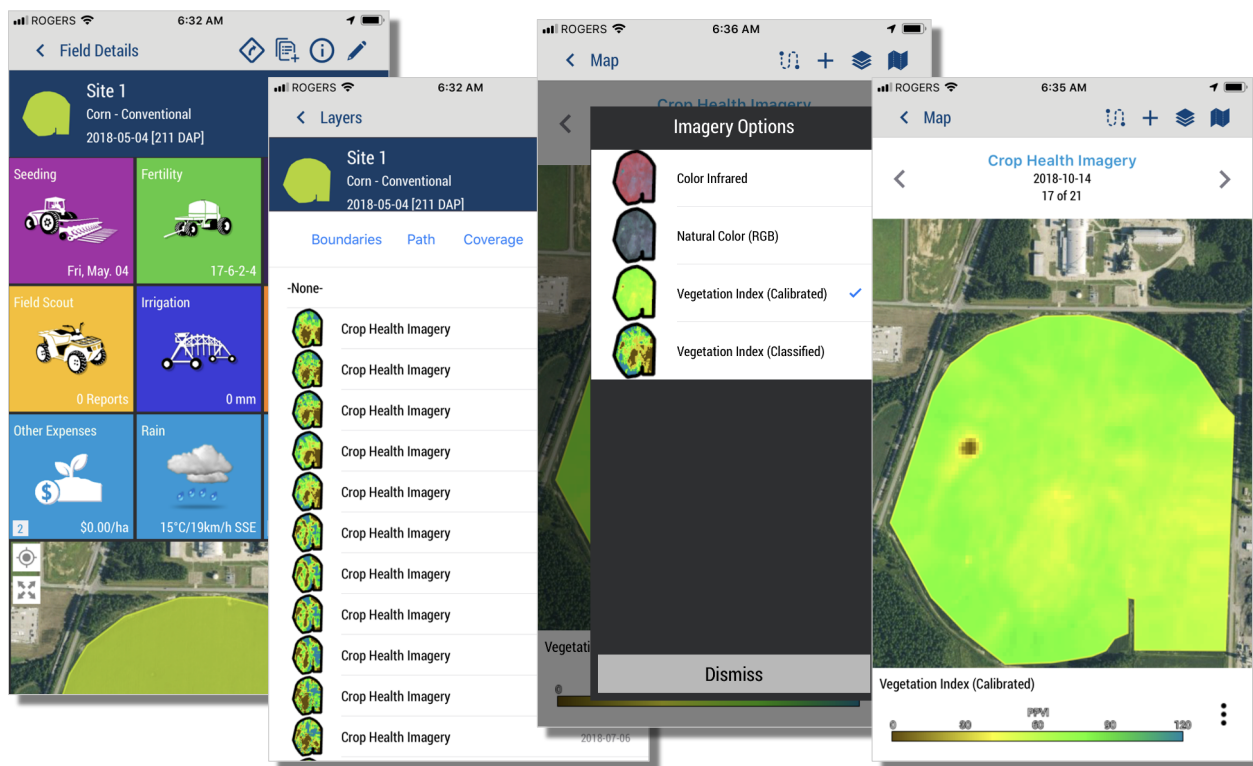
1. Go to menu **Field > Crop Health**
2. Sort information by the columns of interest
 - Standard Deviation will represent the variability of the field
 - Sort that column as decrescent to identify fields that have more variability
3. Click on the **Vegetation Index** Column of the field of interest to 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

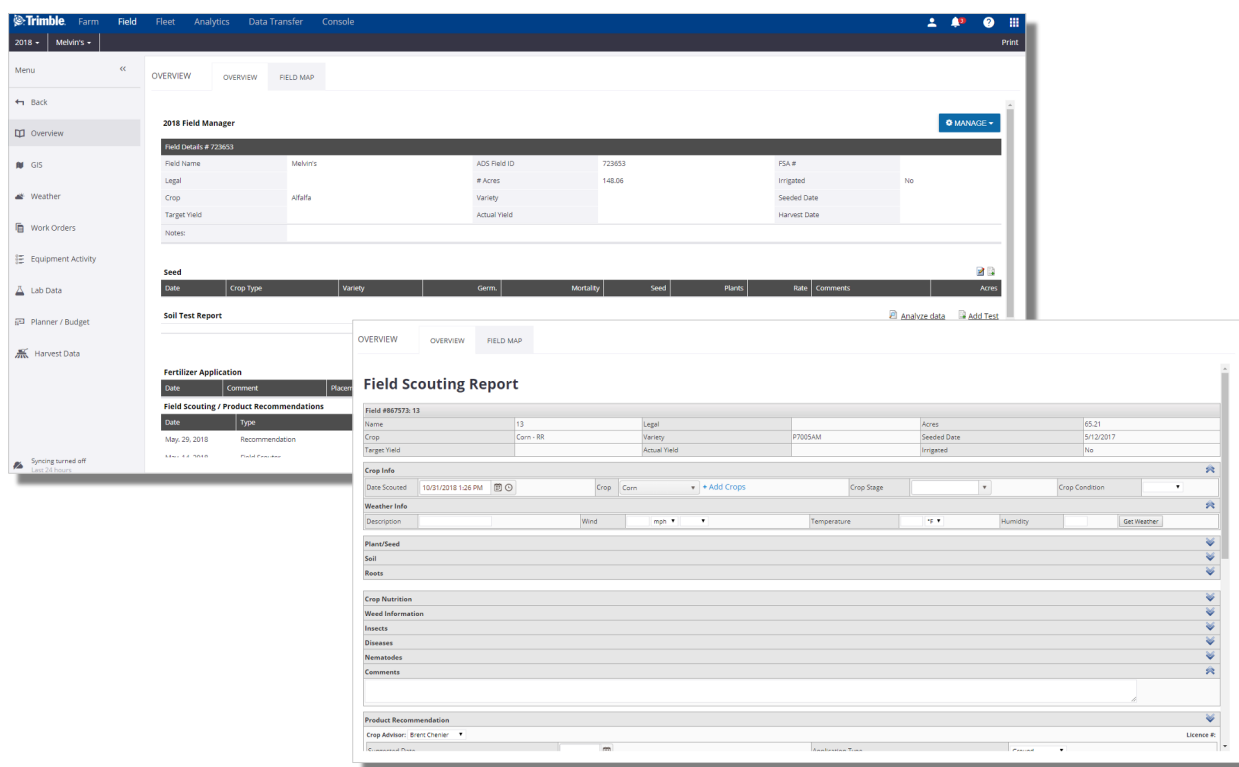
Note that CHI layers can be used in other areas of the mobile app like Scouting, to assist in identifying areas of concern.

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:

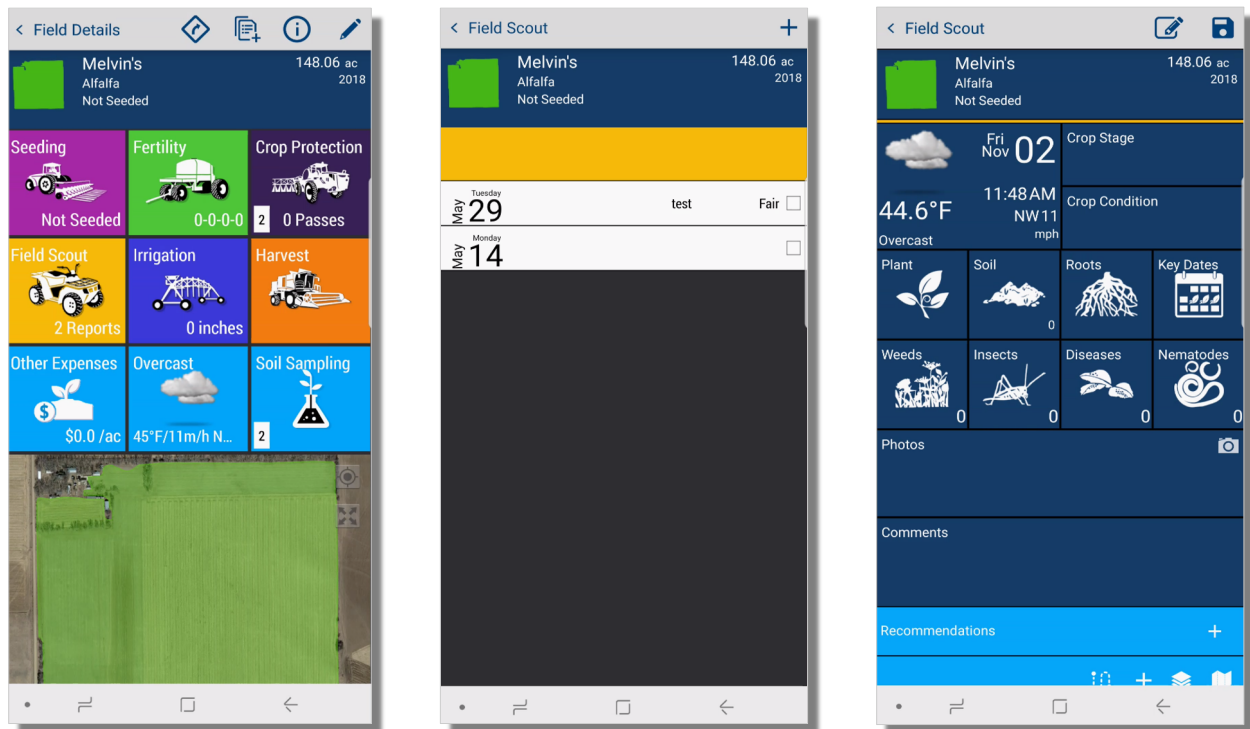
- (📄) Preview the Scouting report
- (✏️) Edit the Scouting report
- (📋) Product application report. Only active if recommendations are made
- (📄) Download a PDF of the Scouting report




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

Mobile | Scouting

FARMER PRO ONBOARDING

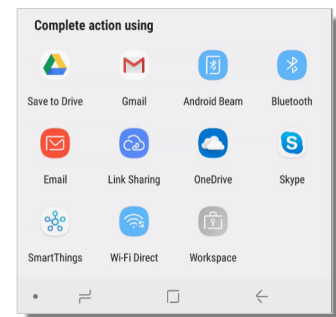
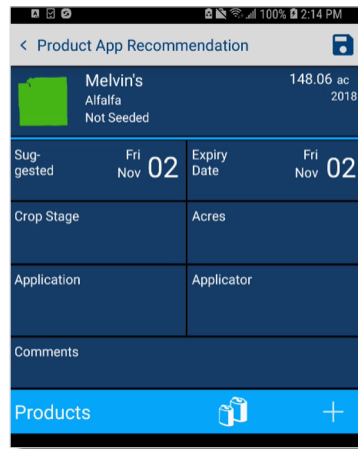
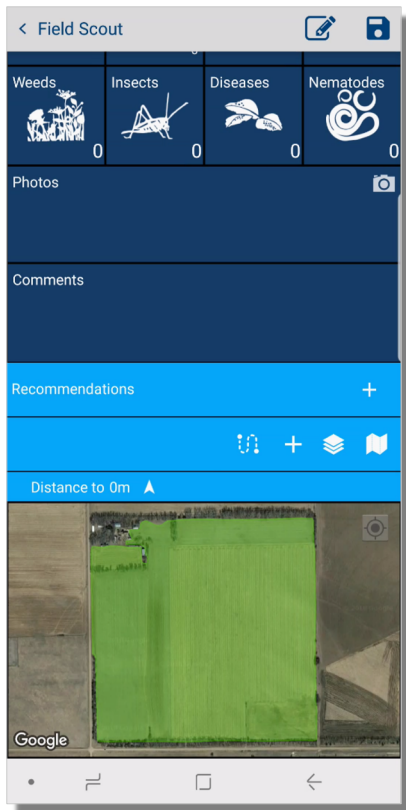


1. In your **Trimble Mobile App**, tap into the desired **field** > tap on the **Field Scout** tile
2. Tap on the **(+)** symbol to add a new report
3. Enter required information of **Crop Stage** and **Crop Condition**
4. You can track the **walking path** by tapping the path symbol () in the mapping 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

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 active, showing 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 checkboxes for 'Show Pricing', 'Show Field ID', and 'Generate Report'. Below this is a table of reports with columns: 'ID', 'Field Name', 'Location', 'Acres', 'Crop - Desc', and 'Variety'. The table lists several reports, including '867873', '1024002', '867826', '1014809', and '1072111'. A 'Home 1 - 041318 - Done' report is highlighted, showing a 'Farm: Field' map and a 'Seeded Date' of '04/28/2018 4:43 PM'. The 'Comments' section lists chemicals, operators, and equipment used, along with their respective costs and quantities.

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

2017 Harvest Summarizer

Field ID	Field Name	Crop - Desc - Variety	Seeded Acres	Harvest Date	Acres	Actual Yield	Total Yield	Comments	Yield	Sale Price
893728	Adel Park - Corn		100							
893728	Adel Park - Soybeans									
893729	Andersons									
893730	S.K. Home SO.									
893731	S.K.A. Merial									
893732	Salinas									
893733	Soper									
893734	Stridericks									
893735	Shane Kent									
893736	Butterbaugh									
893737	Callan									
893738	Carter's									
893739	Charl's									
893740	Chew									
893741	Conroye									

Harvest Summary

Harvest Date: 10/25/2017 Acres: 65.35
 Actual Yield: 69.37 bu/ac Total Yield: 4533.40 bu
 Sale Price: \$3.65
 Comments:

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

[Yield Map PDF](#) [Profit Map PDF](#)

Yield By Zone Table

Zone	Acres	CH	Yr. Yield	Yield	Cost	CRUP	Profit	Yield (bu/ac)
1	1.49	88.07	65.00	76.81	\$156.71	\$2.04	\$108.28	72.8 - 91.7
2	3.27	91.73	65.00	82.85	\$156.71	\$1.89	\$129.47	80.7 - 86.2
3	5.16	96.53	65.00	62.57	\$156.71	\$1.69	\$162.65	86.2 - 79.3
4	7.79	96.87	65.00	88.96	\$156.71	\$1.76	\$150.21	79.3 - 76.7
5	33.61	100.76	65.00	77.49	\$156.71	\$2.02	\$115.42	89.4 - 107.8
6	13.53	103.10	65.00	86.12	\$156.71	\$1.82	\$140.42	107.8 - 144.8
Total	65.36 ac	95.84	65.00 bu/ac	82.18 bu/ac	\$156.71/ac	\$1.82	\$128.55/ac	

Step 2

Field Zones

Zone Name: Zone Sample 1 Nutrient Zone: ☐ No ☒ Yes

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

[SAVE](#)

1. Click **Field** > **Harvest Summarizer** > enter harvest data for all fields applicable > Click **Save**
2. (Optional) Setup for **Zone Analysis**
 - o 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
 - o 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
 - o 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**
 - o 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' (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 'View Report' option in the activity's menu. A red arrow points from this option to a detailed view of a '500b - CORN PLANTING 5-13-16' activity. This detailed view includes a coverage map, a table of seed and equipment data, and a 'Comments' section.

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 MAIN STATION: 500b
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

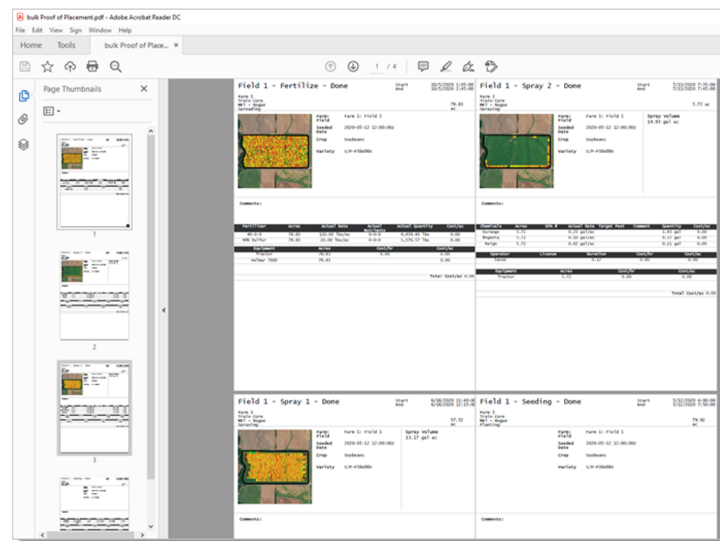
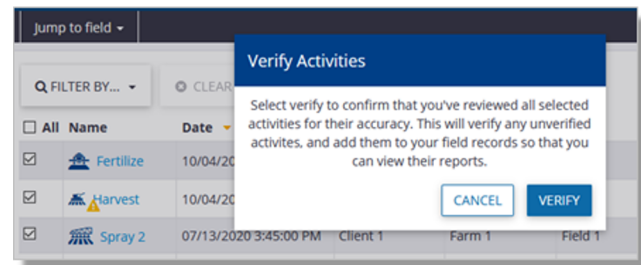
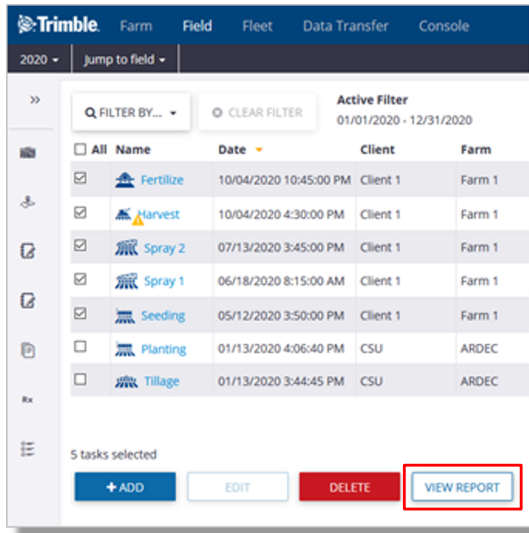
Equipment	Hectares	Cost/hr	Cost/ha
Tractor 1	2.69	0	0.00
MONOSEM	2.69		0.00

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

Online | Bulk Proof of Placement Reports

FARMER PRO ONBOARDING



1. Open the **Equipment Activity** tab (Field>Equipment Activity)
2. Select the desired tasks with a check mark
 - all tasks for the report will need to be verified so that the system can generate the proof of placement pdf reports. If the Verify Activities window opens, select cancel or verify as appropriate
3. Click the View Report button
4. All selected task reports will then be compiled into one **pdf document**.

0.5

Standard and Display Work Orders

0.5.a

Standard Work Orders

Online | Work Orders

FARMER PRO ONBOARDING

The screenshot displays the Trimble Farmer Pro Work Orders interface. The main window shows a table of work orders with columns: Field, Planned Date, Operation, Name, Area, and Status. The table lists various fields like 'Ochsner E', 'west 7', and 'East Field' with their respective planned dates and operations. Overlaid on the bottom left are three smaller windows: 'Choose Field(s)' showing a list of fields, 'Summary Totals' showing a breakdown of fields and areas, and 'combine 1' showing budgeted time and cost per hour.

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

10

Brent Cherner - Farm 1

51.28 ac

02/22/2019 8:00:00 AM

Planned

Name

General

Materials (0)

Equipment (1)

Operators (1)

Restrictions

+ ADD

OPERATORS

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

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

Select Material(s)

Search:

ALL MY MATERIALS

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

+ CREATE NEW

CANCEL ADD

Fertilizer Properties

Use Fertilizer Search to find additional information about the material.

FERTILIZER SEARCH

Name *

Form * Choose...

Purchased Units * Choose a Form...

Unit Cost

Applied Units * Choose a Form...

Default Target Rate

Nutrients

Add a Nutrient %

Add another nutrient %

Add another nutrient %

+ ADD ANOTHER ROW

CANCEL SAVE

Fertilizer 46-0-0

Area Applied: 63.21 ac

Cost: \$370.00 / T

Average Rate: 42.41 lbs / ac

Actual Rate: 53,490.37 lbs / ac

Quantity Used: 2,765.33

Rate Type: ☒ Flat Rate ☐ Variable Rate

Placement: Band

MORE

Pass Number: 1

Tank Number: 1

Comments:

VARIABLE RATES

PowerZone 2.0

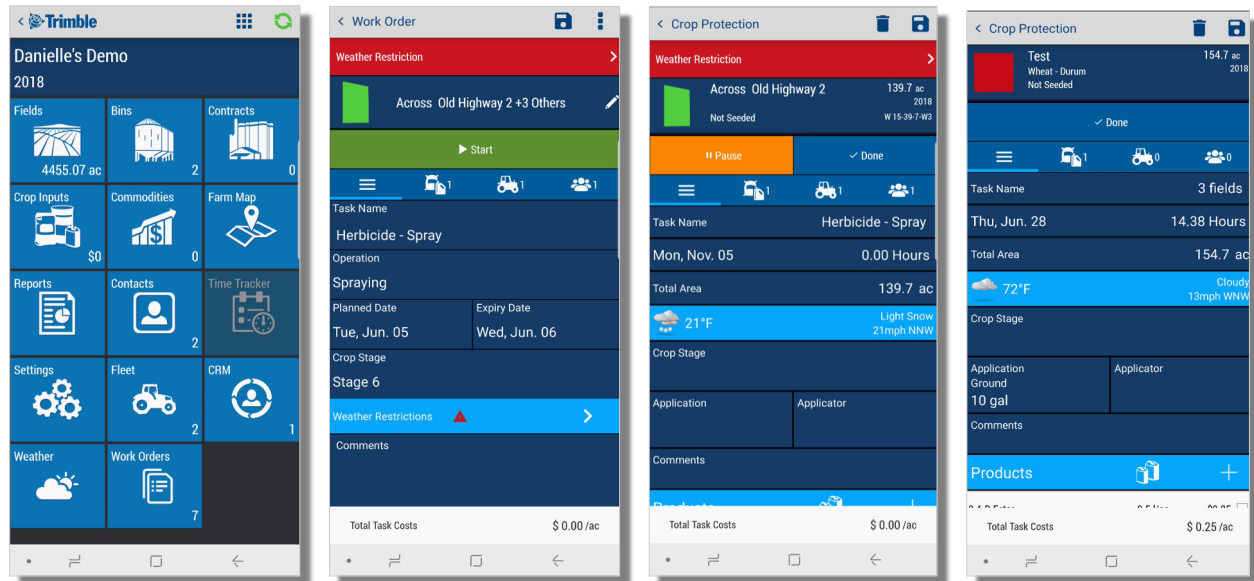
Zone	Rate	Units
1	15.00	lbs / ac
2	22.00	lbs / ac
3	25.00	lbs / ac
4	35.00	lbs / ac
5	45.00	lbs / ac
6	55.00	lbs / ac

CANCEL OK

- Click **Material** tab to add Materials to the Work Order
 - click **+Add**
 - Select** the desired material type
 - 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.
 - click **Add**
 - fill in the remaining details of the product application
 - click **OK**
- 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.
 - When entering the fertilizer application details, select **Variable Rate**
 - under the new **Variable Rates** section, choose the desired **Zone** set
 - Manually enter the **Rate** details for each zone
 - click **OK**
- 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

Fertilizer

Fertilizer *
46-0-0

Pass #
1

Tank #
1

Placement
Dry

Type
Dry

Area Applied
108.16 ac

Cost/Unit
\$ 350 T

☐ Flat Rate ☒ Variable Rate

Rate
257.57 lb/ac

Quantity Used
13.94 T


In-Season Zones

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

Tap here to fill entire screen

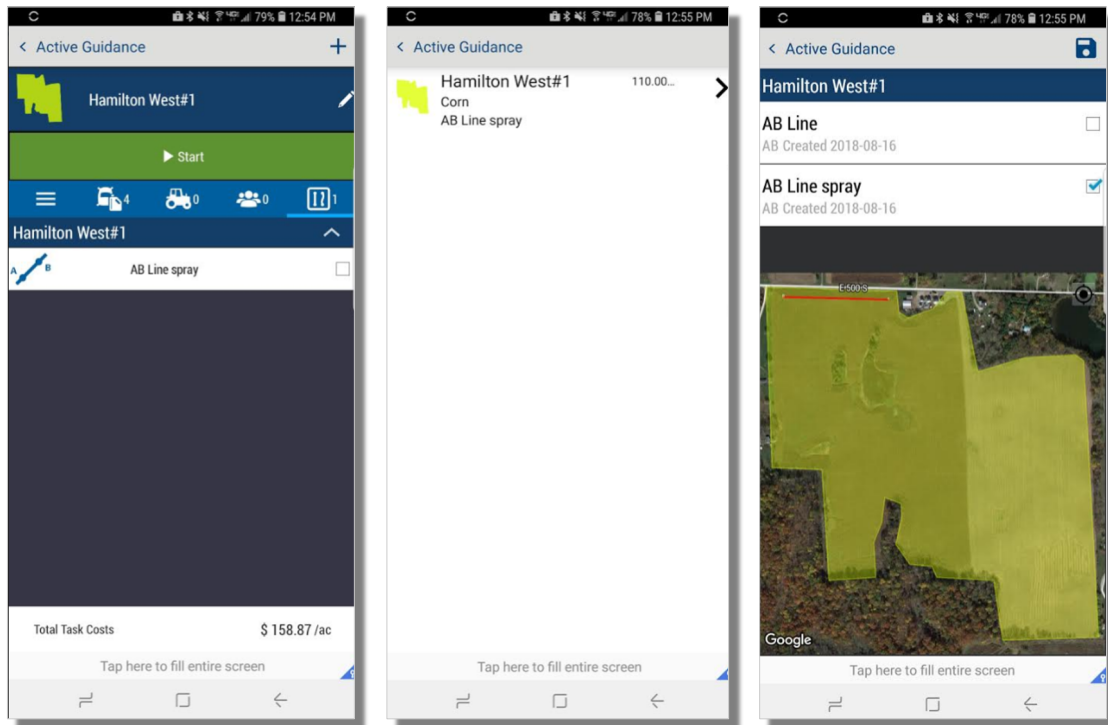
When you add a Fertilizer to a Work Order there is now a “Variable Rate” option. Selecting this option allows you to select a Zone Map and enter a rate for each zone. These VRA maps are used in Precision IQ when the operator selects the Work-Order. Please note that you must have a Zone file uploaded 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



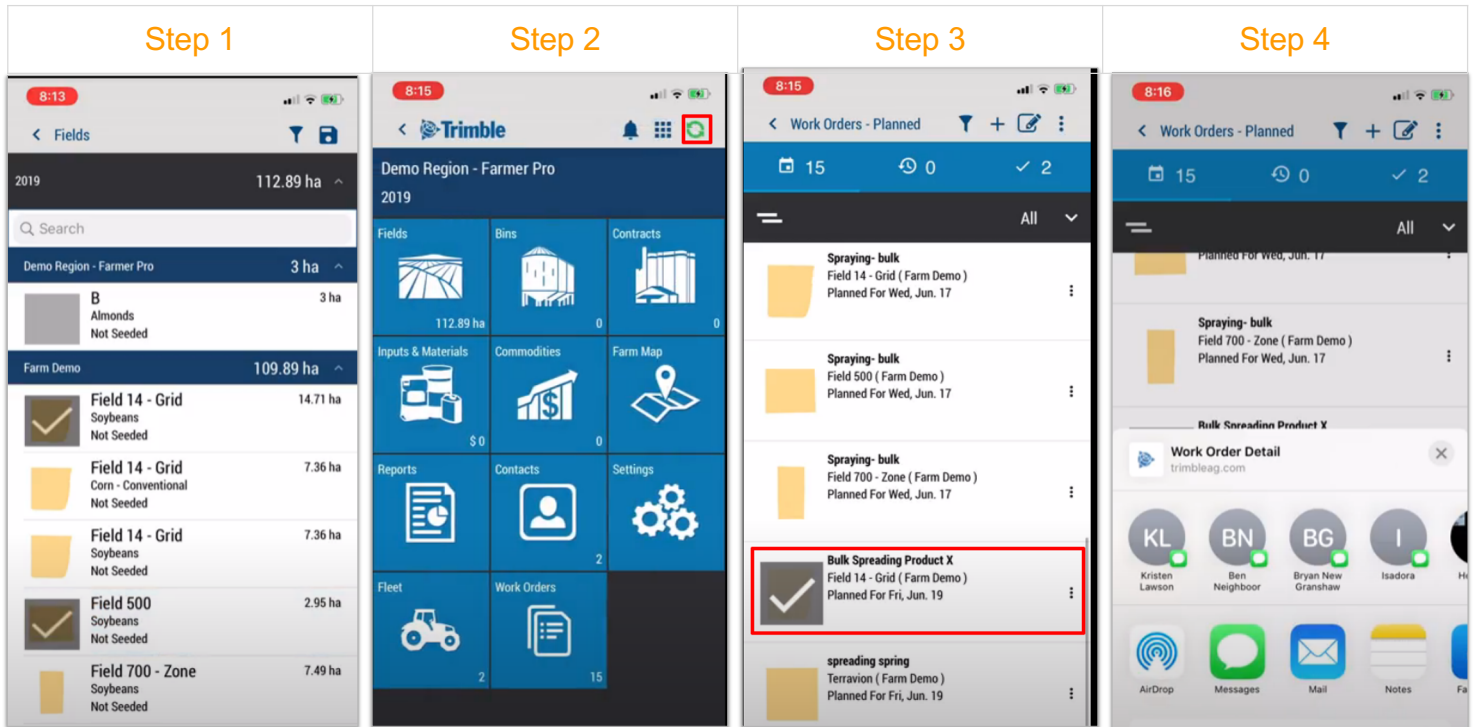
Using **Guidance Lines** in a Work Order:

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.

Mobile | Bulk Email Work Orders

FARMER PRO ONBOARDING



1. To bulk email Work Orders, first you need to complete the Work Orders either using mobile app or online. You can select multiple fields at same time and complete the Work Order process.
2. If you created Work Orders in the mobile app, make sure you Sync to online before proceed.
3. Now, click in the Work Orders tile and select the Work Orders you want to share with a contractor or a co-worker. Important: Click in the boundary to get them selected! The list of Work Orders will be combine all Work Orders created, either from online or mobile app.
4. Click on the "Edit" button on the top right menu. Select the tool you want to use to share the Work Orders.
5. Work Orders is now shared! The destinatary will receive an email with a list of Work Orders.



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

Mobile | Bulk Email Work Orders

FARMER PRO ONBOARDING

From: **Viviane Faria** <viviane_faria@trimble.com>
Date: Thu, Jun 18, 2020 at 7:46 AM
Subject: WO testing
To: Viviane Faria <Viviane_Faria@trimble.com>


Step 6


Demo Region - Farmer Pro has sent you the following work order links:

Field 14 - Grid, Field 14 - Grid, Field 14 - Grid, Field 500, Field 700 - Zone - Spraying- bulk
https://www.trimbleag.com/workorder/report/?id=54926f70-6702-4ed7-ab5b-b27b2a47f5e4_524831_524832_524829_524833_524830&metric=True


Sent from my iPhone

FIELDS **Steps 7 & 8**


Summary 




Field 14 - Grid
7.36 ha
Planned For: 06/17/2020




Field 700 - Zone
7.49 ha
Planned For: 06/17/2020



Field 14 - Grid
14.71 ha
Planned For: 06/17/2020



Field 14 - Grid
7.36 ha
Planned For: 06/17/2020



Field 500
2.95 ha
Planned For: 06/17/2020

Work Order Summary


Demo Region - Farmer Pro
Spraying


Field	Farm	Crop	Activity Hectares
Field 14 - Grid	Farm Demo	Soybeans	14.71
Field 14 - Grid	Farm Demo	Soybeans	7.36
Field 14 - Grid	Farm Demo	Corn - Conventional	7.36
Field 500	Farm Demo	Soybeans	2.95
Field 700 - Zone	Farm Demo	Soybeans	7.49
Total Activity Area			39.87

Chemical	Active Ingredient	EPA	Rate	Total Quantity
2,4-D Ester 700		27818	24.71 l/ha	985.19 l

Fertilizer	Activity Area	Application Method	Carrier Rate	Total Carrier Volume
10-34-0	39.87		0.00 kg/ha	0.00 t

- Destinatary receives a link with all Work Orders shared.
- The link will direct you to a summary page. The Summary page contains a list of the fields, farms, total products and acreage covered within this list of Work Orders that will help you to get prepared for these jobs execution.
- Below the Summary page, you can see individual Work Orders by clicking in the field boundaries. In that case, Work Order details will be restricted at field level.

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

 Trimble

147

0.5.b

Display Work Orders With Auto Sync

0.5.b.i

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 or Farmer Pro software subscription. Display Connection Licenses 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	✓	✓	✓
Vehicle Profiles ²	✓	✓	✓
Materials	✓	✓	✓
Implements	✓	✓	✓
Work Orders	✓	✓	✓
Bluetooth® Low Energy (BLE) beacons	✓		

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
 - TMX-2050™ display: Precision-IQ firmware version 6.60
 - GFX-750™ display: Precision-IQ firmware version 2.60
 - GFX-350™ display: Precision-IQ firmware version 1.60
- Trimble Ag Software account and Display Connection Licenses (Farmer Core or Farmer Pro)

AutoSync Setup Steps

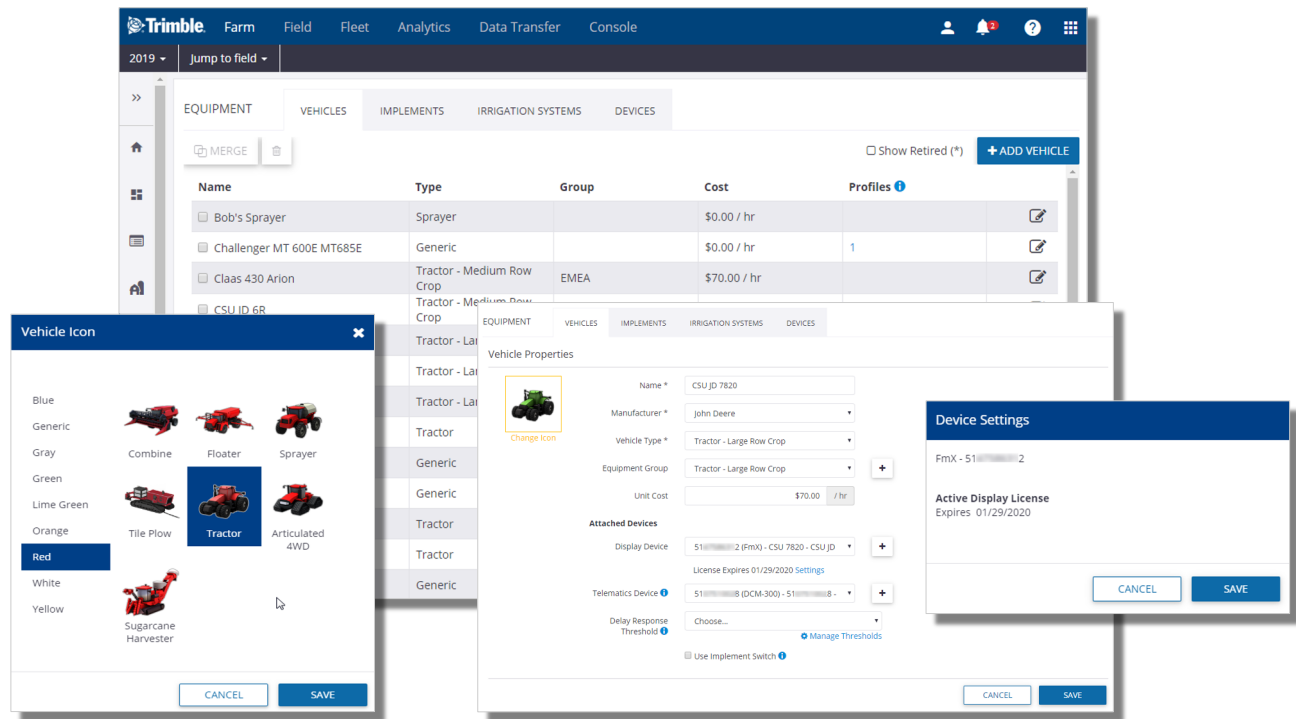
1. Setup online account and vehicles (*see Core guide Session 2.b*)
2. Clean up data, backup and update firmware on the displays
3. Connect display to internet (modem or Wi-Fi)
4. Turn on AutoSync in Precision-IQ settings
5. Use the AutoSync Wizard to walk through the initial sync
 - a. The display run screen will be locked during the sync process



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

AutoSync | Step 1: Setup Vehicles in Online

FARMER PRO ONBOARDING



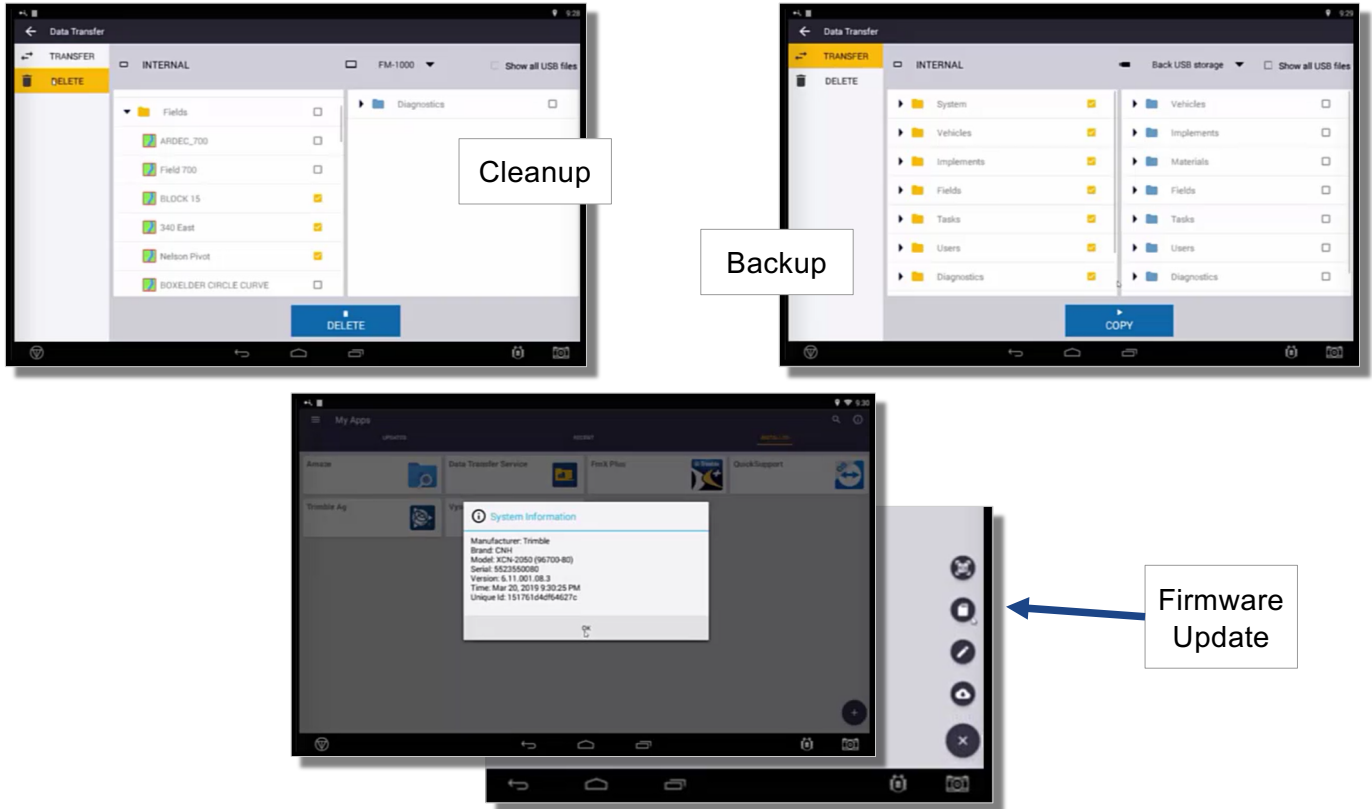
1. From the **Farm** Menu, click **Equipment**
2. view existing vehicles on the **Vehicles** tab
3. click **Add Vehicle** to add a new vehicle
 - a. For Vehicle Properties enter Name, Manufacturer, Vehicle Type (required properties)
 - i. If using Groups, assign the Vehicle Group
 - ii. enter the Unit Cost to track cost of use
4. Select the Display Device from the drop down menu if using Office Sync or Fleet
5. **Assign Vehicle License** to activate a wireless vehicle connection with a Trimble Display.
 - a. This is a critical step where the link the between the display and online vehicle is established.
6. Optionally, click **Change Icon** to select a visual icon that correlates the the specific vehicle.
7. 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.

AutoSync | Step 2: Cleanup, Backup, and Update

FARMER PRO ONBOARDING

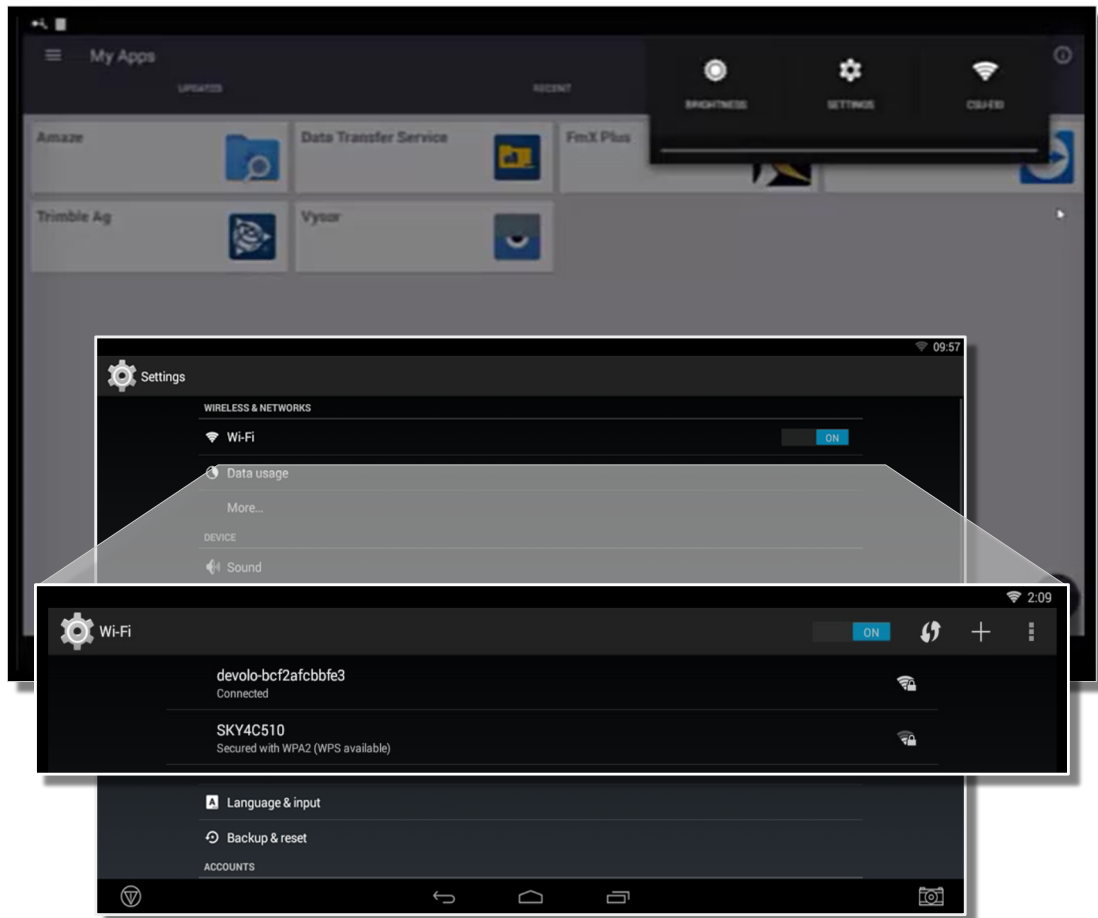


1. Open **PIQ** > goto **Field Tab** > Review details
2. To **Cleanup** data
 - a. Go to **Data Transfer** > select a category > **checkoff** unwanted data > click **Delete**
3. To **Backup**
 - a. Select **Directories** you wish to Backup
 - b. Select your **USB** drive on the right hand side
 - c. 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: Minimum Recommended Firmware for each display type
 TMX-2050 version 6.50 or higher
 GFX-750 version 2.50 or higher
 GFX-350 version 1.50 or higher

AutoSync | Step 3: Connect Display to Internet

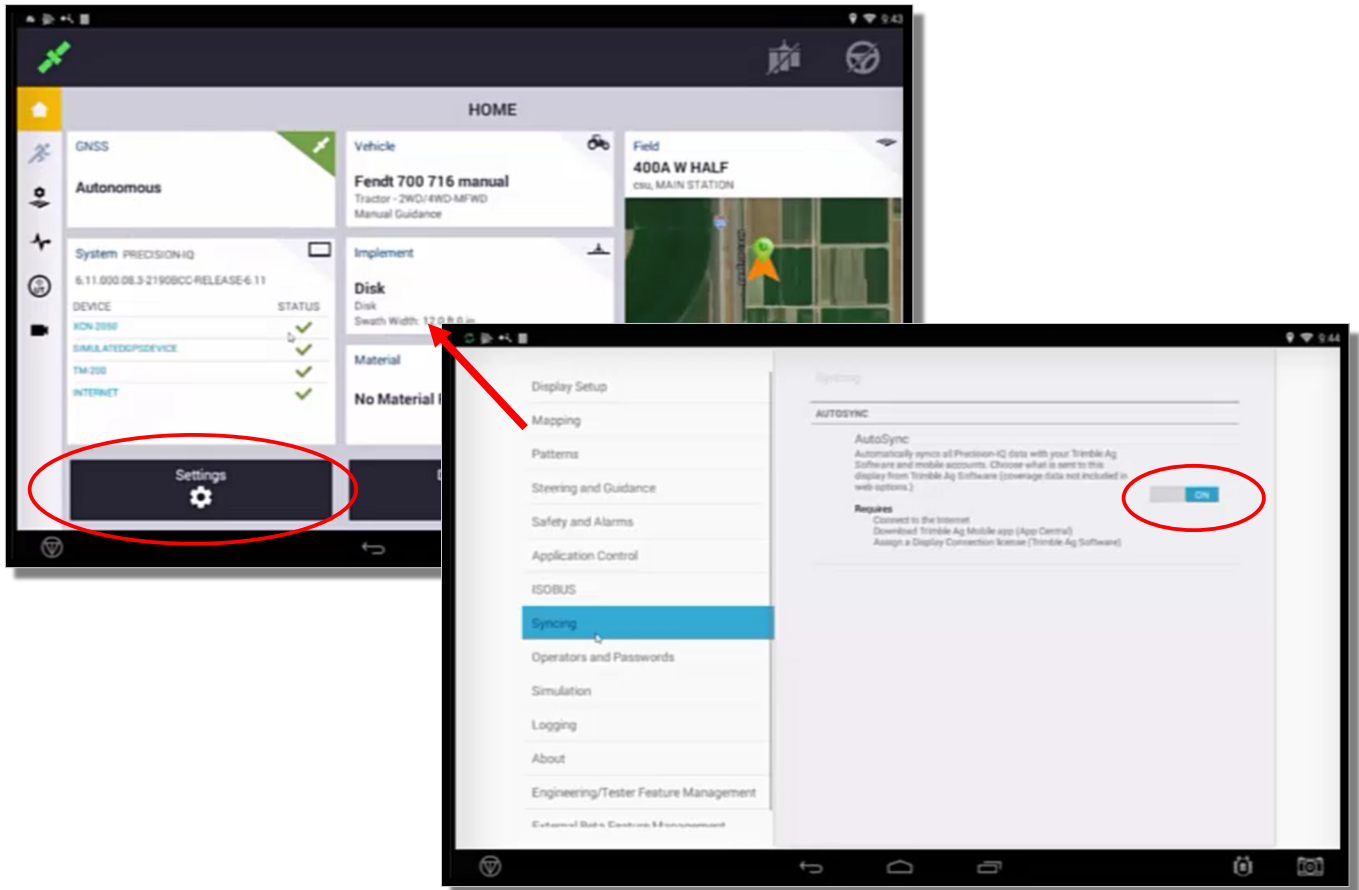
FARMER PRO ONBOARDING



1. Open the TMX or GFX display Settings.
2. Connect the display to the internet via cellular modem or Wi-Fi.

AutoSync | Step 4: Enable AutoSync in PIQ

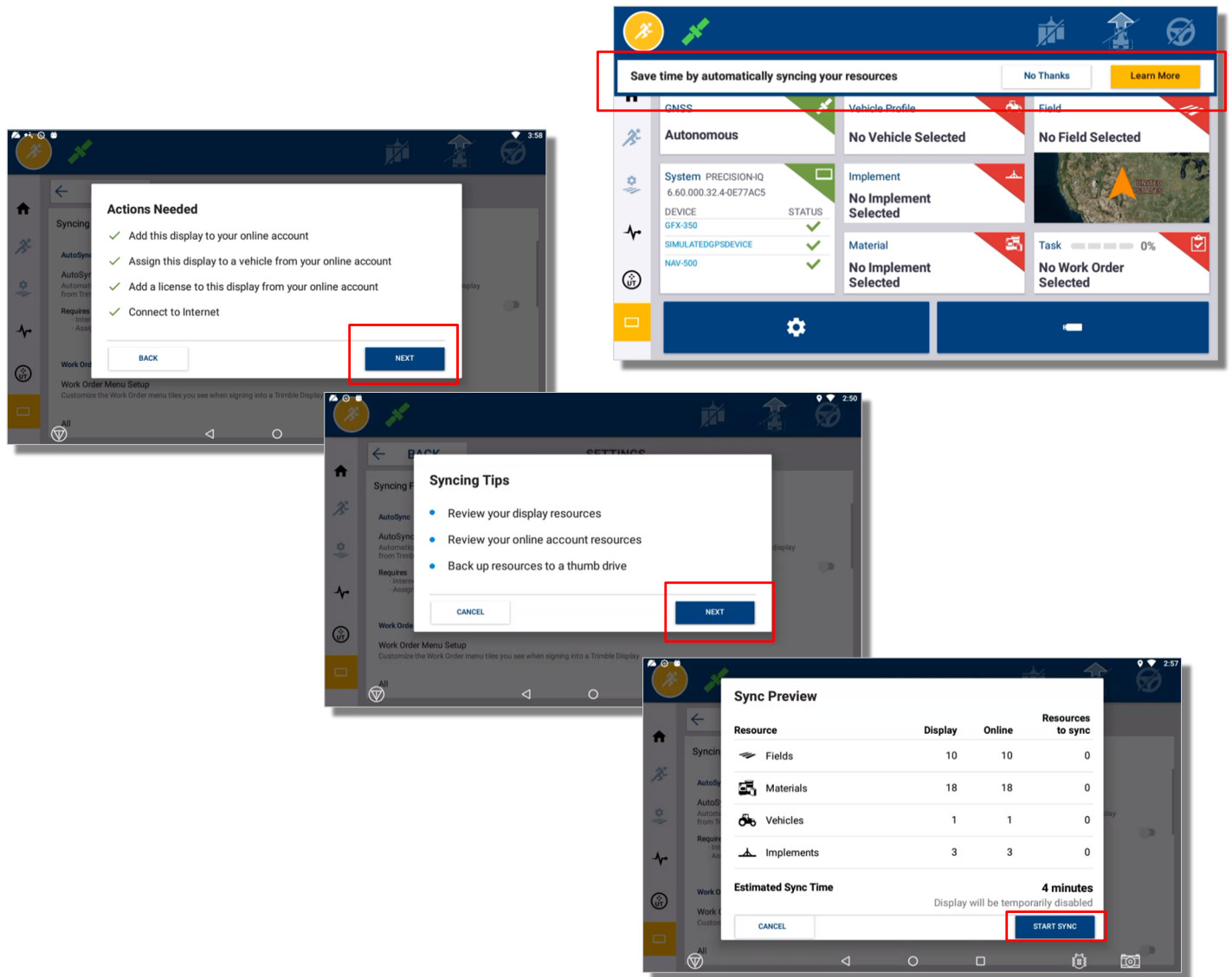
FARMER PRO ONBOARDING



1. Launch Precision-IQ
2. Go to PIQ > Settings > Syncing > turn on AutoSync

AutoSync | Step 5: AutoSync Wizard

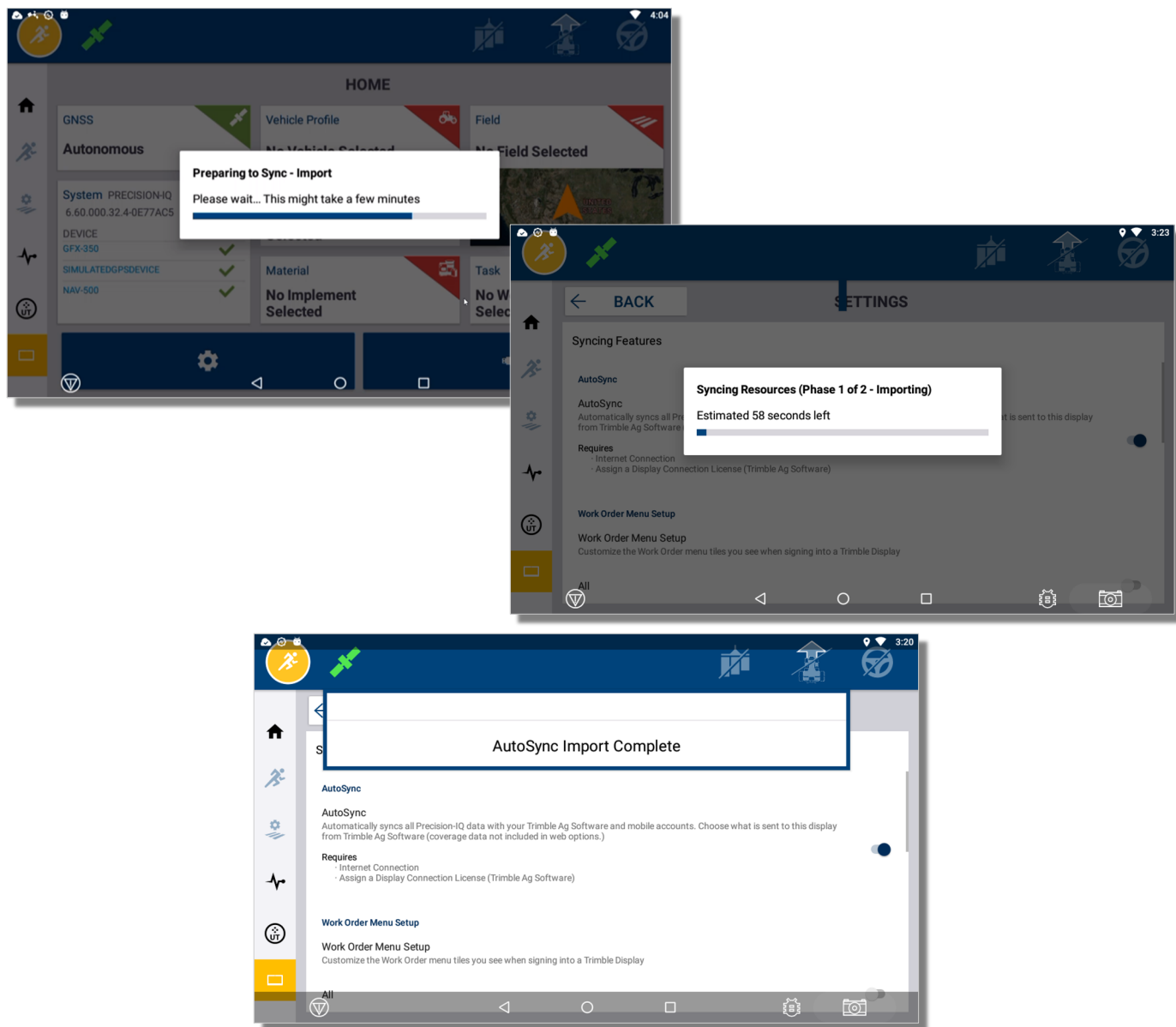
FARMER PRO ONBOARDING



1. The AutoSync Wizard will launch as soon as AutoSync is turned on in PIQ settings
2. When the Actions Needed shows all green check marks, click Next
3. Review the Syncing Tips, then click Next
4. Review the Sync Preview
 - a. Sync Preview provides a count of Resources on the Display and Online with the number of Resources to sync listed
 - b. Estimated Sync Time is shown, and should reflect a conservative estimate
5. Click Start Sync to begin the sync process or Cancel to postpone until a later time
 - a. The display will be temporarily disabled during the sync process

AutoSync | Sync Process

FARMER PRO ONBOARDING



Monitoring the Sync Process

1. The Preparing to Sync - Import window will appear with a status bar
2. The Syncing Resources window will display with a status bar and estimated time left
3. The AutoSync Import Complete confirmation message will appear when finished.

AutoSync: AutoSync Service App

FARMER PRO ONBOARDING

The image displays two overlapping screenshots of the AutoSync Service App. The background screenshot shows the main dashboard with a blue header and a list of items: Trimble Farms (Org ID: 122477), Syncing (ON), Fields (175.04 ac), Fleet Vehicles (15), Work Orders, and Contacts. A red arrow points from a 'Settings' button in the foreground to the 'Settings' link in the background. The foreground screenshot is titled 'Sync Settings' and shows a list of syncable items: Syncing, Fields, Vehicles, Implements, Materials, and Operators, each with an 'ON' toggle switch.

Settings
Link to the screen showing your device's AutoSync Settings. This UI is unchanged from previous releases.

Sync Settings
updated 1 hours ago

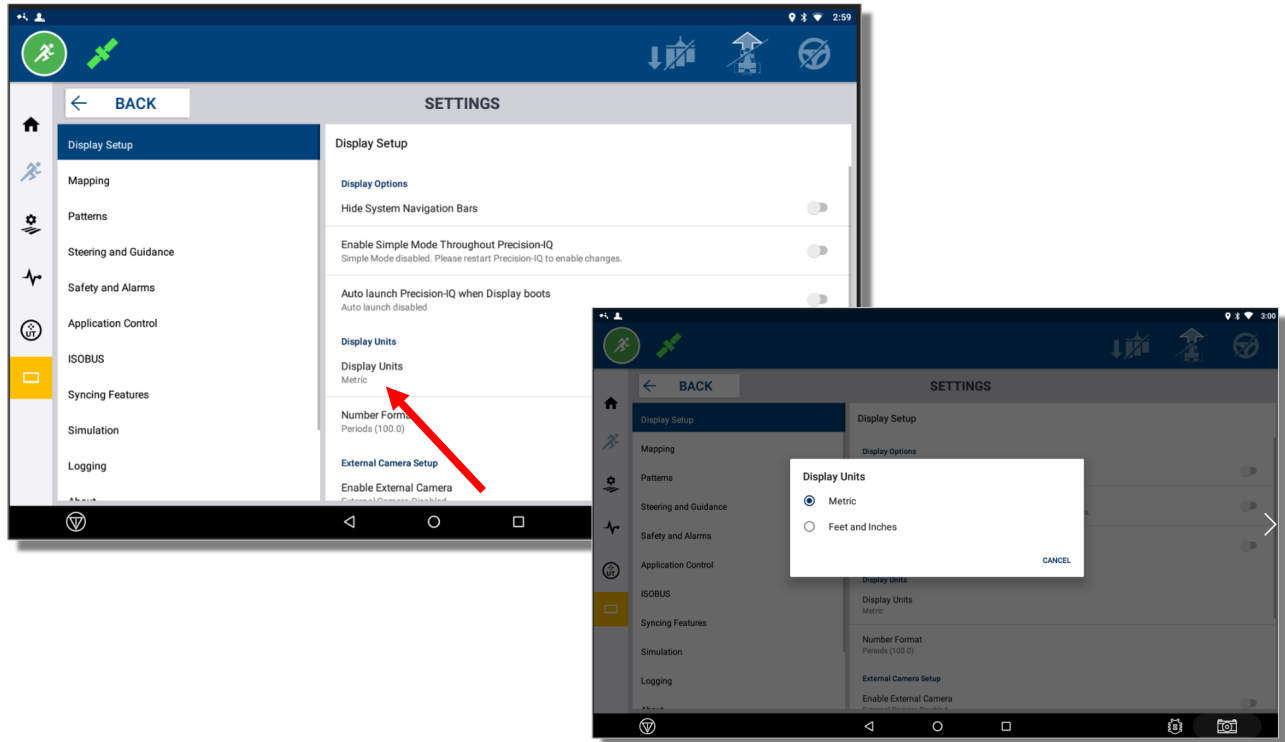
Item	Status
Syncing	ON
Fields	ON
Vehicles	ON
Implements	ON
Materials	ON
Operators	ON

The AutoSync Service App is available in the installed apps area if you need to review the sync information or review the Sync Settings.

1. Open the AutoSync Service App
2. Click on the Settings button to view or make changes to the Sync Settings

Set up | Check the Unit System

FARMER PRO ONBOARDING



1. Open **PIQ** > goto **Settings Button (Engine)**
2. Click in **Settings**
3. Look for **Display Units**
4. Make sure your display unit matches with the Online unit system defined
5. Modify it if needed

Set up | Materials Properties

FARMER PRO ONBOARDING

The image displays three overlapping screenshots of the Trimble Farmer Pro software interface, illustrating the setup for different material types. The top screenshot shows the 'Fertilizer Properties' window with the 'Controller' tab selected, highlighting fields for Alternate Target Rate, Rate Increment, Minimum Rate, Maximum Rate, and Density. The middle screenshot shows the 'Seed Properties' window with the 'Details' tab selected, showing fields for Name, Crop, Purchased Units, Unit Cost, Applied Units, and Default Target Rate. The bottom screenshot shows the 'Tank Mix Properties' window with the 'Details' tab selected, showing fields for Name, Form, Carrier, Default Rate, Mix Rate, and Mix Cost.

Fertilizer Properties

Change Type ▾

Use Fertilizer Search to find additional information about the material.

Form * Granular/Dry

Purchased Units * pounds

Unit Cost \$20.00 / lbs

Applied Units * pounds

Default Target Rate 30.00 lbs / ac

Controller

Alternate Target Rate 20.00 lbs / ac

Rate Increment 10.00 lbs / ac

Minimum Rate 10.00 lbs / ac

Maximum Rate 40.00 lbs / ac

Density 60,000 lbs / ft³

Seed Properties

Use Seed Search to find additional information about the material.

Crop * Barley

Purchased Units * bags

Unit Cost \$35.00 / bag

Applied Units * kiloseeds

Applied to Purchased Units Conversion * 150,000 K5 / bag

Default Target Rate 60.00 K5 / ac

Tank Mix Properties

Name * Tank Mix 1

Form * Liquid

Carrier water

Default Rate 25.00 gal / ac

☒ Define mix as rates

☐ Define mix as quantities

Mix Rate * 500.00 gal / ac

Mix Cost \$0.00 / gal

Alternate Target Rate gal / ac

Rate Increment gal / ac

Minimum Rate gal / ac

Maximum Rate gal / ac

When using materials with AutoSync be sure to fill in the information on the Controller tab. This communicates additional information relevant to Precision-IQ displays. Any Chemicals, Fertilizers, Seeds, or Tank Mixes will need these details included.

1. Click in **Inputs & Materials**
2. Select the material tab (Chemicals, Fertilizers, Seeds, or Tank Mixes)
3. Select Edit Material
4. Click on the Controller tab and then enter the information

Note: If no value is entered for minimum rate, the system will default to zero.

AutoSync | Device Setup Online

FARMER PRO ONBOARDING

The screenshot displays the Trimble Farmer Pro Onboarding interface. The top navigation bar includes 'Farm', 'Field', 'Fleet', 'Data Transfer', and 'Console'. The 'EQUIPMENT' tab is selected, showing a list of devices. A 'Device Settings' modal is open, displaying the following information:

Device type	Serial Number	License Expiration	Firmware Version	Vehicle	AutoSync
GFX-750	5621234567	02/20/2021	6.50.000	John Deere 8R 8345R	On
GFX-750	5622345678	04/16/2021	6.50.000	Magnum 340	On

The 'Device Settings' modal for the first device (GFX-750 - 5621234567) shows the 'Active Display License' expires on 02/20/2021. It includes a checkbox for 'Automatically sync field data between Trimble Ag web, mobile, and this display (Precision-IQ)' which is checked. Below this, there is a section 'Choose what's automatically synced between your Precision-IQ displays and Online Software.' with checkboxes for 'Fields', 'Vehicles', 'Implements', 'Materials', and 'Operators', all of which are checked.

After turning on AutoSync in PIQ, you are then able to view and make adjustments to each connected device's settings (note that all resources are required to sync when using Work Orders with AutoSync).

1. From the **Farm** Menu, click **Equipment**
2. Select the **Devices** tab
3. Click **Manage>Settings**
4. The checkmark to **Automatically sync field data between Trimble Ag web, mobile, and this display (Precision-IQ)** will control whether AutoSync is on or off..
5. Choose what's automatically synced between your Precision-IQ displays and Online Software.
 - Note that all items must sync and cannot be unselected if Work Orders is turned on.
 - Device Settings can also be configured in the Vehicle properties window by clicking the Settings link..

Set up | Operator Sign In

FARMER PRO ONBOARDING

The screenshot shows 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 displays a table of operators with columns: Operator Name, Login, Job Title, Groups, and Availability. The table lists four operators: Byard, Gwen; Collins, Mark; Demo for FWIM, CF; and Demydenko, Sergii. A modal window is open over the table, titled 'Equipment Operator'. It contains the following fields and options:

- ☒ **Equipment Operator**
- Applicator License:
- Unit Cost: / hr
- ☒ **Trimble Display Access** ⓘ
- Operator display sign in: **ON** - [Change](#)
- Sign In ID ⓘ:
- 4 Digit PIN * ⓘ:
- Precision-IQ Access ⓘ: **Full Access** ▼

On the right side of the modal, there is a 'Group(s)' field with a message: 'There are no groups defined for your organization.' and a [Manage Groups](#) link.

1. Click the Change link next to Operator display sign in, to turn on. (this is a global setting that affects all connected PIQ displays)
2. 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. Define **Trimble Display Access** level
 - e. Click on **Precision IQ Access** drop down:
 - i. Full Access > Operator can edit and change any information in the display including Work Orders tasks
 - ii. Select Only > Operator is in the View Mode. Cannot edit or make any change in the display.
 - f. Click **Save**

Please Note: Displays will need to connect to Online to receive the instruction to require Operator Sign In. After this setting is received by the display a reboot will be required for Operator Sign In to be active.

0.5.b.ii

Work Orders™ Feature

Work Orders| Requirements and Setup Steps

FARMER PRO ONBOARDING

Objectives: In this session you will learn how to set up Work Orders.

Work Orders Requirements

- PiQ-enabled display
 - Wireless cellular connectivity for display
 - Firmware Updated :
 - GFX-750: 2.50, GFX-350: 1.50, TMX-2050: 6.50
 - Trimble Ag Software account and Display Licenses (Farmer Core or Pro)
 - AutoSync Turned On
-

Work Order Setup Steps

1. **Display:** Setup and Enable AutoSync in Precision-IQ (see Section 0.3.a)
2. **Display:** Allow AutoSync to sync (syncs vehicle and implement profiles to Online)
3. **Web:** Enable Work Orders in Online
4. **Web:** Create a Work Order

Then you will see other two useful steps:

1. How to disable Work Orders
2. How to enable or disable an Operator Sign in



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

Work Orders| Various Options

FARMER PRO ONBOARDING

Objectives: In this session you will learn how to create an Work Orders and send it to display.

Various Options

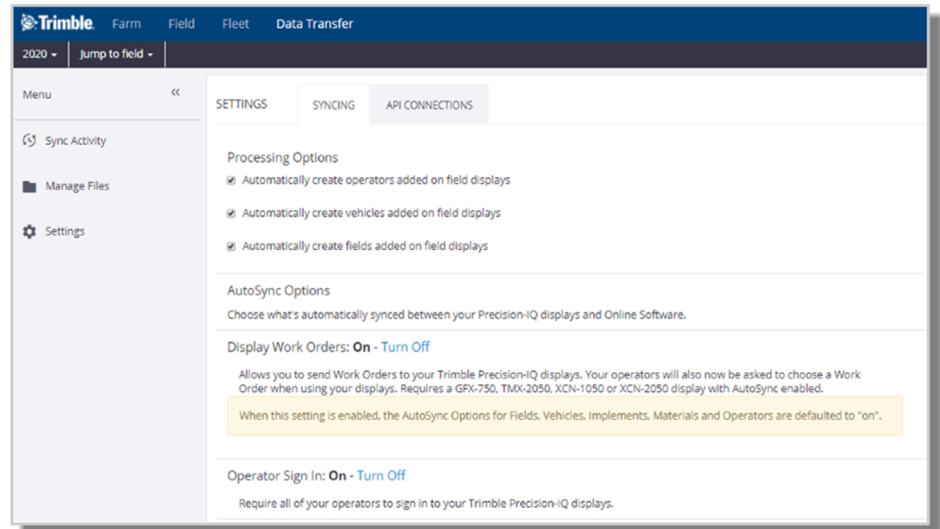
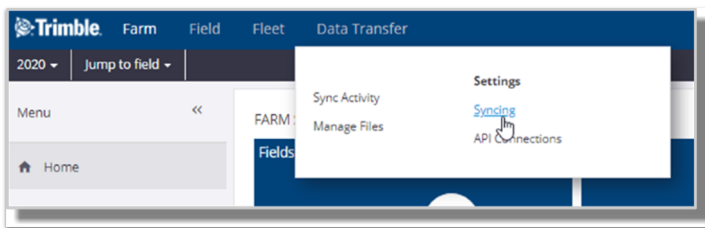
- Create a Work Order Online
 - Flat rate
 - VRA Rx
- Create a Work Order in the Display

Work Order VRA Rx Materials - Version 1

Types	Flat Rate	VRA
Seed - Single Variety	✓	✓
Seed - Single Product	✓	✓
Fertilizer - Single Product - Dry	✓	✓
Fertilizer - Single Product - Liquid	✓	✓
Tank Mix - Chemical	✓	Coming soon
Tank Mix - Fertilizer	✓	Coming soon
Water	✓	

Work Orders| Turn On in Online

FARMER PRO ONBOARDING



1. In Online, navigate to **Data Transfer > Settings > Syncing**
2. **Display Work Orders: On** Find the Display Work Orders option, then click the Turn On link to activate display work orders. You must have at least one Trimble PIQ display with an active display license before the Work Orders screen will become available in the Online account.

Online | Create a Work Order with Flat Rate

FARMER PRO ONBOARDING

The screenshot displays the Trimble Farmer Pro Onboarding interface. The 'Work Orders' section is highlighted in the left sidebar. A 'Choose Field(s)' dialog is open, showing a list of fields including 'Demo_Field_Pivot' and '2020 Sugarcane'. The main table lists work orders with columns for Work Order #, Name, Field, Status, Planned Date, Operation, and Area. A dropdown menu for 'Operation Type' is also visible.

Work Order #	Name	Field	Status	Planned Date	Operation	Area
000035	Spraying	Demo_Field_Pivot	Planned	03/09/2020	Spraying	81.5ha
000034	Spraying_VRA_External_Nick	Demo_Field_Pivot	Planned	03/13/2020	Spraying	81.5ha
000033	Seeding_Flat	Demo_Field_Pivot	Planned	03/13/2020	Seeding	81.5ha
000031	Spraying_VRA_Liquid_External	Demo_Field_Pivot	On Hold	03/16/2020	Spraying	81.5ha
000030	Spreading_VRA_Dry_External	Demo_Field_Pivot	Planned	03/16/2020	Spreading	81.5ha

1. To access Work Orders, click on **Field > Work Orders**
2. Click on **+ADD** blue button and select the type of Work Orders you want to create.
3. We are going to use Seeding Work Orders for this demo.
4. Now, select the field you want to create a work order, you can also select multiple fields if you want to send the same task across different fields.
5. Next, Add the **Planned Date** for the job and the **Due Date** and hit Apply
6. Go to the next screen, **Vehicle**. Click **+ADD** on the right top corner in the page and select the vehicle that will perform this job. You can also allow the Operator to choose the vehicle id desired by clicking the check box on the top
7. Go to Implement and proceed in the same way.
8. Now in the Material Tab, select **Add Material** and then in the button **+ADD**. Choose the material in the list and click ADD. If no materials are available, visit Session **0.2.d** to learn how to add a material. You can fill out SEED Source for information purpose. The information entered in that session does not go to the display.

Online | Create a Work Order with Flat Rate

FARMER PRO ONBOARDING

The screenshot displays the Trimble Farmer Pro Onboarding interface. On the left, a sidebar menu includes options like 'Field Profiler', 'Farm Map', 'Crop Planner (Beta)', 'Crop Planner', 'Work Orders' (highlighted with a red box), and 'Equipment'. The main area shows a 'Work Orders' table with columns: Work Order #, Name, Field, Status, Planned Date, Operation, and Area. A 'Choose Field(s)' dialog is open, showing a list of fields: 'Client Training', 'Training Client', 'Training Farm', 'Demo_Field_Pivot', and '2020 Sugarcane'. The 'Demo_Field_Pivot' field is selected. The background table lists several work orders, including 'Spraying', 'Spraying_VRA_External_Nick', 'Seeding_Flat', 'Spraying_VRA_Liquid_External', and 'Spreading_VRA_Dry_External'.

Continuing...

9. Next Step is the **Operator** Tab. If you want to define an operator for this job, click in **+ADD** and select the operator in the drop list and then ADD. If you want to make this job available to any operator, then you can select the check box on the top: **"Allow any operator to complete this Work Order"**.
10. Now on the **Weather Restriction** tab you can enter with any weather information you may want the Operator to consider in the display before proceeding with the job. This information shows up in the display, but it has to be checked by the operator through other data feed. Fill out what you need to restrict and click **SAVE**.
11. The last tab is the **Guidance Lines**. The Guidance Lines from the display will be synced into Online when you turn-on Auto Sync. You can then select the guidance line that's going to be used for this job, or let the operator to choose in the display. Click **SAVE**.
12. Your Work Orders is now completed and ready to sync to display.

Online | Create a Work Order with VRA Rx

FARMER PRO ONBOARDING

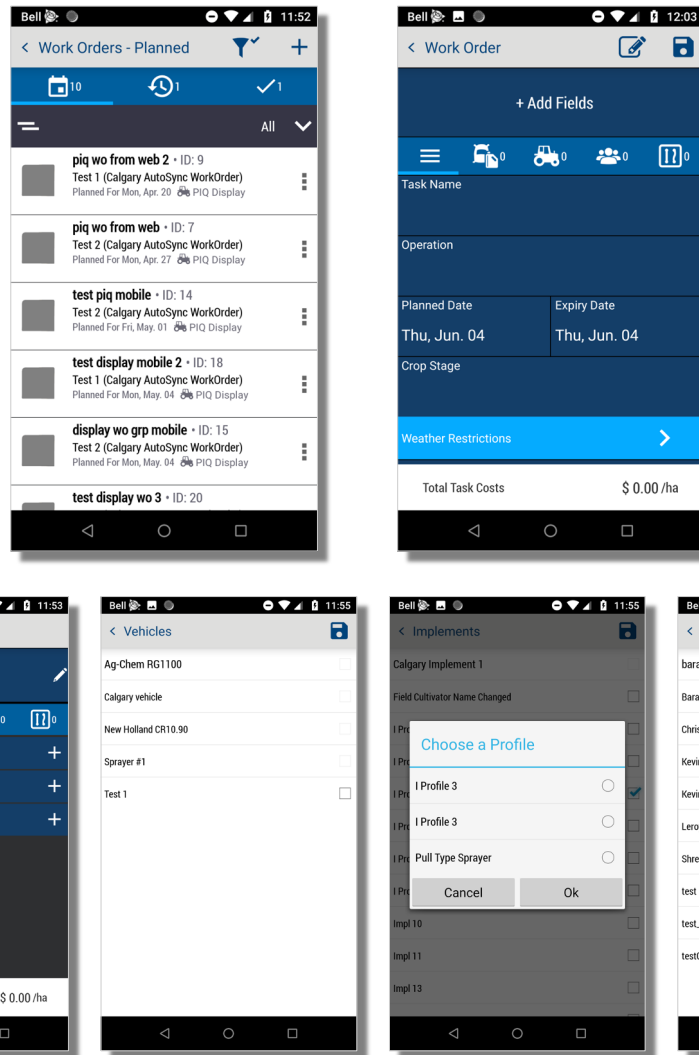
The screenshot displays the 'Fertilizer BioPhos 10-20-0_Liquid' application window. On the left, a sidebar contains input fields for 'Area Applied' (81.50 ha), 'Cost' (\$100.00 / l), 'Average Rate' (0.00 l / ha), 'Actual Rate' (0.00 l / ha), 'Quantity Used' (0.00 l), 'Rate Type' (Flat Rate and Variable Rate), and 'Placement' (Choose...). A red arrow points to the 'Import Prescription' link in the 'VARIABLE RATES' section. The main area shows a satellite map of a field with a white outline. A smaller window titled 'Fertilizer BioPhos 10-20-0_Liquid' is overlaid, showing the same input fields but with 'Variable Rate' selected. A red arrow points to the 'Variable Rate' radio button. To the right, a 'Prescription Settings' window is open, showing a table of zone rates and a map of the field with colored zones. The table has columns for 'Zone', 'Target Rate', and 'Units'. The zones are: 1.02 (l/ha), 2.14 (l/ha), and 3.21 (l/ha). The total quantity is 786.53 litres. The 'NEXT' button is highlighted.

Zone	Target Rate	Units
1.02	1.02	l/ha
2.14	2.14	l/ha
3.21	3.21	l/ha

1. Repeat Steps 1 to 7 from the session Create a Work Order with Flat Rate.
2. Now, in the Material Tab, select click **+ADD**. Select the desired product and click **ADD**.
3. A new window is going to show up and you should select the **Variable Rate** option.
4. As part of this workflow you will need to upload and third party prescription in a shapefile format. The system will request the three file components: .shp, .dbf and .shx. The .prj is optional.
5. As soon as the file is read, make sure you select the units in the dropdown and click **NEXT**.
6. Enter with **Lead Time** (The estimated amount of time it takes for your rate valves to adjust when entering a new prescription zone) and **Off -prescription Behaviour**. There are three options to choose from: Zero Rate, Last Rate and Default Rate. The Default rate is defined in your PiQ settings. Select your option and click **Ok**.
7. Repeat the steps 8 to 11 from the session Create a Work Order with Flat Rate.
8. Your Work Orders is now completed and ready to sync to display.

Mobile | Create a Display Work Order

FARMER PRO ONBOARDING

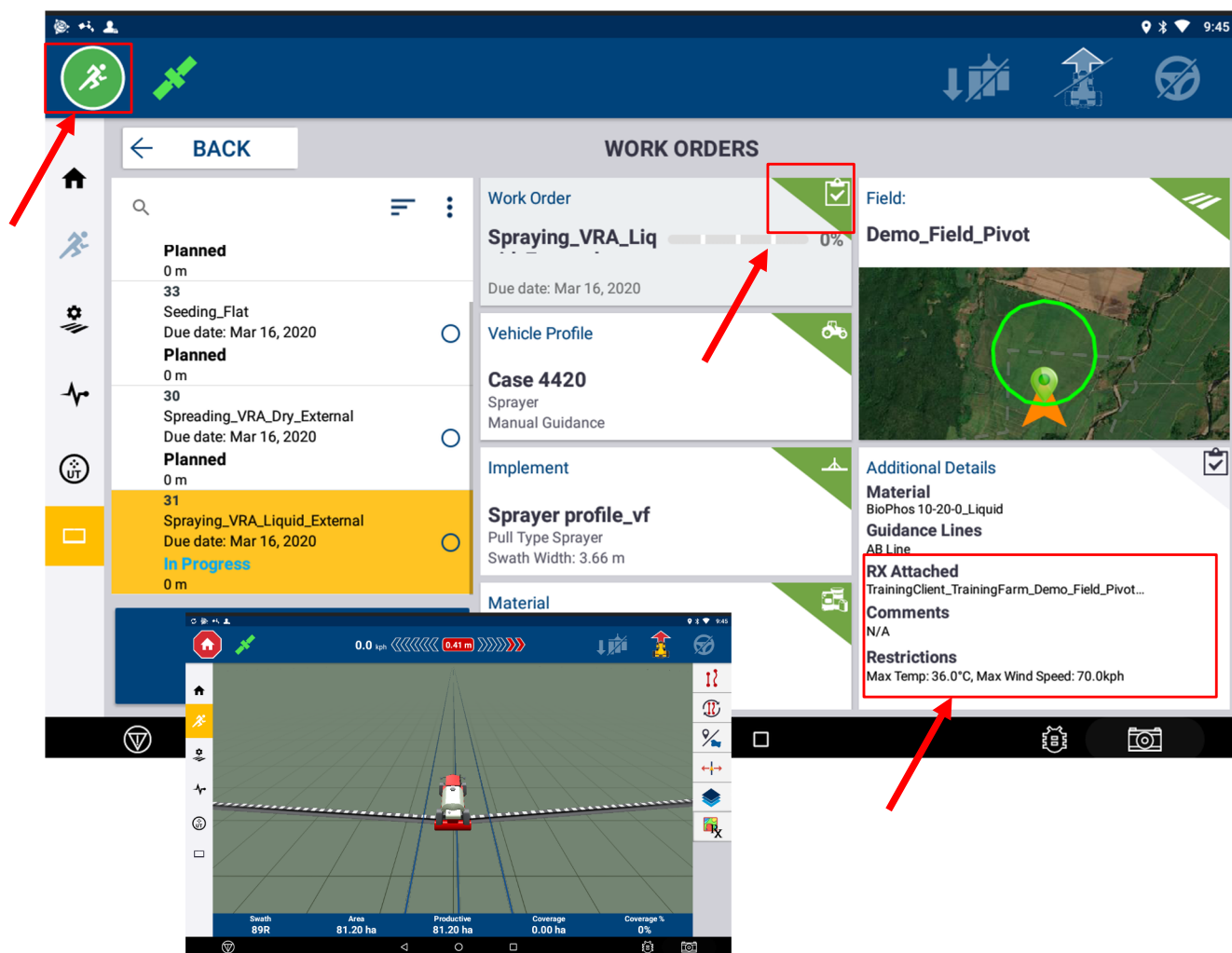


The Summer 2020 Mobile App Update provides the ability to create Display Work Orders from Trimble Ag Mobile

1. Use the + (plus sign) in the upper right corner to add a new work order
2. Add Fields, General Details, Materials, Vehicles, Implements, Operators, Weather Restrictions, and Guidance Lines
3. Search materials from your available My Materials lists for Fertilizers, Seeds, and Tank Mixes
4. Select Vehicles and Implements with synced profiles
5. Save the Work Order and Sync the mobile app to sync to your connected devices

Display| Visualize and Execute Work Orders

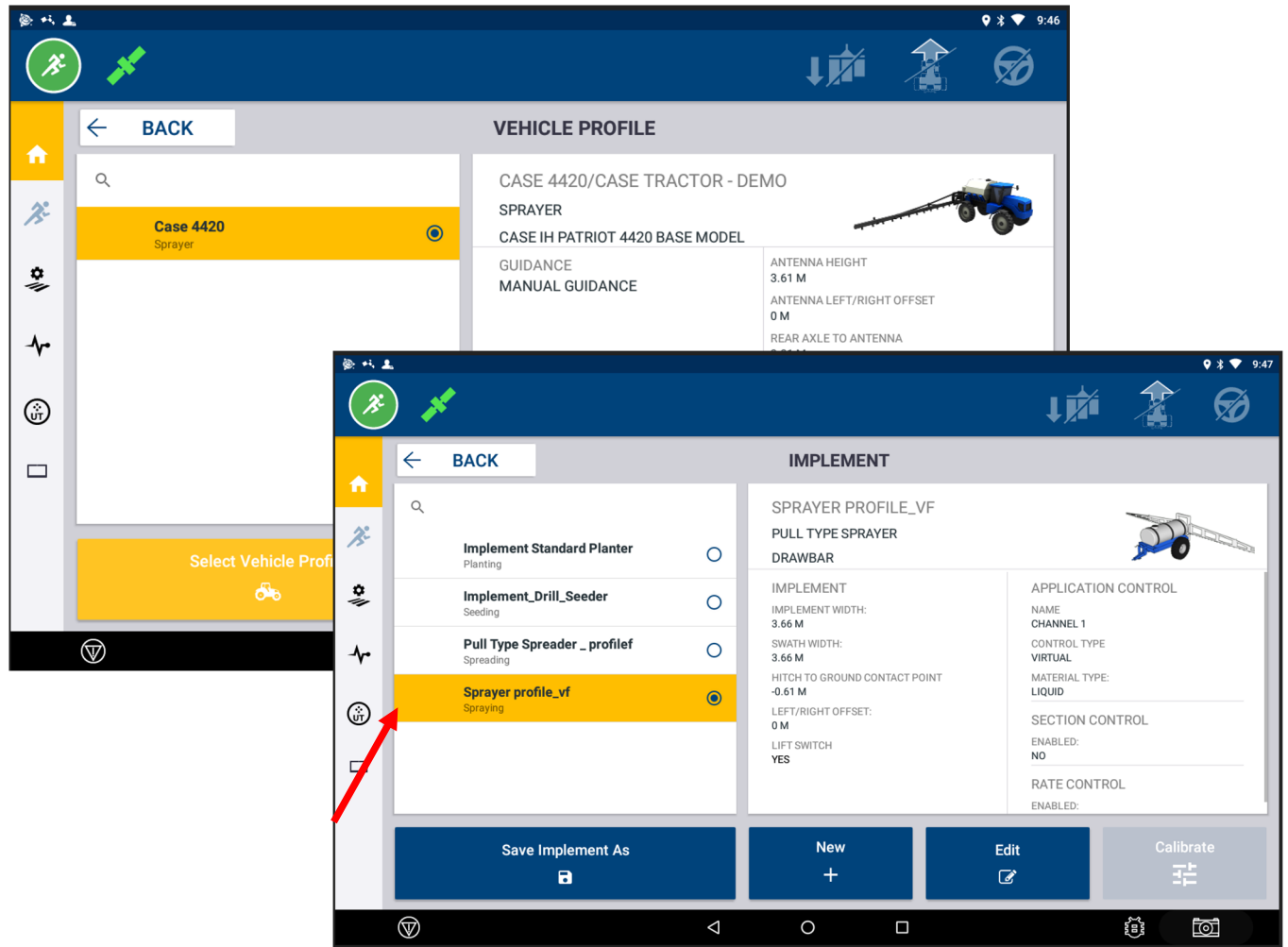
FARMER PRO ONBOARDING



1. Start **PIQ** in the display
2. Click on the **Home** button
3. Select the **Work Order** that you want to execute
4. Check if everything is working before you proceed:
 - a. All the Components: **Work Order**, **Vehicle Profile**, **Implement** and **Material** should be green. If not, please see the next page.
 - b. Check if the Rx shows the attachment (only required for VRA prescription)
 - c. Weather Restrictions are going to be informed. Operator must use third party apps to verify the current weather
5. If you confirm that everything is working well, click on the Run button on the top of PIQ to execute the task

Display| Change Vehicle and Implement Profile

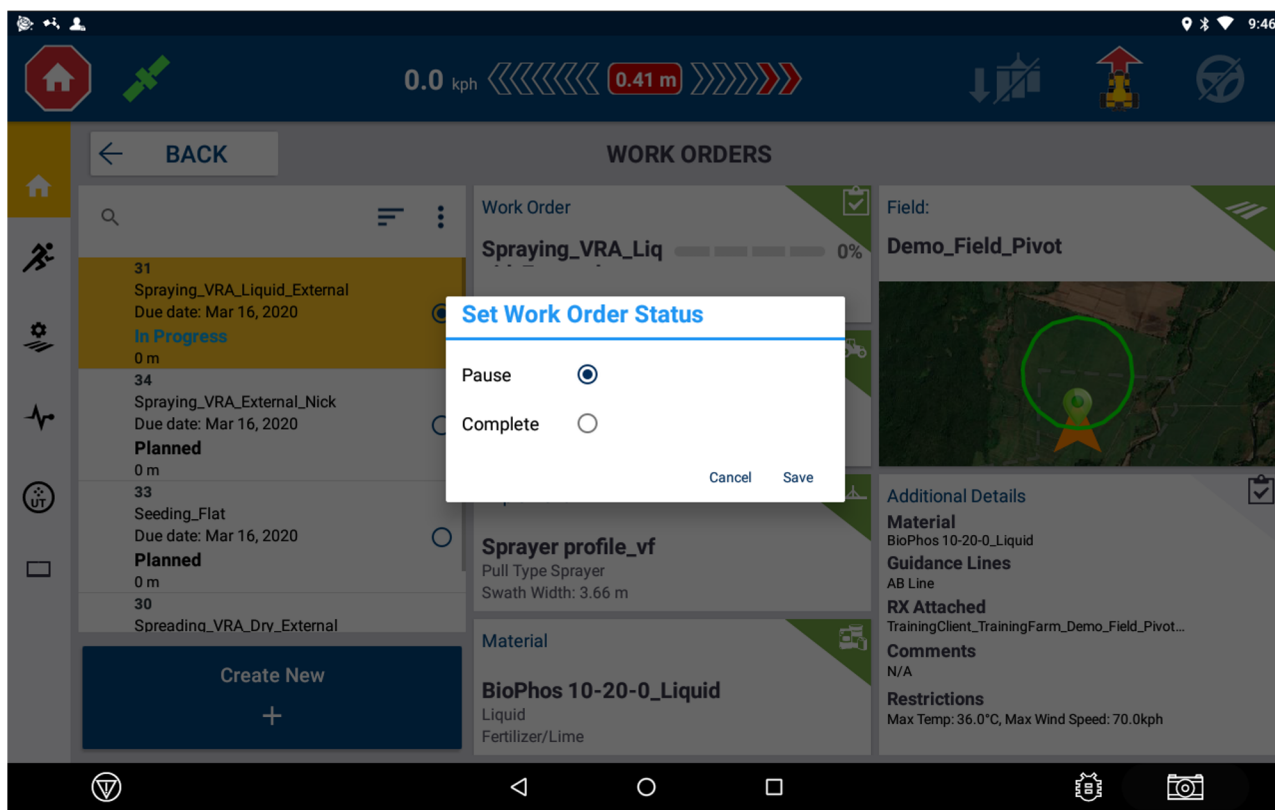
FARMER PRO ONBOARDING



1. If the Work Order selected does not have a Vehicle or an Implement or showed a yellow exclamation point instead of a green button, the operator will need to click on the item that requires further action to fix it.
 - a. Another window is going to open and the operator can select the correct item (vehicle/implement/material) to perform the job.
 - b. If nothing is available, the operator must follow the steps to add a new vehicle or implement profile that will be used to perform this job
 - c. Follow the instructions and provide all required information.
 - d. Once completed, the Vehicle and/or Implement is going to be shown for selection.

Display| Pause or Complete a Work Order

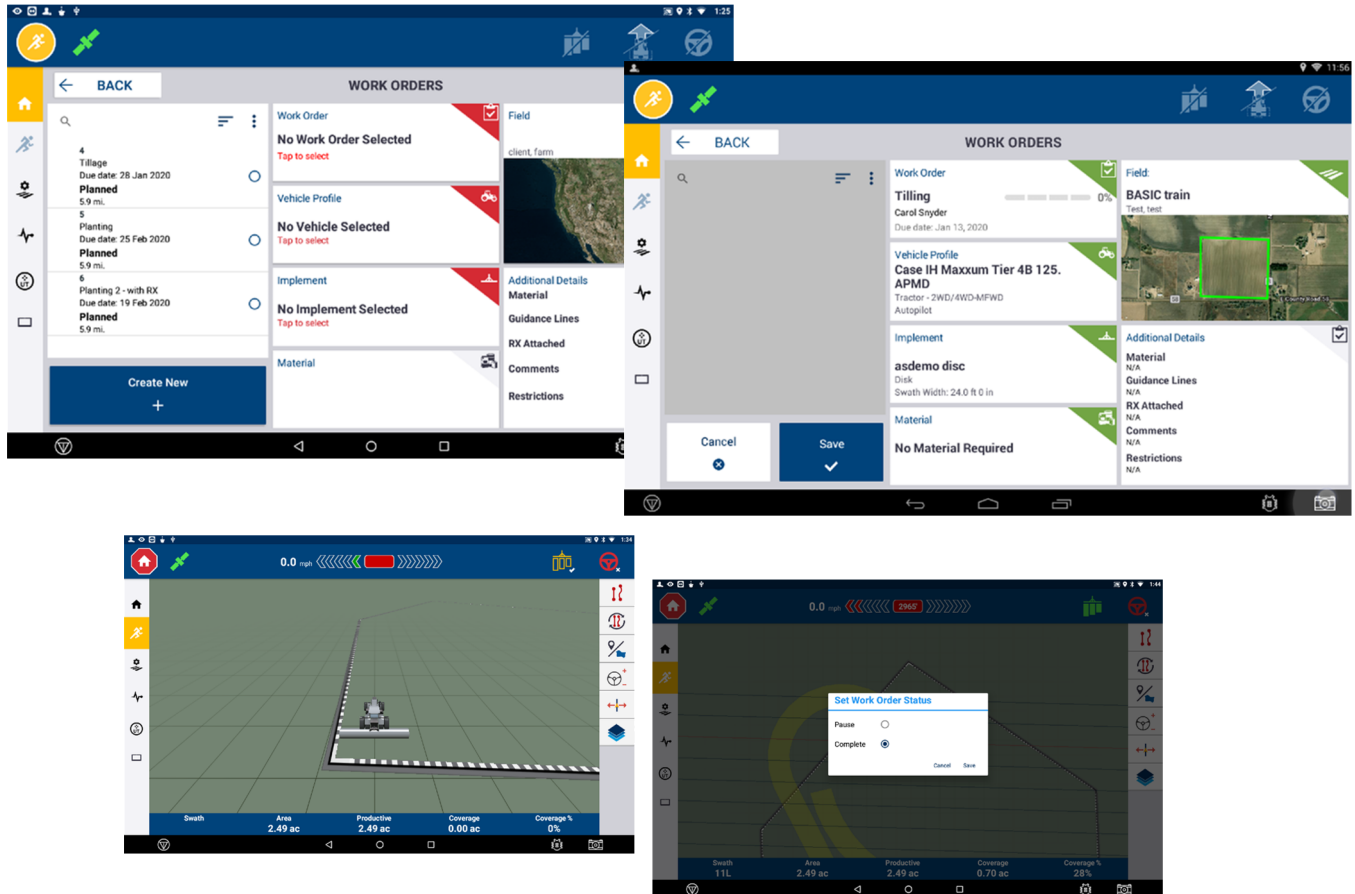
FARMER PRO ONBOARDING





1. As the Work Order is started, the operator will always have the option to click on the Home red button to:
 - a. Pause and Stop a work order to complete another time
 - b. Mark as complete when the task is done
2. As the auto-sync is turned on, the job executed will automatically sync to online and be available for you verification in the Equipment Activity.
3. Next, visit the session 0.4 to learn how to visualize the data in different areas of the online software and create reports.

Display| Create a New Work Order

FARMER PRO ONBOARDING

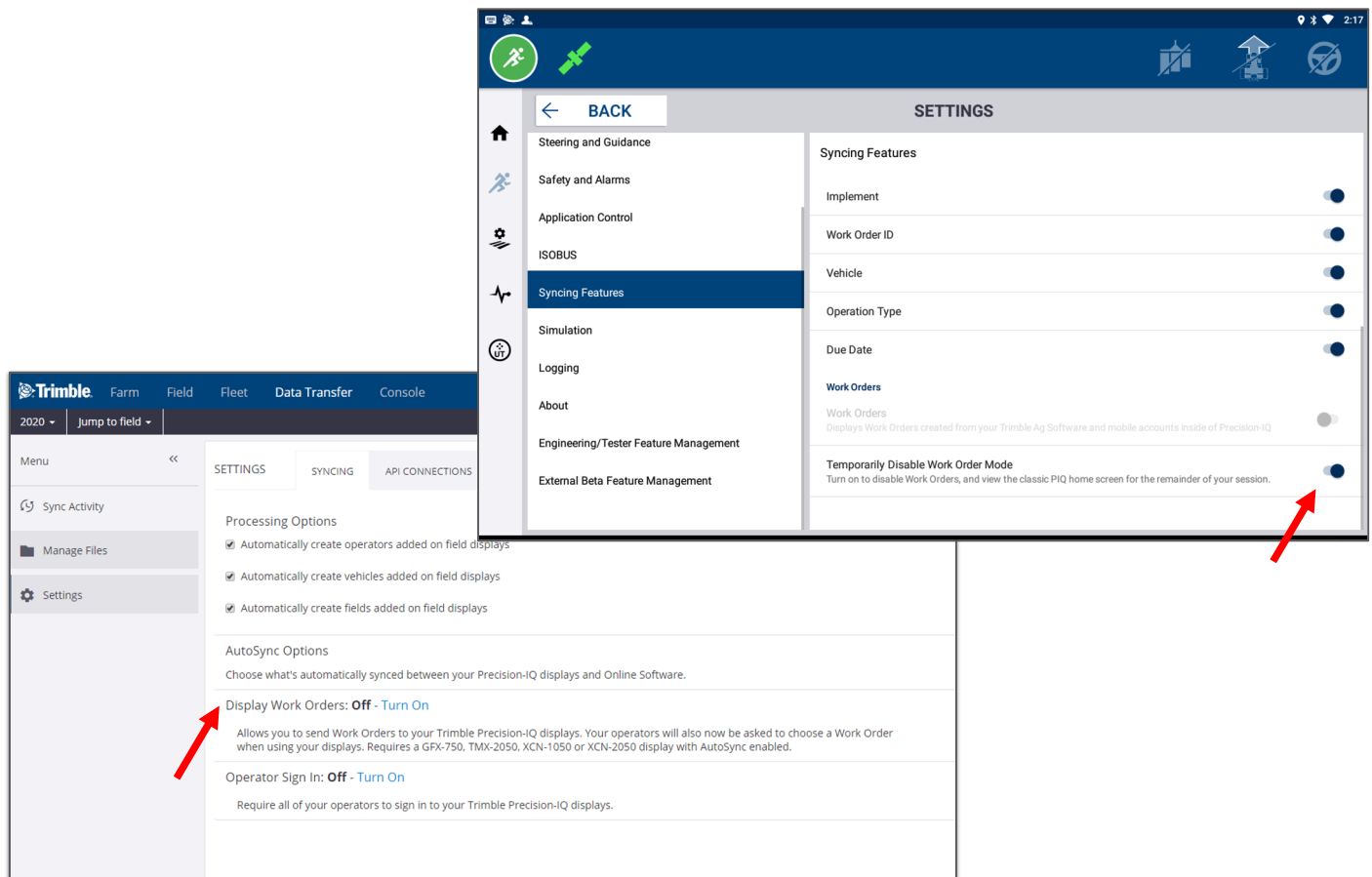


1. From the Work Orders Selection Screen, click the Create New button
2. Select the details for each task tile (Work Order, Vehicle Profile, Implement, Material, Field)
3. When all task tiles are green, click Save.
4. Click the Run button to perform work as usual in the field. 

1. Click the Stop button to pause or complete the work order. 

Disable Work Order Display and Online

FARMER PRO ONBOARDING



Display

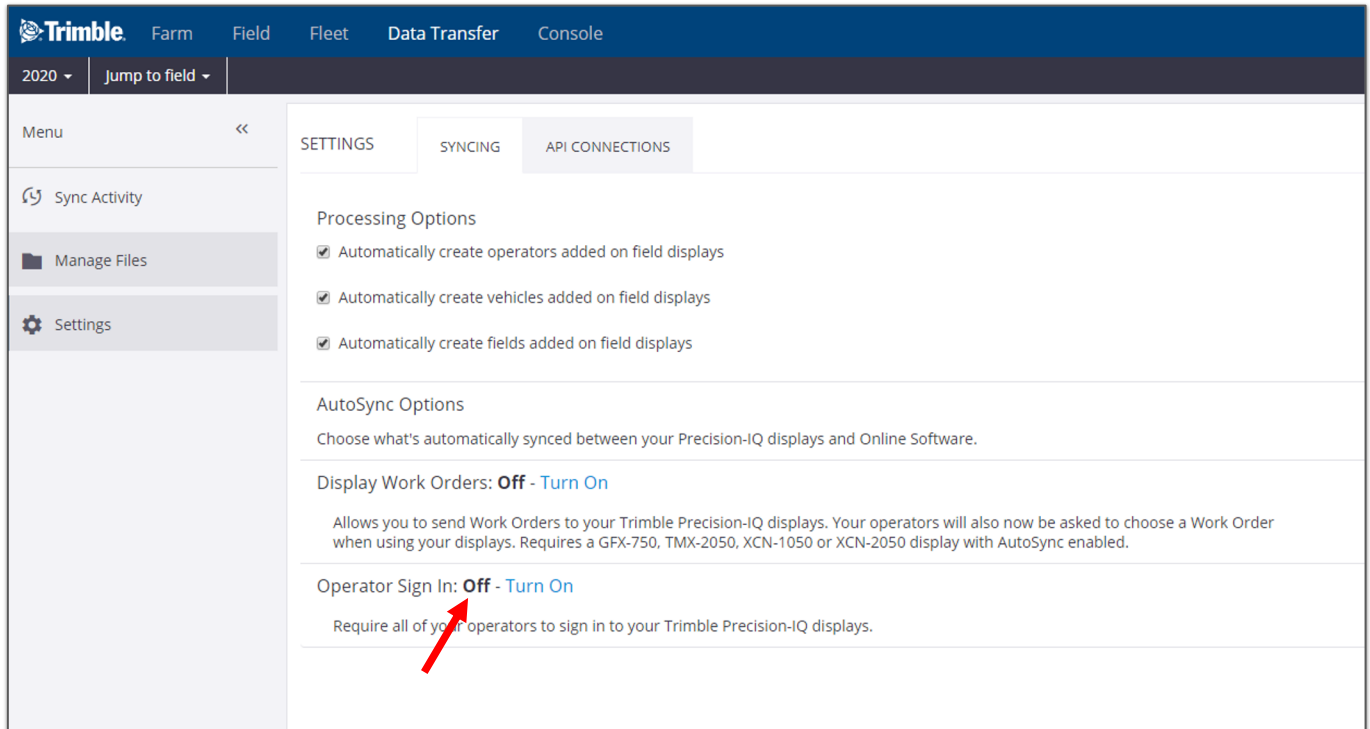
1. From PIQ Settings, click on **Syncing Features**
2. Scroll down to the bottom and find **Work Orders**
3. You can then temporarily disable Work Orders in that specific display.
4. Switch the button to **on**
5. PIQ will go back to the normal screen default

Online

1. Go to **Data Transfer** menu
2. Click **Syncing** option
3. Then **turn OFF** Work Orders option
4. This will prevent all connected displays in this Org to use Work Orders
5. It requires this option to be turned **ON** online for the displays to access Work Orders

Manage Operator Sign in from Online

FARMER PRO ONBOARDING



Online

1. Go to **Data Transfer** menu
2. Click **Syncing** option
3. Then find the Operator **Sign in** option
4. **Turn OFF** that option if you don't want the operator to login with his credentials in the display
5. **Turn ON** that option if you want the operator to login with his credentials in the display
6. This will be applied to all operators access to all displays associated with this Organization

0.6

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

+ ADD PERMISSION

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

CANCEL SAVE

Time Tracker

Search GO!

Nov 01, 2018 Nov 30, 2018

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

Timesheets

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

The screenshot displays the Trimble Time Tracker web application. The main interface shows a list of time tracker entries for the period Nov 01, 2018 - Nov 30, 2018. The table lists entries for Brent Chenier and David Palenname. Two pop-up windows are shown: 'Time Tracker - Add Details' and 'Time Tracker - User Map & Details'.

Time Tracker - Add Details

Select: Brent Chenier

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

Stop:

Time Tracker - User Map & Details

User: Brent Chenier

Date: November 14, 2018

Total Hours: 20.51




Map showing location and clock in/out times.

Time Tracker Report

Client: Brent Chenier
Year: 2019

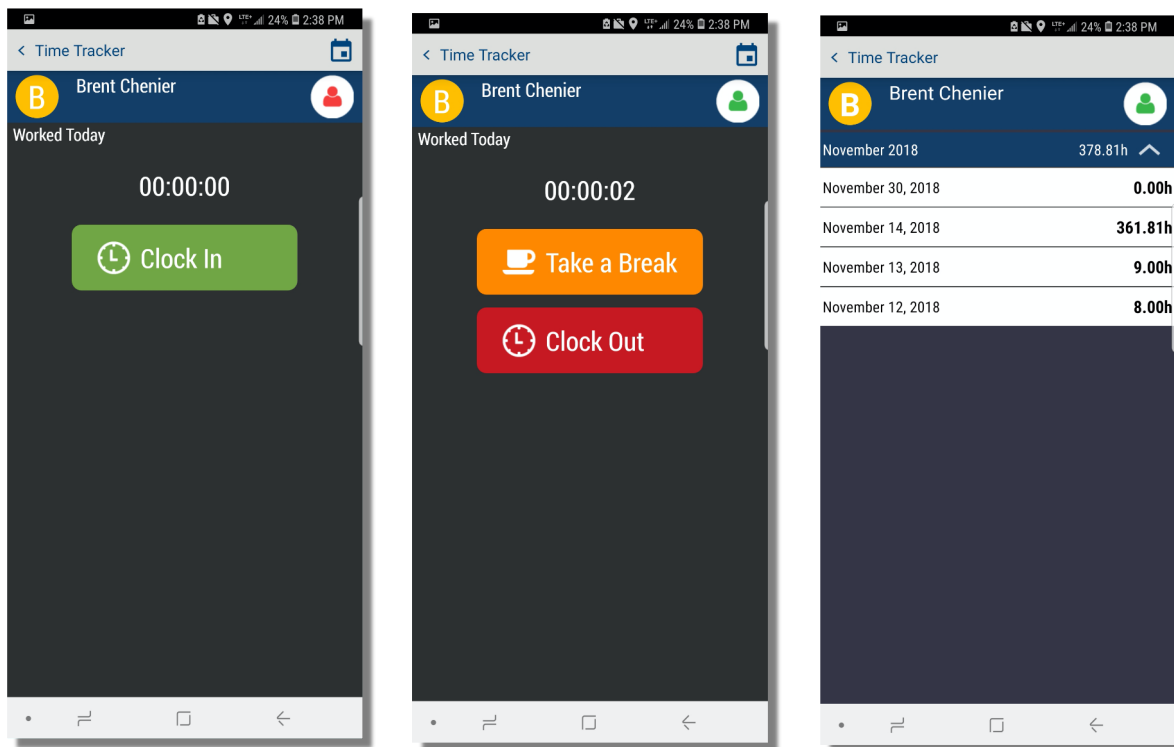
Dec 30, 2017 - Feb 28, 2019

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



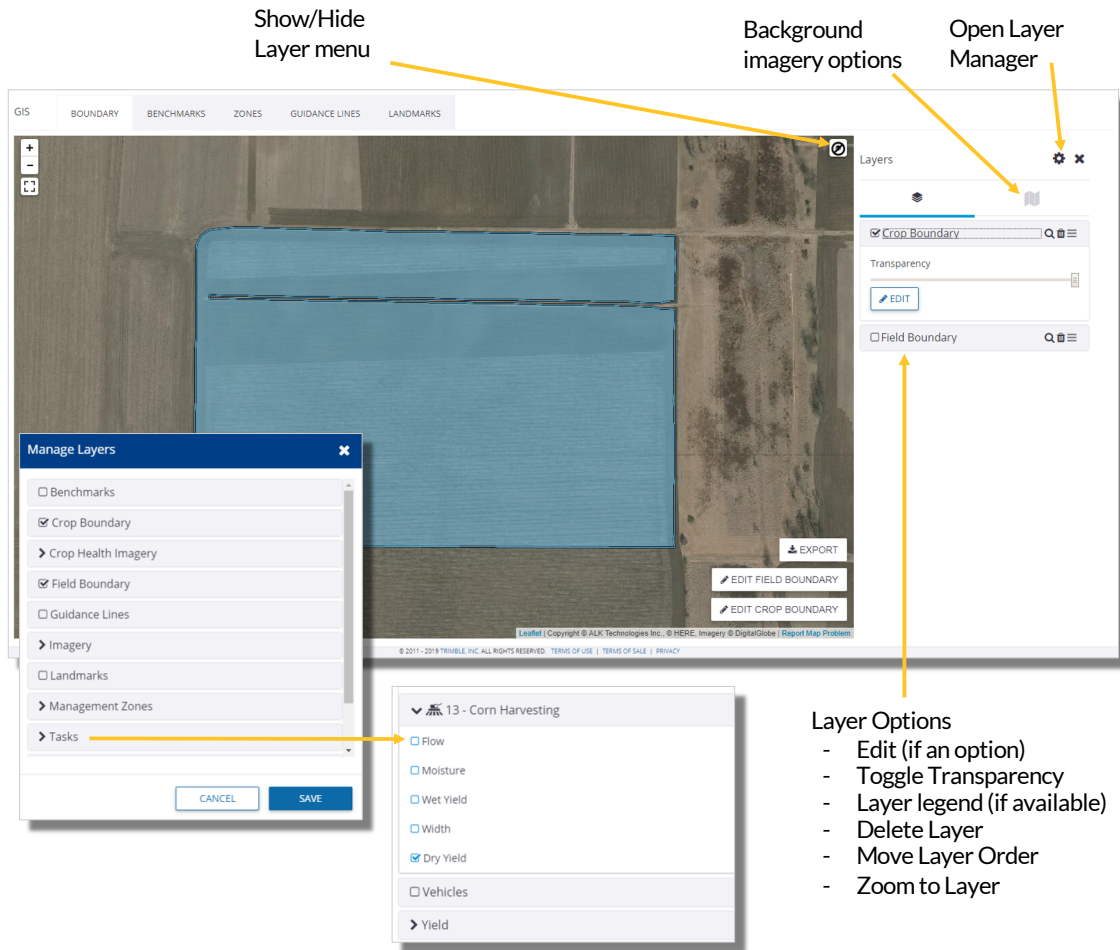
1. In the Mobile app, tap the **Time Tracker** tile
 - Tap **Clock In** to start time tracker
 - Tap **Take A Break** to pause time tracker for things like lunch breaks
 - i. Tap **Resume** to continue time tracker
 - Tap **Clock Out** to stop time tracker for that day.
 - Tap the **Calendar** icon in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

0.7

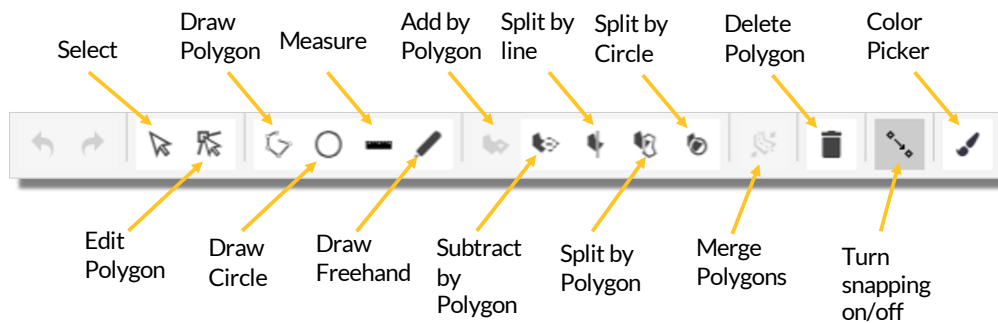
Coverage Maps and Guidance Lines

Online | GIS tools

FARMER PRO ONBOARDING

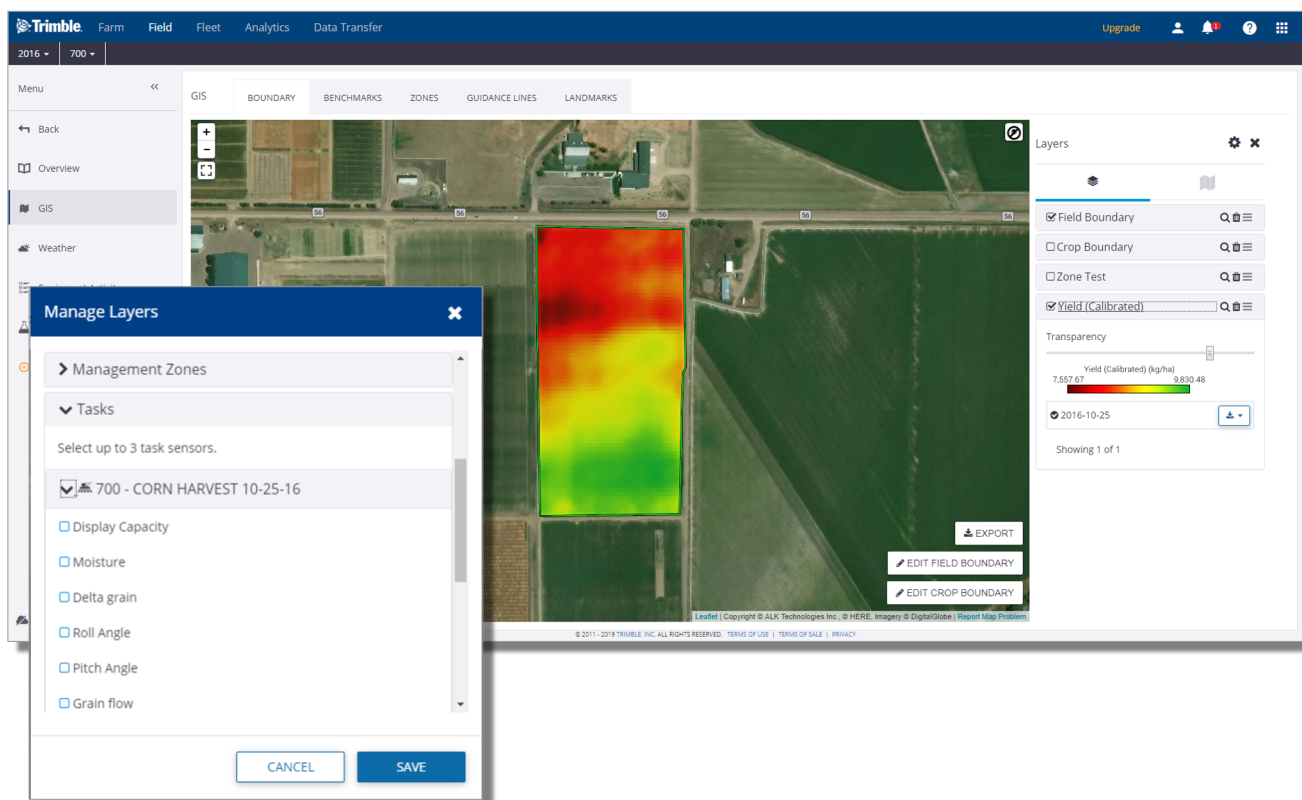







GIS Editing Tools (used when editing Zones or Field Boundaries):



Online | Map Layers

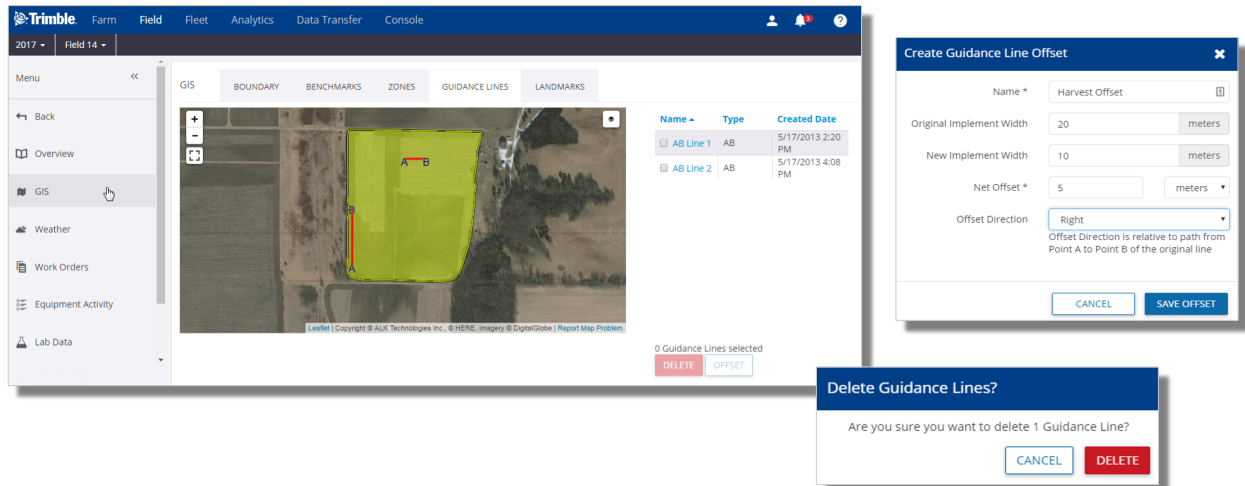
FARMER PRO ONBOARDING



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.

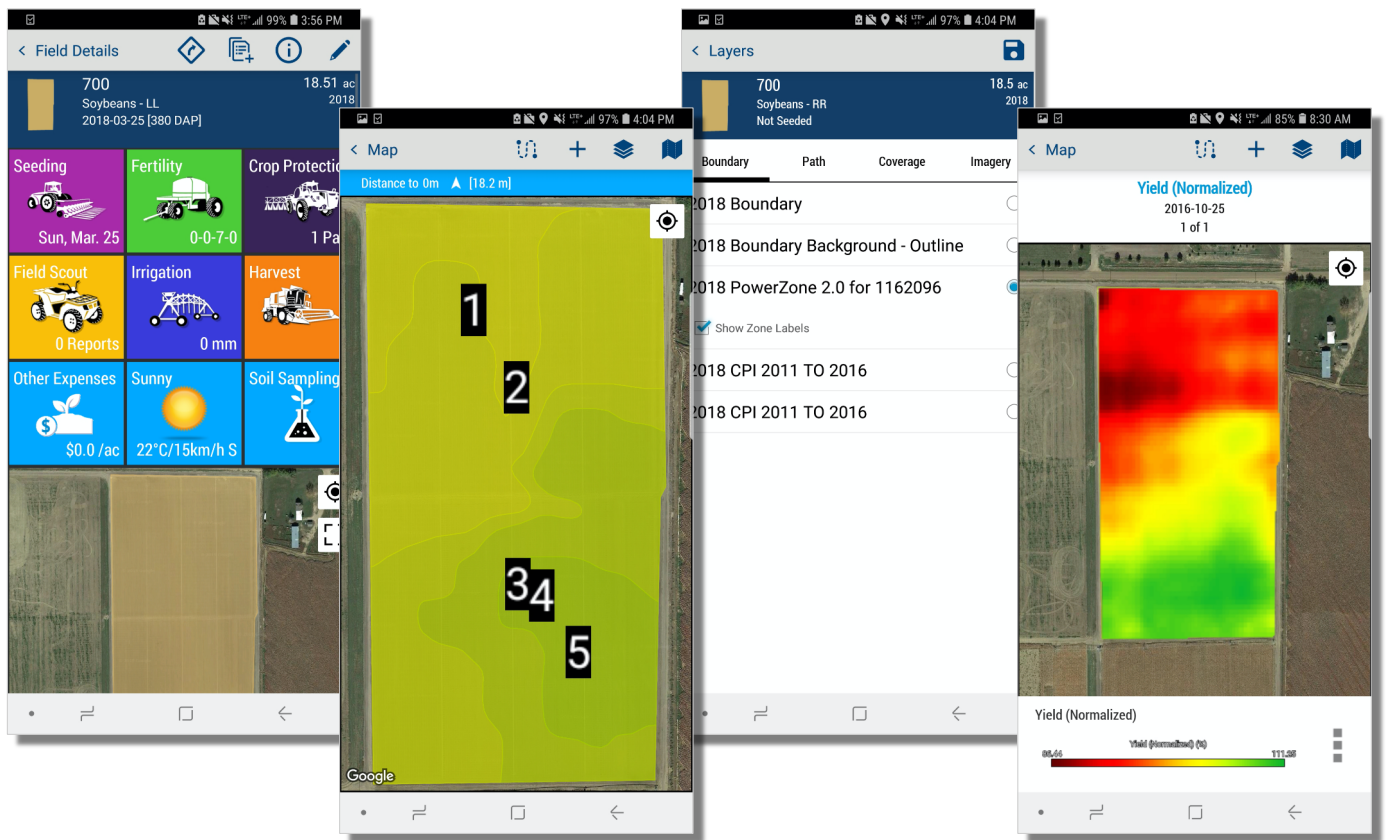
“Notice: Due to potential variations between manufacturers guidance systems, guidance line repeatability and position accuracy may degrade as field work occurs further away from the master AB line. ”













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

Mobile | Map Layers

FARMER PRO ONBOARDING



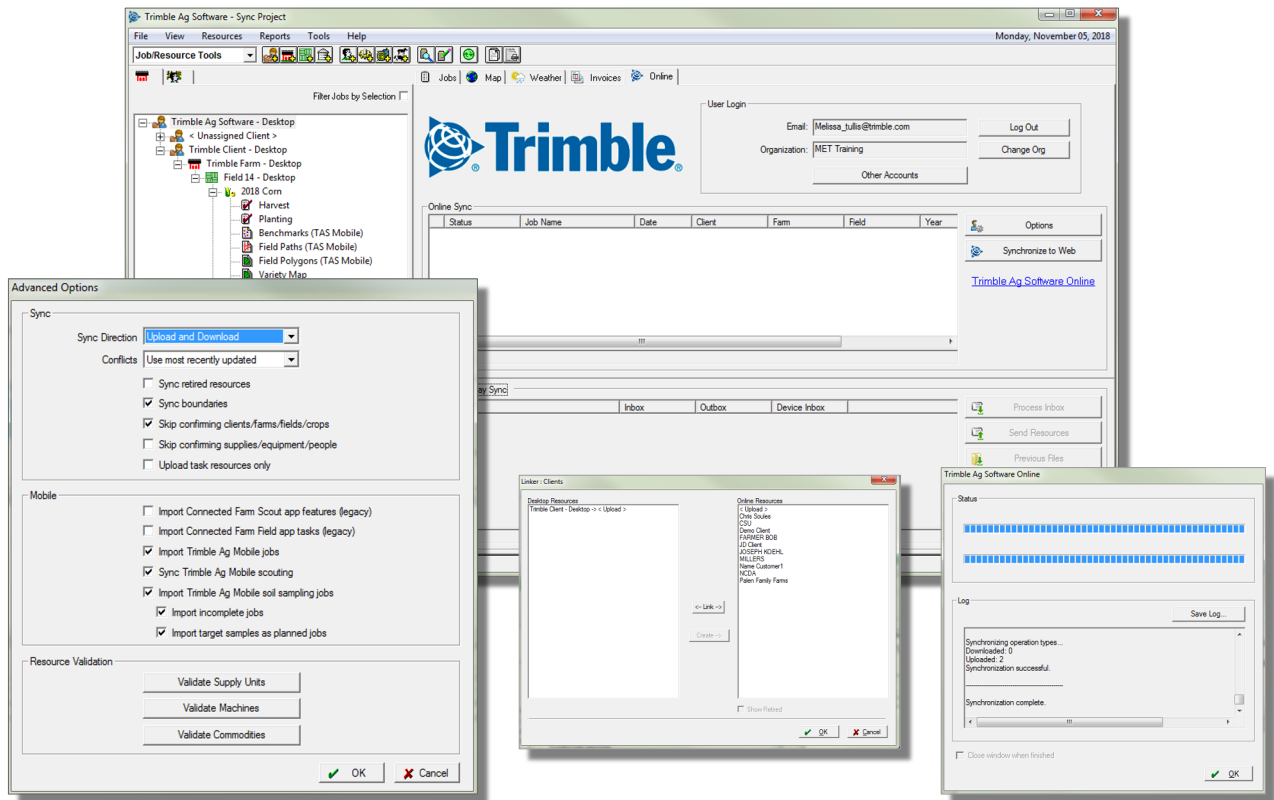
1. You can turn on various mapping layers from any of the mapping windows, ie. Field page, Scouting page, etc.
2. Tap the **Expand** button () > find and tap on the desired layer > tap **save**
3. Some surface layers have multiple layer options. Tap the 3 buttons () beside the legend to view other related 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

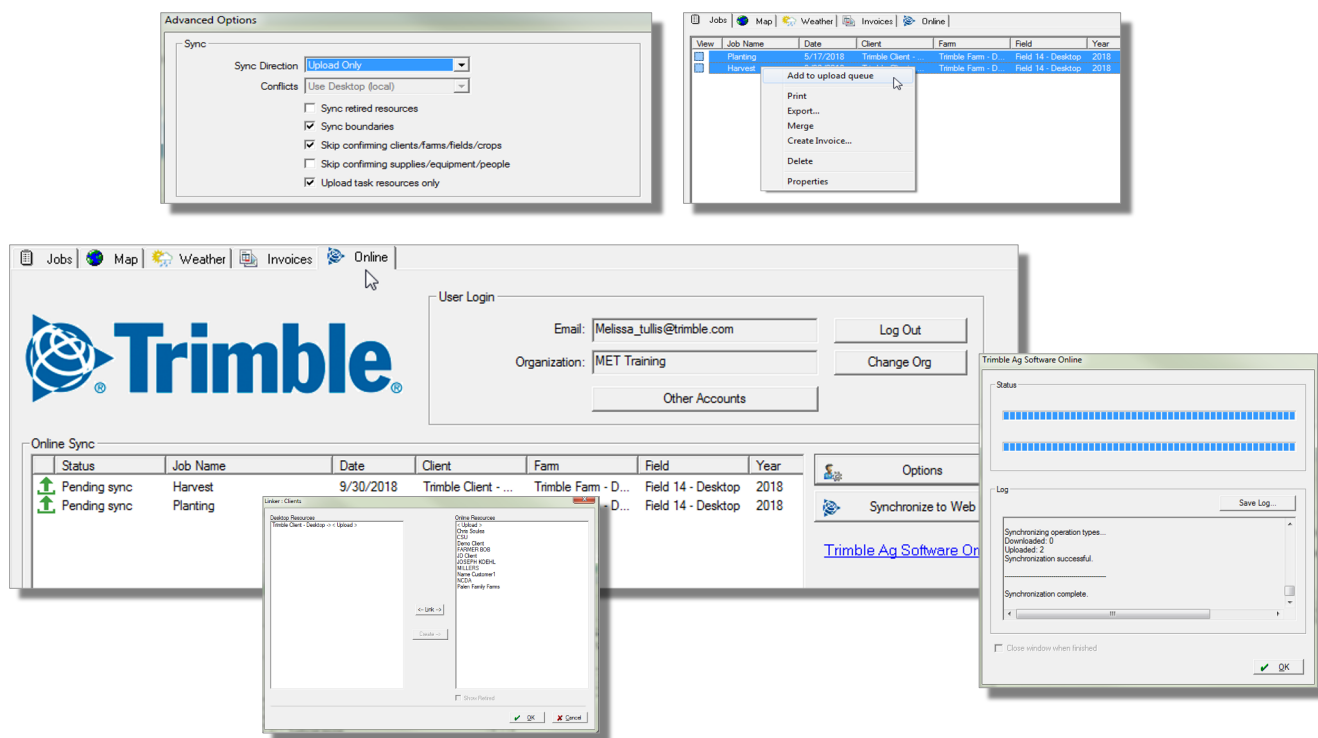


1. Open the Desktop Software
 - Click on the **Online** Tab
 - Enter the email address for your Online Account
 - Select the Organization with which you want to sync
2. Click **Options** in the Online Sync section
 - Configure the **Sync Direction**
 - Configure **Conflicts** for resolution priority
 - 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