



Getting Started with Farmer Core

User Guide for Trimble Ag Software | Farmer Core



Edition 6 | November, 2020

In this User Guide you will learn Farmer Core account setup and how to enable Precision-IQ™ (PIQ) displays for the AutoSync™ feature to sync guidance lines, field names, boundaries, landmarks, and operator information across all PIQ displays. You will also learn how to use the newest functionally Work Orders to manage your farm operations. Last, learn how to bring other data from an API connection or USB drive into Farmer Core and how to print proof of placement reports.

Farmer Core User Guide | Index

FARMER CORE ONBOARDING

0.1. Account Setup and User Access	<ul style="list-style-type: none">a. Login for Online and Mobileb. Software Settingsc. Support for Online and Mobile	Page 6
0.2. Planning Crop Season	<ul style="list-style-type: none">a. People<ul style="list-style-type: none">i. Contactsii. Operators and Send to Displayb. Equipment Data<ul style="list-style-type: none">i. Vehiclesii. Modem and Telematicsiii. Trimble Display Setupiv. Implementsv. Auto Asset Detection Solutionc. Fleet<ul style="list-style-type: none">i. Fleet Managementii. Operatorsiii. Vehicles and Groupsiv. Vehicle History and Sensorsv. Alertsvi. Utilizationd. Materials<ul style="list-style-type: none">i. Adding Chemicalsii. Adding Fertilizersiii. Adding Material Purchasesiv. Adding Tank Mixesv. Inputs and Materials Summaryvi. Adding Purchases via Mobilee. Farm and Fields<ul style="list-style-type: none">i. Adding Crop and Crop Seasonii. Adding Clients / Farm / Fieldiii. Adding Fields and Boundaries (Bulk)iv. Creating Field Boundaries on Mobilev. Adding New Cropvi. Farm Mapsvii. Crop Rotation Plan	Page 13

Farmer Core User Guide | Index

FARMER CORE ONBOARDING

0.3. AutoSync, Work Orders And Prescriptions

- a. AutoSync Feature
 - i. AutoSync Summary
 - ii. AutoSync: Requirements and Setup Steps
 - iii. Step 1: Setup Vehicles in Online
 - iv. Step 2: Cleanup, Backup and Update
 - v. Step 3: Connect Display to Internet
 - vi. Step 4: Enable AutoSync in PIQ
 - vii. Step 5: AutoSync Wizard
 - viii. Sync Process
 - ix. Monitor Synchronization in PIQ
 - x. Trimble AutoSync Service app
 - xi. Setup: Check the Unit in the System
 - xii. Setup: Materials Properties
 - xiii. Device Setup Online
 - xiv. Setup: Operator Display Sign In
- b. Work Orders
 - i. Requirements and Setup
 - ii. Various Options
 - iii. Turn On in Online
 - iv. Create a Work Order with Flat Rate
 - v. Create a Work Order with VRA Rx
 - vi. Create a Display Work Order on the Mobile App
 - vii. Email Work Orders from the Mobile App
 - viii. Display Visualize and Execute Work Orders
 - ix. Display Change Vehicles and Implement Profiles
 - x. Pause or Complete a Work Order
 - xi. Display Create a New Work Order
 - xii. Disable Work orders in PIQ and Online
 - xiii. Online Manage Operator Sign In
- c. Prescriptions
 - i. Prescriptions Tab Overview
 - ii. Add Prescription from Zip File
 - iii. Add Prescription from Zones - Create Zone Map
 - iv. Mobile | Management Zone Creation
 - v. Add Prescription from Zones
 - vi. Send Multiple Prescriptions
 - vii. Sent Prescriptions Status

Page 50

Farmer Core User Guide | Index

FARMER CORE ONBOARDING

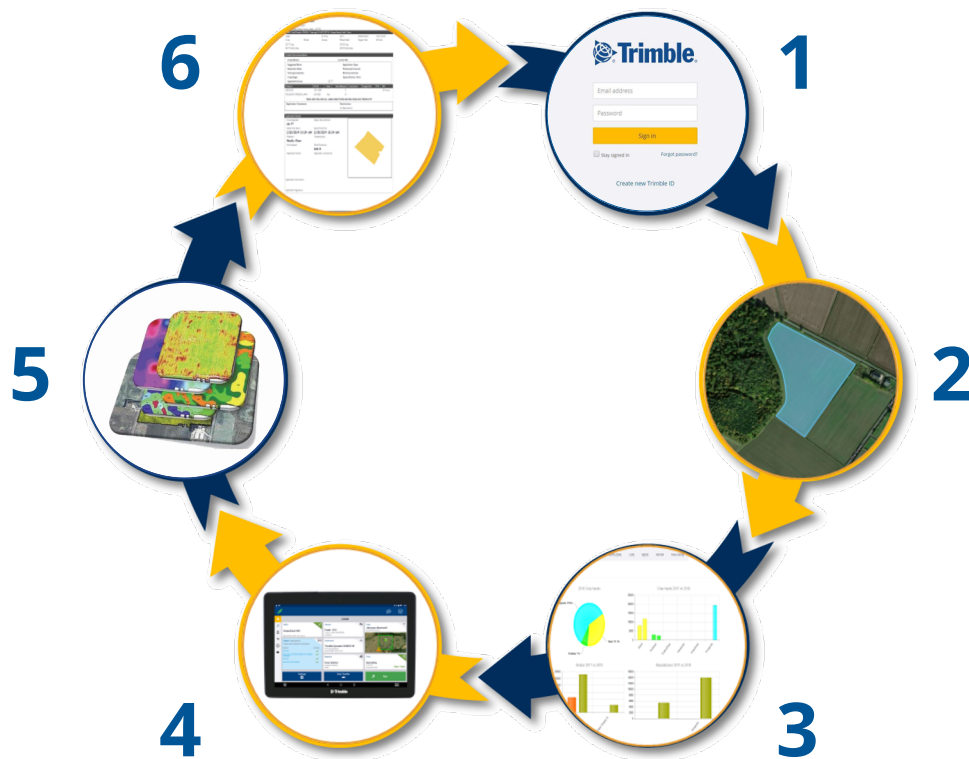
0.4. Uploading Data	<ul style="list-style-type: none">a. Equipment Data Upload<ul style="list-style-type: none">i. Option 1: API Connectionii. Option 2: Trimble Displayiii. Option 3: Manual Importiv. Option 4: Additional Data Uploading Tipsv. Import from shapefilevi. Verifying Taskvii. Manage Equipment Activity Onlineviii. Equipment Activity Export to Shapefileb. Generic Data Upload<ul style="list-style-type: none">i. Import UAV Imageryc. Yield Data Upload / Cleaning<ul style="list-style-type: none">i. Yield Cleaning Toolii. Import Raw Yield Dataiii. Import Yield from Shapefileiv. Yield Cleaning	Page 90
0.5. Post-Season Application Data And Reports	<ul style="list-style-type: none">a. Using the new Field Managerb. Using the Activities Tabc. Add a Task manually in Onlined. Add a Task manually in Mobilee. View Application dataf. Edit Task datag. Using the Legacy Field Managerh. Proof of Placement Reportsi. Bulk Proof of Placement Reports	Page 92
0.6 Coverage Maps / Guidance Lines	<ul style="list-style-type: none">a. GIS Toolsb. Map Layers Onlinec. Guidance Linesd. Map Layers in Mobile	Page 120
0.7 Desktop Sync (previous customers)	<ul style="list-style-type: none">a. Sync Resources from Desktopb. Sync Task Data from Desktop	Page 125

Farmer Core | Full Setup Steps

FARMER CORE ONBOARDING

Below is an overview of the steps you will take to set up your Farmer Core account.

1. Create and set up a Trimble Ag Software (TAS) Account
2. Create and Edit Client/Farm/Fields
3. Add products, costs, and purchases
4. Display setup, AutoSync and Work Orders features
5. Read Equipment Data - API or USB
6. Proof of Placement Report



0.1

Account Setup and User Access

Online | Account Setup

FARMER CORE ONBOARDING

Objectives - To learn how to start using the software.

In this session you will learn:

- Login to TAS Online Account
- Farmer Core Navigation
- Configure Your Settings
- Activate Add-ons in MarketPlace
- Add Contacts
 - Manage Access
- Login on TAS Mobile Account

Online | Login

FARMER CORE 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 links for Agriculture, Products, Solutions, Support, How to Buy, and Login. A large banner image of a cornfield is displayed. Below the banner, there are two main sections: 'Trimble Reseller Login' and 'Software Customer Login'. The 'Trimble Reseller Login' section includes a description of the Channel Resource Center and a 'Channel Resource Center' button. The 'Software Customer Login' section includes a description of the Trimble Ag Software Login and a 'Trimble Ag Software Login' button. A large, semi-transparent login form is overlaid on the page, featuring the Trimble logo, input fields for 'Email address' and 'Password', a 'Sign in' button, a 'Stay signed in' checkbox, a 'Forgot password?' link, and a 'Create new Trimble ID' link.

Trimble

Navigation: About Us, News & Updates, Blog, Trimble.com

Main Navigation: Agriculture, Products, Solutions, Support, How to Buy, Login

Login

Trimble Reseller Login

Trimble resellers can access sales tools, information, and resources on the Channel Resource Center with their SSO (Ag Partner Site Login Credentials).

[Channel Resource Center](#)

Software Customer Login

Software customers can log into Trimble Ag Software by clicking the button below. First time Trimble Ag Software users can follow [these directions](#) for setting up an account.

[Trimble Ag Software Login](#)

Trimble

Email address

Password

Sign in

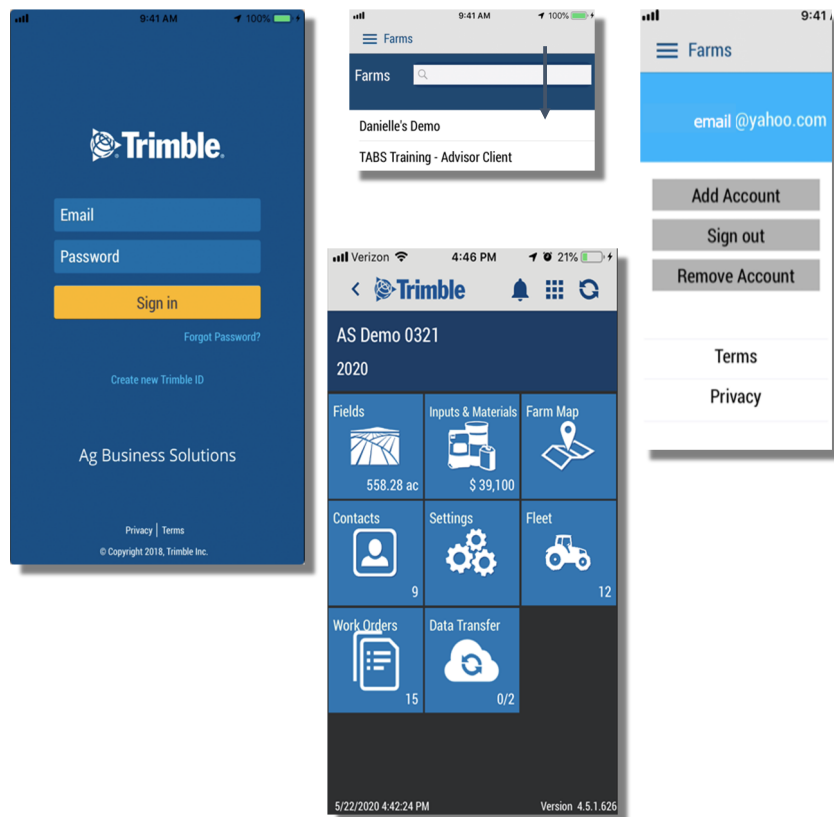
☐ Stay signed in [Forgot password?](#)

[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 CORE 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.

Online | Software Settings

FARMER CORE 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.

TABS Training - Advisor Client
Brent_Chenier@trimble.com
[Sign Out](#) | [My Settings](#) | [Change Account](#)

Search

Advisor Company


Advisor Company - Internal (PWB/ACT)

Agri-Trend Agrology

Brent Chenier

MANAGE ORGANIZATIONS

© 2018 - 2019

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



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

Online| Support

FARMER CORE ONBOARDING

The screenshot shows the Trimble Software Support page. The main heading is "Software Support". Below it, there's a section "How-To Central" with the text "Find answers now. Search or browse step-by-step guides, watch videos, download desktop software updates and get v Central." followed by a link "Central".

Next is "Help from Support" with the text "Four ways to receive personal support from Trimble:" followed by a list:

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

A footnote states: "*available during most of North America's business hours"

Below is the "Onboarding" section with a list:

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

At the bottom is the "Regional Support" section 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 is a "Support Request" form. It includes fields for Name, Email, Phone, Subject, Product Family, Feature, Issue Type, and Priority. A "Submit Request" button is at the bottom. A note on the right side of the form says: "If you are having problems with a particular farm or field please include farm name, field ID and crop year in your description as well as the page your ran into the problem on. Please be as specific as possible when describing your issue."

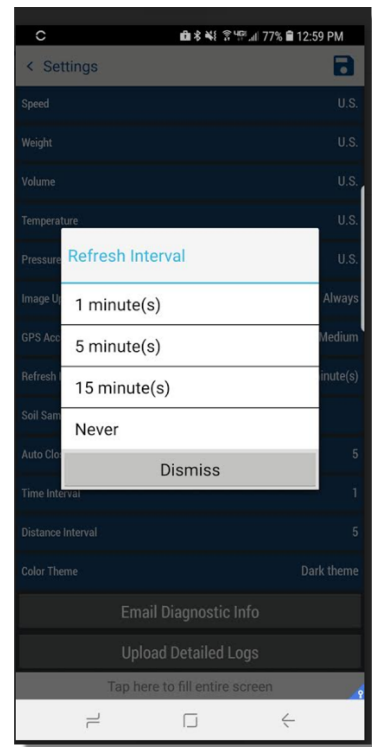
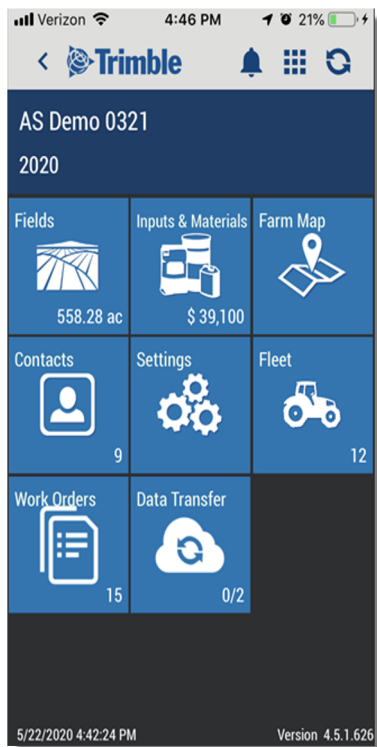
1. The **Software Support** page can be reached by clicking on the Support button () > **Support Website**
2. Choose from 3 support avenues
 - a. **Telephone** (available through support website)
 - b. **Chat** (available through support button)
 - c. **Email** (available through support button)



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

Mobile | Support/Settings

FARMER CORE ONBOARDING



Support:

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

Settings:

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



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

0.2

Planning Crop Season

Online| Planning Season

FARMER CORE ONBOARDING

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

In this session you will learn:

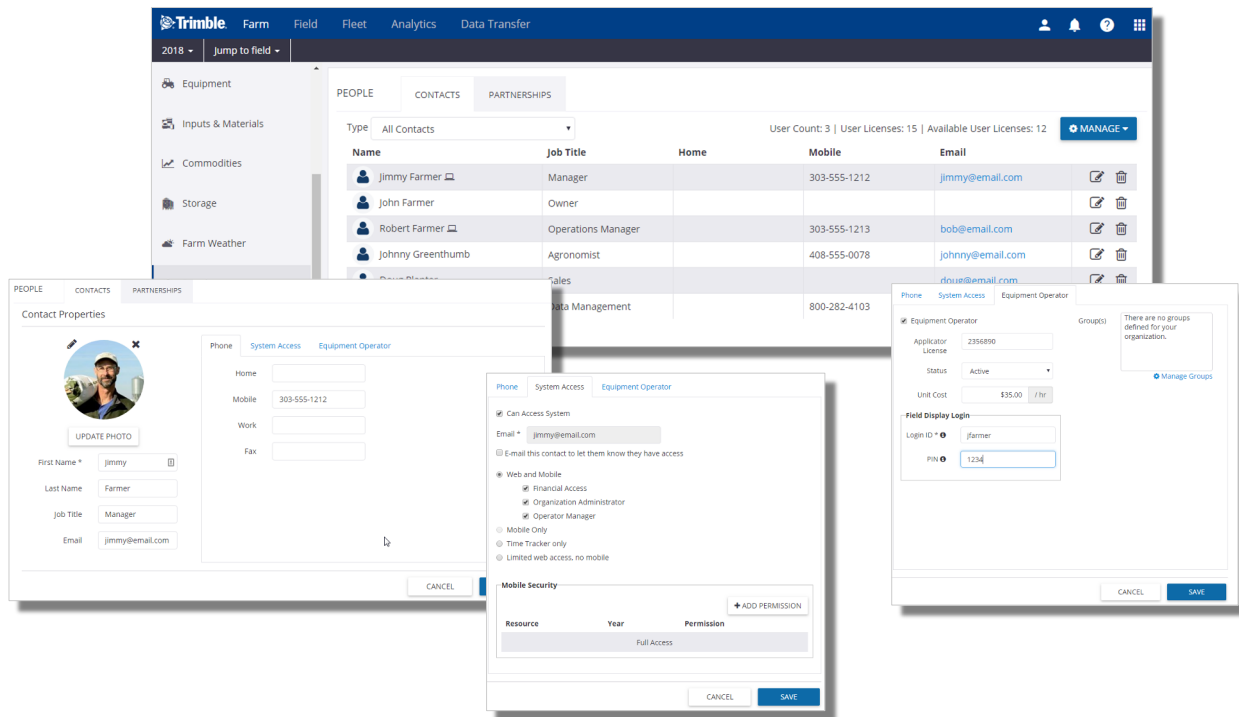
- How to manage People and Operators
- How to manage Equipment
- How to manage Materials
- How to set up Farms and Fields

0.2.a

People

Online | Contacts

FARMER CORE ONBOARDING



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



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

Online | Operators

FARMER CORE ONBOARDING

The screenshot shows the Trimble Farmers Core Onboarding interface. The top navigation bar includes 'Farm', 'Field', 'Fleet', 'Analytics', and 'Data Transfer'. The left sidebar has 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. A modal window is open for editing an operator's details, with tabs for 'Phone', 'System Access', and 'Equipment Operator' (selected). The modal 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:

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

Operator Name	Login	Job Title	Groups	Availability
Byard, Gwen	GByard5054			Active
Collins, Mark	mcollins		CSU Staff	Active
Demo for PWIM, CF	CDemo for PWIM5566			Active
Demydenko, Sergii	Demydenko		Trainee	Active
Hodson, Kevin	124		CSU Staff new operator Test Trainee	Active

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

0.2.b

Equipment Data

Online| Planning Season: Equipment

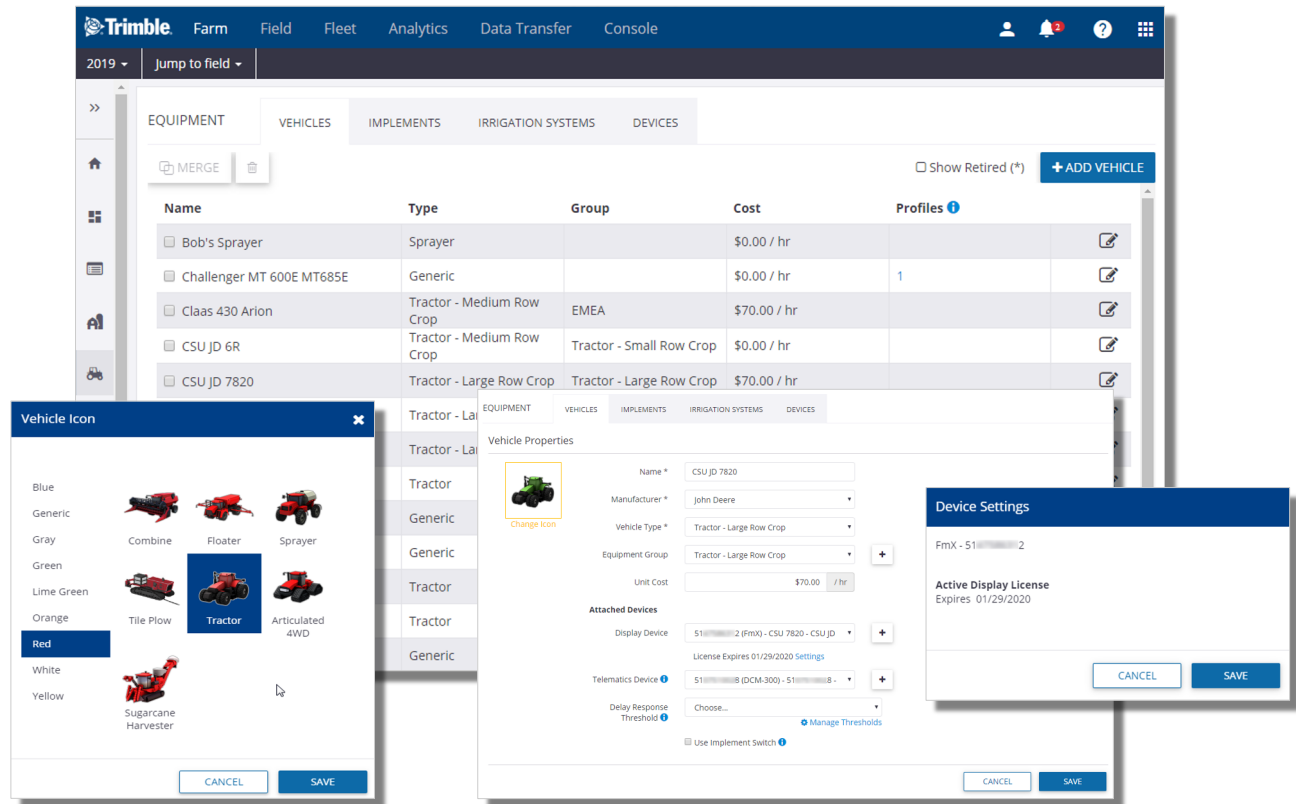
FARMER CORE ONBOARDING

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



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 Information

FARMER CORE ONBOARDING

Attached Devices

Display Device

533-932 (TMX) - Kubota 1140 - Kubota RTV1140

+

License Expires 01/29/2020 - Autosync Off. [Settings](#)

Telematics Device ⓘ

Unassigned

+

When setting up a vehicle, the Attached Devices settings can vary depending on the modem that is being used with the vehicle display, and the features that are being utilized. For Farmer Core, select the Display Device serial number to activate a Display License to begin utilizing AutoSync or Office Sync features. The modem serial number should not be entered in the Telematics Device dropdown for this feature.

The table below is designed to help understand the supported displays and supported features for each modem type.

Modem	Supported Trimble Displays	Supported Syncing Features
Sierra Wireless RV55	GFX-350™ Display GFX-750™ Display FmX® Integrated Display TMX-2050™ Display CFX-750™ Display AG-372 Receiver	AutoSync™ (PIQ only) Office Sync
Sierra Wireless GX450	GFX-350™ Display GFX-750™ Display FmX® Integrated Display TMX-2050™ Display CFX-750™ Display	AutoSync™ (PIQ only) Office Sync
SNM941 Connected Site Gateway	FmX Integrated Display TMX-2050	AutoSync (PIQ only) Office Sync Vehicle Sync (FmX or FmX+ only)
DCM-300	FmX Integrated Display TMX-2050 CFX-750	AutoSync (PIQ only) Office Sync Vehicle Sync (FmX or FmX+ only)

Online | Implements

FARMER CORE ONBOARDING

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

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. Implement profiles are created on your Trimble display as usual which are tied to the Implement properties created in Online. Multiple profiles can be associated with one implement name where applicable..
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 CORE 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

>>

Home

Menu

Analytics

Tractor

Implement

Map

Users

Settings

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

FarmStream Fleet

Online| FarmStream Fleet

FARMER CORE ONBOARDING

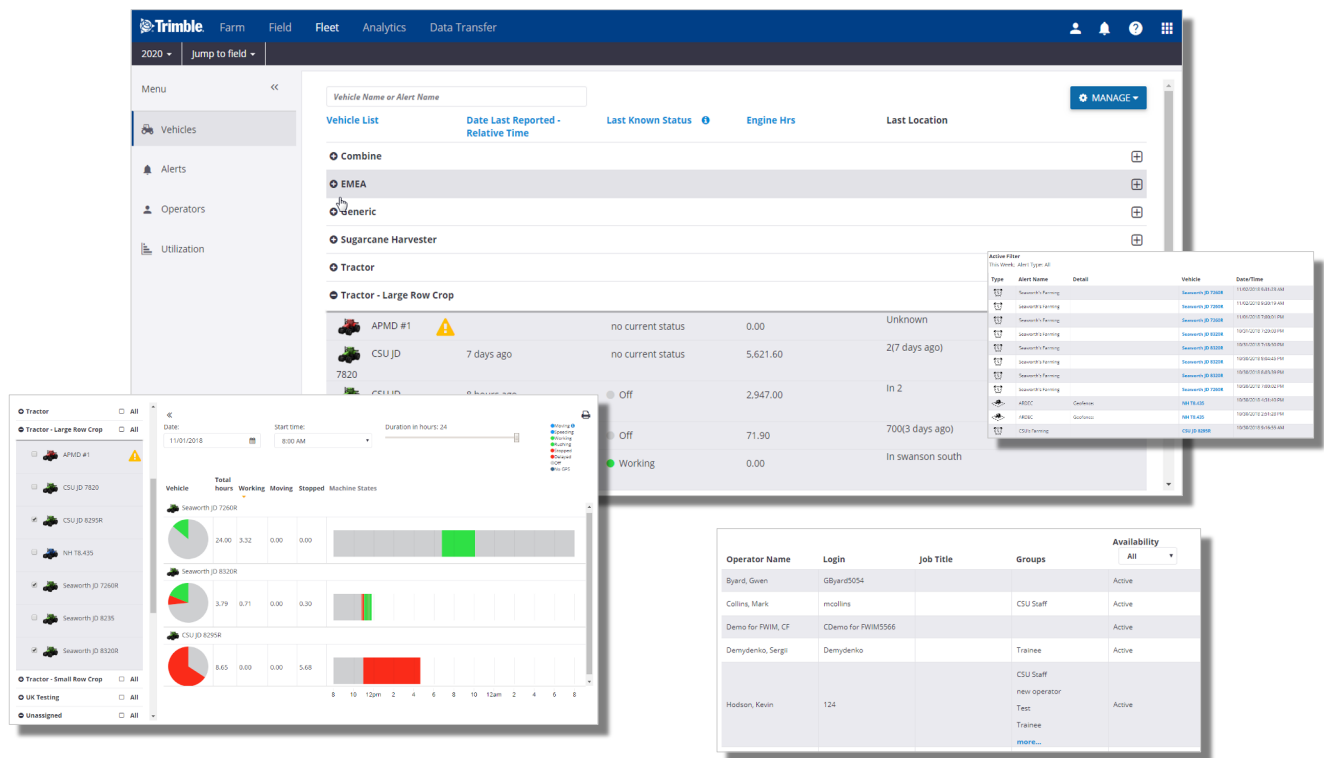
Objective: Learn the fleet monitoring features

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

Online | Fleet Management

FARMER CORE ONBOARDING



1. Click **Fleet** tab
 - a. View and Manage the vehicles in your fleet
 - b. Configure Alerts
 - 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.

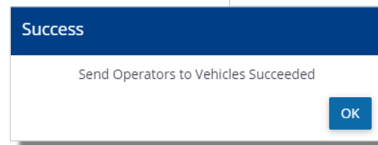
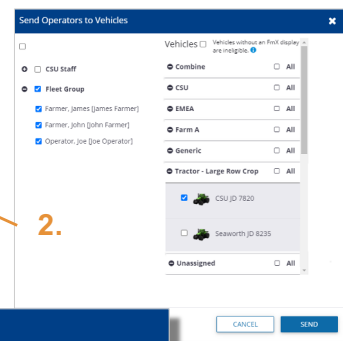
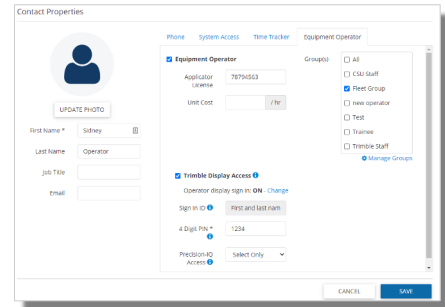
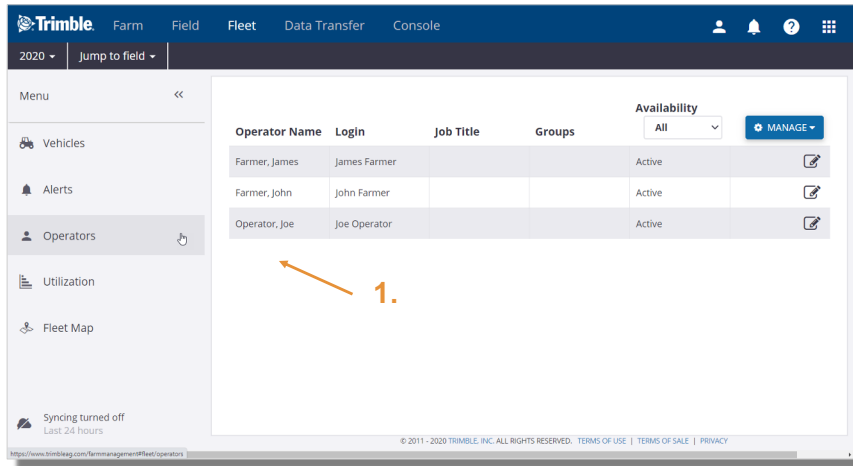
Fleet data transmission display setup is completed using the FarmStream plugin for FmX, FmX+ or the Productivity app with PIQ



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

Online | Operators

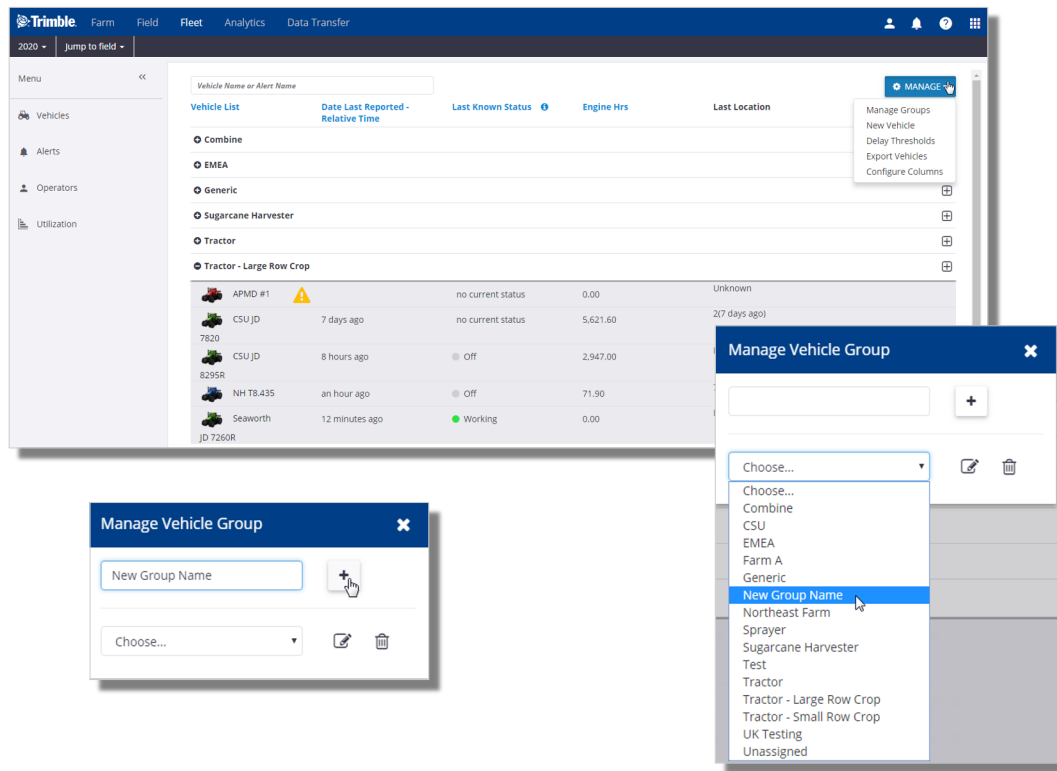
FARMER CORE ONBOARDING




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

Online | Vehicles and Groups

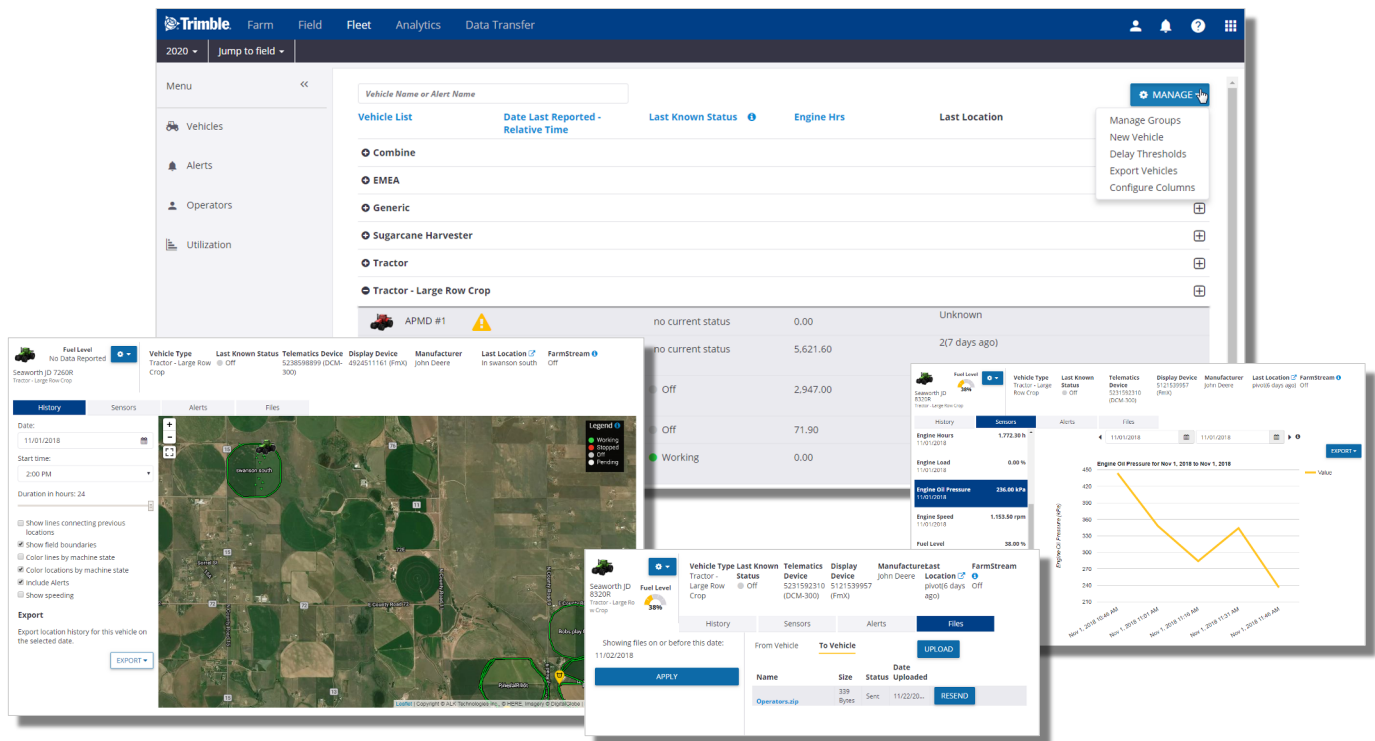
FARMER CORE ONBOARDING



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 CORE 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

Online | Alerts

FARMER CORE ONBOARDING

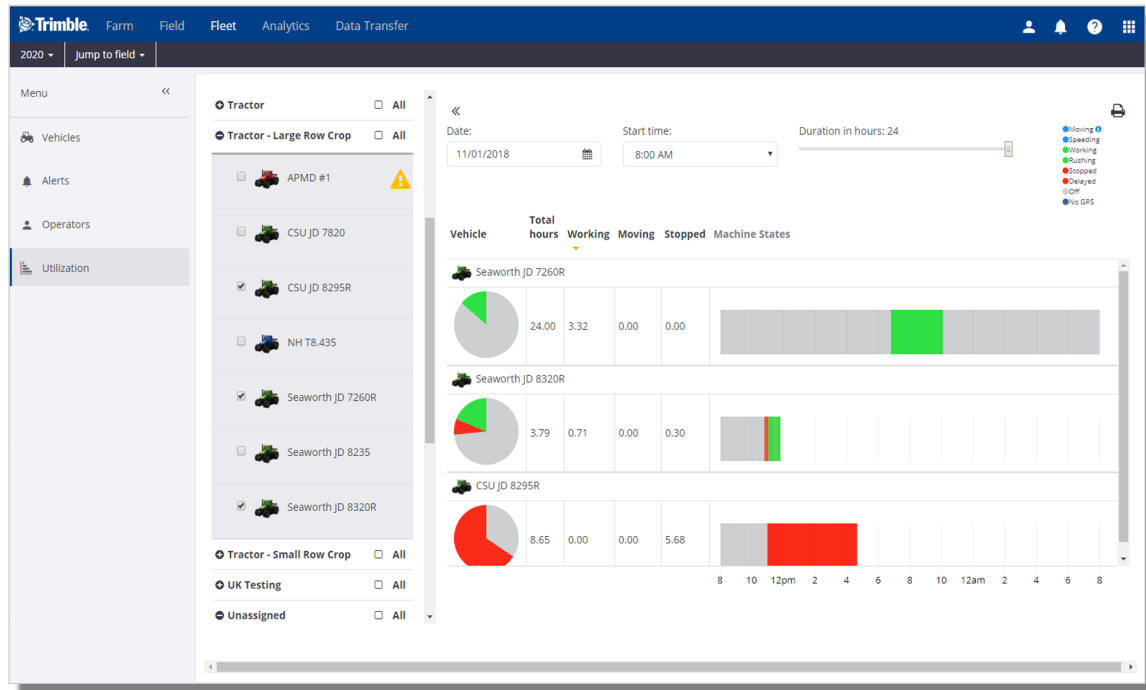
The screenshot displays the Trimble Farmer Core Onboarding Alerts interface. The main window shows a list of alerts with columns for Type, Name, Vehicle, and Date/Time. A sidebar on the left contains navigation links for Vehicles, Alerts, Operators, and Utilization. A 'MANAGE' dropdown menu is open, showing options for New Alert, Geofences, and Contacts. A 'Geofence' modal is also visible, showing a map and details for a specific geofence.

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 CORE 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 CORE 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 CORE 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 options like Home, Profile, Farms, Equipment, Inputs & Materials, Commodities, and Storage. The main content area is titled 'INPUTS & MATERIALS' and contains a sub-tab 'CHEMICALS'. A table lists chemicals with columns: Material, Qty. Purchased, Avg. Cost, Total Cost, Applied Area, Avg. Rate, Qty. Used, and Balance. A '+ ADD CHEMICAL' button is visible. A 'Chemical Search' modal is open, showing a list of chemicals from Bayer Cropscience, including MOCAP 10% GRANULAR, MOCAP 15% GRANULAR (R), MOCAP 15G LOCK N LOAD, and MOCAP EC (R). The search criteria include Name, Manufacturer, Category, Form, Active Ingredient, Purchased Units, Unit Cost, Applied Units, and Default Target Rate.

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 CORE ONBOARDING

The screenshot shows 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', and 'Inputs & Materials'. The main content area is titled 'INPUTS & MATERIALS' and includes 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' dialog is open, showing a search for 'FOL'. The 'Manufacturer' is set to 'PLANT HEALTH TECH.'. The search results list 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 says 'Request a new fertilizer to be added to the list.'.

The 'Fertilizer Properties' dialog is also shown, with fields for Name, Form, Purchased Units, Unit Cost, Applied Units, and Default Target Rate. The 'Nutrients' section lists Nitrogen, Potassium, Phosphorus, Zinc, Manganese, and Iron with their respective percentages.

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 Purchases

FARMER CORE 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: Material, Qty. Purchased, Avg. Cost, Total Cost, Applied Area, Avg. Rate, Qty. Used, and Balance. A 'Purchase Details' dialog box 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 and buttons for '+ CARRY OVER', 'Purchases & Use', and '+ NEW PURCHASE'.

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 | Adding Tank Mixes

FARMER CORE ONBOARDING

The screenshot displays the Trimble Farmer Core Onboarding interface. The main window is titled 'Tank Mix Properties' and is part of the 'INPUTS & MATERIALS' section. 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 (Cost: \$25.00 / gal, Rate: 0.10 gal / ac) and Atrazine 4L (Cost: \$40.00 / gal, Rate: 0.50 gal / ac). A button '+ ADD INGREDIENTS TO RECIPE' is visible. A 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.

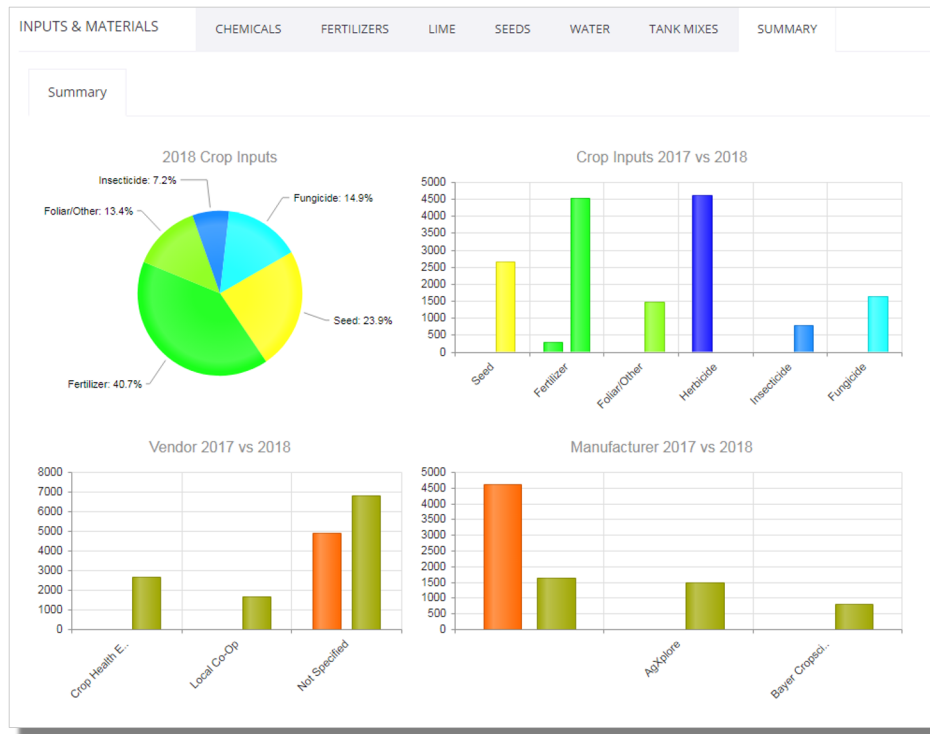
To be used to document custom Tank Mixes

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 | Inputs and Materials Summary

FARMER CORE ONBOARDING

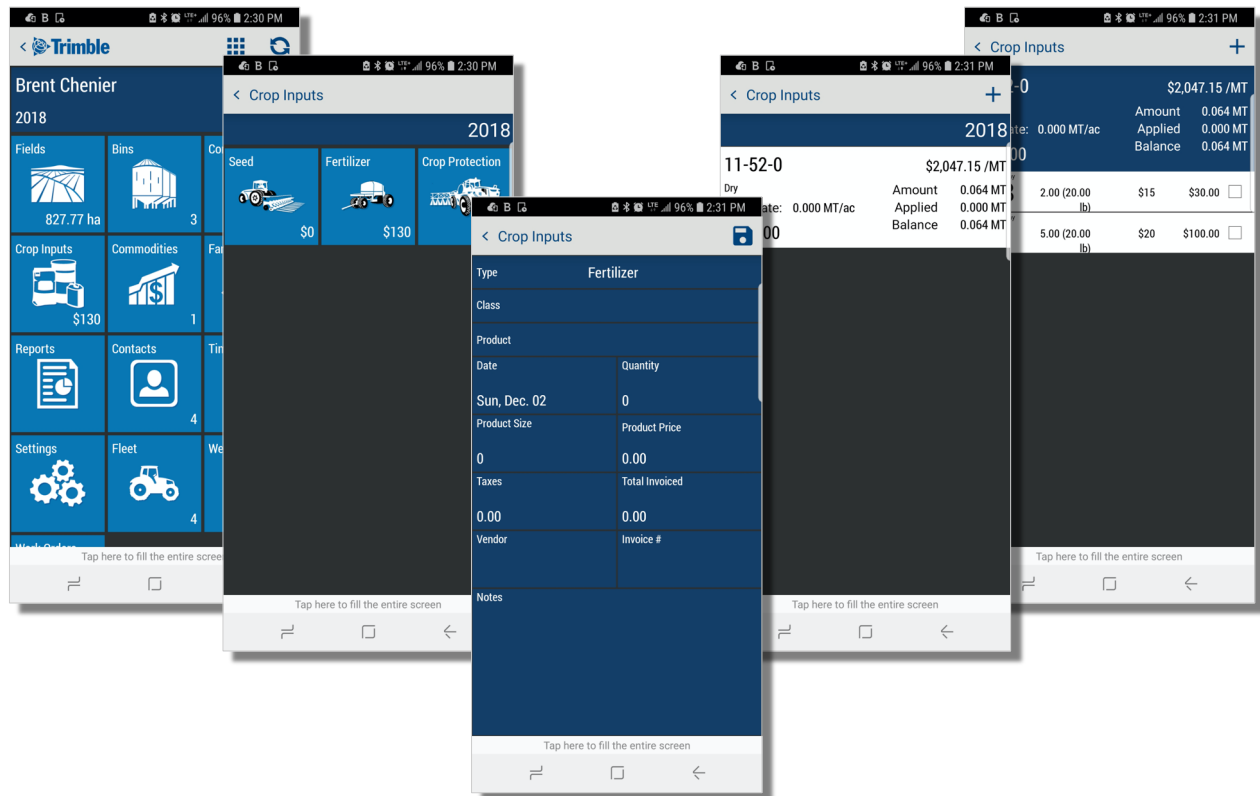


Click **Farm** tab > **Inputs & Materials** > **Summary**

- 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 CORE 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 CORE 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 CORE ONBOARDING

The top screenshot shows the Trimble Farm application interface. The 'CROPS' tab is selected, displaying a table with columns for Crop and Price. A 'Select Crops' modal window is open, showing a list of crops with checkboxes. The bottom screenshot shows the 'CROP SEASONS' tab, displaying a table with columns for Crop Season, Start Date, and End Date. A 'Create Crop Season' modal window is open, showing fields for Harvest Year, Crop, Subcrop, Activities Start Date, Activities End Date, and Default Yield Potential.

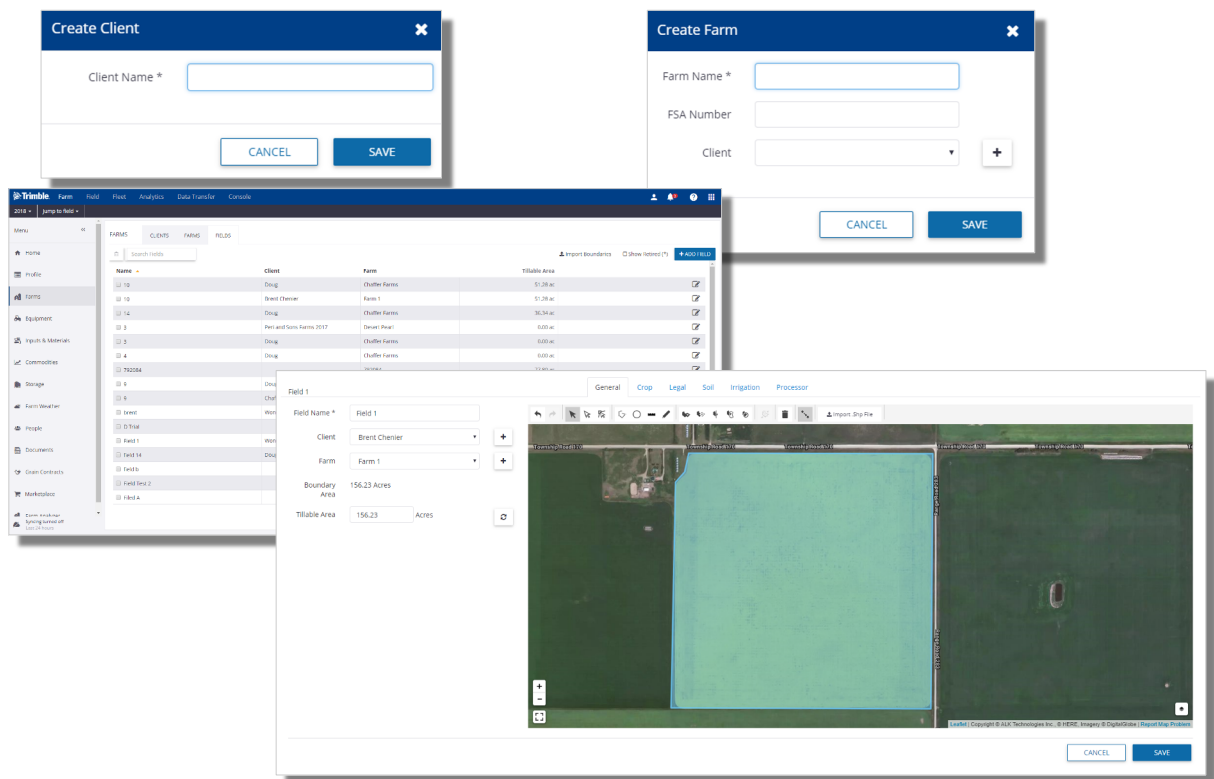
1. Click **Farm > Commodities > Crop**
 - Click **+ Add Crops**
 - **Check off** the appropriate crops
 - Click **Save**
2. Click **Crop Season** tab
 - Click **+ Add Crop Season**
 - Select **Harvest Year**
 - Select **Crop**
 - Select **Activity Start** and **End date** (if different from default)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



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

Online | Adding Client, Farm, Field

FARMER CORE 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 CORE ONBOARDING

The screenshot displays the Trimble Farm Field Profiler interface. The main window shows a table of fields with columns: Field ID, Field Name, Legal Desc., Acres, R., Crop, and Variety. A 'MANAGE' button is visible in the top right. An 'Open' file dialog is overlaid, showing a list of files in the 'Boundary' folder, including .shp, .shx, and .dbf files. A 'Upload Field Boundary' dialog is also present, prompting the user to drag files or select files to upload. Below this, an 'Uploaded Shapes' table shows details for the uploaded files, including File Name, Size, Projection, Field, Farm Column, and Field Column.

Field ID	Field Name	Legal Desc.	Acres	R.	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	
Farm Total			77.8	N		

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

File Name	Size	Projection	Field	Farm Column	Field Column
CF_Field_1	0.98 KB	.shp, .shx, .dbf	WGS 84	New Field	FarmName
planting	497.22 KB	.shx, .shp, .dbf	WGS 84	New Field	None
Ochsner_E	9.66 KB	.dbf, .shp, .shx	WGS 84	New Field	FarmName

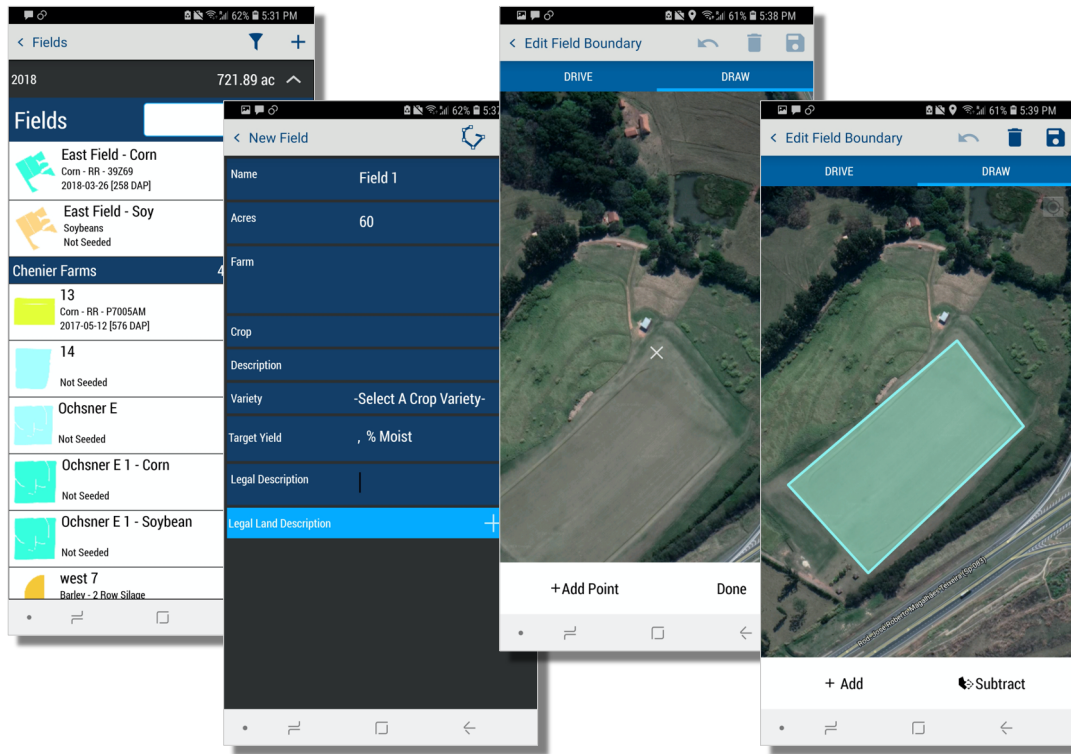
1. Click **Field** tab > **Field Profiler** > **Manage**
 2. Select **Upload Boundary Files**
 - o Select **.shp, .shx** and **.dbf** for all desired boundaries
 - click **Open**
 - o Leave **Field** column at **default** (New Field)
 - o Select **Farm Name** and **Field Name** attribute columns from 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 CORE 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 | Multiple Crops per Field

FARMER CORE ONBOARDING

The screenshot displays the Trimble Farmer Core Onboarding interface. The top navigation bar includes 'Company', 'Farm', 'Field', 'Fleet', 'Analytics', 'Workbench', 'Data Transfer', and 'Console'. The main content area is titled '2019 Field Manager' and shows a 'Field Details' section for 'Ochsner E - Chenier Farms' with a 'Field ID' of 1014809. A 'New Crop' modal is open, showing the 'Parent Field: #1014809 - Ochsner E (151.10 ac)'. The modal contains two rows for new crops: 'Ochsner E - Soybeans' and 'Ochsner E - Corn', both with 'New Acres' of 151.1 and 'Crop Sequence' of 1 and 2 respectively. A 'SAVE FIELDS' button is at the bottom of the modal.

Chenier Farms

	Field ID	Field Name
<input type="checkbox"/>	867573	13
<input type="checkbox"/>	867526	Ochsner E
<input type="checkbox"/>	1014809	Ochsner E 1
<input type="checkbox"/>	1014809	Ochsner E 1 - Corn
<input type="checkbox"/>	1014809	Ochsner E 1 - Soybean
<input type="checkbox"/>	1077211	west 7

Original Field (parent field)

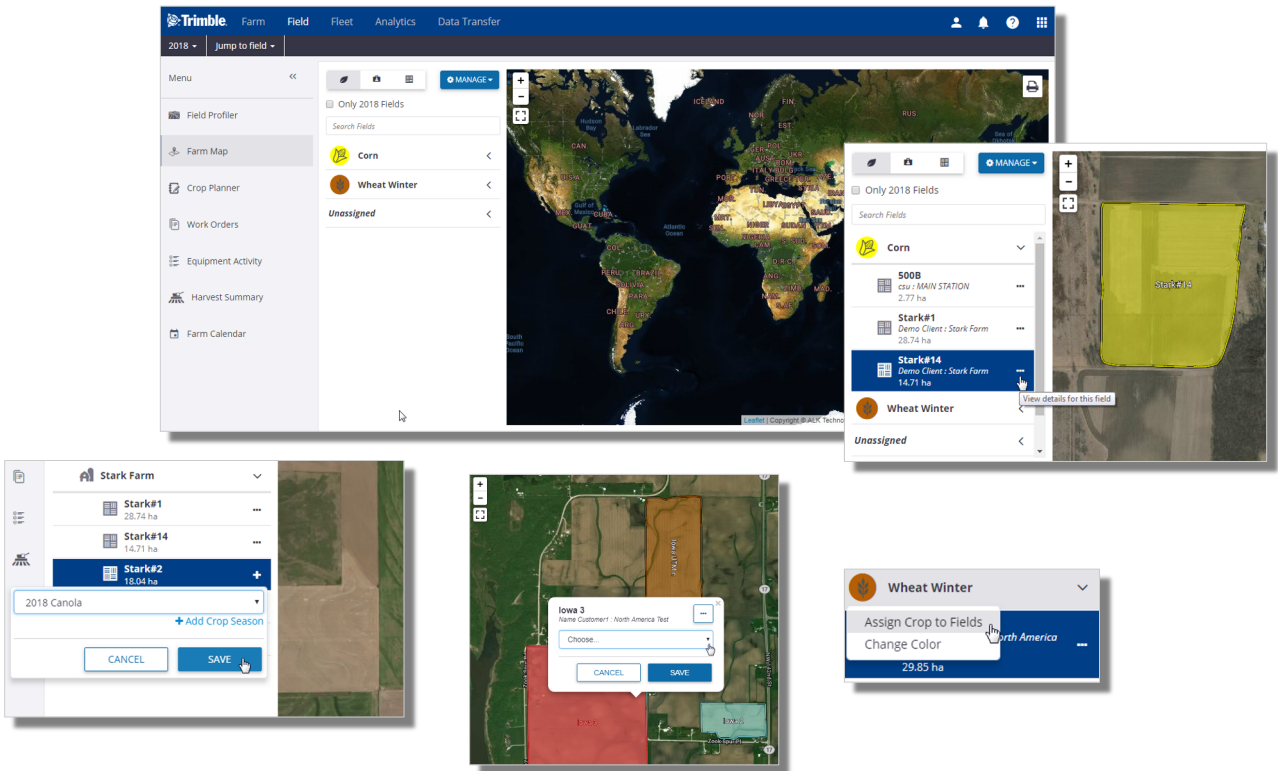
New Crop Fields

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

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

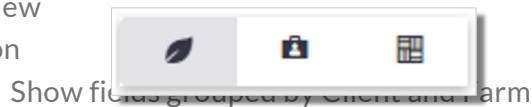
Online | Farm Map

FARMER CORE 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 CORE ONBOARDING

The screenshot shows the Trimble Crop Rotation Plan interface. The top navigation bar includes 'Farm', 'Field', 'Fleet', 'Analytics', and 'Data Transfer'. The 'Field' tab is selected, and the 'Crop Rotation Plan' link is highlighted. The main table displays crop rotation data for three fields: 'east place JP Farms', 'Home Place JP Farms', and '700 MAIN STATION'. The table columns are 'Field', 'Acres', '2017', '2018', '2019', '2020 (Current)', and '2021'. The '2020 (Current)' column is highlighted. A 'Multi Select' checkbox is checked, and the 'MANAGE' button is visible. A zoomed-in view of the table shows the '2020 (Current)' column for the '700 MAIN STATION' field, with the 'Beans' crop selected. The 'Add New Crop' dialog box is open, showing fields for 'Crop', 'Subcrop', 'Variety', 'Area', 'Yield Goal', 'Target Price', 'Crop Sequence', 'Perennial Crop', and 'Number of planned years'. The 'Add/Edit Selected Record' button is highlighted.

Field	Acres	2017	2018	2019	2020 (Current)	2021
east place JP Farms	192.71			Soybeans 192.71 ac	No Crop 192.71 ac	
Home Place JP Farms	148.39			Barley 148.39 ac	No Crop 148.39 ac	
700 MAIN STATION	18.53		Beans 5.00 lb/ac - 20 lb 18.53 ac	Canola 18.53 ac	No Crop 18.53 ac	

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 CORE ONBOARDING

The screenshot displays 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'. To the right, 'Years Backward' and 'Years Forward' are both set to 3. The main table lists fields with columns for years 2016 through 2022. Callout 6 points to a '+' icon in the 2019 column for 'Field 14 - Grid Farm Demo'. Callout 7 points to the 'Crop' dropdown in the 'Add New Crop' modal, which is set to 'Corn'. Callout 8 points to the 'Edit Crop' modal, where the 'Replace old crop details with new information' option is selected. Callout 9 points to the '2019 (Current)' crop details for 'Field 14 - Grid Farm Demo', showing 'Soybeans' at 2,500.00 kg/ha. Callout 10 points to the 'Add new information as separate crop split' option in the 'Edit Crop' modal. Callout 11 points to the '2019 (Current)' crop details for 'Field 14 - Grid Farm Demo', showing 'Soybeans' at 2,500.00 kg/ha and 'Corn Conventional' at 14.71 ha.

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.

0.3

AutoSync, Work Orders, and Prescriptions

0.3.a

AutoSync™ Feature

AutoSync| Summary

FARMER CORE 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 software subscription. Display Connections are required for each connected Trimble display.

Data Type	Create	Edit	Delete
Guidance Lines	✓	✓	✓
Coverage Maps ¹	✓		
Client/Farm/Field Names	✓	✓	✓
Landmarks and Boundaries	✓	✓	✓
Operators	✓	✓	✓
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 CORE 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

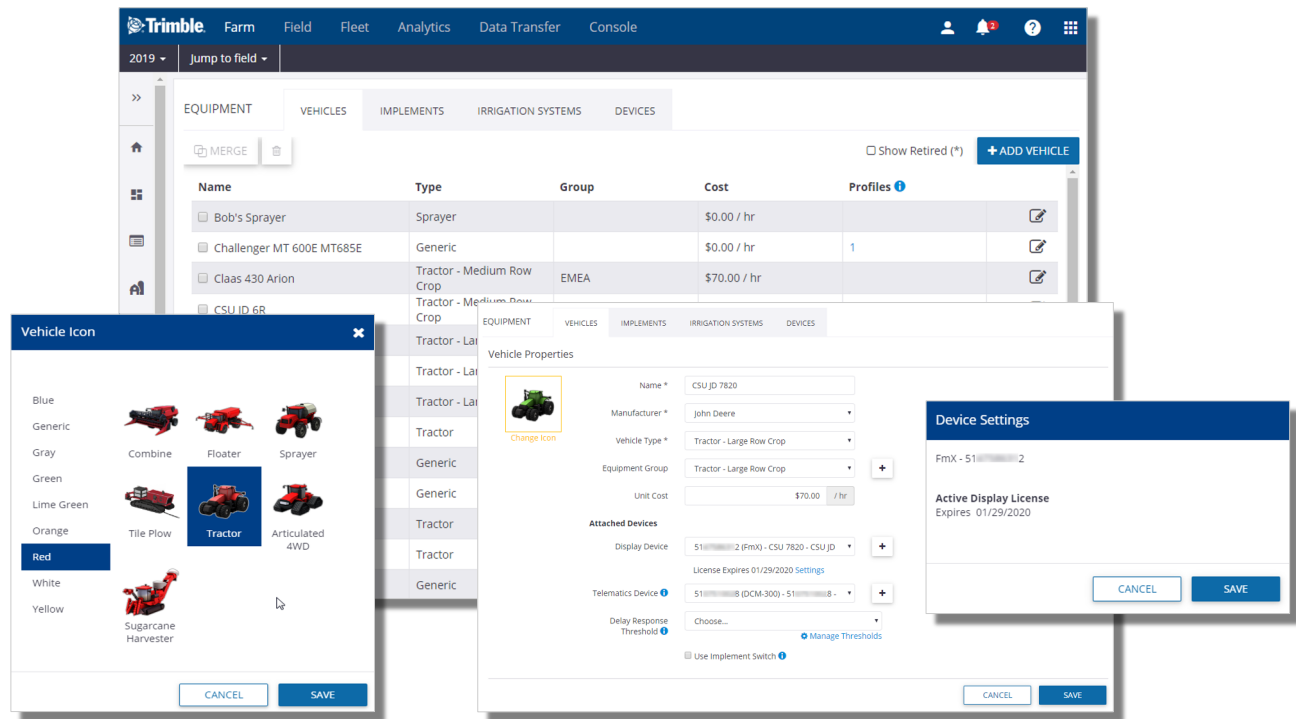
1. Setup online account and vehicles (*see Core guide Session 2.b*)
2. Clean up data, backup and update firmware on the displays
3. Connect display to internet (modem or Wi-Fi)
4. Turn on AutoSync in Precision-IQ settings
5. Use the AutoSync Wizard to walk through the initial sync
 - a. The display run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



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

AutoSync | Step 1: Setup Vehicles in Online

FARMER CORE ONBOARDING

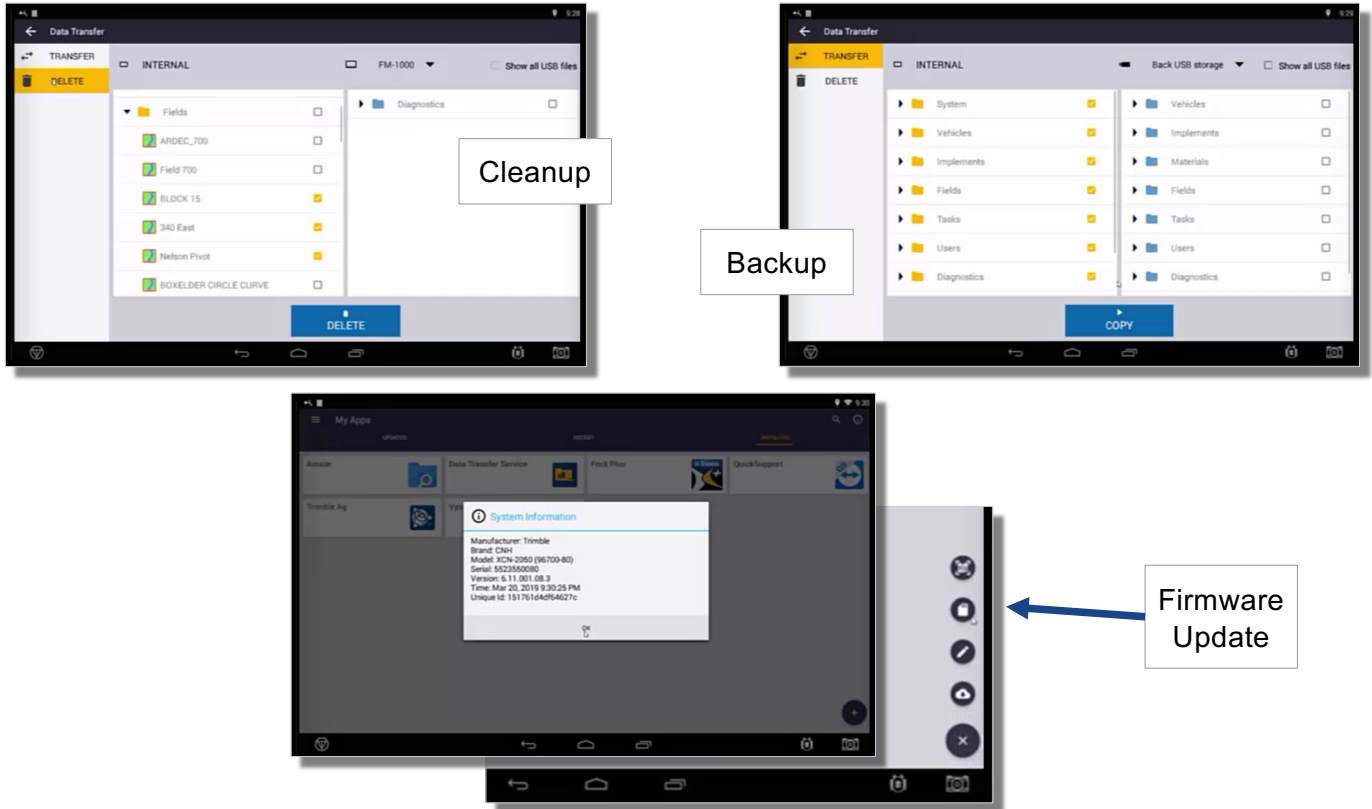


1. From the **Farm** Menu, click **Equipment**
2. view existing vehicles on the **Vehicles** tab
3. click **Add Vehicle** to add a new vehicle
 - a. For Vehicle Properties enter Name, Manufacturer, Vehicle Type (required properties)
 - i. If using Groups, assign the Vehicle Group
 - ii. enter the Unit 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 CORE ONBOARDING

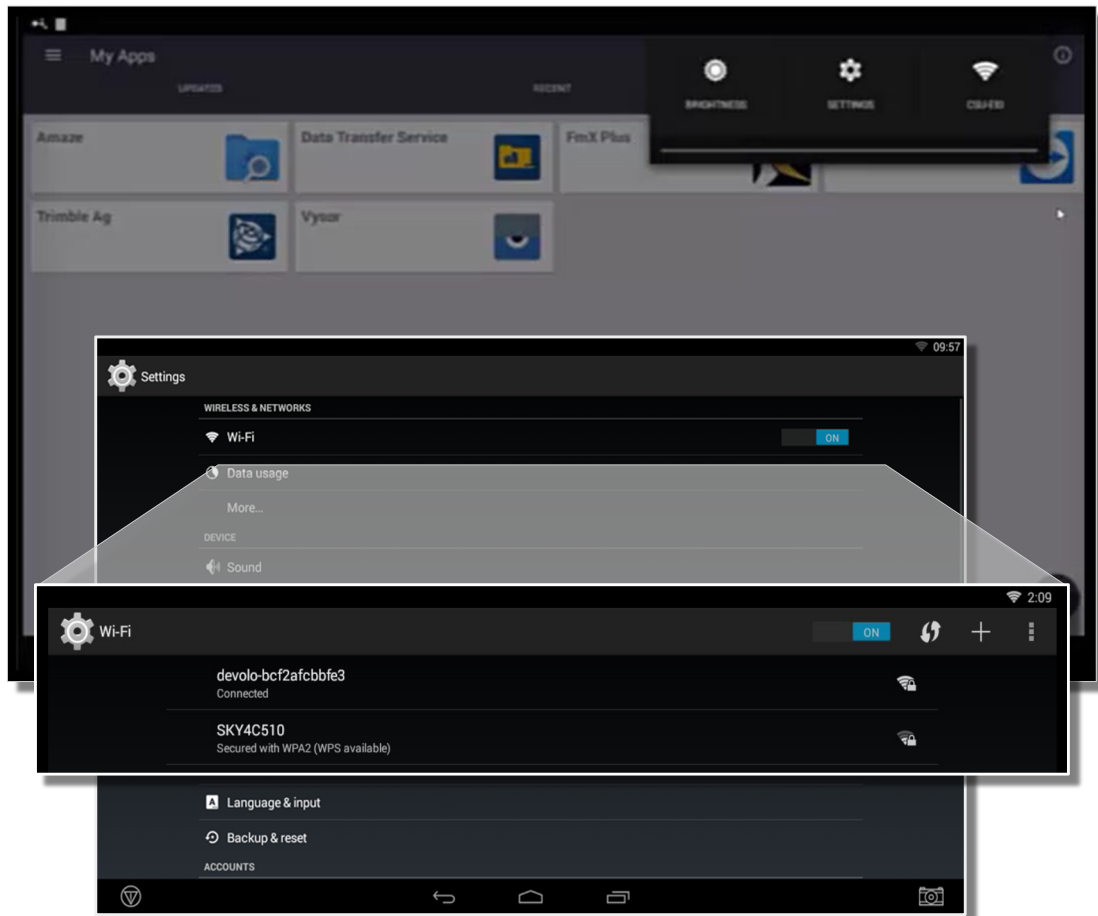


1. Open **PIQ** > goto **Field Tab** > Review details
2. To **Cleanup** data
 - a. Go to **Data Transfer** > select a category > **checkoff** unwanted data > click **Delete**
3. To **Backup**
 - a. Select **Directories** you wish to Backup
 - b. Select your **USB** drive on the right hand side
 - c. 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

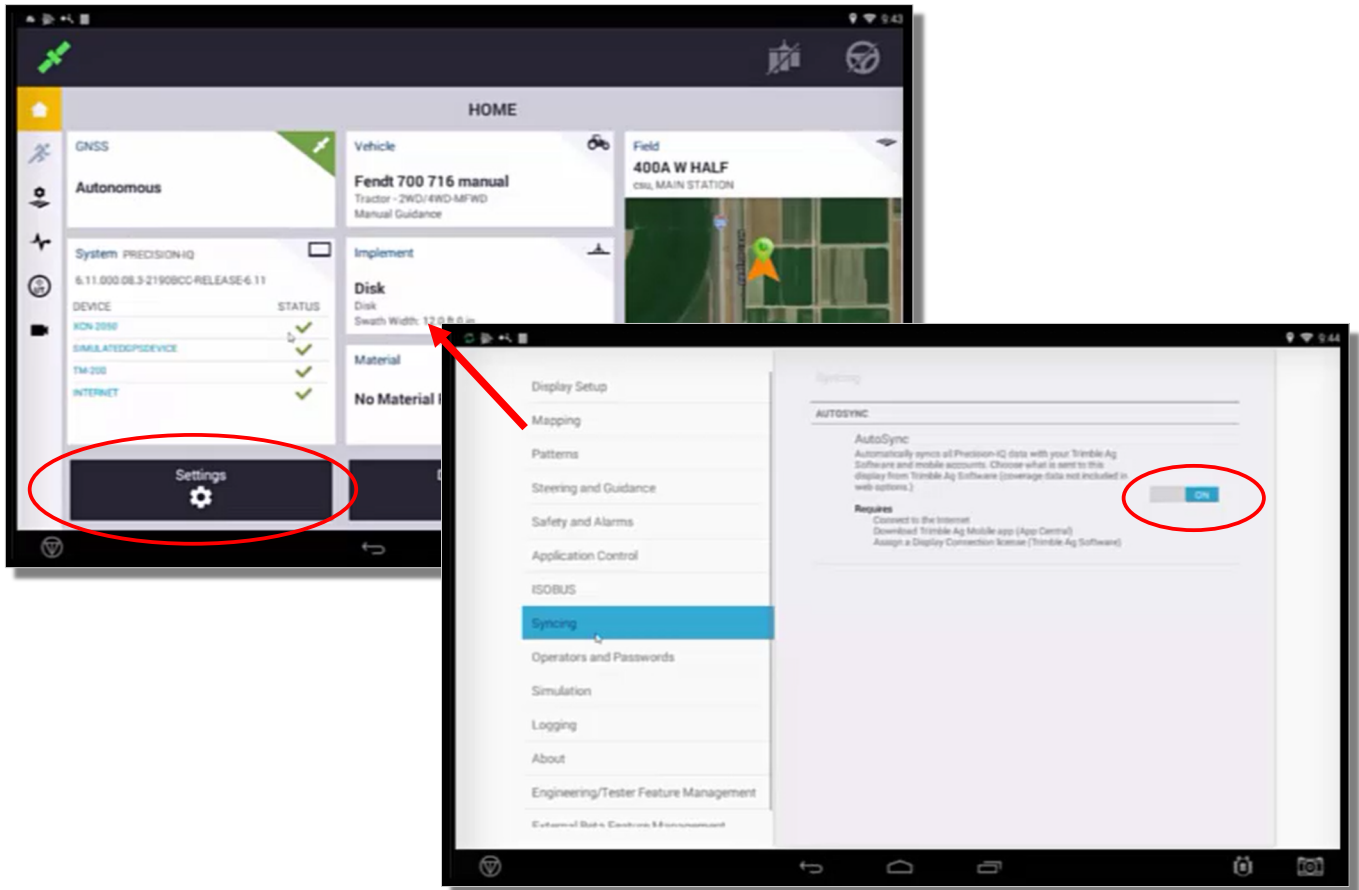
FARMER CORE ONBOARDING



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

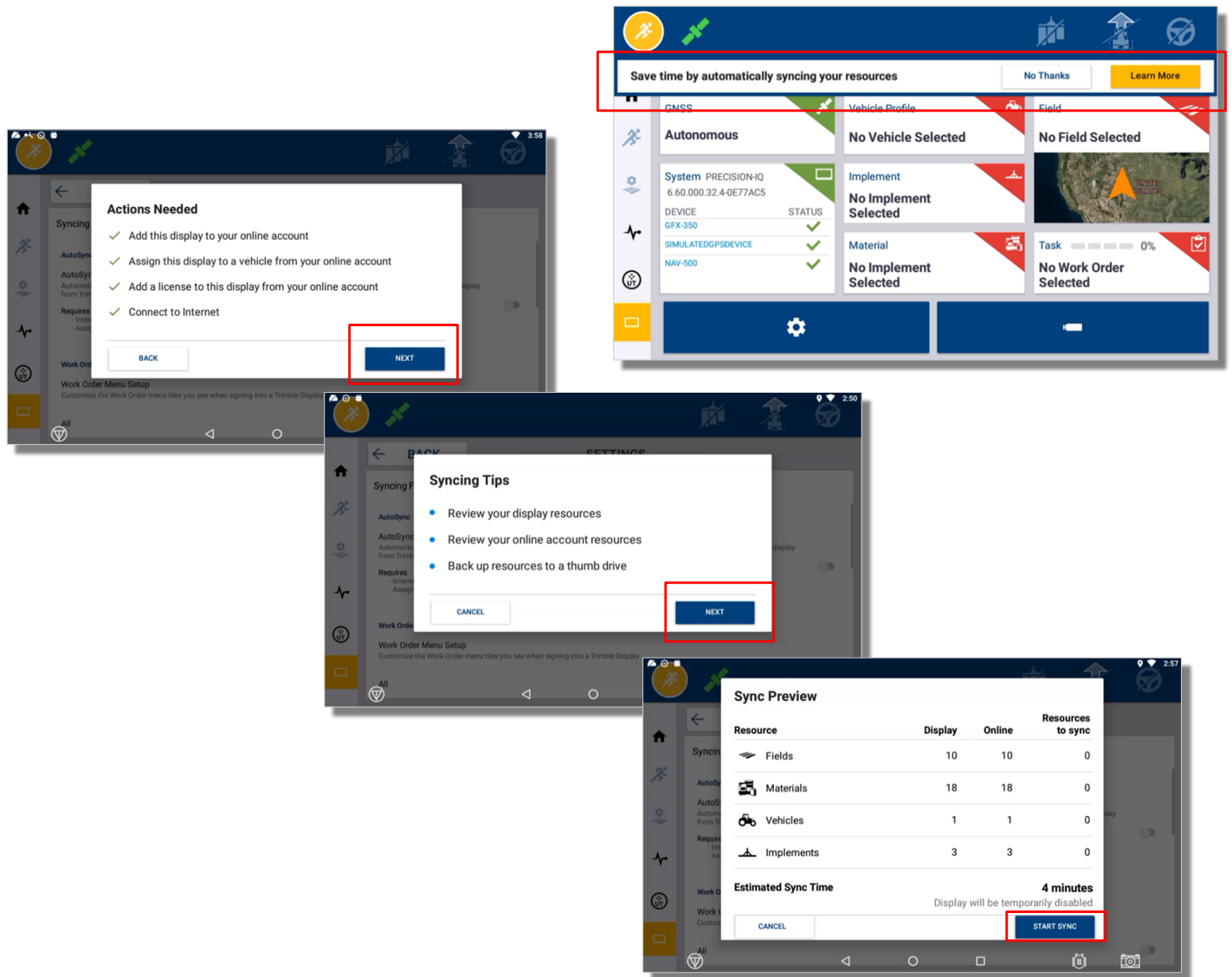
FARMER CORE ONBOARDING



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

AutoSync | Step 5: AutoSync Wizard

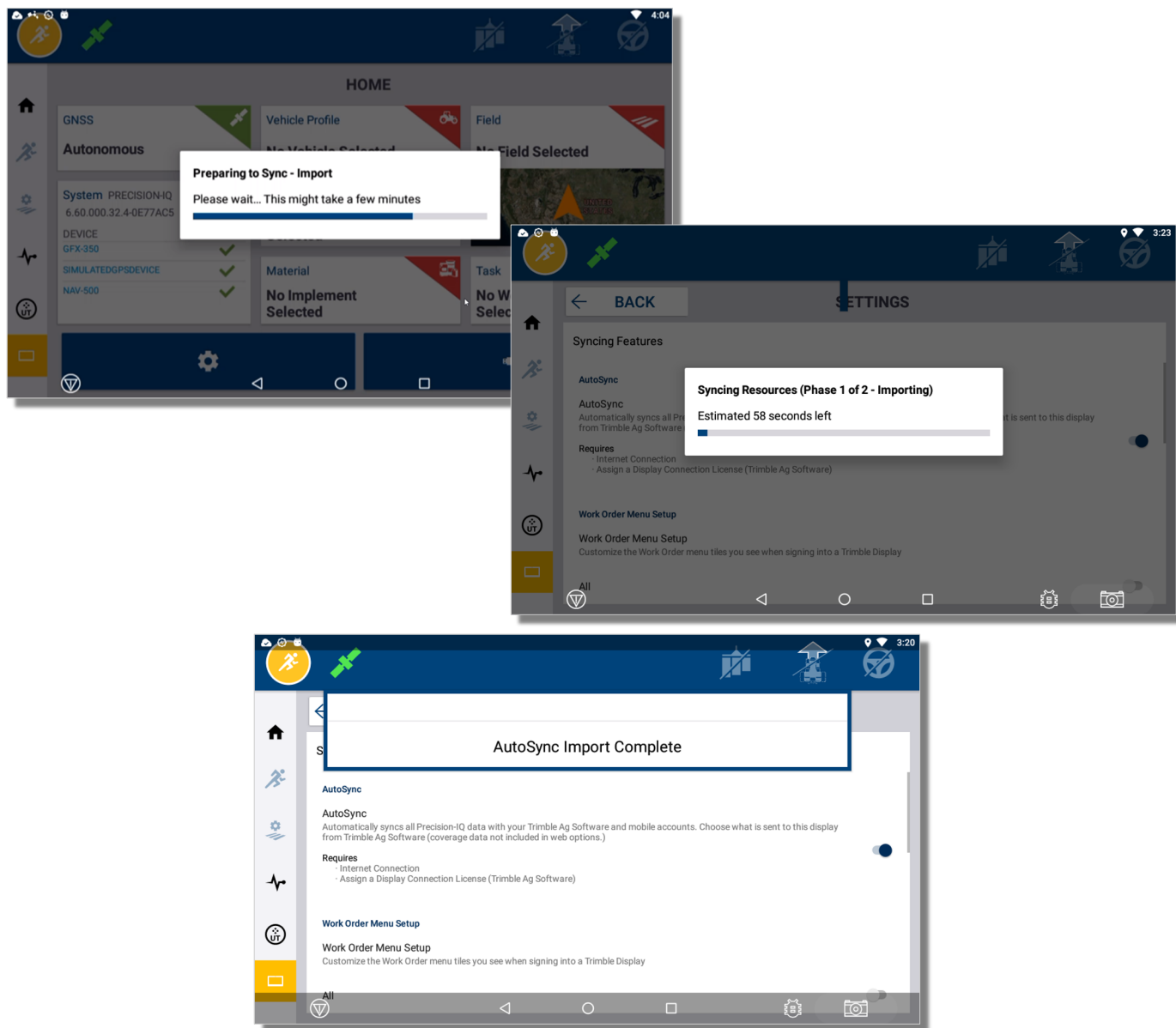
FARMER CORE ONBOARDING



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 CORE ONBOARDING

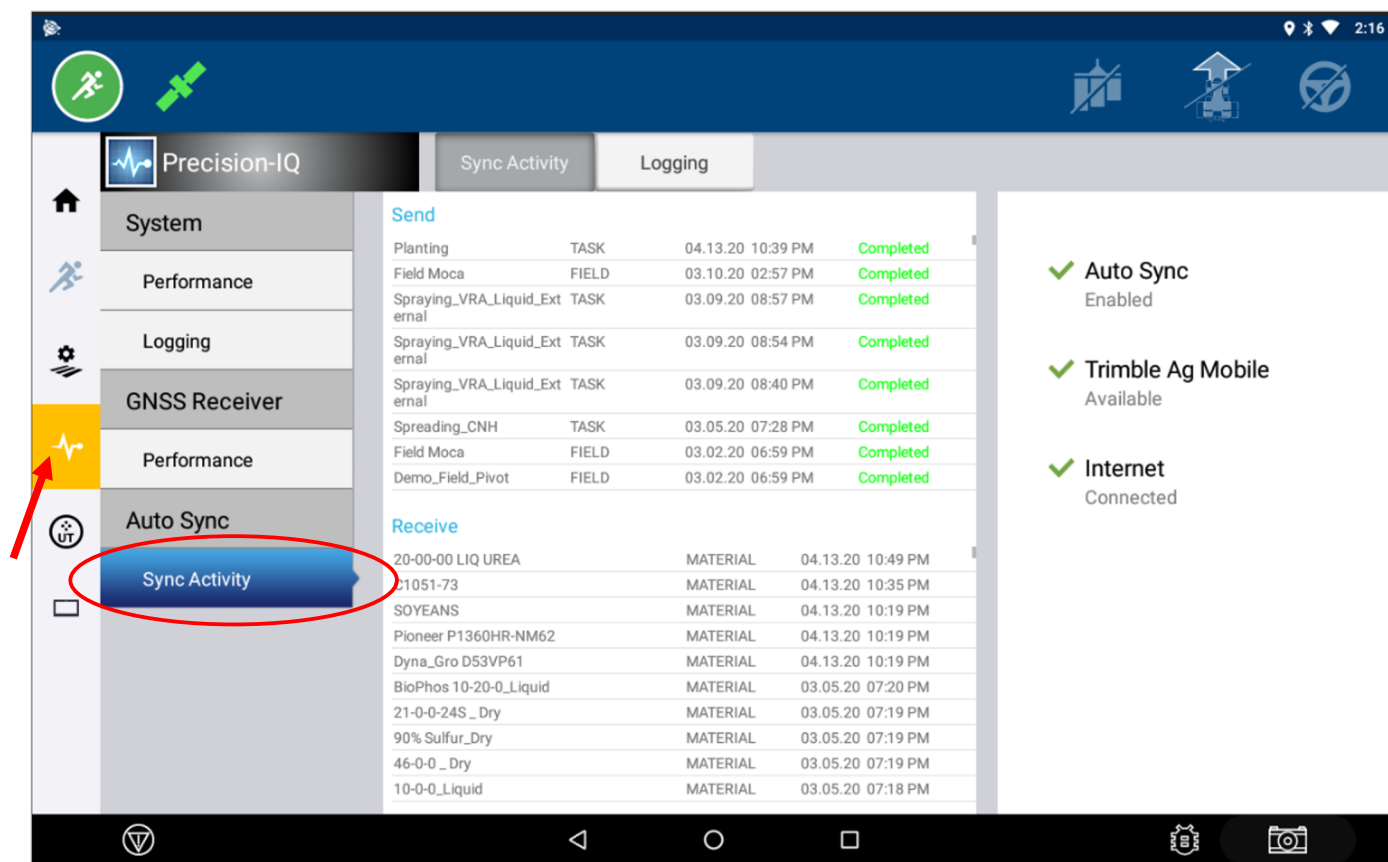


Monitoring the Sync Process

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.

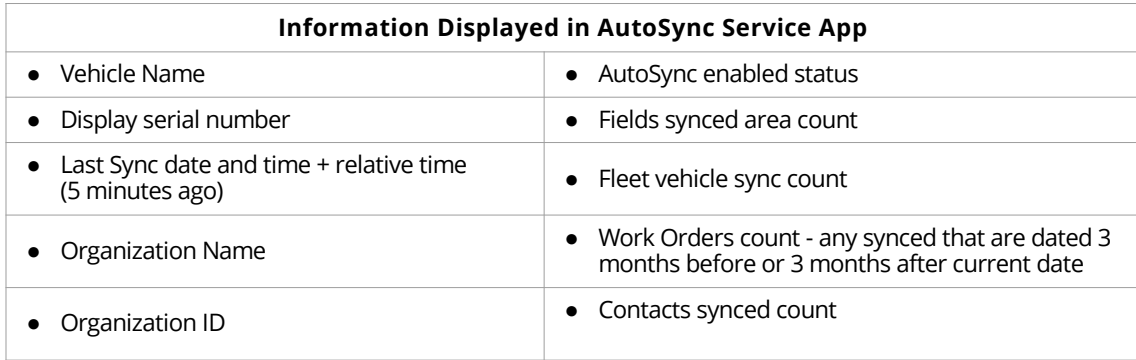
AutoSync | Monitor Synchronization in PIQ

FARMER CORE ONBOARDING



1. To monitor or view Sync Activity click the Diagnostics option in PIQ
2. Select the Sync Activity option
3. View Send and Receive activity on the Sync Activity tab

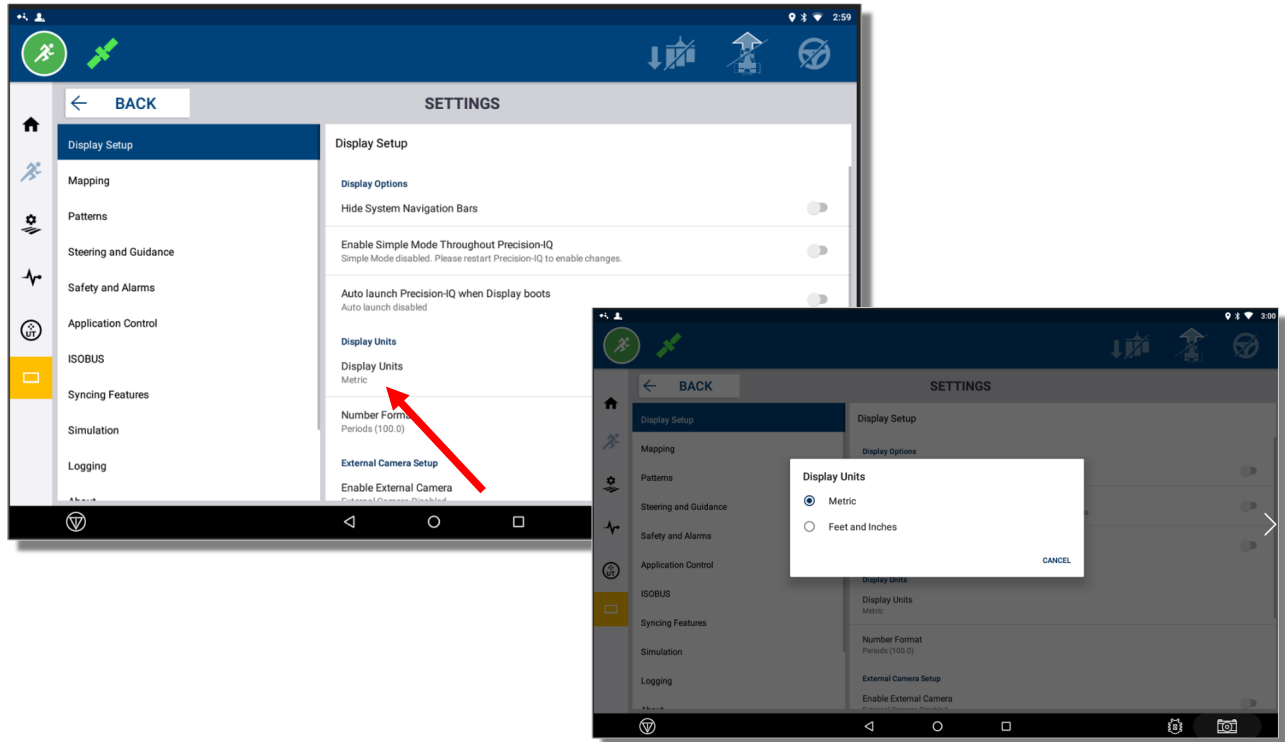
FARMER CORE ONBOARDING



1. Open the AutoSync Service App
2. Click on the Settings button to view or make changes to the Sync Settings
3. To manually initiate a Sync, click the Sync Now button

Set up | Check the Unit System

FARMER CORE 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 CORE ONBOARDING

The image displays three overlapping screenshots of the Trimble Farmer Core Onboarding interface, specifically the 'Materials Properties' section. The top screenshot shows the 'Fertilizer Properties' form with the 'Controller' tab selected, highlighting the 'Alternate Target Rate', 'Rate Increment', 'Minimum Rate', 'Maximum Rate', and 'Density' fields. The middle screenshot shows the 'Seed Properties' form with the 'Controller' tab selected, highlighting the 'Alternate Target Rate', 'Rate Increment', 'Minimum Rate', 'Maximum Rate', and 'Density' fields. The bottom screenshot shows the 'Tank Mix Properties' form with the 'Controller' tab selected, highlighting the 'Alternate Target Rate', 'Rate Increment', 'Minimum Rate', 'Maximum Rate', and 'Density' fields.

Fertilizer Properties

Change Type ▾

Use Fertilizer Search to find additional information about the material.

Q FERTILIZER SEARCH

Name * 11-52-00 (MAP)

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.

Q SEED SEARCH

Name * AAC Synergy

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

Controller

Alternate Target Rate K5 / ac

Rate Increment K5 / ac

Minimum Rate K5 / ac

Maximum Rate K5 / ac

Density lbs / ft³

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

Controller

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 CORE ONBOARDING

The screenshot displays the Trimble AutoSync Device Setup Online interface. The top navigation bar includes 'Farm', 'Field', 'Fleet', 'Data Transfer', and 'Console'. The 'EQUIPMENT' tab is selected, showing a table of devices. A 'Device Settings' modal is open, displaying settings for a specific device.

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

Device Settings

GFX-750 - 5621234567

Active Display License
Expires 02/20/2021

☒ Automatically sync field data between Trimble Ag web, mobile, and this display (Precision-IQ). [Learn More.](#)

Choose what's automatically synced between your Precision-IQ displays and Online Software.

- ☒ Fields
- ☒ Vehicles
- ☒ Implements
- ☒ Materials
- ☒ Operators

CANCEL **SAVE**

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 CORE ONBOARDING

The screenshot shows the Trimble Farmer Core Onboarding interface. The top navigation bar includes 'Farm', 'Field', 'Fleet', 'Analytics', and 'Data Transfer'. The left sidebar has a 'Menu' with options: 'Vehicles', 'Alerts', 'Operators', 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' (Login: GByard5054), 'Collins, Mark' (Login: mcollins), 'Demo for FWIM, CF' (Login: CDemo for FWIM5566), and 'Demydenko, Sergii' (Login: Demydenko). A modal window is open over the table, titled 'Equipment Operator'. It has tabs for 'Phone', 'System Access', and 'Equipment Operator'. The 'Equipment Operator' tab is active, showing a form with the following fields: 'Equipment Operator' (checked), 'Applicator License' (text input), 'Unit Cost' (text input with '/ hr' suffix), 'Trimble Display Access' (checked), 'Operator display sign in: ON - Change' (text), 'Sign In ID' (text input), '4 Digit PIN *' (text input), and 'Precision-IQ Access' (dropdown menu set to 'Full Access'). A message box on the right of the modal states: 'There are no groups defined for your organization.' with a 'Manage Groups' link.

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

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.

0.3.b

Work Orders™ Feature

Work Orders| Requirements and Setup Steps

FARMER CORE 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)
 - 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 CORE ONBOARDING

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

Various Options

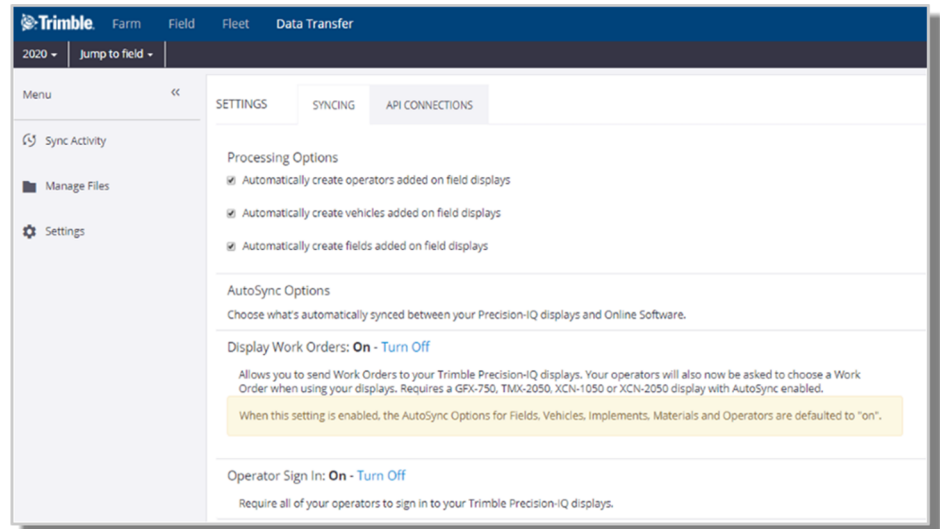
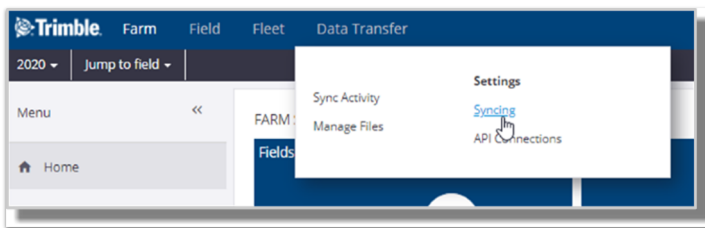
- Create a Work Order Online
 - Flat rate
 - VRA Rx
- Create a Work Order in the Display

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 CORE 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 CORE ONBOARDING

The screenshot displays the Trimble Farmer Core 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 background shows a table of work orders with columns for Work Order #, Name, Field, Status, Planned Date, Operation, and Area.

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 CORE ONBOARDING

The screenshot displays the Trimble Farmer Core Onboarding interface. The top navigation bar includes 'Farm', 'Field', 'Fleet', 'Data Transfer', and 'Console'. The left sidebar shows a menu with 'Field Profiler', 'Farm Map', 'Crop Planner (Beta)', 'Crop Planner', 'Work Orders' (highlighted with a red box), and 'Equipment'. The main content area shows a table of work orders with columns: Work Order #, Name, Field, Status, Planned Date, Operation, and Area. The table lists five work orders, with the third one, 'Seeding_Flat', marked as 'On Hold'. A modal window titled 'Choose Field(s)' 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 modal has 'CANCEL' and 'OK' buttons. A second screenshot shows the 'Work Orders' tab with a dropdown menu open for the 'Operation' column, listing various operations like 'Harvesting', 'Planting', 'Seeding', 'Slurry', 'Spraying', 'Spreading', 'Subsoiling/Drainage', 'Surface Leveling/Drainage', 'Swelling', and 'Tillage'. The 'Display Work Orders' checkbox 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

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 AutoSync. 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

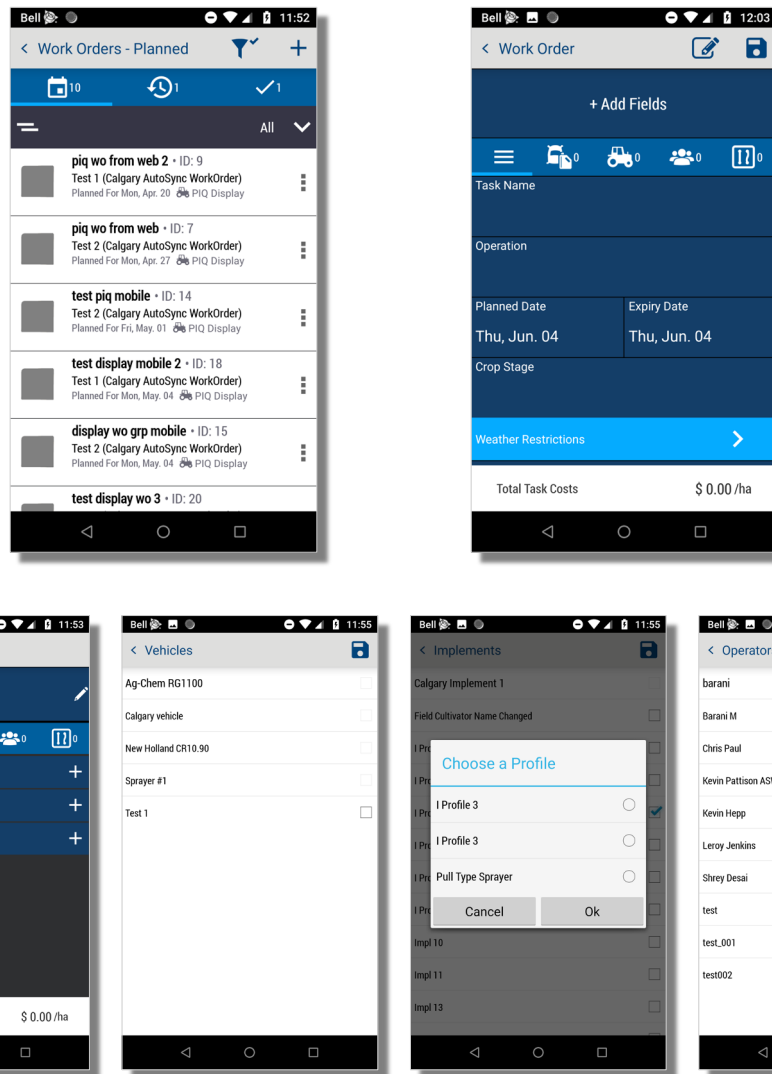
FARMER CORE ONBOARDING

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), '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. A central map shows a field with a white boundary. A 'Prescription Settings' dialog is open, showing 'Field Name' (TrainingClient_TrainingFarm_Demo_Field_Pivot_Sugar...), 'Rate Column' (BioPhos 10-), and 'Rate Column Units' (litres). A table lists zones and their target rates: Zone 1 (1.02 litres/ha), Zone 2 (2.14 litres/ha), and Zone 3 (3.21 litres/ha). A red arrow points to the 'Variable Rate' option in the 'Rate Type' section. The 'Prescription Settings' dialog also shows a map of the field with colored zones and a 'Total Quantity' of 796.53 litres.

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 CORE ONBOARDING

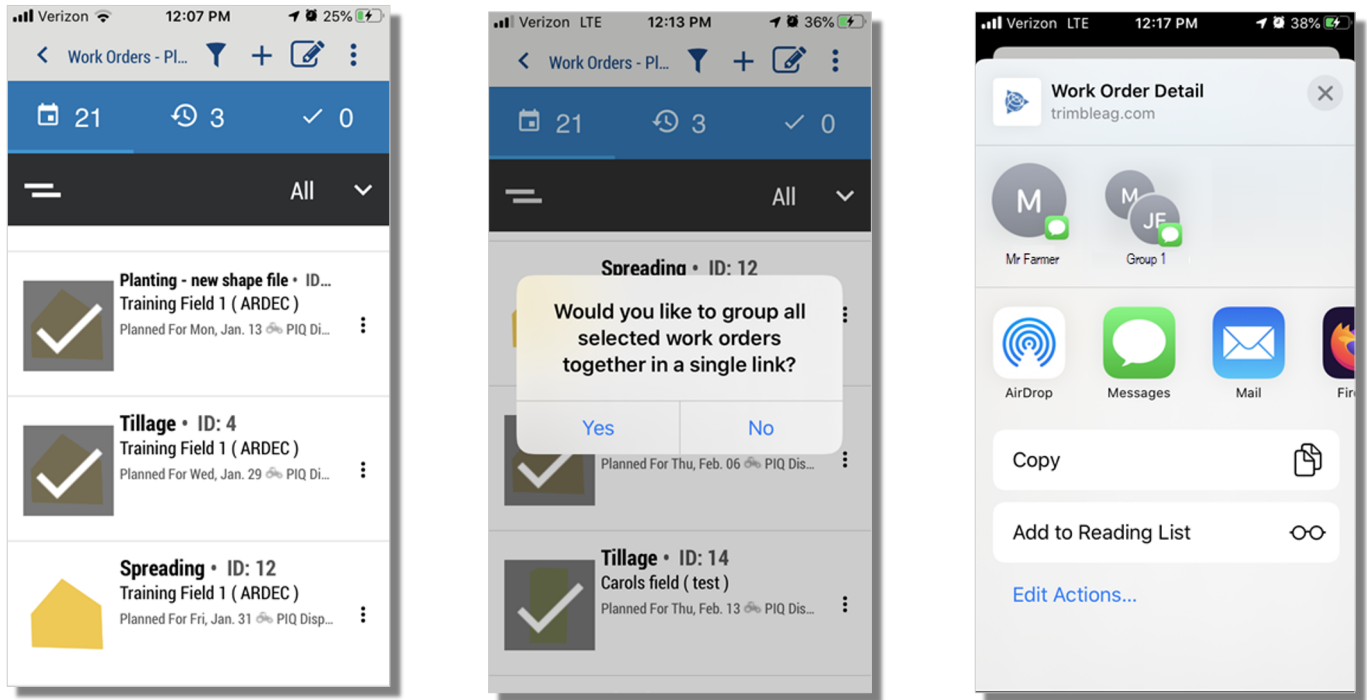


Create Display Work Orders from Trimble Ag Mobile


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

Mobile | Email Work Orders

FARMER CORE ONBOARDING



Share Work Orders via email

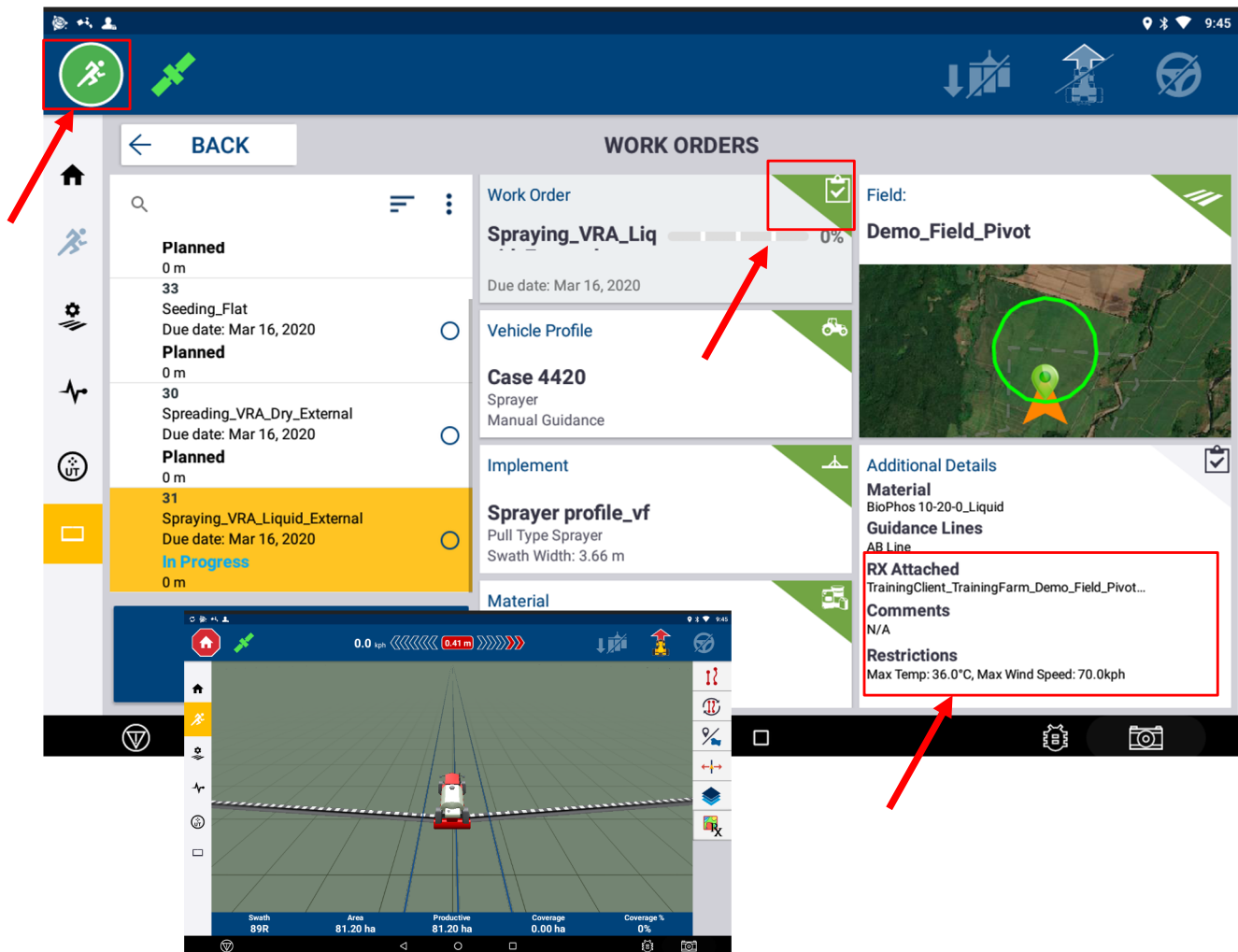
1. If you created Work Orders in the mobile app, make sure you Sync to online before proceeding, this step is required for the report generation..
2. Click in the Work Orders tile and select the Work Orders you want to share via email. Press on the boundary icon to add a checkmark to each work orders to include. The list of Work Orders will be a combine list of all Work Orders created, either from online or mobile app.
3. Click on the “Report” button  on the top right menu.
4. In the pop-up window indicate whether you would like the work orders grouped into a single link (Yes) or if you want each work order to have a separate link (No).
5. Select the method for sharing the Work Order Detail report from your device options.
6. The Work Order Detail report is now shared! The recipients will receive an email with a link to open the Work Order Detail report.



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

Display| Visualize and Execute Work Orders

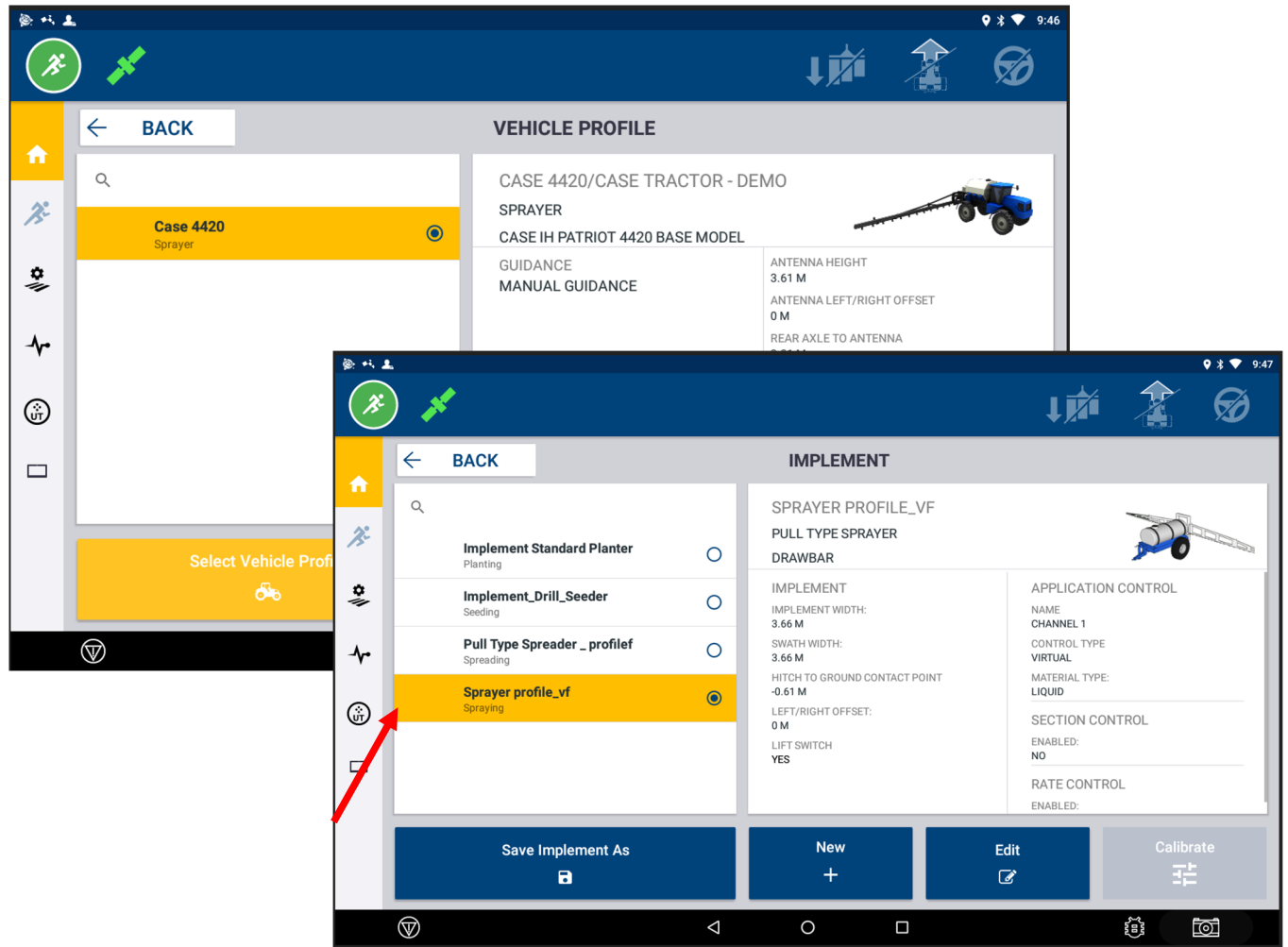
FARMER CORE ONBOARDING



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

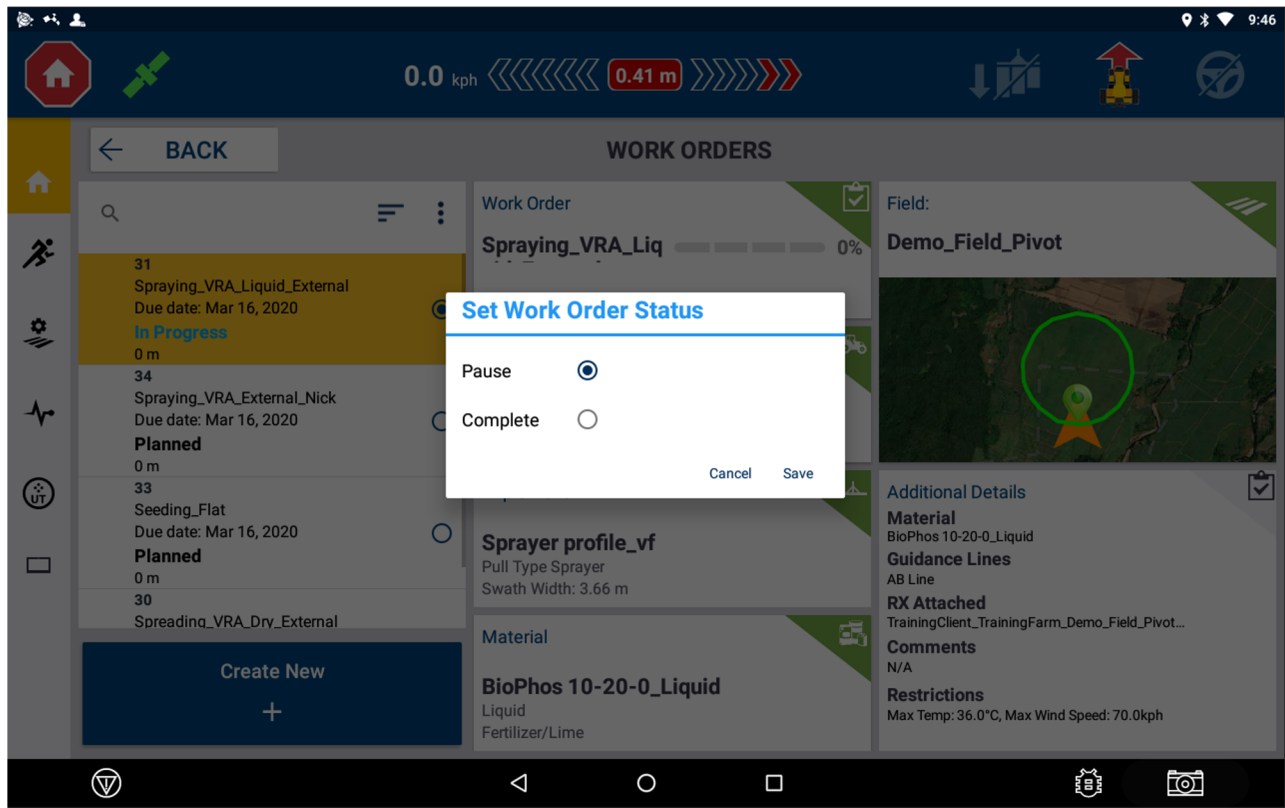
FARMER CORE ONBOARDING



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

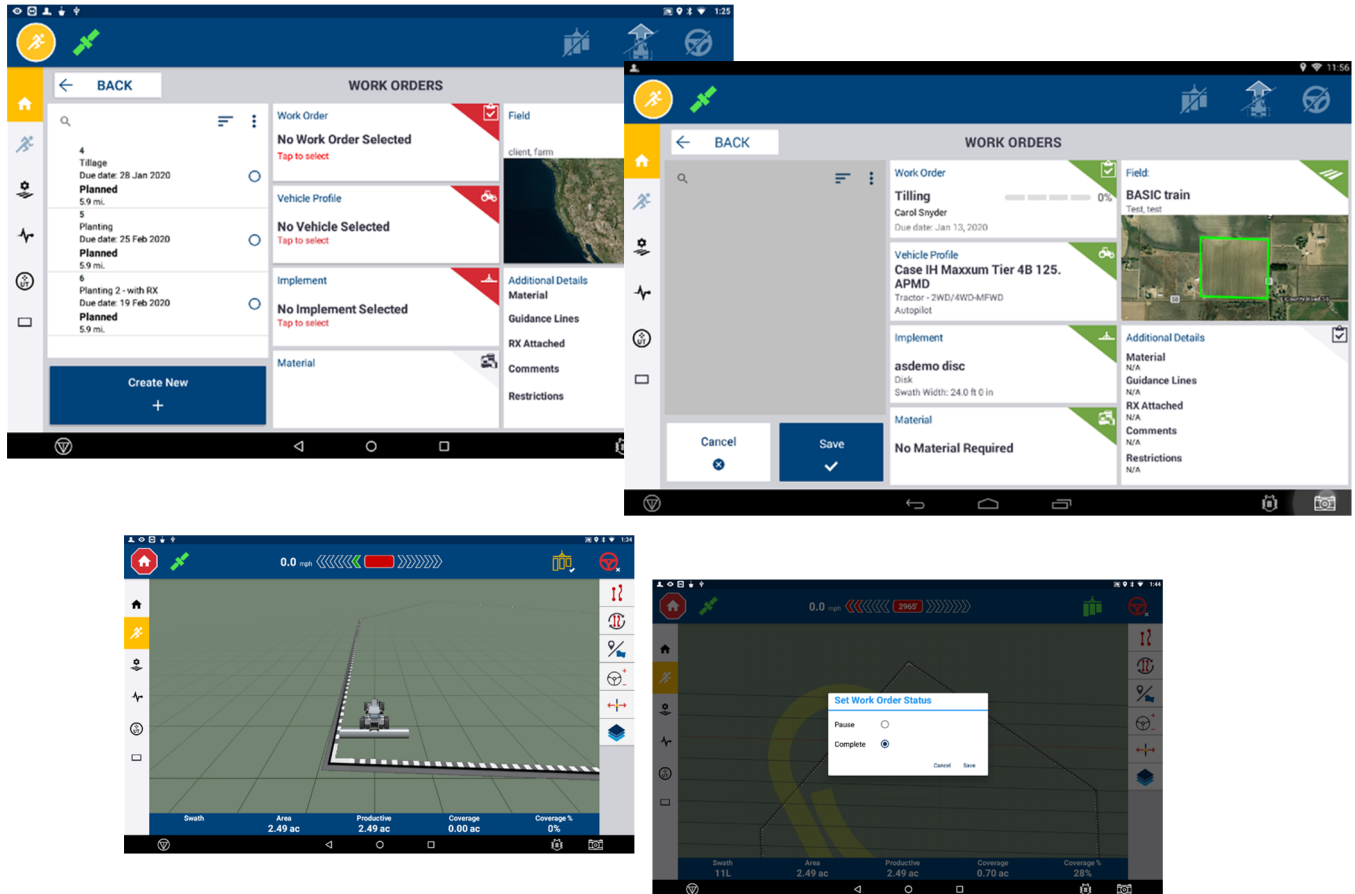
FARMER CORE ONBOARDING



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 CORE 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.

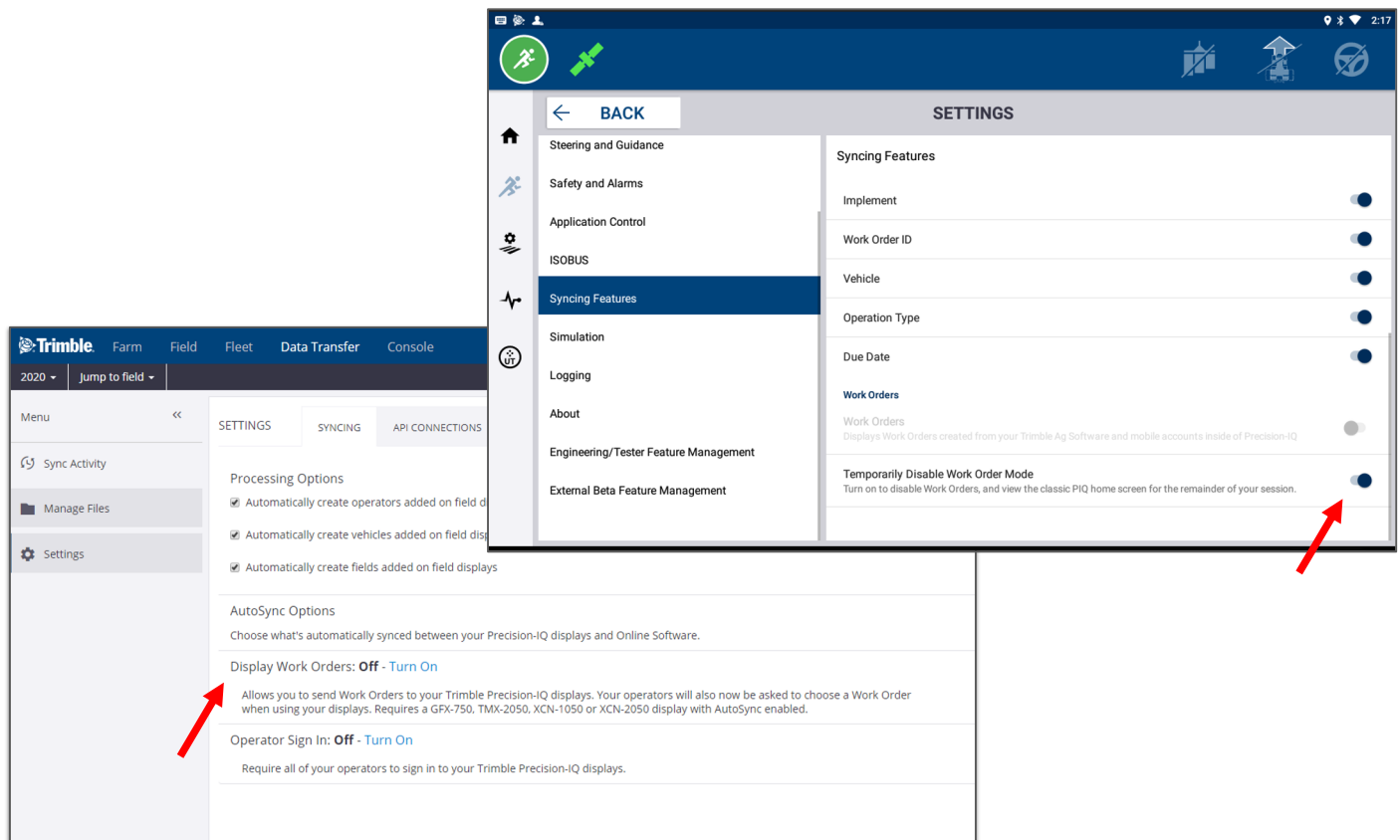


1. Click the Stop button to pause or complete the work order.



Disable Work Orders Display and Online

FARMER CORE ONBOARDING



Display

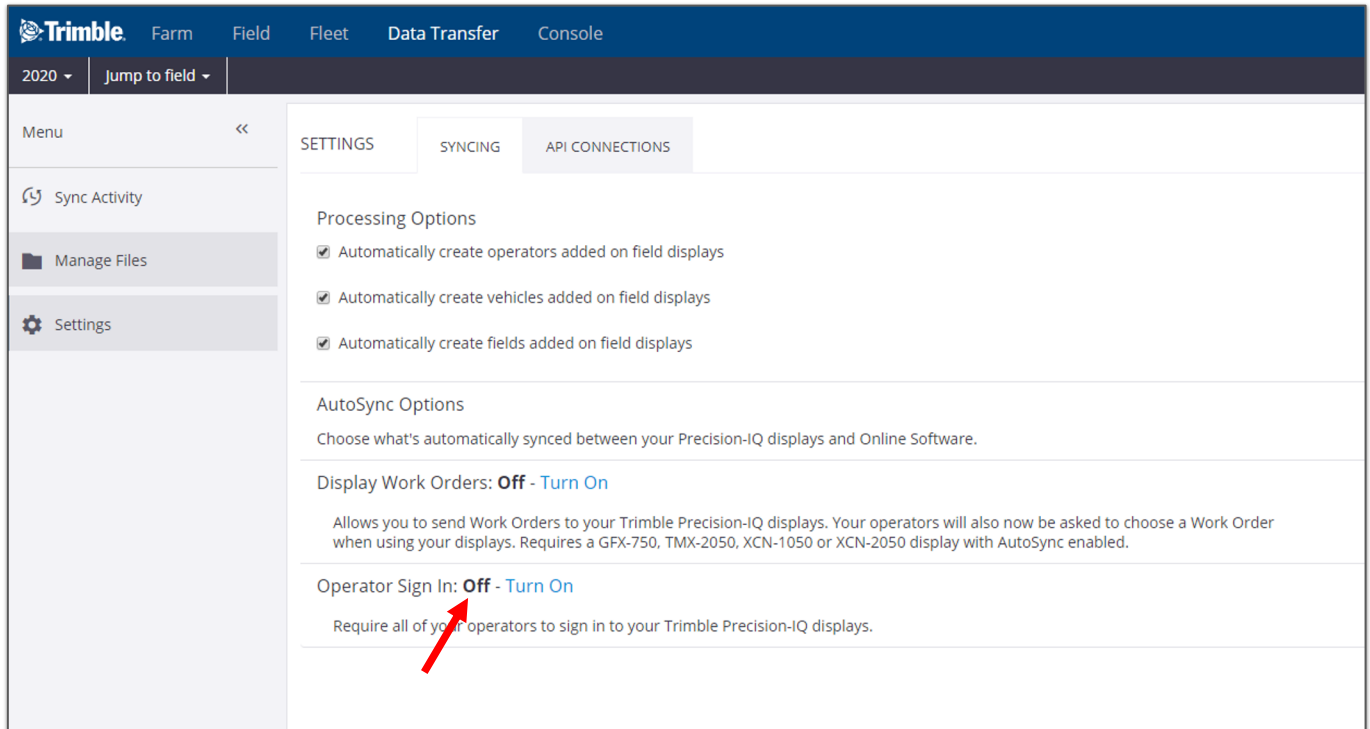
1. From PIQ Settings, click on **Syncing Features**
2. Scroll down to the bottom and find **Work Orders**
3. You can temporarily disable Work Orders in a specific display.
4. Switch the button to **on**
5. PIQ will go back to the normal screen default
6. Work Orders functionality will resume after a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

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 their 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 CORE ONBOARDING



Online

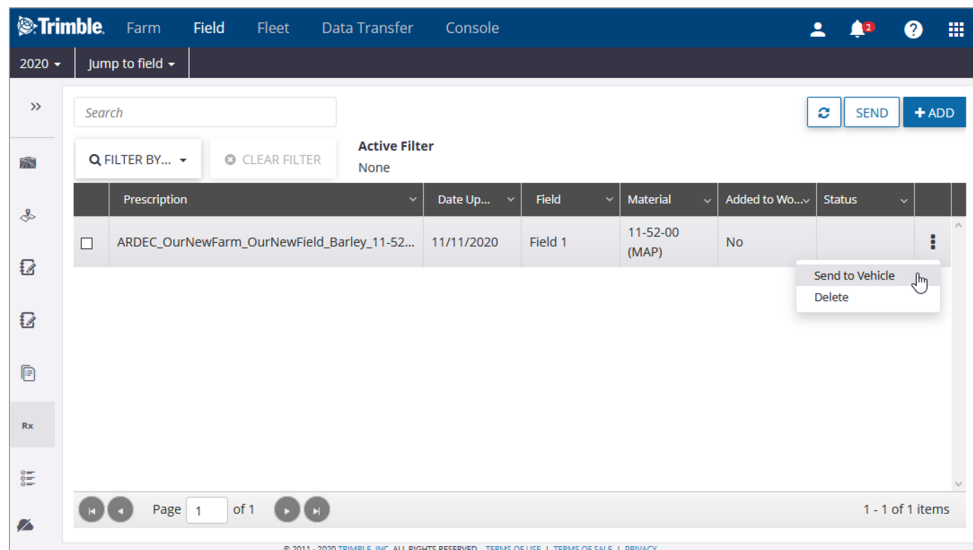
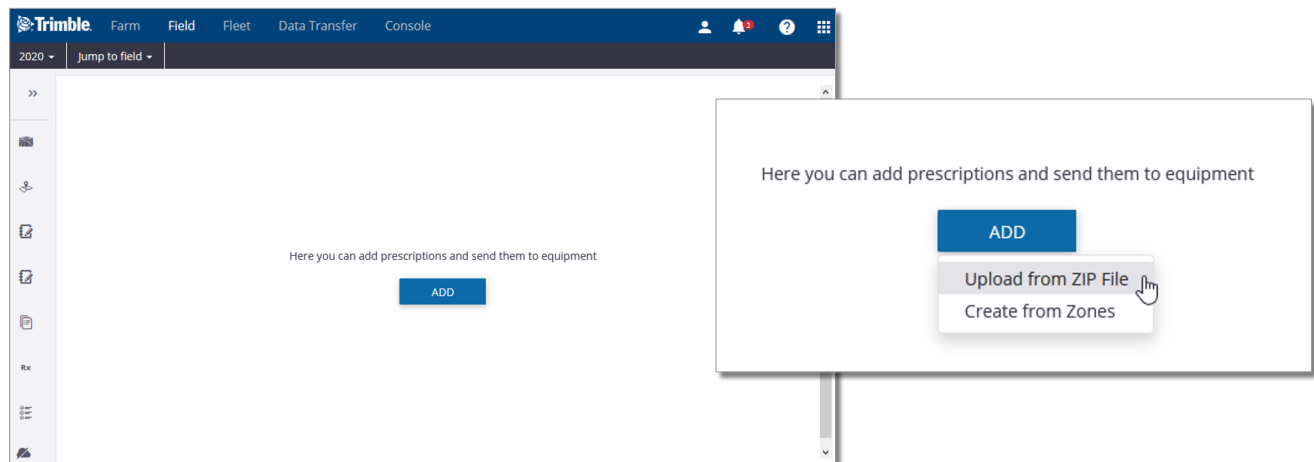
1. Go to **Data Transfer** menu
2. Click **Syncing** option
3. Then find the Operator **Sign in** option
4. **Turn OFF** that option if you don't want the operator to login with his credentials in the display
5. **Turn ON** that option if you want the operator to login with his credentials in the display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

0.3.c

Prescriptions

Online | Prescriptions Tab Overview

FARMER CORE 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

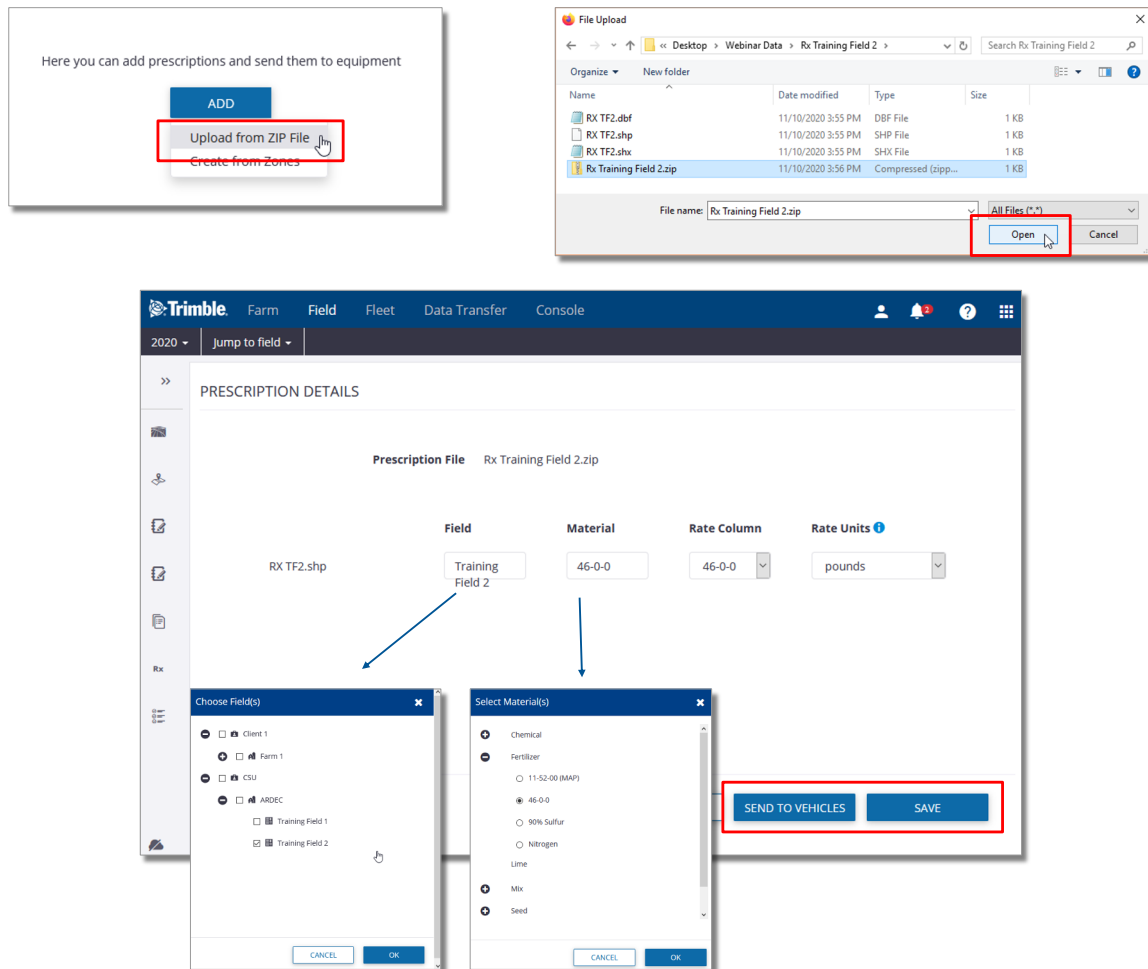
- Fertilizers, Seeds, Chemicals, Tank Mixes

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 CORE ONBOARDING

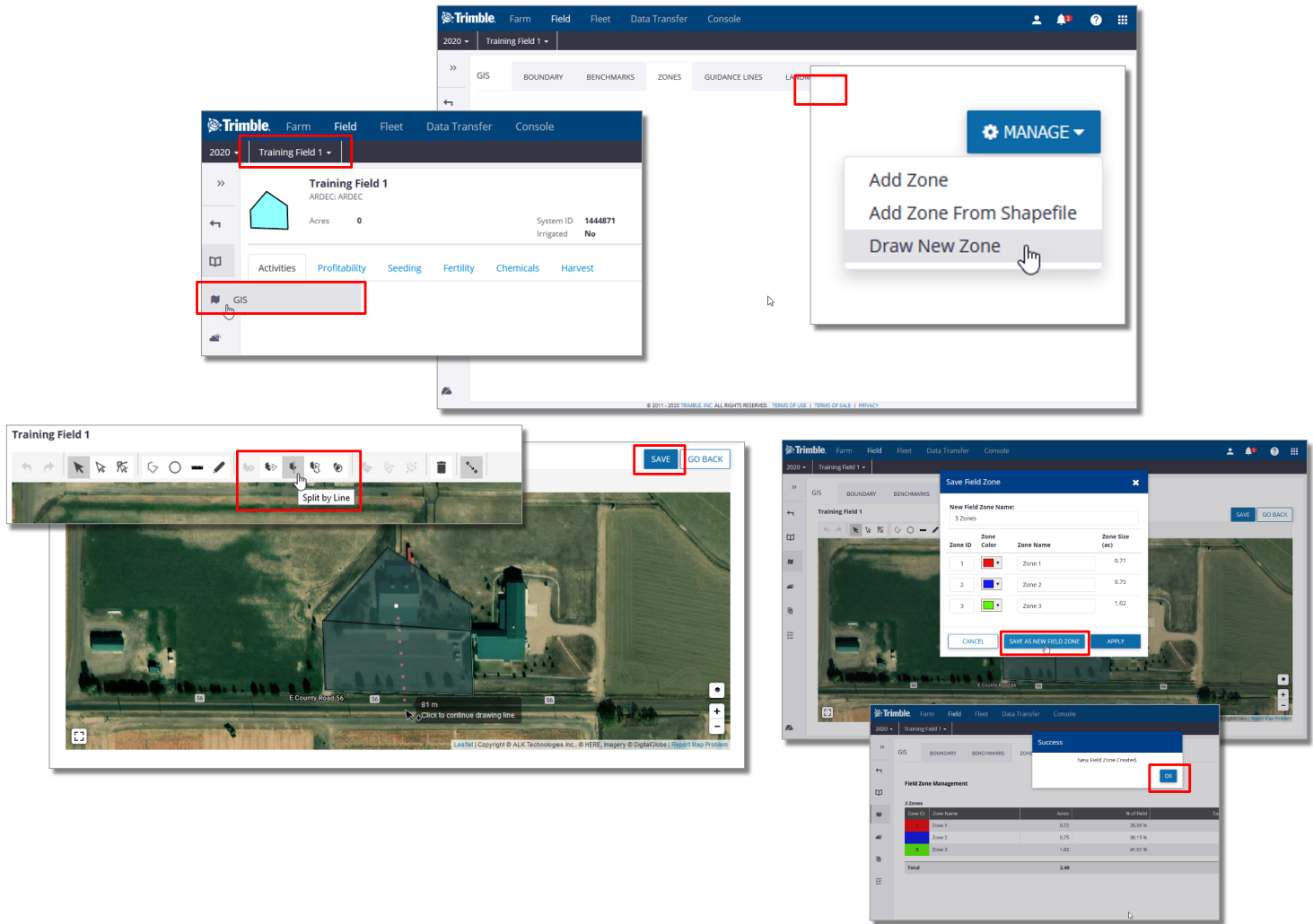


Add Prescription from Zip File

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 | Add Prescription from Zones Create Zone Map

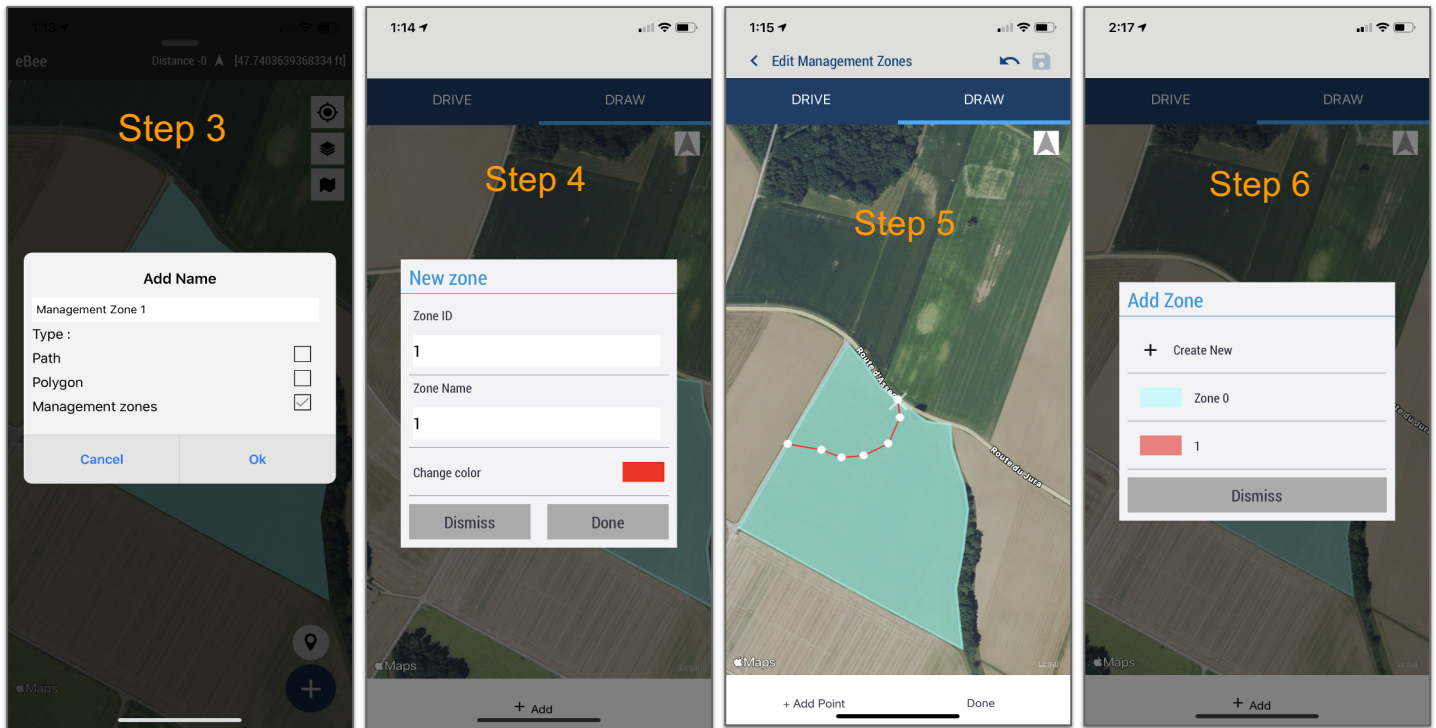
FARMER CORE ONBOARDING



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.

Mobile| Management Zone Creation

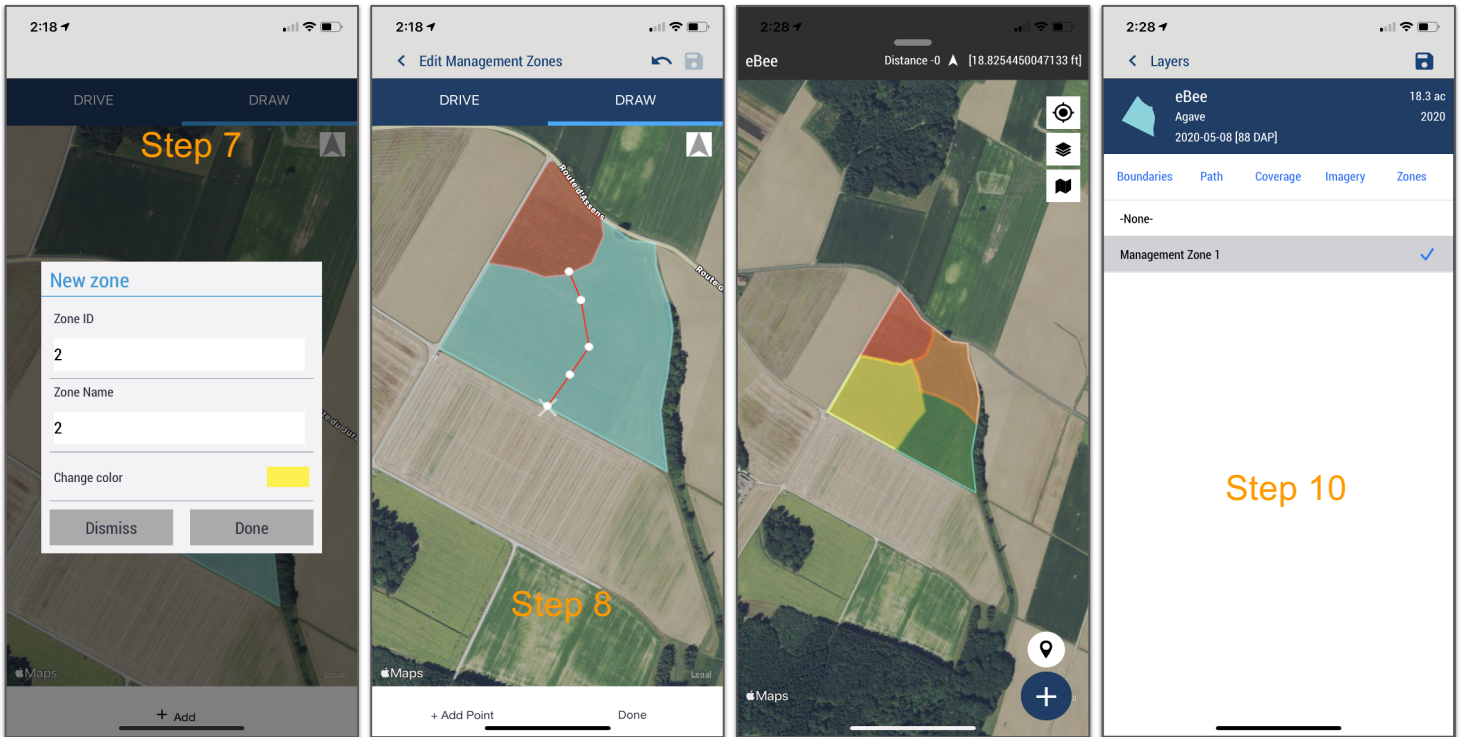
FARMER CORE ONBOARDING



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 CORE ONBOARDING



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

Online | Add Prescription from Zones

FARMER CORE 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
- 11-52-00 (MAP)
- 46-0-0
- 90% Sulfur
- Nitrogen
- Lime
- Mix
- 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

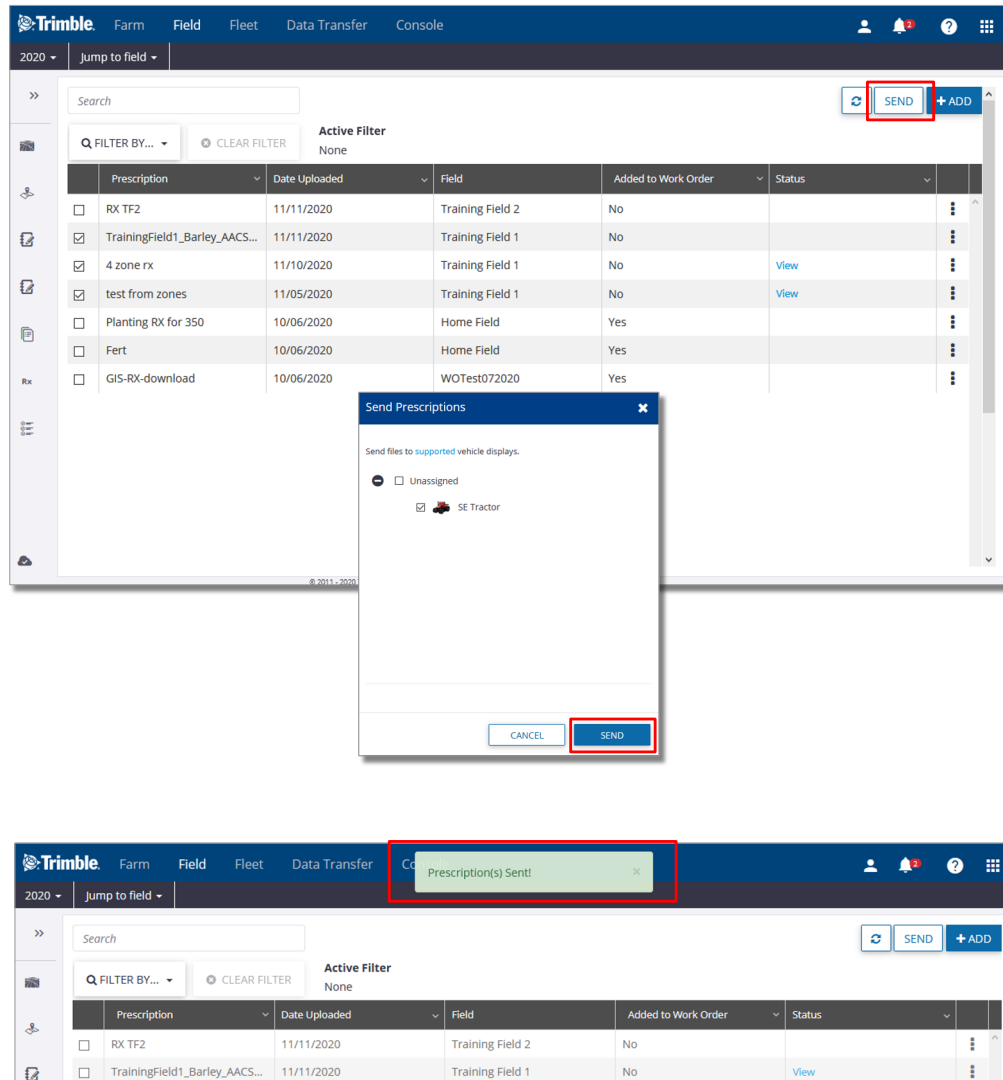
SAVE

Create from Zones

1. After saving the zone map in the 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 | Send Multiple Prescriptions

FARMER CORE 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 CORE ONBOARDING

The screenshot displays the Trimble Farmer Core Onboarding interface. The top navigation bar includes 'Farm', 'Field', 'Fleet', 'Data Transfer', and 'Console'. The 'Field' tab is active, showing a list of prescriptions. The table has columns: Prescription, Date Uploaded, Field, Added to Work Order, and Status. Two 'Send History' windows are open, showing details for a specific prescription.

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)

0.4

Uploading Data

0.4.a

Equipment Data Upload

Option 1 | API Connection

FARMER CORE ONBOARDING

The screenshot displays the 'API CONNECTIONS' tab in the 'SETTINGS' section. It features a table with columns for 'Account', 'Email', 'Date Added', and 'Last Sync'. The table lists four accounts: AGCO, slingshot, NEW HOLLAND AGRICULTURE, and CASE IH. Each account has a gear icon for settings. A dropdown menu is open, showing options to 'Sync Data', 'Manage Companies', and 'Delete'. To the right, a separate dropdown menu is shown with the '+ ADD ACCOUNT' button and a list of available connections: Raven Slingshot®, AGCO Variodoc, JD Link, AFS Connect, and PLM Connect.

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	

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



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

Option 2 | Trimble Display

FARMER CORE ONBOARDING

The image displays four screenshots of the Trimble Display website interface:

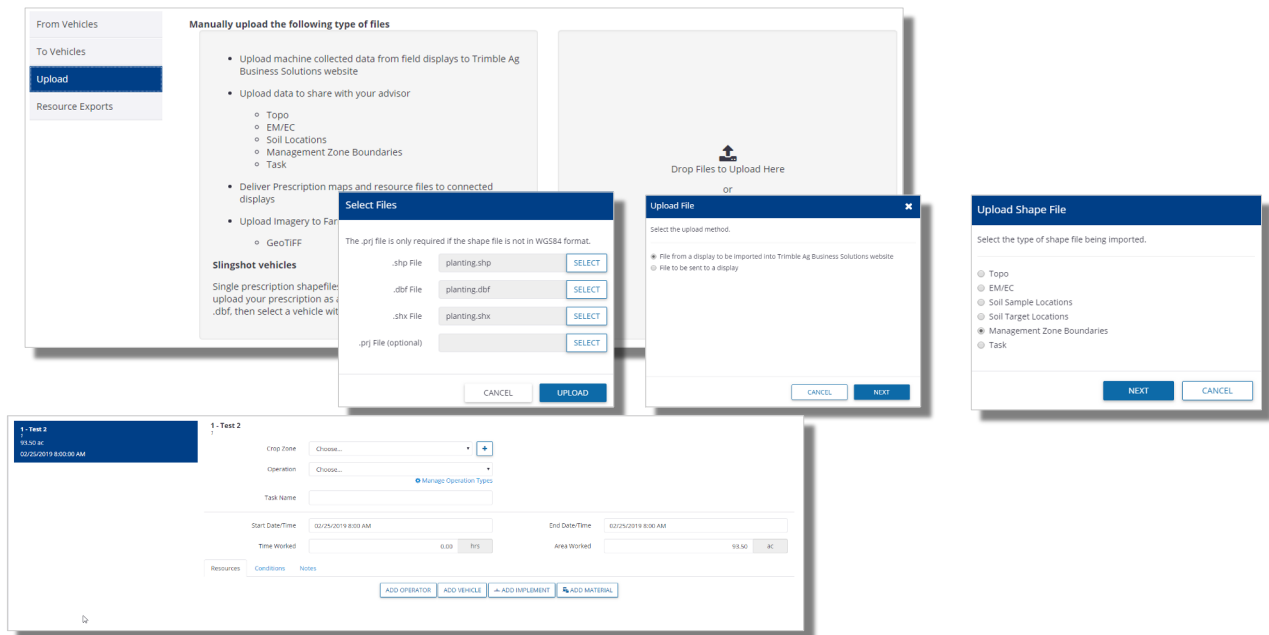
- Field Task History:** Shows a list of tasks. The first task is "Planting" on 04/21/2017 at 12:59 AM, for Stark#1, Demo Client: Stark Farm, 2017 Corn, with a tillable area of 28.74 ha and area covered of 27.16 ha. The second task is "CORN HARVEST 11-8-16" on 11/08/2016 at 3:08 PM, for 500B, csu: MAIN STATION, 2016 Corn, with a tillable area of 2.77 ha and area covered of 2.66 ha.
- Menu:** A sidebar menu with options: Field Profiler, Farm Map, Crop Planner, Work Orders, and Equipment Activity.
- Table View:** A table with columns: All, Name, Date, Client, Farm, and Field. It lists tasks: "Harvest 1" (10/11/2017 12:49:21 PM, Demo Client, Stark Farm, Stark#14) and "Planting" (04/21/2017 12:59:07 AM, Demo Client, Stark Farm, Stark#1).
- Overview/Field Map:** A map view showing a field with a color-coded yield map. The "Layers" panel on the right shows "Stark#14 - Harvest 1 - Dry Yield" and "Field Boundary" are selected. An "EXPORT" button is visible.
- Vehicle Properties:** A form for configuring a vehicle. Fields include Name (Jaguar Chopper), Manufacturer (Class), Vehicle Type (Forage Harvester), Vehicle Group (Tractor - Large Row Crop), Unit Cost (\$0.00 / hr), Attached Devices (Display Device: S106509682 (FmX) - S106509682 - No Vehicle, Telematics Device: Unassigned), and Vehicle License (Active through 01/05/2019).
- Setup/Office Sync:** A settings page with tabs for Display Setup, Mapping, Patterns, Steering and Guidance, Safety and Alarms, Application Control, ISOBUS, Office Sync, Simulation, and Users and Passwords. The Office Sync tab is active, showing options for Office Sync, 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 CORE 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**

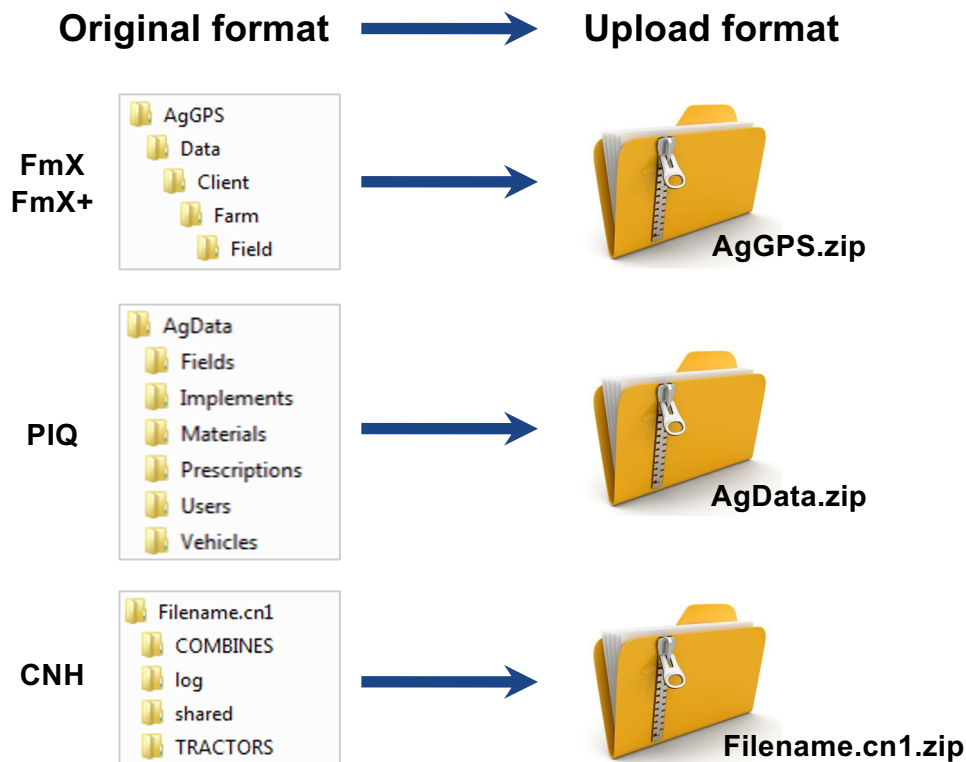
- To upload **display data**, the file needs to be zipped before uploading
- **Search for** or **drag** the zipped display file for upload
- Select **“File From Display to be Imported...”**
- Select the **display format**
- Select the **Vehicle** and Click **Upload**
- Monitor the **processing status**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



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

Option 3 | More Info for Uploading

FARMER CORE 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

Option 4 | Import from shapefile

FARMER CORE ONBOARDING

The image displays a sequence of five screenshots from the Farmer Core Onboarding interface, illustrating the steps to import data from a shapefile.

- Select Files:** A dialog box showing file selection options for .shp, .dbf, .shx, and .prj files. The .prj file is noted as optional if the shapefile is not in WGS84 format.
- Upload Shape File:** A dialog box where the user selects the type of shapefile being imported (e.g., Topo, EM/EC, Soil Sample Locations, etc.).
- Upload File:** A dialog box where the user selects a vehicle to associate the file with (e.g., Unassigned, Combine).
- Choose Field(s):** A dialog box where the user selects the field(s) to be imported (e.g., Test Client, Test Farm, B1 Test).
- Upload Shape File (Detailed):** A detailed dialog box where the user maps specific attributes from the shapefile to the system's fields. It includes dropdowns for Flow, Yield, Width, Wet Yield Mass, Commodity, Moisture, and Engaged. It also lists recommended attributes: Vehicle assignment, GPS position, time, and One of the following (Wet Yield Flow, Dry Yield Mass, Wet Yield Mass).
- Task Details:** A form where the user enters task details, including Crop Zone, Operation, Task Name, Start Date/Time, End Date/Time, Time Worked, Area Worked, and Harvested data.

1. Go to the **Data Transfer** tab (top menu)
2. Select **Manage Files**
3. Click **Upload** tab
4. Click **Upload Files** and 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**.

Note that the dropdown requirements will change depending on the Task shapefile you are uploading, i.e. Yield requires different attributes then Planting.

Online | Equip. Activity: Verify Task

FARMER CORE 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



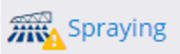
Watch this [video](#) to learn more.

Online | Equipment Activity

FARMER CORE ONBOARDING

The screenshot displays the Trimble Online Equipment Activity interface. At the top, there's a navigation bar with tabs: Farm, Field, Fleet, Analytics, and Data Transfer. Below this, a sidebar on the left contains a menu with options like Field Profiler, Farm Map, Crop Planner, Work Orders, Equipment Activity (selected), Harvest Summary, and Farm Calendar. The main area shows a table of equipment activity tasks. A 'FILTER BY...' dropdown menu is open, showing options: Date, Client : Farm : Field, Crop, Operation, Vehicle, Implement, Operator, Material, and Is Verified. The table lists tasks with columns: All, Name, Date, Client, Farm, Field, Year, and Crop. Below the table, there are buttons for '+ ADD', 'EDIT', and 'DELETE'. At the bottom of the table, there are buttons for 'VERIFY', 'MERGE', and 'REASSIGN'. Below the main interface, there are three smaller screenshots: 1. 'Summary' view for a task, showing a map of the field with a color-coded activity heatmap and input data. 2. 'Inputs' view for a task, showing a list of input items (Operators, Vehicles, Implements, Materials) with their respective hours and costs. 3. 'Task Details' view for a task, showing a form with fields for Crop, Operation, Task Name, Start Date/Time, End Date/Time, Time Worked, Area Worked, and various resource allocation fields.

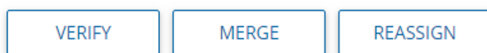
1. Click Field tab > Equipment Activity

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

1 task selected



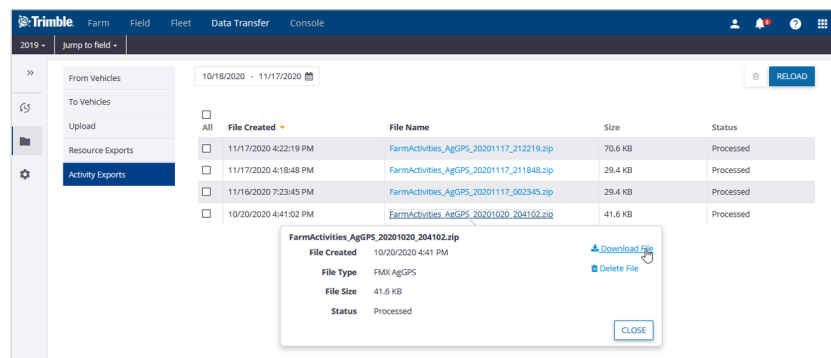
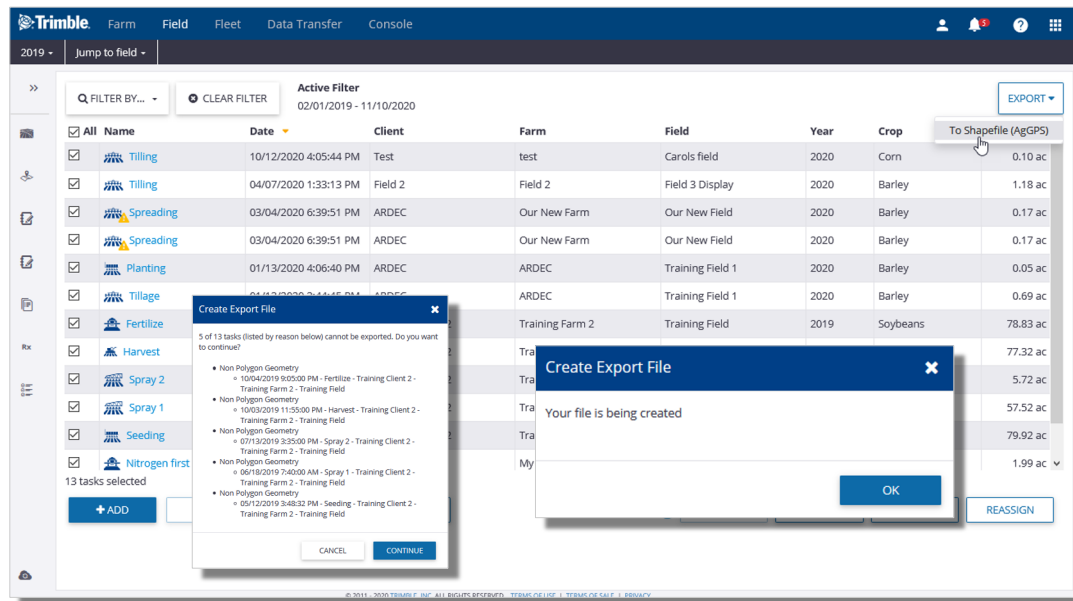
- Select items to **Verify, Merge, or Reassign**



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 | Equipment Activity Export

FARMER CORE ONBOARDING



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

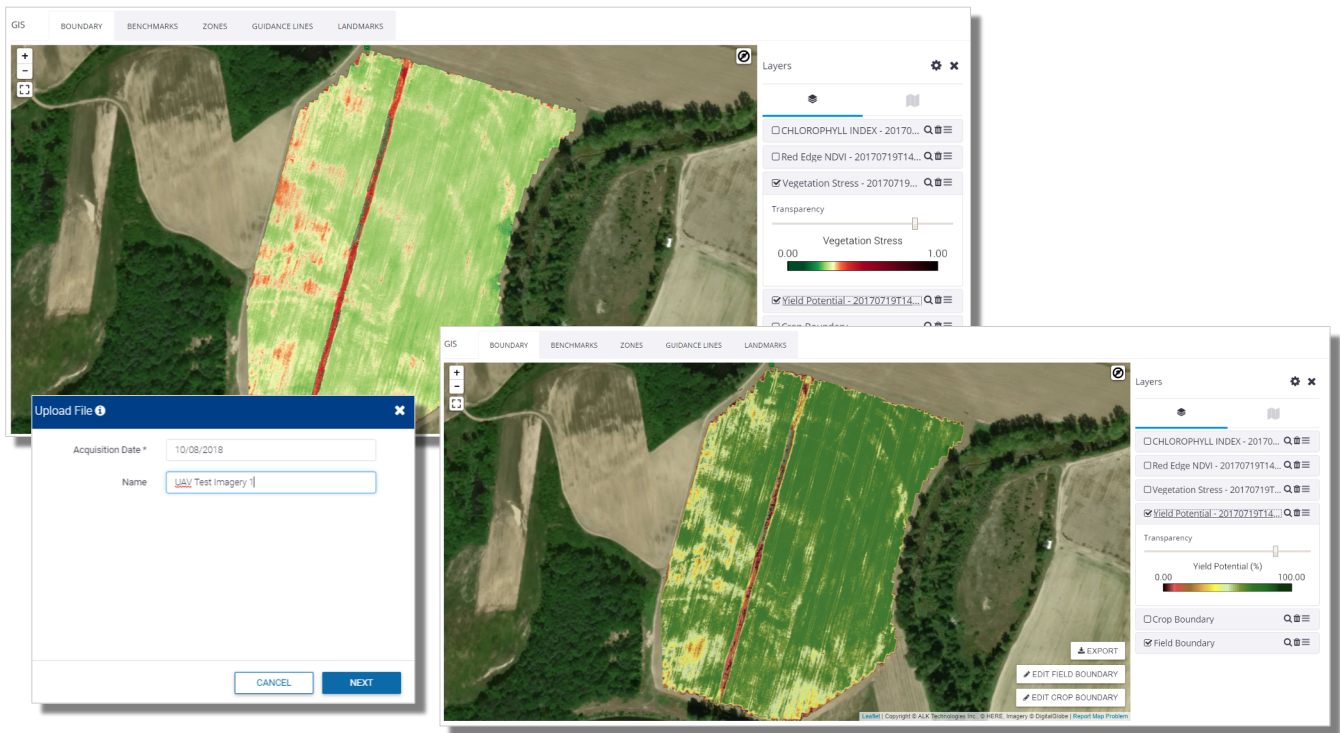
1. Open Field>Equipment Activity
2. Place a check mark beside the tasks you would like to export
3. Click on the Export button in the upper right corner of the screen
4. Select To Shapefile (AgGPS)
 - a. The output file converts PIQ AgData files into an AgGPS directory structure where the shape files 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.

0.4.b

Generic Data Upload

Online | Import Data (UAV Imagery)

FARMER CORE ONBOARDING



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

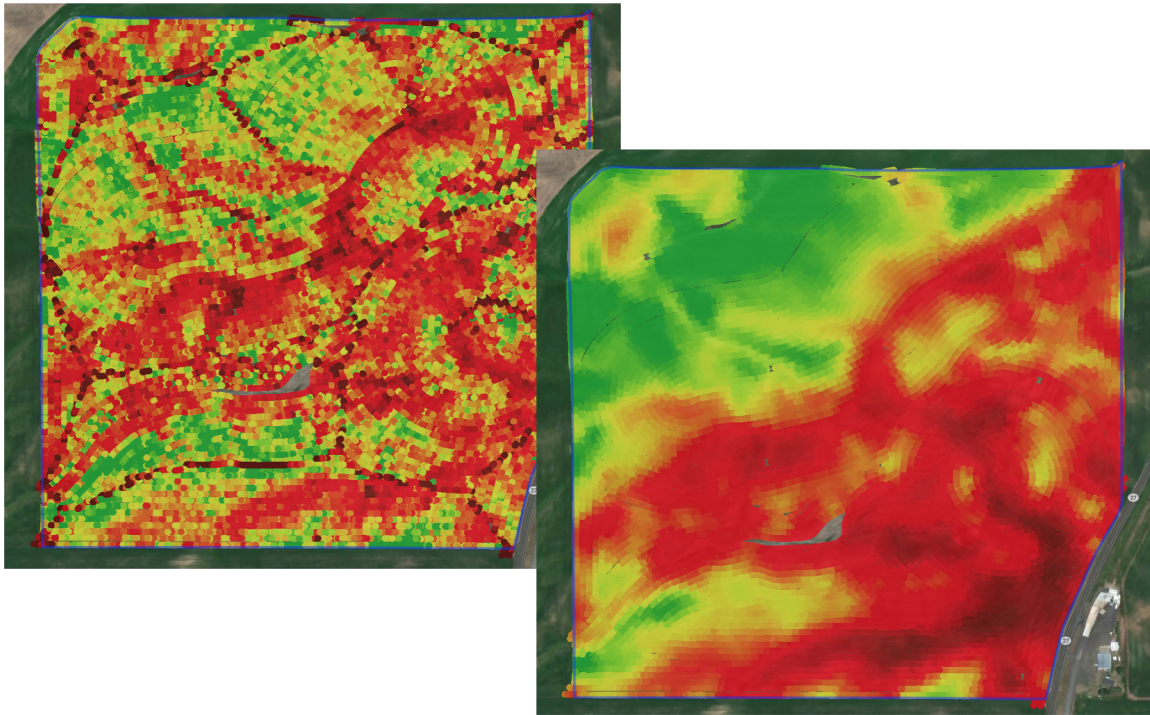
All geotiffs less than 500mb are accepted in the software, however Slantrane imagery currently has the only support legend. Also, please note that uploading of UAV Imagery **Requires** a field boundary.

0.4.c

Yield Data Upload / Cleaning

Yield| Cleaning

FARMER CORE ONBOARDING



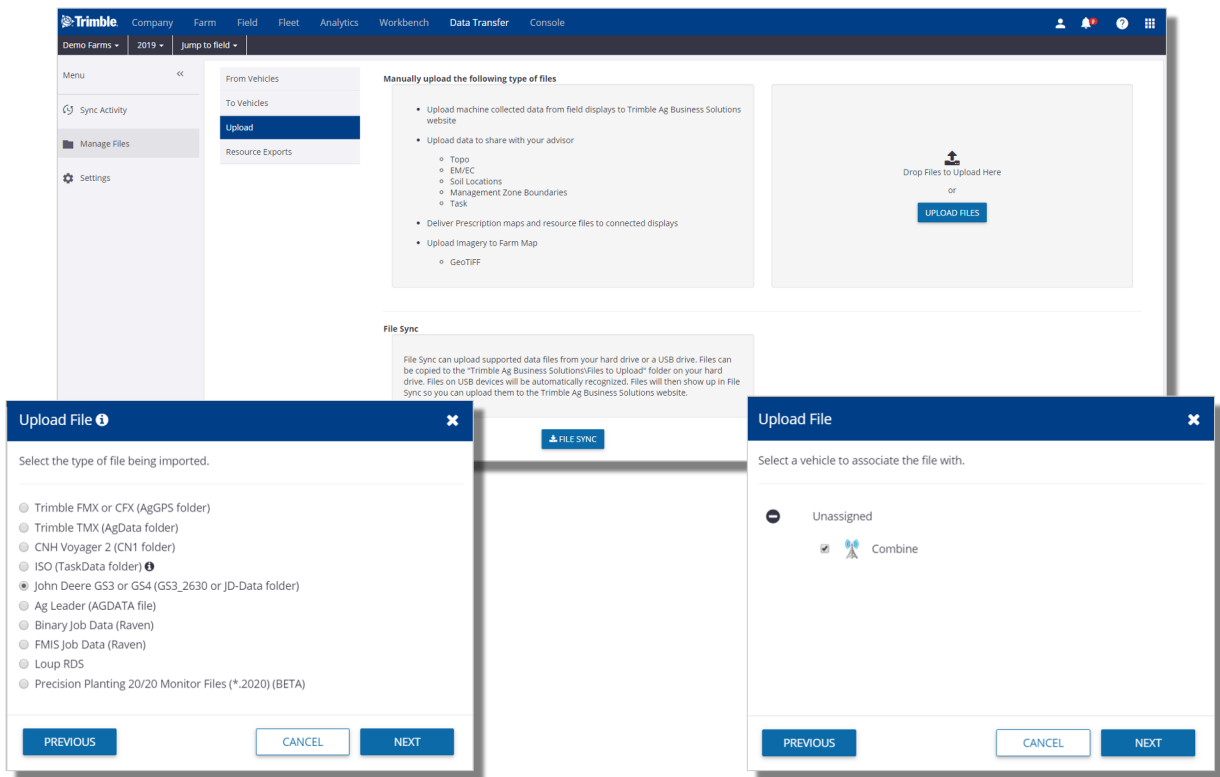
1. Eliminate Problematic Points
 - GPS Errors
 - Moisture sensor issues
 - Flow delay issues
 - Overlap passes
 - Speed and flow issues
2. Calibration between harvesters
 - Make relative adjustment
 - Use the offset entered by the user
3. Application of the scale ticket
 - If available by the user, scale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

Select Files

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

.shp File: B1_Yield_20150922.shp [SELECT]

.dbf File: B1_Yield_20150922.dbf [SELECT]

.shx File: B1_Yield_20150922.shx [SELECT]

.prj File (optional): B1_Yield_20150922.prj [SELECT]

[CANCEL] [UPLOAD]

Upload Shape File

Select the type of shape file being imported.

- ☐ Topo
- ☐ EM/EC
- ☐ Soil Sample Locations
- ☐ Soil Target Locations
- ☐ Management Zone Boundaries
- ☒ Task
- ☐ Weepness Potential
- ☐ Soil Optix

[NEXT] [CANCEL]

Upload File

Select a vehicle to associate the file with.

☐ Unassigned

☒ Combine

[PREVIOUS] [CANCEL] [NEXT]

Choose Field(s)

☐ Test Client

☒ Test Farm

☒ B1 Test

[CANCEL] [OK]

Upload Shape File

Flow: [] []

Yield: [] []

Width: Width [] ft []

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

Commodity: Wheat []

Moisture: Moisture [] % []

Engaged: Engaged []

[PREVIOUS] [NEXT] [CANCEL]

Task Configuration

500 Unassigned

Crop Zone: 2018 Corn (000) []

Operation: Harvesting []

Task Name: Corn Harvesting

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

Time Worked: 0:00 hrs Area Worked: 7.28 ac

Resources: Harvested Conditions Notes

Corn

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

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

[CANCEL] [SAVE]

- 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 CORE ONBOARDING

Calibrate Settings

Equipment	Acres	Adjustment % ⓘ	Avg. Yield/ac	Total Yield
Combine	311.22	0	1904.35 kg	592666.49 kg
		0	2091.03 kg	346819.57 kg
			1969.25 kg/ac	939486.06 kg
Total Yield			939486.06	kg

CLOSE

SAVE

Clean Yield

Runs in the background and applies the following effects:

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

[View Requirements](#)

Verify

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

Merge

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

Reassign

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

VERIFY TASK

EDIT

CLEAN YIELD

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

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

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

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

0.5

Post-Season Application Data and Reports

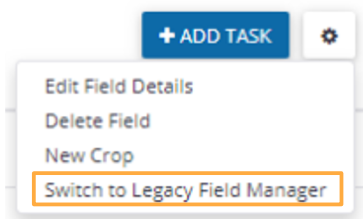
Online | New Field Manager

FARMER CORE ONBOARDING

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

In this session you will learn:

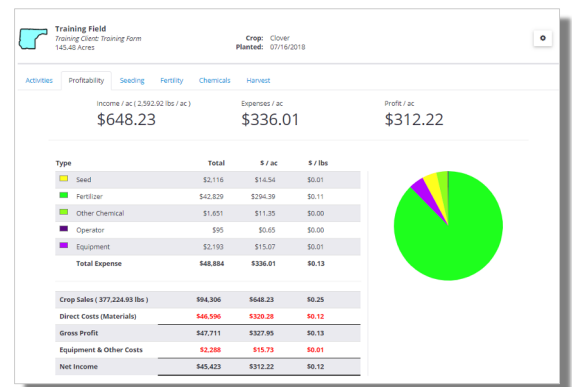
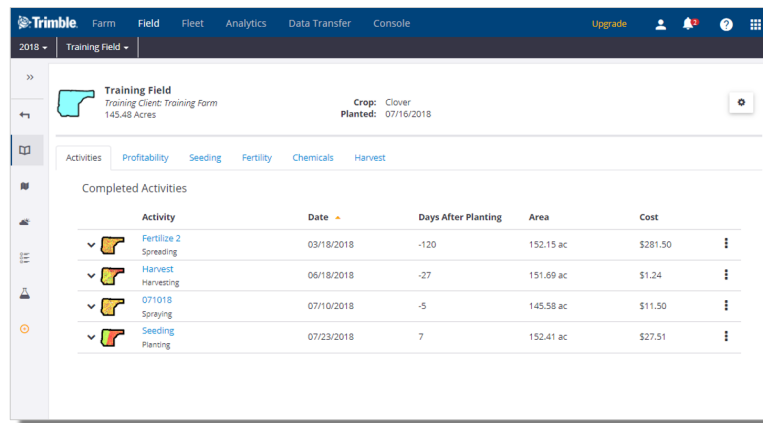
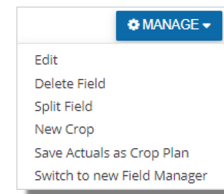
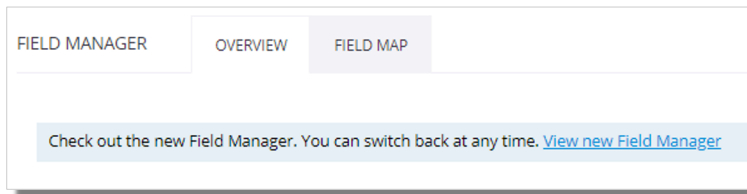
- View the New Field Manager
- Add a product application using the New Field Manager
- Add a product application using the Legacy Field Manager



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

Online | New Field Manager

FARMER CORE ONBOARDING



Using the New Field Manager

1. From **Field Profiler** > click on the desired field
2. If the Legacy Field Manager opens, select the link to View new Field Manager (or click the Manage button and select Switch to new Field Manger)
3. The Activities tab lists a summary of the Completed Activities for the selected field that have been verified on the Equipment Activity tab or added manually.
 - 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 CORE ONBOARDING

Training Field
Training Client: Training Farm
145.48 Acres

Crop: Clover
Planted: 07/16/2018

Activities Profitability Seeding Fertility Chemicals Harvest

Date	Crop	Variety	Rate	Area	Cost/Area
07/16/2018		Pearl Millet		152.41 ac	\$11.79 /ac
07/16/2018		Sunflower		152.41 ac	\$2.10 /ac

Activities Profitability Seeding Fertility Chemicals Harvest

Date	Material (Blend)	Actual Nutrient	Placement	Type	Rate	Area	Cost/Area
03/18/2018	46-0-0	0-0-0-0		Dry	157.00 lbs/ac	152.15 ac	\$157.00 /ac
03/18/2018	21-0-0-245	0-0-0-0		Dry	83.00 lbs/ac	152.15 ac	\$124.50 /ac
Total		0-0-0-0					

Activities Profitability Seeding Fertility Chemicals Harvest


Date	Material	Cost/Unit	Target Pest	PHI	REI	Rate	Area	Cost/Area
07/10/2018	Reign	\$10.01 / gal				0.03 gal/ac	41.09 ac	\$0.31 /ac
07/10/2018	Gramoxone	\$25.00 / gal				1.13 gal/ac	41.09 ac	\$28.35 /ac
07/10/2018	LV 6	\$22.00 / gal				0.22 gal/ac	41.09 ac	\$4.87 /ac
07/10/2018	MSO	\$29.99 / gal				0.22 gal/ac	41.09 ac	\$6.64 /ac

Activities Profitability Seeding Fertility Chemicals Harvest

Date	Area	Average Yield	Total Yield	Price/Unit	Total Sale
06/18/2018	151.69 ac	511.66 lbs/ac	77,612.53 lbs	\$1.22 /lbs	\$94,306.23
Total			77,612.53 lbs		

View Summary
View Report
Edit
Delete

Using the Activity tabs

- The Seeding, Fertility, Chemicals, and Harvest tabs summarize the field activities in each of these areas
- 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 CORE ONBOARDING

The screenshot shows the 'Home Field' profile for 'Client 1: Farm 1'. It displays field details like 'Acres: 3.68', 'Crop Variety: Barley - 6 Row Feed', and 'System ID: 1668422'. Below this, there are tabs for 'Activities', 'Profitability', 'Seeding', 'Fertility', 'Chemicals', and 'Harvest'. The 'Activities' tab is active, showing a table of 'Completed Activities'.

Activity	Date	Days After Planting	Area	Cost
Spreading Planting	06/02/2020	-57	0.05 ac	\$0.00
Seeding Planting	07/30/2020	0	3.68 ac	\$25.51

The 'Choose Field(s)' dialog box shows a list of fields with checkboxes. The 'Home Field' is selected. The 'OK' button at the bottom right is highlighted with a red box.

The 'Choose...' dropdown menu lists various agricultural activities. The 'Seeding' option is highlighted with a red box.

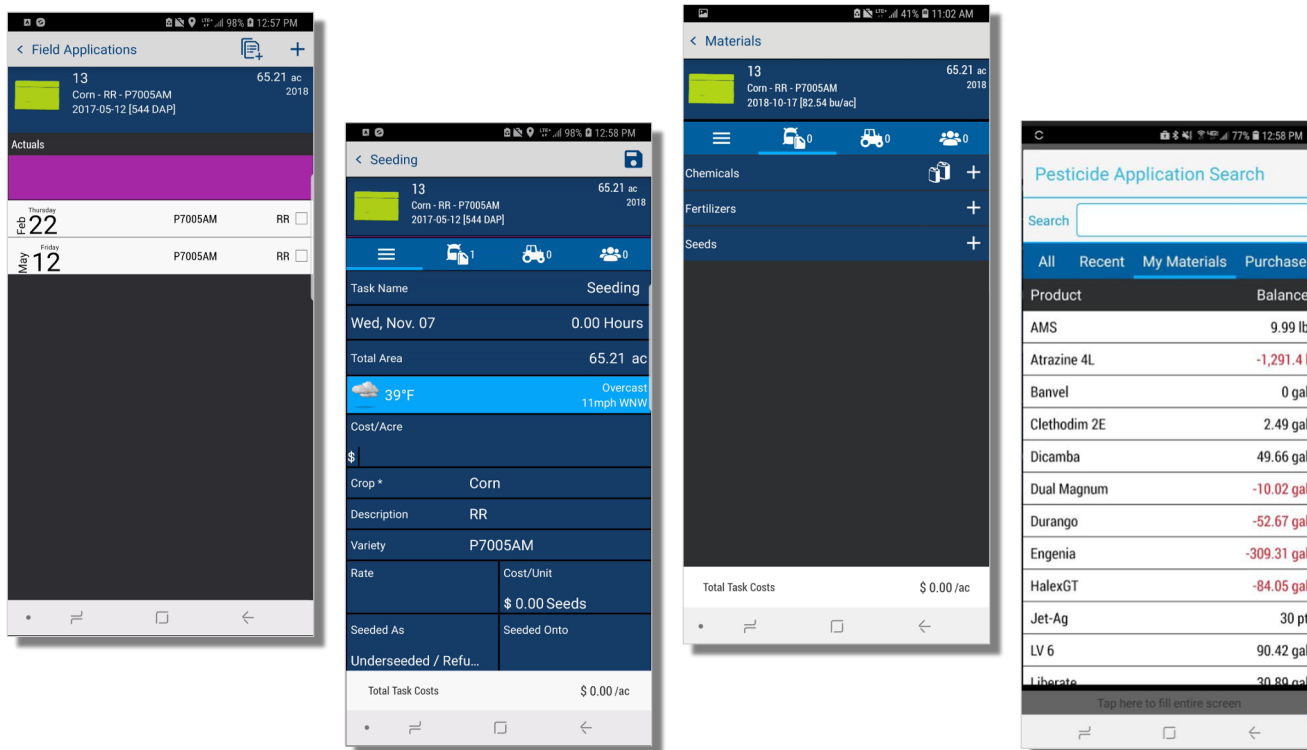
The 'New Task Name' form is shown with the 'General' tab selected. It contains fields for 'Task Name', 'Operation', 'Crop Zone', 'Start Date/Time', 'End Date/Time', 'Time Worked', 'Task Area', and 'Comments'. The 'SAVE' button at the bottom right is highlighted with a red box.




Manually add a task

1. From **Field Profiler** > click on the desired field
2. Click the Add Task button in the upper right corner
3. Confirm the field selection on the Choose Field window
4. Enter the details on the General Tab for the new task.
 - Enter a Task Name
 - Select an Operation type from the drop down menu
 - Fill in remaining details as needed on the Vehicles, Implements, Materials, Operators, and Conditions tab.
5. Click the Save button to save the new task.

Mobile| Adding Tasks

FARMER CORE ONBOARDING



1. Tap into the desired **Field**
2. Tap the desired **Input** tile
 - Fill in task details (Seeding, Fertility, Crop Protection, or Harvest)
 - 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 | New Field Manager

FARMER CORE ONBOARDING

The main interface shows the 'General' tab for a task named 'Soybeans Spraying'. It includes fields for Operation (Spraying), Crop (2019 Soybeans (Gopherville)), Start Date/Time (06/12/2019 8:00 AM), End Date/Time (06/12/2019 8:00 AM), Time Worked (0.00 hrs), Area (464.22 ac), and Comments. A sidebar on the left contains links: View Summary, View Report, Edit, and Delete.

Four modal windows are shown:

- Select Material(s)**: A table with columns Name and Balance. It lists materials like 0-0-60-48CI, 11-52-0, 16-16-16, 46-0-0, 45-0-0, ALPINE G22, and canola. It includes a 'CREATE NEW' button and 'CANCEL'/'ADD' buttons.
- Fertilizer 0-0-60+48CI**: Fields for Area Applied (464.22 ac), Cost (\$358.00 / ton), Target Rate (0.00 lbs / ac), Actual Rate (0.00 lbs / ac), Quantity Used (0.00 ton), Rate Type (Flat Rate / Variable Rate), and Placement (Choose...). It has 'CANCEL' and 'OK' buttons.
- Select Vehicle(s)**: A list of vehicles including 6120R Amazon, Combine, Combine 2, Combine 3, Row Crop Tractor, Sprayer, Tractor, and Vehicle for Uploaded Data. It has 'CANCEL' and 'OK' buttons.
- Select Operator(s)**: A list of operators including Jacob, James Farmer, and John Farmer. It has 'CANCEL' and 'ADD' buttons.
- Conditions**: Fields for Weather, Temperature (°F), Wind (mph), Wind Gusts (mph), Wind Direction (Choose...), Humidity (%), Soil Condition, and Last Updated. It has 'CANCEL' and 'SAVE' buttons.

Edit a Task

1. Click the **More** button (⋮) from any task item and select **Edit**
2. 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
3. Select the **Material** tab to edit or click **Add** to add more materials to the task
4. 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**
5. Go to **Equipment** tab and click **Add** to enter your Equipment and Implements for this task
6. Select the Vehicle from the list and Click **OK**.
7. Select the **Operator** tab, Add the Operator for this task
8. The **Conditions** tab allows you to enter the weather information.



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

Online | New Field Manager

FARMER CORE ONBOARDING

The screenshots illustrate the process of adding materials to a field. The 'FIELDS' tab shows a completed field with a '+ADD' button. The 'Select Material(s)' dialog allows users to choose from various materials like Mix, Seed, Soybeans, and Winter Wheat. The 'Seed 28-10RY-Advisor' dialog provides fields for Area Applied, Cost, Target Rate, and Quantity Used. The 'Chemical boron' dialog includes fields for Area Applied, Cost, Target Rate, and Quantity Used. The 'Lime Properties' dialog has fields for Name, Dolomitic, Purity, and Unit Cost. The 'Tank Mix' dialog features fields for Area Applied, Cost, Target Rate, and Quantity Used. The 'Water Properties' dialog includes fields for Name, Purchased Units, Unit Cost, and Applied Units.

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 CORE ONBOARDING

The screenshot displays the 'Soybeans Harvesting' task setup in the 'FIELD Manager' application. The interface includes a sidebar with options: View Summary, View Report, Edit, and Delete. The main window shows the 'General' tab for the task, with fields for Task Name, Operation, and Crop. A 'Harvest Soybeans' dialog box is open, showing input fields for Area Harvested, Price, Average Yield, and Quantity Harvested.

Training Field - Flat - W
Training Client 1:
Training Farm 1
94.88 ac
07/25/2019
8:00:00 AM

Completed Soybeans Harvesting

General Materials (0) Equipment (0) Operators (0) Conditions Harvest

Task Name * Soybeans Harvesting

Operation * Harvesting
[Manage Operation Types](#)

Crop * 2018 Soybeans (Trainin) +

Harvest Soybeans


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

Area Harvested 94.88 ac
Price \$0.00 / bu
Average Yield 35.41 bu / ac
Quantity Harvested 3,360.00 bu

CANCEL OK

CANCEL SAVE


Edit a Harvest Task

1. Select the Harvesting tab from the Field Manager screen
2. Click the **More** button () on the harvest task item and select Edit
3. Enter the relevant task information on the General 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.

FARMER CORE ONBOARDING

Fertilizer Application  Add Analysis, Manure or Compost

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

Select fields to apply application to:

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

Product Application

Application Type
Sensitive Area
Applicator Name
Applicator Comment

Product
Type in Product Name

- 

Online | Reviewing Applications

FARMER CORE ONBOARDING

The screenshot displays the Trimble Farmer Core Onboarding application interface. The top navigation bar includes links for Company, Farm, Field, Fleet, Analytics, Workbench, Data Transfer, and Console. The main content area is divided into several sections:

- Field Details:** Shows information for Field ID 867573, including Field Name (13 - Chester Farms), Acreage (65.21), and Varieties (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 06/08/2018.
- Product Application:** A detailed view of a product application event, showing fields for Application Type, Sensitive Area, Applicator Name, Product, Cost/Unit, Rate, Cost/Acre, Material, Comments, Target Pest, PHI, REI, and a table of event details.

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.

Online | Proof of Placement Reports

FARMER CORE ONBOARDING

The screenshot displays the Trimble Field Manager web application. 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 options menu. A red arrow points from this box to a detailed view of a '500b - CORN PLANTING 5-13-16' activity. This detailed view includes a coverage map, a table of seed data, and a table of equipment data.

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

MAIN STATION: 500b
Brent Chenier - Core Planting

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

2.69 ha

Seed

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

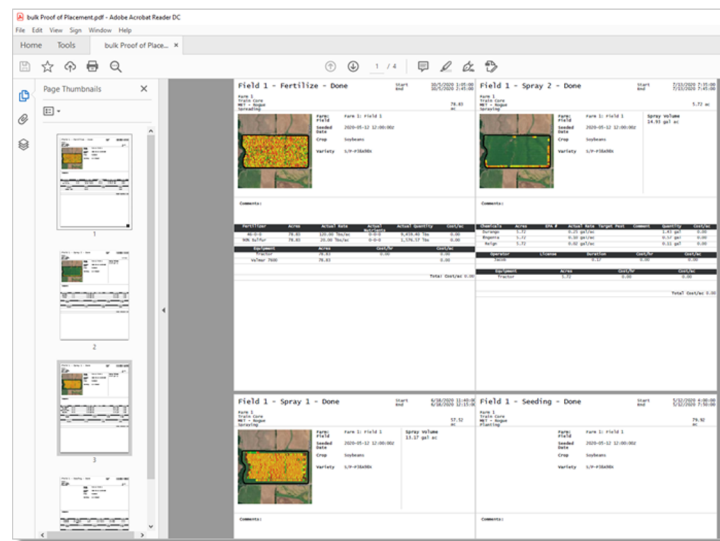
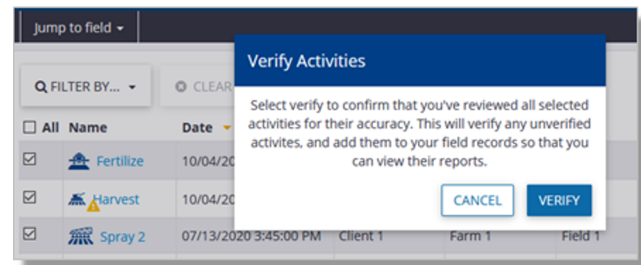
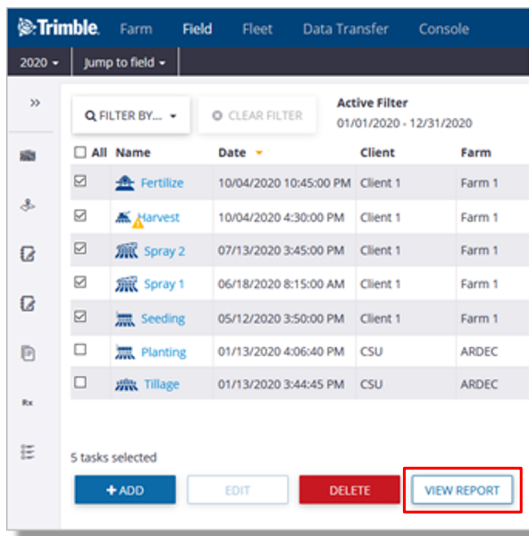
Equipment	Hectares	Cost/hr	Cost/ha
Tractor 1	2.69	0	0.00
MONOSEM	2.69		0.00

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 CORE ONBOARDING



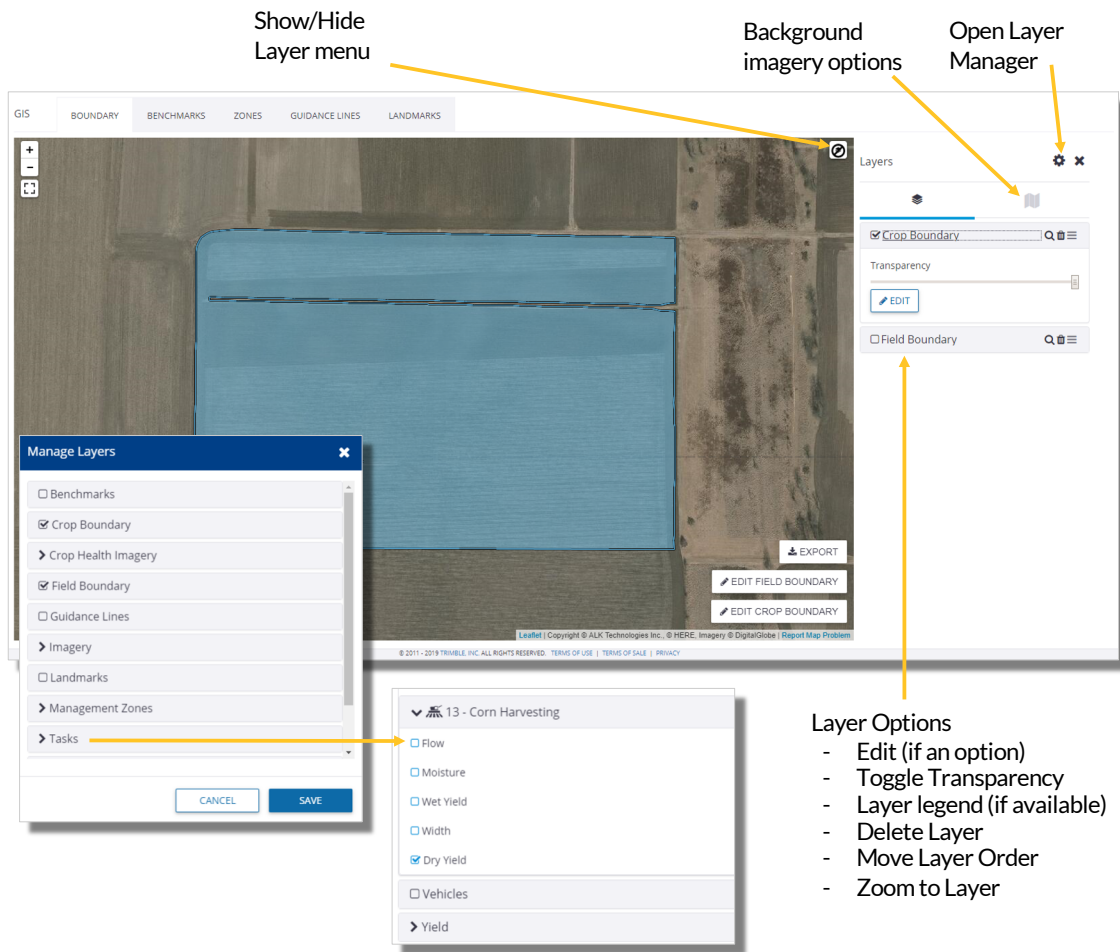
1. Open the **Equipment Activity** tab (Field>Equipment Activity)
2. Select the desired tasks with a check mark
 - all tasks for the report will need to be verified so that the system can generate the proof of placement pdf reports. If the Verify Activities window opens, select cancel or verify as appropriate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

0.6

Coverage Maps and Guidance Lines

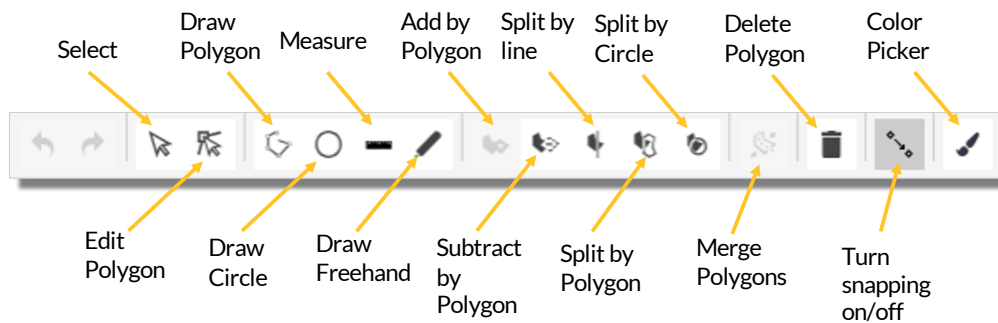
Online | GIS tools

FARMER CORE ONBOARDING



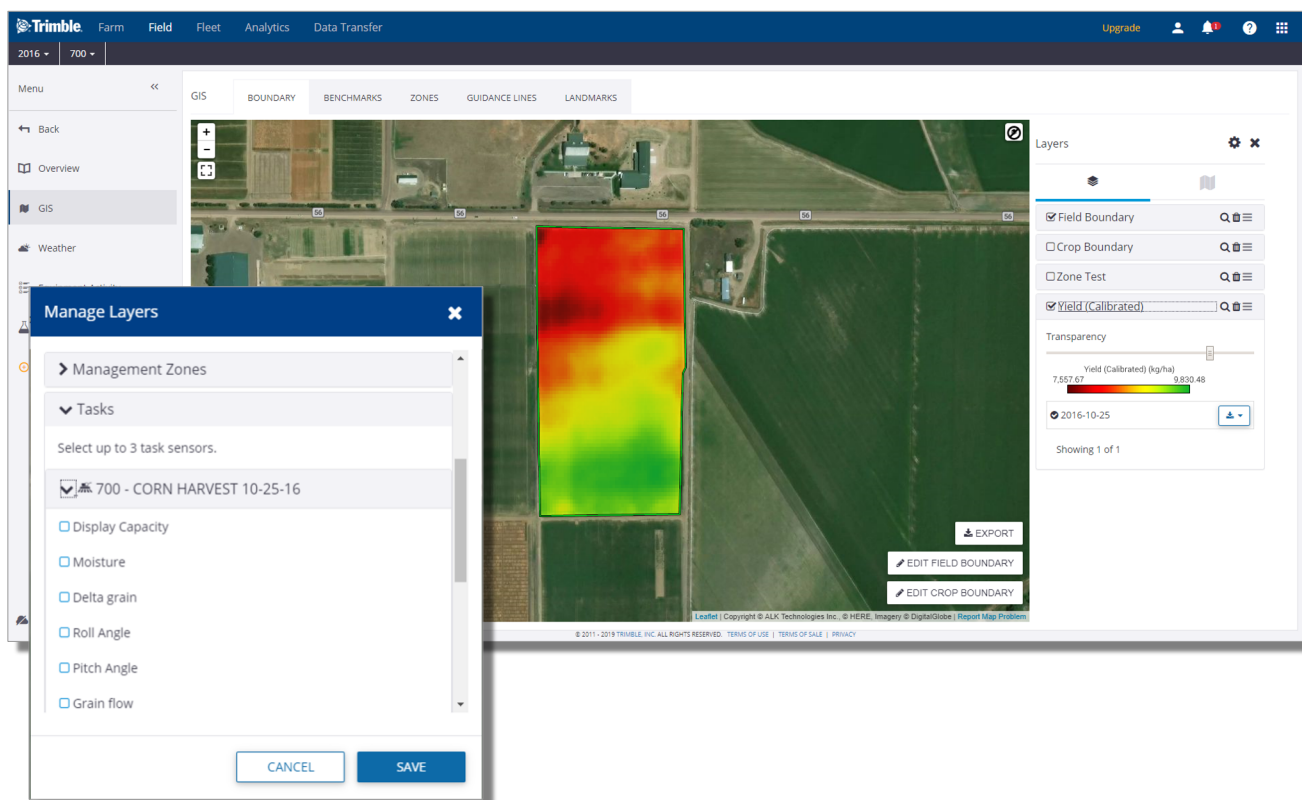
- Layer Options**
- Edit (if an option)
 - Toggle Transparency
 - Layer legend (if available)
 - Delete Layer
 - Move Layer Order
 - Zoom to Layer

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



Online | Map Layers

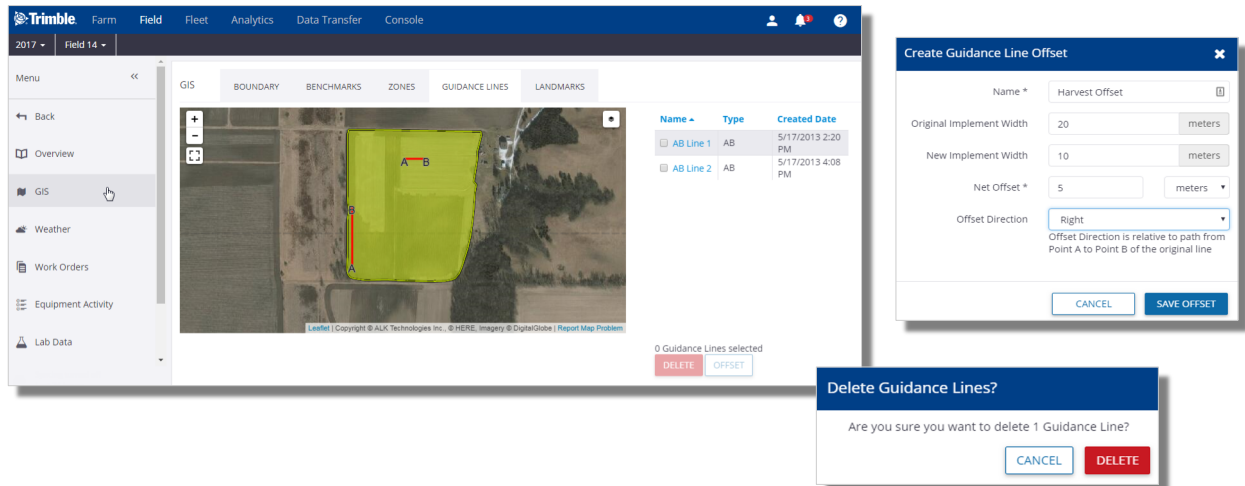
FARMER CORE ONBOARDING



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 CORE 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. To create an **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. To **Delete** a Guidance Line
 - Place a checkmark next to the original line
 - Click the **Delete** button

John Deere Guidance line update:

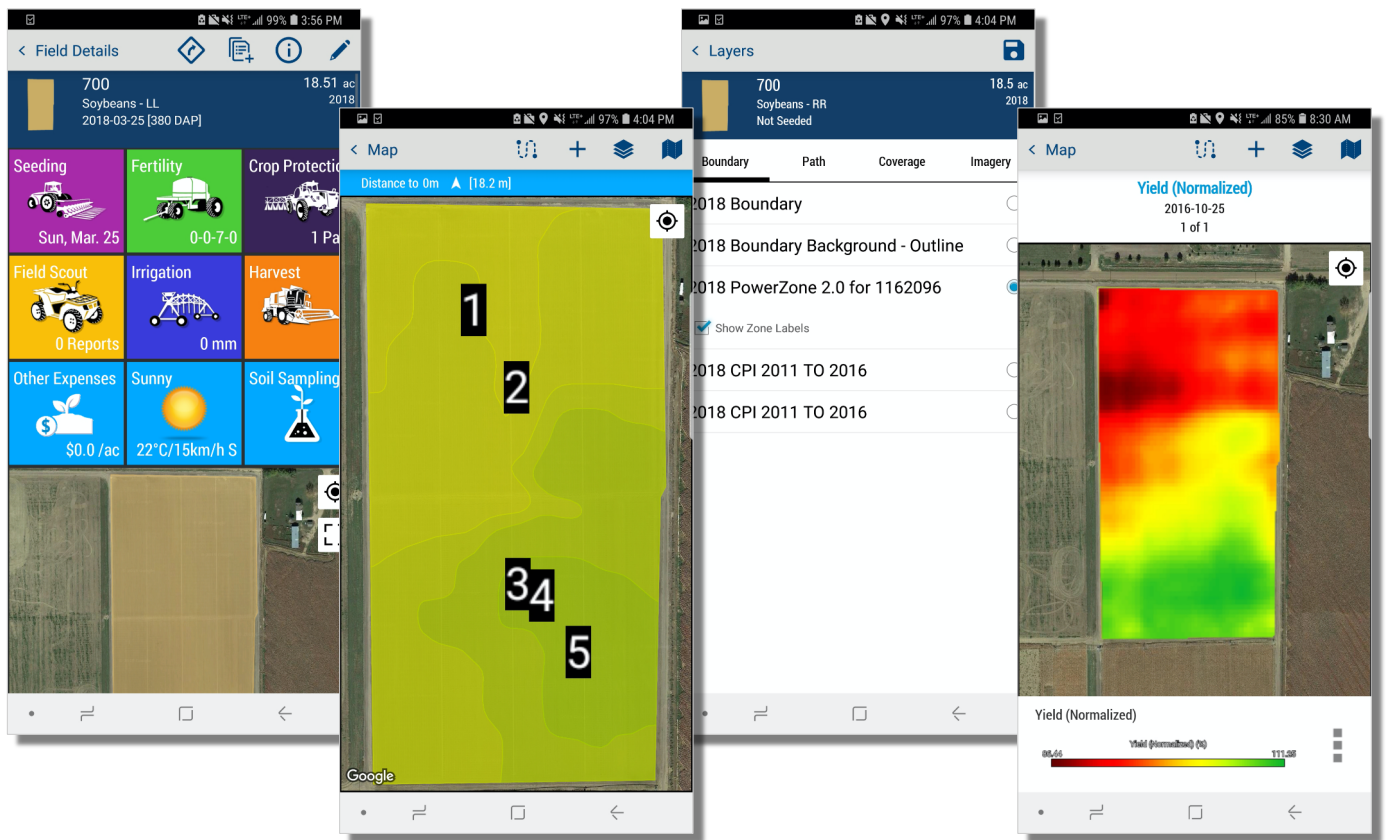
With the 6.50 release of Precision-IQ, John Deere runlines can be added to a field's data set. Using an Advanced Guidance 1 license in the display, a merge option has been added to Precision-IQ's Data Transfer feature. Use this option to transfer and merge a John Deere runline into an existing Precision-IQ field. Once merged, the line can be quickly calibrated and the lines will AutoSync between all connected devices and be accurately used in the field on any Precision-IQ display with the Advanced Guidance 1 licensed installed.













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

Mobile | Map Layers

FARMER CORE ONBOARDING



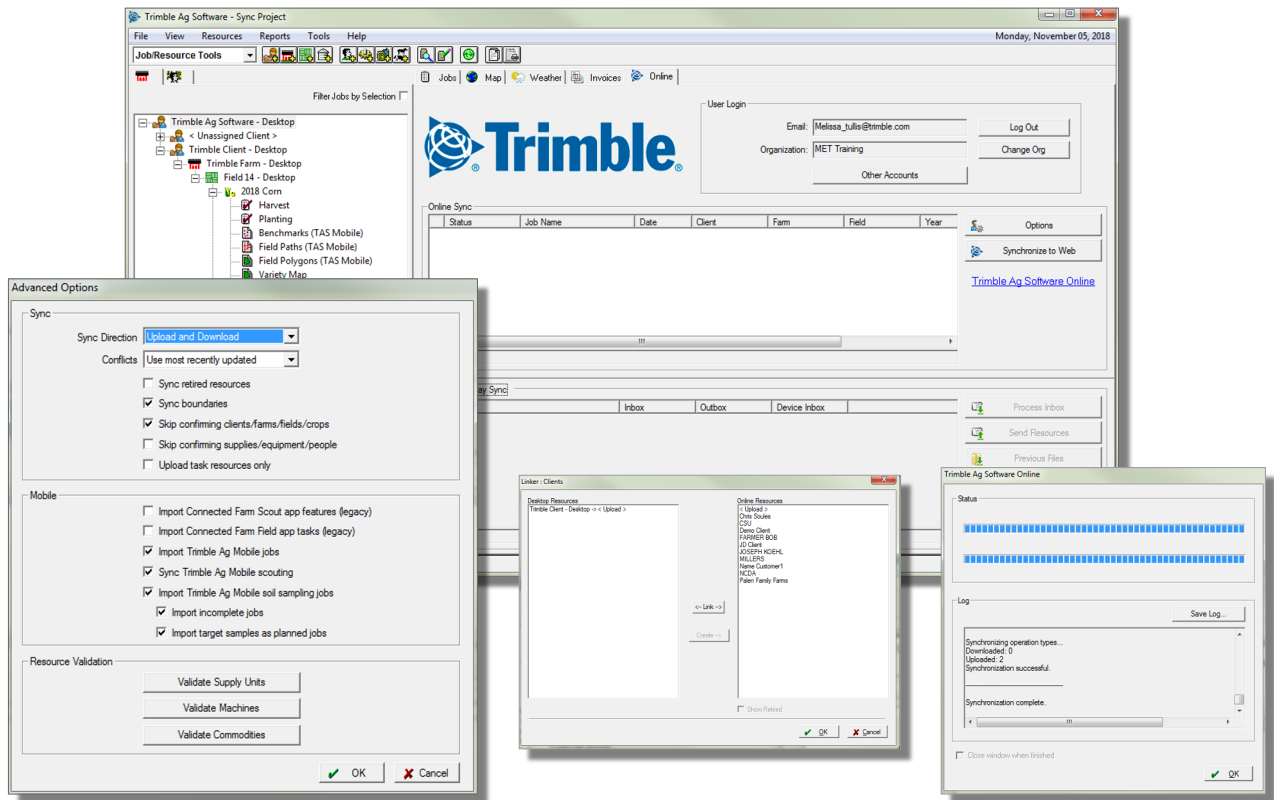
1. You can turn on various mapping layers from any of the mapping windows, ie. Field page, Scouting page, etc.
2. Tap the **Expand** button () > find and tap on the desired layer > tap **save**
3. Some surface layers have multiple layer options. Tap the 3 buttons () beside the legend to view other related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

0.7

Desktop Sync (previous desktop customers)

Online| Sync from Desktop: Resources

FARMER CORE ONBOARDING

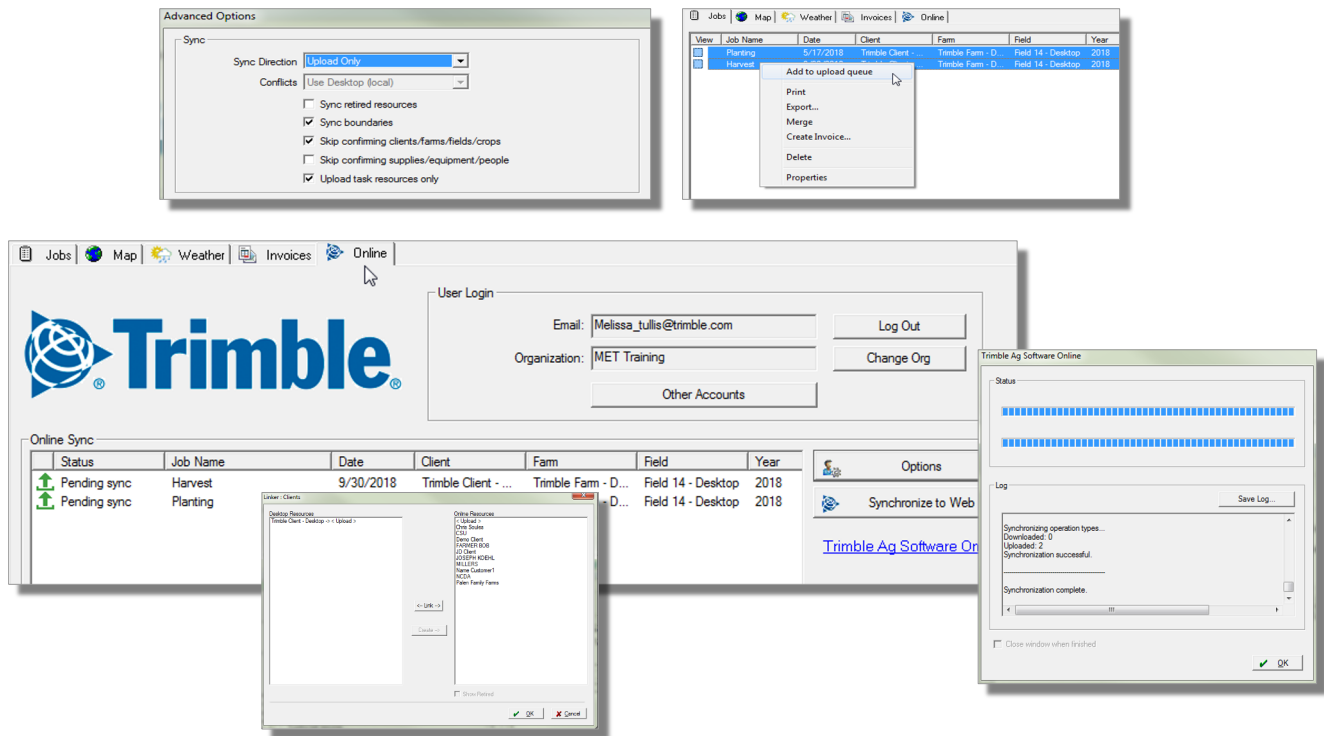


1. Open the Desktop Software
 - Click on the **Online** Tab
 - Enter the email address for your Online Account
 - Select the Organization with which you want to sync
2. Click **Options** in the Online Sync section
 - Configure the **Sync Direction**
 - Configure **Conflicts** for resolution priority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