

Getting Started with Farmer Pro

User Guide for Trimble Ag Software | Farmer Pro



Edition 6 | November, 2020

Highlights:

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

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



Trimble Ag Software Workflow

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

Product Comparison Chart

FARMER PRO ONBOARDING

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

Product comparison

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

0.1. Account Setup and User Access	 a. Login for Online and Mobile b. <u>Software Settings</u> c. <u>Support</u> for Online and Mobile d. Online Marketplace e. Online Widgets 	Page 8
	 a. People Contacts Operators and Display Shared Equipment Data Vehicles Modem and Telematics Trimble Display Setup Implements Fleet Fleet Fleet Management Vehicles and Groups Vehicle History and Sensors Alerts Utilization Materials Adding Chemicals Adding Tank Mixes Adding Material Purchases Inputs and Materials Summary Adding Purchases via Mobile Farm and Fields Adding Clients / Farm / Field Adding Fields and Boundaries (Bulk) Creating Field Boundaries on Mobile Farm Maps Top Rotation Plan Planner / Budget Bins and Contracts Grain Contracts and Storage Online Grain Contracts and Storage on Mobile 	Page 17



FARMER PRO ONBOARDING

0.3. Uploading Data	 a. Equipment Data Upload Option 1: API Connection Option 2: Trimble Display Option 3: Manual Import Additional Data Uploading Tips Verifying Task Manage Equipment Activity Online Manage Files Online b. Generic Data Upload Import UAV Imagery Add Soil Moisture Probes c. Yield Data Upload / Cleaning Yield Cleaning Tool Import Naw Yield Data Import Yield from Shapefile Yield Cleaning 	Page 65
0.4. Executing In- Season Agronomics	 a. Soil Sampling Upload Benchmarks Online Upload Lab Data Online Mobile Grid Soil Sampling Online Tissue Samples b. Management Zones Manual Zone Creation Uploading Management Zones Creating Management Zones in Mobile c. Applications Using the New Field Manager Add a Task Additional Field Events Legacy Field Manager Reviewing Applications Online Adding Applications via Mobile d. Prescriptions Prescription (Quick Blender) 	Page 85

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FARMER PRO ONBOARDING

0.4 Executing In- Season Agronomics	 e. Weather i. Using Ag Premium Weather Online f. In-Season Imagery i. Crop Health Imagery Online and Mobile g. Crop Scouting i. Managing Scouting Data Online ii. Scouting via Mobile h. Post-Season Reports and ROI Analytics i. Online Reports ii. Online Harvest Data and Profitability Maps 	Page 120
0.5. Standard and Display Work Orders	 a. Standard Work Orders i. Managing Work Orders Online ii. Managing Work Orders for VRA iii. Mobile Work Orders iv. Mobile Work Orders for VRA v. Mobile Work Orders for Guidance Lines b. Display Work Orders i. Auto Sync Feature 1. Auto Sync Summary 2. Auto Sync: Requirements and Setup Steps 3. Step 1: Setup Vehicles in Online 4. Step 2: Cleanup, Backup and Update 5. Step 3: Connect Display to Internet 6. Step 5: Enable Auto Sync in PiQ 7. Step 6: Monitor Synchronization in PiQ 8. Set up: Auto Sync Service App in PiQ 9. Set up: Operator Display Sign In ii. Work Orders 1. Requirements and Setup 2. Work Orders Turn On in Online 4. Create a Work Order with Flat Rate 5. Create a Work Order with VRA Rx 6. Display Visualize and Execute Work Orders 7. Display Change Vehicles Profiles 8. Display Create a New Work Order 9. Disable Work Order Display and Online 10.Monitor Operator Sign In from Online 	Page138

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0.1

Account Setup and User Access



Online Account Setup

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

In this session you will learn:

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



Online | Login

ģ	•Trimble	AboutUs News&Updates → Blog Trimble.com Q.Q. f in y 25 ©	
Ag	riculture	Products Solutions - Support How to Buy Login	
	Login		
Ξ	Trimble Reseller Login	Software Customer Login	
	Trimble resellers can access sales tools, information, and	Software customers can log into Trimble Ag Software by clicking	
	resources on the Channel Resource Center with their SSO (Ag Partner Site Login Credentials).	the button below. First time Timble Ag Software users can follow <u>these directions</u> for setting up an account.	
	Charmel Resource Center	Timble Ag Software Login	
	Email address Password Sign in Stay signed in	ble.	
	Create new Trimbl	le 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



- 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.

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Mobile | Software Settings

	?:Trimble . Farm Field Fleet Analytics Data Transfer Co
	018 - Jump to field -
	Language
	Language Language is determined by your browser language settings.
	Time Zone (required)
	(UTC) Coordinated Universal Time
TABS Training - Advisor Client	
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Account	Last Location (required)
Search	Field Name
Advisor Company	Unit System (required)
	U.S.
Advisor Company - Internal PWB/ACT)	Customize Unit System
Agri-Trend Agrology	Unit Systems
Brent Chenier	Area
*	U.S. •
MANAGE ORGANIZATIONS	Depth
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	Speed
	U.S. •
	Weight
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	0 20

- 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.



Online Support

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Ag Business Solutions	About Us 👻 Solutions 👻 News & Updates 🛩 Blog S	upport	TAKE A TOUR LOG IN	
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- The Software Support page can be reached by clicking on the Support button (2) > 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)



Mobile | Support/Settings

FARMER PRO ONBOARDING

			С		77% 🗎 12:59 PM
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Support:

1. Log into Mobile App with Farmer Pro credentials

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

Settings:

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



Watch this <u>video</u> to learn more.



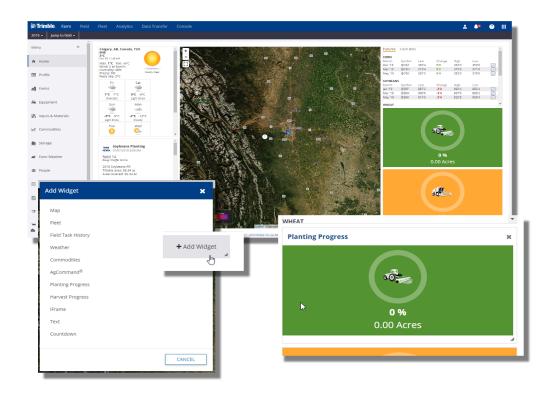
Online | Marketplace

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



Online | Widgets



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



0.2

Planning Crop Season



Online Planning Season

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

In this session you will learn:

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



0.2.a

People



Online | Contacts FARMER PRO ONBOARDING

	(©:Trin	nble . Farm	Field	Fleet	Analytics	Data Transfer					±	4 0	
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	💼 Stor	age	- 1		John Farmer		Owner					Ø	ŵ
			- 1		Robert Farmer	<u>_</u>	Operations Manager		303-55	55-1213	bob@email.com	Ø	ŵ
	💣 Farr	n Weather	- 1		Johnny Greenth	numb	Agronomist		408-55	5-0078	johnny@email.com	Ø	ŵ
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- 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







Online | Operators & Display Share

D 👻 Jump to field 👻	~					Availability		UPDATE PHOTO	Iquipment Operator Gro Applicator 78/794563 Ukrense Unit Cost / hr	up01) CSU Staff CSU Staff Fleet Group Innew operator
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- 1. Add New Operators
 - a. Select Manage > New Operator
 - b. Configure Contact Properties
 - c. Select the Equipment Operator tab to include Applicator License, assign to a Group (optional), and configure Trimble Display Access
- 1. Send To Vehicles: Send the list of operators to connected **FmX** displays
 - a. Select Manage > Send to Vehicles
 - b. Select the operator names
 - c. Select the vehicles
 - d. Click the Send button
 - → Please note this functionality is only for FmX displays:
 - TMX displays utilize the Operators App to download the list of operators
 - PIQ displays utilize AutoSync to sync the list of operators from Trimble Ag Software



0.2.b

Equipment Data



Online| **Planning Season: Equipment**

FARMER PRO ONBOARDING

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

In this session you will learn:

- $\circ~$ 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

Trimble

Online Vehicles

**	EQUIPMENT	VEHICLES	IMPLEMENTS IRRIG/	ATION SYS	TEMS DEVICES						L 1
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- 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
- 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 <u>User Guide</u> or <u>FarmStream setup guide</u>)
- 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





Online | Modem and Telematics

FARMER PRO ONBOARDING

Attached Devices		
Display Device	Unassigned	•
	🌣 Add	Display Device
Telematics Device	Unassigned	•
0		ematics Device

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

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



Online | Trimble Display Setup Items

FARMER PRO ONBOARDING

ystem [Syste	m]		Setup	OPERATION	IMPLEMENT	_	PRODUCTIVITY	SUMMARY
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Traditional Fleet - DCM-300

Farmstream - PIQ

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

Farmstream Fleet Setup Guide Fleet Help Document

- 1. Farmstream
 - FmX Display or FmX+ App
 - $\circ~$ Display device is assigned to a vehicle with a Trimble Vehicle License
 - $\circ~$ Activate the FarmStream Fleet plugin
 - Setup the Port
 - Configure Implement Reporting
 - Configure Vehicle Monitoring
 - PIQ App
 - $\circ~$ Display device is assigned to a vehicle with a Trimble Vehicle License
 - $\circ~$ Turn On Enable Operators, then configure Productivity Thresholds under vehicle settings
 - $\circ~$ Log into the Operator App to track who is using the vehicle
 - o Install the Utilization App and setup for Auto Start to collect utilization data
- 2. Traditional Fleet
 - Display device is assigned to a vehicle with a Trimble Vehicle License
 - Telematics device (DCM-300 modem only) is assigned to a vehicle with a Trimble Vehicle License



Online | Implements

enu	~~	EQUIPN	IENT	VEHICLES	IMPLE	EMENTS	IRRIGATION SYSTEMS	DEVICES		
Home		Ф ME	RGE 📋					□ Show Retir	red (*) + ADD	IMPLEME
Dashboard		Impl	ement			Group		Cost	Profiles 🔒	
		🗆 Ai	r Seeder					\$0.00 / ac	1	Ø
Profile		🗆 Ar	nie					\$0.00 / ac	1	Ø
Farms		🗆 Di	sk					\$0.00 / ac	1	Ø
-		🗆 fe	b2019					\$0.00 / ac	1	Ø
B Equipment		G	eneric PWM Sto	I ISOBUS VR				\$0.00 / ac	1	Ø
Inputs & Mat	orials	G	eaner					\$0.00 / ac		Ø
	EQUIPMENT	VEHICLES	IMPLEMENTS	IRRIGATIO	N SYSTEMS	DEVICES	5	- P	1	Ø
Commodities	Implement Pro	perties								Ø
Storage	Name *	Air See	der			Pro	ofiles			Ø
	Operation Type			•		Profi	iles are created on you	ir display and use a	ditional	Ø
	Equipment	t Unass	-		+	deta	ils to complete tasks o be added if your equip	n your display. Muti	iple profiles	
	Unit Cost		/ ac			• G • Ti • Xi	ported Displays FX-750 MX-2050 CN-1050 CN-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. Profiles are created on your Trimble display and use additional details to complete tasks on your display. Multiple profiles can be added if your equipment has more than 1 setup.
- 4. Click Save to save this vehicle
 - a. Use the Edit button to edit the properties of any existing vehicles on the list.



Online | Auto Asset Detection

FARMER PRO ONBOARDING



Beacon 🕕

Save Time Setting Up Display Tasks

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

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

)))))))))))))))))))))))	ible . Farm	Field	Fleet	Analytics	Data Transfer				±	A ?	
2020 -	Jump to field 🗸										
»»	EQUIPMENT	VEHIC	LES	IMPLEMENTS	IRRIGATION SYSTEMS	SOIL MOISTURE PROBES	DEVICES				
÷.	C MERGE	Û							Show Retired (*)	ADD IMPLEN	IENT
s	Implement			G	iroup	Beacon		Cost	Profiles 🜖		
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	20ft Disk							\$0.00 / ha	1	Ø	
ലി	🔲 43" 2 Shank	Straddle						\$0.00 / ha	0	ľ	•
	Big Disk							\$0.00 / ha	0	Ø	
5 8	Demco 120	0						\$0.00 / ha	0	ľ	•
3	Disk Copy							\$0.00 / ha	6	ľ	
-1	Disk Copy 2	2				💽 test beacon id		\$0.00 / ha	1	Ø	•
<i>.</i>	Disk IH20 s	dfg						\$0.00 / ha	0	Ø	
8)	Pull Type Sp	orayer 3chr	n			12:34:56:78:11		\$0.00 / ha	1	Ø	
1969-07	Pull Type Sp	orayer_12						\$0.00 / ha	0	đ	
*	Pull Type Sp	orayer				test123		\$0.00 / ha	1	ľ	•
*	Pull Type Sp	orayer 1chr	n					\$0.00 / ha	1	đ	
•	Pull Type Sp	orayer 2 ch	annel					\$0.00 / ha	0	Ø	•
6					© 2011 - 2020 TRIMBLE, INC. ALL RIGE	ITS RESERVED. TERMS OF USE TERMS OF S	ALE PRIVACY				

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

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



0.2.c

Fleet





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

In this Session you will learn:

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



Online | Fleet Management

FARMER PRO ONBOARDING

): Trimble . Farm	Field	Fleet Analytics	Data Transfer								± .	? Ⅲ		
	2020 - Jump to field -														
	Menu	«													
	Werld		Vehicle Name or Alert	Name								MANA	GE 🕶		
	🈹 Vehicles		Vehicle List	Date Last Repo Relative Time	rted -	Last Known Status 🛛 🖯	Engine Hrs	La	st Location						
	Alerts		O Combine										Ð		
			O EMEA										Ð		
	Operators		Odeneric										Ð		
	Lutilization		O Sugarcane Harve	ster									Ð		
			O Tractor							Active Fit This Week	er Alert Type: All				
										Type 10	Alert Name	Detail	W	ehicle	Date/Time
			C Tractor - Large R	ow crop							Seavorth's Farming			ananiti ja 72008	11/62/2010 9/2
			APMD #1	A		no current status	0.00	Ur	known		Seasanth's Farming		5	annarth JD 72508	11.05/2016 7:0
			alle.					2/2			Seavorth's Farming			anarth JD 83298	10/31/2018 7:0
			at CSU JD	7 days ago		no current status	5,621.60	2()	days ago)		Seaventh's Farming			anverth (D 83208	10/30/2018 51
			7820							10	Seawards's Farming		5	answerth JD 83208	10/36/2018 64
			Mar CSUUD	0 hours ago		• Off	2,947.00	In	2	U	Seaward's Farming			anarth JD 72008	10/36/2010 74
0	all *						2.547.00			1.00	ARDCC	Ceclesce		H TEADS	10/36/2018 42
ge Row Crop 🗆	*	Start time:	Duration in	hours: 24	evering 0			70)(3 days ago)	*	radec CSUs farming	Gaptonas		H TE 425	10/36/2018 9/1
te wan ereb	11/01/2018	8:00 AM	*		 Speeding Working Rushing 	Off Off	71.90	/0	(5 dd)5 d80)	W	COLUMN	_		nu ju katok	_
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CSU JD 7820		g Moving Stop	oped Machine States				_	_	_	-	_	_	•		
SU JD 8295R															
QH T8.435	24.00 3.32	0.00 0.00										A	vailability		
10.430							Operator Name	Login	Job Title		Groups		All T		
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	3.79 0.71	0.00 0.30					Collins, Mark	mcollins			CSU Staff	A	ctive		
eaworth JD 8235	👗 CSU JO 8295R						Demo for FWIM, CF	CDemo for FWIM5566				A	ctive		
eaworth JD 8320R							Demydenko, Sergii	Demydenko			Trainee	A	ctive		
		0.00 5.68									CSU Staff				
all Row Crop 🛛			8 10 12pm 2 4	6 8 10 12am 2 4	6 8		Hodson, Kevin	124			new operator		ctive		
all Row Crop	All														
	All +						Hodson, Kevin	124			Test Trainee	^	ctive		

- 1. Click Fleet tab
 - a. View and Manage the vehicles in your fleet
 - b. Configure Alerts and Geofences
 - c. View the list of Operators (active and inactive)
 - d. View the Utilization data for all or a subset of your vehicles over a selected 24 hour period

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

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

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



Watch this <u>video</u> to learn more.



Online | Vehicles and Groups

•imble. Farm	Field	Fleet Analytics Da					± ♠ ❷ Ⅲ
	1						
nu	~	Vehicle Name or Alert Name					🗢 MANAGE 🍲
Vehicles		Vehicle List	Date Last Reported - Relative Time	Last Known Status 🛛 \\ 0	Engine Hrs	Last Location	Manage Groups
		O Combine					New Vehicle Delay Thresholds
Alerts		O EMEA					Export Vehicles Configure Columns
Operators		O Generic					E Connigure Columnis
Utilization		O Sugarcane Harvester					Ŧ
Guizadon		O Tractor					Đ
		• Tractor - Large Row C	rop				Ð
		APMD #1	A	no current status	0.00	Unknown	
		at csu jd	7 days ago	no current status	5,621.60	2(7 days ago)	
		7820				Manage Vehicle	e Group
		CSU JD 8295R	8 hours ago	Off	2,947.00		F
		NH T8.435	an hour ago	Off	71.90		+
		Seaworth	12 minutes ago	 Working 	0.00	I	
	_	JD 7260R					
						Choose	• 🕑 🛍
_				-		Choose Combine	
М	anage \	ehicle Group	×			CSU	
	Ŭ					EMEA	
						Farm A	
1	lew Grou	p Name	+ (hr)			Generic	
_						New Group Nam	
						Northeast Farm	
			A			Sprayer	
	-boose					Sugarcane Harve	ester
	Choose	•					
	Choose	•				Test	
	Choose	•				Tractor	
	Choose	•				Tractor Tractor - Large R	
	Choose					Tractor Tractor - Large R Tractor - Small R	
	Choose					Tractor Tractor - Large R	

- 1. Click Fleet tab > Vehicles
 - View a list of Vehicles that have been added in your organization
- 2. Manage Vehicles by clicking 🏶 MANANGE 🔻
 - 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

()):Trim	ble . Farm Field	Fleet Analytics Data Transfer				⊥ ♠ Ø Ⅲ	
2020 -	Jump to field 👻						
Menu	~~	Vehicle Name or Alert Name				A MANAGE	L
🖧 Vehic	es	Vehicle List Date Last Reported - Relative Time	Last Known Status 🧕 \end{split}	Engine Hrs	Last Location	Manage Groups New Vehicle	
Alerts		© EMEA				Delay Thresholds Export Vehicles Configure Columns	
🚨 Oper	itors	O Generic				ŧ	
🕒 Utiliza	tion	O Sugarcane Harvester				Ŧ	
		O Tractor				Ð	
		• Tractor - Large Row Crop			Unknown	±	
		🦾 APMD #1 🔼	no current status	0.00			
Fuel Level Orgonized Orgonized Crop Vehicle Type Tractor - Large Row Crop	Last Known Status Telematics Devic Off 5238598899 (DCM 300)	e Display Device Manufacturer Last Location (? FarmStream () I- 4924511161 (FmX) John Deere In swanson south Off	no current status Off	2,947.00	2(7 days ago)	ff 5231592310 (Fmix)	Last Location C FarmStrea
story Sensors Alerts	Files	Legen	o Off	71.90	BLOW Engle Tenge Res Clap History Sensors Alerta Engline Hours 1,772,30 h		
1018 M			erg erg arg	0.00	11/01/2018 Engine Load 0.00 %	11/01/2018 11/01/2018 Ingine Gil Pressure for Nov 1, 2018 to Nov 1, 2018	
in hours: 24	merson south				Engine Oil Pressure 236.60 kPa	400	Valu
nes connecting previous	NO.				11.01/2018 Engine Speed 1.153.59 rpm	300	
eld boundaries nes by machine state postions by machine state					ruel Level 38.00 %	300 300 270	
Alerts			Tractor - Status orth JD Fuel Level Large Row Off Crop	Device Device John De 5231592310 5121539957 (DCM-300) (FmX)	eere Location 2 0 pivot(6 days Off ago)	240	<u> </u>
cation history for this vehicle on ed date.		abaday!	History	Sensors Alerts		1.208 1001,101 101,101 101,100 1001,100 1001,101	2018 11.40 MM
EXPORT			APPLY Na	Da me Size Status Up 339	bloaded		
	19	Loginal Copyright © ALK Technologies Inc., © HERE, Imagery © DistrikCope		erators.zip Bytes Sent 11/			

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



Online Alerts

	Section 2020 - Jump to field -	Field Fleet Analytic								1	▲ ? Ⅲ
	Menu	« Q FILTER BY	CLEAR FILTER	Active Fi This Wee	ilter k; Alert Type: All					c confi	gure 🔀 🏛
	Hence Vehicles	O Combine		All Type	Alert Name	Detail	v	ehicle	Date/Time		- 18
	Alerts	O CSU		U III	Seaworth's Farming		s	eaworth JD 726	11/02/2018 9:31:23 AM		Q
		O EMEA			Seaworth's Farming		s	eaworth JD 726	11/02/2018 9:30:19 AM 11/01/2018 7:00:01 PM		\$
	Operators	O Farm A			Seaworth's Farming Seaworth's			raworth JD 726	10/30/2018 7:00:02 PM		9
	🕒 Utilization	O Generic	0		Farming	Geofence:		eaworth JD 726 H T8.435	10/30/2018 4:31:40 PM		9
		O Northeast Fa	irm 🗆	All 🌮	ARDEC	Geofence:		H 18.435	10/30/2018 2:51:28 PM		Ŷ
		O Sprayer	0		CSU's Farming			SU JD 8295R	10/30/2018 9:16:55 AM		Q
		O Sugarcane H	arvester 🗆		CSU's Farming			SU JD 8295R	10/30/2018 9:15:38 AM		- U
								MANAGE 🗸	W29/2018 7:00:02 PM		•
уре	Name	Vehicle	•	Contac	ts				W29/2018 9:05:59 AM	Geofence	•
Geofence	Andrew's Farm	18 Vehi	cles	1 Conta	ict		New Aler Geofence	ß-	N29/2018 9:04:41 AM N28/2018 9:13:43 AM	Nain Farm Geofence	
🚱 Geofence	ARDEC	8 Vehic	les	1 Conta	ict		Contacts	5 0	W28/2018 9:12:44 AM	• + × × 5 60 - / • • • € € €	S 🔒 🔨
Geofence	big piney alert	1 Vehic	le l	1 Conta	ict			e 1		Constant port	
	Alert Data							_			Chanse port
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Curfew	New Alert	8 Veh		• •		/pe Last Knowr			ay Device Manufacturer		
Seofence	Alert Type	34 Vel	Seawort Fuel	Level	Row Crop	arge Status Off	Device 5238598		511161 John Deere)		
	© Curfew 🖲		h JD 726 No Data 0R	Reported			(DCM-30)))			
	Geofence 0 Machine Alert 0		Tractor - Large Row Crop		Histo	rv .	Sensors	Α	erts File:		1
	Ignition () Rushing ()					Active Filter				Lander I Copyright & ALX Technologies Inc.	B HERE Inagory & Digital links
	Alert Details		Q FILTER BY •		CLEAR FILTER	None					CANCEL
	Frequency 0 Minute(s)		Type Al	ert Name			Detail		Date/Time		
	Alert when ignition is:		Se Se	aworth's Far	ming				11/02/2018 9:31:23 AM	Q	
	le off		600	aworth's Far					11/02/2018 9:30:19 AM	Q	
	Vehicles		6.002		-				11/01/2018 7:00:01 PM	\$	
				aworth's Far					10/30/2018 7:00:02 PM		
	O Combine		PA	aworth's Far	ming					Ŷ	
	♦ CSU		C Se	aworth's Far	ming				10/29/2018 7:00:02 PM	♥	

- 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
Machine AlertsRushing Alerts	Curfew AlertsGeofence AlertsCreate Geofence
	 Ignition Alerts



Online Utilization

lenu «	O Tractor		^	*															€
Vehicles	• Tractor - Large Row Crop			Date:			Start tin				Duration	in hours:	24			=		Moving O Speeding Working	
Alerts	🗆 🚜 APMD #1	A		11/01/2018			8:00	AM		•								Rushing Stopped Delayed Off No GPS	
Operators	🗆 🚜 CSU JD 7820		l	Vehicle	Total hours	Working	Moving	Stopped	Machine	States									
Utilization	🗷 🏄 CSU JD 8295R		1	seaworth]	D 7260F	2													
	NH T8.435		I		24.00	3.32	0.00	0.00											
				as Seaworth J	D 8320F	2													
	🕑 🚜 Seaworth JD 72	60R																	
	🗆 🚜 Seaworth JD 82	35			3.79	0.71	0.00	0.30											
				a csu jd 829	95R														
	Seaworth JD 83.	20R																	
	• Tractor - Small Row Crop				8.65	0.00	0.00	5.68											
	O UK Testing								8 10	12pm	2	4 6	8	10	12am	2	4	6 8	
	Unassigned		*																

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
 - \circ Working, Moving, Stopped, Off, Speeding



0.2.d

Materials



Online | Planning Season Materials

FARMER PRO ONBOARDING

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

In this session you will learn how to:

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

Trimble

Online | Adding Chemicals

FARMER PRO ONBOARDING

Menu	«	INPUTS	& MATERIALS	CHEMICALS	FERTILIZER	S LIME	SEEDS WA	TER TAM	IK MIXES SUMM	ARY				I	
A Home		ę	MERGE								+ ADD	СНЕМІС	AL	I	
Profile		M	aterial		Qty. Purchased	Avg. Cost	Total Cost	Applied Area	Avg. Rate	Qty. Used	Balance			I	
Farms			2,4-D LV 4 Ester		0.000 gal	\$0.00	\$0.00	0.00 ha	0.00 gal/ha	0.000 gal	0.000 gal	1	•••		
_			Aframe		0.000 I	\$0.00	\$0.00	0.00 ha	0.00 l/ha	0.000	0.000 l	Ø			
Bequipment Equipment			JUWEL TOP		0.000 gal	\$0.00	\$0.00	0.00 ha	0.00 gal/ha	0.000 gal	0.000 gal	1	•••		
🖏 Inputs & Materials			Omni Brand Prop	iconazole 41.8% EC	0.000 gal	\$0.00	\$0.00	0.00 ha	0.00 gal/ha	0.000 gal	0.000 gal	Ø			
			ROUNDUP ORIGIN	NAL MAX	0.000 gal	\$0.00	\$0.00	0.00 ha	0.00 gal/ha	Chamic	al Search			-	
Commodities			Roundup Weathe	rmax	0.000 gal	\$0.00	\$0.00	0.00 ha	0.00 gal/ha	Chemic	al Seal Ch				
Storage		То	tal:				\$0.00				Name		Moc	1	_
	NPUTS & MATERI	ALS CH	IEMICALS FERTILIZERS	LIME SEEDS WAT	ER TANK MIXES	SUMMARY									
	Chemical Prop	perties								M	anufacturer		Bayer Cro	pscience	
	Use Chemical Sea	_	tional information about the	material.						Name			Ν	lanufacturer	
			CHEMICAL SEARCH	в	Manufacturer	Bayer Cropscience	2			MOCAP	10% GRANU	LAR	E	ayer Cropscience	
			insecticide	•	EPA #	264-465				MOCAP	15% GRANU	LAR (R)	E	Bayer Cropscience	
		Form *	Granular/Dry	•	Signal Word	Warning				MOCAP	15G LOCK N			Bayer Cropscience	
	Active Ing	redient			REI	48						LOND			
	Purchased		kilograms	•						MOCAP	EC (R)		E	layer Cropscience	
			i125.0 / kg					I							
	Applied	units *	grams	•						Request a	new chemi	cal to b	e added to	o the list.	

- 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
 - $\circ~$ 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
 - $\circ~$ 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





Online | Adding Fertilizers

FARMER PRO ONBOARDING

8 - Jump to fiel												-1		
enu	** INF	PUTS & MATERIALS	CHEMICALS	FERTILIZERS	LIME SEEDS	WATER	TANK MIXES SUN	MARY						
Home		D MERGE							+ ADD	FERTIL	IZER	L		
Profile		Material	Qty. Purchased	Avg. Cost	Total Cost	Applied Area	Avg. Rate	Qty. Used	Balance			н		
A Farms		0-0-15	0.000 t	\$0.00	\$0.00	0.00 ha	0.00 t/ha	0.000 t	0.000 t	Ø				
		10-34-0	0.000 l	\$0.00	\$0.00	0.00 ha	0.00 l/ha	0.000 l	0.000 I	Ø				
🗎 Equipment		🔲 16-0-0-20Zn	0.000	\$0.00	\$0.00	0.00 ha	0.00 l/ha	0.000	0.000 I	Ø				
톱 Inputs & Materials		Total:		WATER TANK M	\$0.00			Fertilize	e r Search Name	(FOL			
🕄 Inputs & Materials	INPUTS & MATERIALS Fertilizer Properties	CHEMICALS FERTILIZERS	LIME SEEDS	WATER TANK M			1	N					TH TECH.	
🕄 Inputs & Materials	Fertilizer Properties	CHEMICALS FERTILIZERS		WATER TANK M					Name				TH TECH. ufacturer	
Inputs & Materials	Fertilizer Properties	CHIMICALS FERTILIZERS ind additional information about the Q ESTITUZER SEARCH		WATER TANK M				Name	Name			Man		
E, Inputs & Materials	Fertilizer Properties	CHEMICALS FERTILIZERS ed additional information about the QERTILIZER SEARCH Toto Spray 12-5-40	material.	Nutrients Nitrogen	RIXES SUMMARY	% X		N Name Folo Spr	Name Ianufacturer			Man	ufacturer	
副 Inputs & Materials	Fertilizer Properties	CHEMICALS FERTILIZERS ind additional Information about the QESITILIZER SEARCH Tolo Spray 123-40 Granular/Dry	: material.	Nutrients	rixes summary	8 X 8 X 8 X		N Name Folo Spr Folo Spr	Name Ianufacturer ay 0-50-30			Man PLAI PLAI	ufacturer NT HEALTH TECH.	
E, inputs & Materials	Fertilizer Properties Use Fertilizer Search to fi Name	CHEMICALS FERTILIZERS and additional Information about the Q ESTILIZER SCARCH Folo Spray 12-5-40 Granular/Dry Nilograms	: material.	Nutrients Nitrogen Potassium	AICES SUIMMARY • 12.00 • 40.00	% ×		Name Folo Spr Folo Spr Folo Spr	Name Ianufacturer ay 0-50-30 ay 12-5-40			Man PLAI PLAI PLAI	ufacturer NT HEALTH TECH. NT HEALTH TECH.	
高 Inputs & Materials	Fertilizer Properties Use Fertilizer Search to fi Name Form Purchased Units	CHEMICALS FERTILIZERS and additional information about the CRESTILIZER SEARCH Fold Spray 12-540 Granular/Dry Nilograms 550.00 / kg	: material.	Nutrients Nitrogen Potassium Phosphorus	NXES SUMMARY • 12.00 • 40.00 • 5.00	s x		Name Folo Spr Folo Spr Folo Spr	Name Ianufacturer ay 0-50-30 ay 12-5-40 ay 20-20-20			Man PLAI PLAI PLAI	ufacturer NT HEALTH TECH. NT HEALTH TECH. NT HEALTH TECH.	

- 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
 - $\circ~$ Select the Fertilizer Name from the list
 - Supplement the details by listing the Nutrients
 - o 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 <u>video</u> to learn more.

Trimble

Online Adding Tank Mixes

± 🌲 🥹 🖩 mo 2018 - 2019 + 2018 + Jump Menu INPUTS & MATERIALS CHEMICALS FERTILIZERS LIME SEEDS WATER TANK MIXES SUMMARY A Home Tank Mix Properties Profile Name * Ingredient \$25.00 / gal 0.10 gal / ac Durango Form * Liquid A Farms \$40.00 / gal 0.50 gal / ac Carrier - Equipmer + ADD ING Default Rate 10.00 gal / ac 🔄 Inputs & Mater Define mix as rates O Define mix as quantities Select Material(s) Mix Rate * 10.00 gal / ac × Storage Mix Cost \$2.25 / gal 🕒 🗉 Chemical 💣 Farm Weathe 4 People 🖸 🔲 Fertilizer Lime 🛤 Time Tracker De Water Documents Crain Contracts ate quar \$2.25 CANCEL ОК

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
 - $\circ~$ check of Define mix as rates
 - Mix Rate: 10 gal/ac
 - \circ Ingredients
 - Select Durango
 - Cost: \$25.00/gal
 - Rate: 0.10 gal/ac
 - Select Atrazine 4L
 - Cost: \$40.00/gal
 - Rate: 0.50 gal/ac
 - Click Save



Online | Adding Purchases

FARMER PRO ONBOARDING

8 • Jump to field •								2 4 166	? 🏢		
nu «	NPUTS & MATERIALS	CHEMICALS	FERTILIZERS	LIME SEEDS 1	WATER TANK MIXES	SUMMARY					
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Profile	Material	Qty. Purchased	Avg. Cost	Total Cost	Applied Area	Avg. Rate	Qty. Used	Balance			
Farms	0-0-15	0.000 t	\$0.00	\$0.00	0.00 ha	0.00 t/ha	0.000 t	0.000 t	3		
	10-34-0	249.932 l	\$10.60	\$2,650.00	0.00 ha	0.00 l/ha	0.000	249.932 I	··· ·		
Equipment	16-0-0-20Zn	0.000	\$0.00	\$0.00	0.00 ha	0.00 l/ha	0.000	0.000 I	z		
Inputs & Materials	Folo Spray 12-5-40	0.000 kg	\$0.00	\$0.00	0.00 ha	0.00 kg/ha	0.000 kg	0.000 kg	z		
	My Custom Fertilizer	4.990 kg	\$88.18	\$440.00	0.00 ha	0.00 kg/ha	0.000 kg	4.990 kg	g		
Commodities	Total:			\$3,090.00							
•	UPDATE TASK COSTS	UPDATE MATER	IAL UNIT COST	1							
urchase Details	×			_							
0-34-0	i										
Date 06/04/2018 Quantity Purchased 250.000 I		IN	PUTS & MATER	RIALS CHEMICALS	FERTILIZERS LIP	IE SEEDS	WATER T	ANK MIXES	SUMMARY		
Price \$10.00 /1			Castiliana a d	0.24.0							
Tax \$150.00			Fertilizers > 1	0-34-0				+ CARRY O	VER Purch	nases & Use 🔻	+ NEW PURC
Total Cost \$2,650.00	· · · · ·		Date	Field/Invoice	Avg. Co	st Total Cost	Applied Area		Avg. Rate	Qty. +/-	Balance
Ø Update Material and Tasks for 2 ptional Details	1018		06/04/2	2018 31579542	\$10	60 \$2,650.00				249.932 I	249.932 l
Vendor Crop Health Experts			Total:		\$10.	60 \$2,650.00				249.932 l	
Invoice # 31579542											
Notes											

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

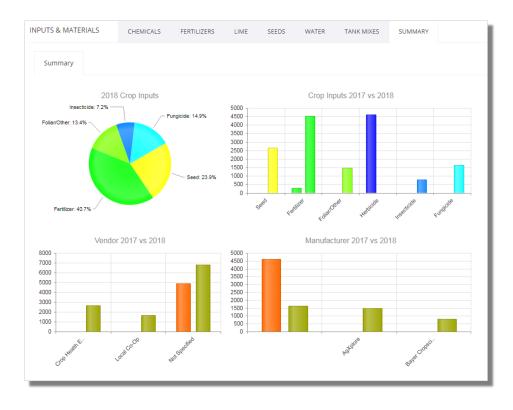
Optional:

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



Online | Inputs and Materials Summary

FARMER PRO ONBOARDING



Click Farm tab > Inputs & Materials > Summary

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

Trimble

Mobile | Adding Purchases

FARMER PRO ONBOARDING

Image: A the second	96% 🖿 2:30 PM									<a>€ B C			© ^{t∏e*} ⊿ill 96'	% ■ 2:31 PM +
Brent Chenier 2018	Inputs	图书 鍛 谓"」					< Cro	De Inputs	8 % ₩ ₩*1 96'	+	-0		Amount	
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	Ş0 Far	\$130		< Crop Input:			8	00	Balance	e 0.064 MT	Ľ	5.00 (20.00 lb)	\$20	\$100.00
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- 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**
 - o Date: Sun.Jan 28
 - Quantity: 8
 - Product Size: 1 MT
 - Product Price: 634
 - o 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.



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Farm and Fields



Online | Planning Season Farm / Fields

FARMER PRO ONBOARDING

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

In this session you will learn:

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



Online | Add a Crop and Crop Season

FARMER PRO ONBOARDING

	d Fleet Analytics Data Transfer Console			± ♣ @ Ⅲ	
2018 • Jump to field •					
Menu «	COMMODITIES CROPS COMMODITIES CROP SEASONS			1	
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A Farms	Apples				
	Barley			Agave A	
Se Equipment	Beans			Almonds	
S Inputs & Materials	Canola			Apricots	
-	Chickpeas			Argan	
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Storage	Soybeans			Avocado	
storage	Wheat			Banana	
🛎 Farm Weather					
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Farms	2018 Alfalfa	01/01/2018	12/31/2018	Sta		2010	
	2018 Alfalfa RR	12/31/2017	12/30/2018		Crop *	Corn	•
Equipment	2018 Soybeans RR	12/31/2017	12/31/2018	01/			+ Add Crops
Inputs & Materials	2017 Alfalfa Forage	12/31/2016	12/30/2017	01/			
inputs a waterials	2017 Alfalfa RR	12/31/2016	12/30/2017	12/	Subcrop		
Commodities	2017 Barley 2 Row Malt	12/31/2016	12/30/2017		Activities Start Date	01/01/2018	#
	2017 Barley 6 Row Malt	12/31/2016	12/30/2017	12/	*	0110112010	
Storage	2017 Beans Green	12/31/2016	12/30/2017	12/			
Farm Weather	2017 Canola Nexera	12/31/2016	12/30/2017		Activities End Date *	12/31/2018	#
	2017 Canola RR	12/31/2016	12/30/2017	12/	Default Yield		
People	2017 Corn	01/01/2017	12/31/2017	12/	Potential		
Documents	2017 Corn LL	12/31/2016	12/30/2017	12/			
	2017 Corn RR	12/31/2016	12/30/2017				
Grain Contracts	2017 Soybeans R2	12/31/2016	12/30/2017	12/		CANCEL	SAVE
Marketplace	2017 Wheat Hard White Winter	12/31/2016	12/30/2017	12/			
	2017 Wheat HRS	12/31/2016	12/31/2017		04/0044		10/00/0017
Syncing turned off	2016 Corn	01/01/2016	12/31/2016		♂,		

- 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
 - $\circ \ \ \text{Select} \ \textbf{Crop}$
 - $\circ~$ Select Activity Start and End date (if different from default)
 - $\circ~$ Click Save



Online | Adding Client, Farm, Field

FARMER PRO ONBOARDING

Create	e Client		×		Create Farm	×
c	ilient Name *	CANCEL	SAVE		Farm Name *	• •
	M Rive Analytics Data Transfer Cons FARMS CLEMTS FAILED INC. INC. INC. INC. INC. INC. INC. INC.	ote				CANCEL SAVE
e India for Inter- fo	Image: Second	our bag bag there has bag there has bag bag bag field hame 4 field ham				SSET
				•		

- 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
 - $\circ~$ 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 <u>video</u> to learn more.

Trimble

Online | Add Field and Boundary (Bulk)

FARMER PRO ONBOARDING

2018 -	nble. Farm Field	Fleet Ar	nalytics Data Tra	insiei	Console										± #	? III Print
Menu	~	2018 Field	Profiler												Ø MAR	AGE -
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top	Boundary13.shp		11/1/2010 3:00 AM	SHP File	7 KB			36.	34 1	N	Soybeans - RR					
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c	Boundary14.shx		11/11/2014 3:17 PM	SHX File	1 KB			30.	34	N	Soybeans - RR					
c res	CF Field 1		3/24/2016 12:23 PM	DBF File	1 KB	Uplo	oad Field Boundary									
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55	CF Field 1.shx		3/24/2016 12:23 PM		1 KB		Drag files below or select fi	les to upload	vour	shap	e files.					
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								thx WGS 84 ¥	New Fi	ield		FarmName	* Darwyn Ochsne	r	FieldName	Ochsner - E
							Boundary Files Preview Boundar									

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

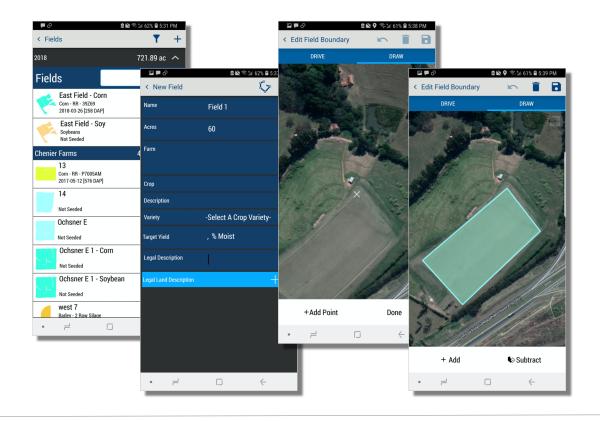
OR

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



Mobile | Add New Field and Boundary

FARMER PRO ONBOARDING



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





Online | Adding a New Crop

FARMER PRO ONBOARDING

Comp Demo Farms • 2019	any Farm Field Fleet Cochsner E	Analytics Workbench Data Transfer (Console	± ♠* ❷ Ⅲ Print
Menu	OVERVIEW OVER	RVIEW FIELD MAP		
🕁 Back				i i
Overview	2019 Field Manager			© MANAGE ~ Edit
🗰 GIS	Field Name Legal	Ochsner E - Chenier Farms	ADS Field ID # Acres	1014009 Delete Field 5pli Field 151.1 Ingeled Nave rom
💣 Weather	Crop		* Acres Variety	151.1 irrigited New Crop Seeded Date Sare Actuals as Crop Plan
Work Orders	Target Yield Notes:		Actual Yield	Use of Park
Equipment Activity	Expenses Breakdov	m		New Crop ×
🚊 Lab Data	Expense Seed	Total	Cost S0	Parent Field: #1014809 - Ochsner E (151.10 ac)
_				New Name Ochsner E - Soybeans New Acres 151.1 Crop Sequence 1 V
				New Name Ochsner E - Corn New Acres 151.1 Crop Sequence 2 V
Chenier Fa	irms			SAVE FIELDS
	Field ID	Field Name		\$0 \$0.00
	867573	13		Original Field
	867526	Ochsner E		(parent field)
•	1014809	Ochsner E 1		()
•	1014809	Ochsner E 1 - Corn	-	New Crop
	1014809	Ochsner E 1 - Soybean		Fields
	1077211	west 7		

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

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



Online | Split Fields

FARMER PRO ONBOARDING

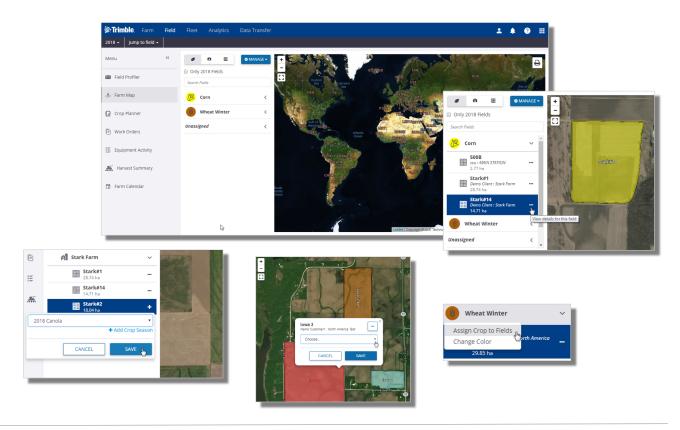
	r. You can switch back at any time. <u>V</u> i							_					
0 Field Manager								© MANAGI	-				
i Details # 1436418 i Name	test field		NDS Field ID		1436418					0			
			Acres		156.96		Irrigated	No	Ste	53			
			/ariety				Seeded Date						
et Yield IS:		Split Field				×	Harvest Date						
		Parent Field: #143641	3 - test field (15										
enses Breakdown		New Acres 100		New Name	test field (seeded)		Cost/Unit						
nse		New Acres 56.9	8	New Name	test field (not seeder	i) 🖸 🖬	\$0.00						
lzer		SAVE FIELDS					\$175.91	0% Seed 100% Fertilizer 0% Foliar					
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									Farm Total		185		

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

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Online | Farm Map

FARMER PRO ONBOARDING



- 1. Click Field tab > Farm Map
 - Interact with your fields in a map view
 - Show fields grouped by Crop Season



- Show Fields Only
- 2. From the Field level list, click on the **• •** button to **View details for this field** in the Field Manager screen.
- 3. If the field shows a plus sign + on the right, this means a crop has not been assigned to the field, click + to assign a crop from the drop down menu, or click + Add Crop Season to add a new crop season for selection click Save to update the Crop Season.
 - Fields with the + may have been imported from a vehicle display without a crop assignment, these fields *will not* appear in the Field Profiler until a Crop Season has been assigned.
- 4. With your farm boundaries visible in the map view, you can also click on the field boundary in the map to assign the Crop Season from the drop down menu.
 - Click on the Crop Season icon to Change Color for each crop in the map view, or to access the Assign Crop to Fields option to assign the selected crop to multiple fields in the map view.
 - Watch this <u>video</u> to learn more.



Online | Crop Rotation Plan

FARMER PRO ONBOARDING

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

Watch this video to learn more.



Online | Crop Rotation Plan

FARMER PRO ONBOARDING

Crop	Rotation Plan														*
													🗆 Multi Select	MANAGE	-
FIL	LTER BY	CLEAR FILTER	Active I	Filter Soybeans							Ye	ars Backward:	3 Years Fo	orward: 3	~
Field	i	Hectares	2016		2017	2018		2019 (Curren	t)	2020		2021		2022	
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Field Farm (Retir	n Demo	2.95					6. —	Ø Soybeans 3,000.00 kg/h							
	1 700 - Zone n Demo	7.49	Ø Cor		+		+	Soybeans 3,500.00 kg/h	a		+		÷		•
	l_ebee n Demo	7.37		+				Soybeans kg/ha	+ 7.37 ha		Ed	lit Crop			
d New Crop		+ Ado	× Crops	8.	+		 2019 (Current Soybeans 2,500.00 kg/hi Soybeans 	14.71 ha	Conventional kg/ha	14.71 ha	. 0	Replace old cro	our selected fields alre p details with new inf nation as separate cro	ormation	issigned.
Variety Area			• ha	Edit Crop		×	3,000.00 kg/h				1	0.⁄	В	АСК	SAVE
Yield Goa Target Price Crop Sequence Perennial Crop	e 2	kg/ha	/kg	Replace old crop de	elected fields already has a crop as tails with new information n as separate crop split	SAVE	Soybeans 3,500.00 kg/hi	• 7.37 ha				2019 (Curren Soybeans 2,500.00 kg/h	14.71 ha a 11.	Corn onventional g/ha	7.36
umber of planned	·	NCEL SAVE	~				Soybeans LL Soy Seeds kg/ha	+ 62.65 ha +						g/ha	7.36

- 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 cops 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**.





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Planner / Budget



Online| **Planner** / **Budget**

FARMER PRO ONBOARDING

	Fleet Analytics Data Transfe	er Console						
Menu «						1		
+ Back	Field Planner							
D Field Manager	This field currently has no plans. Add	l a plan to get start	ed	Plan A - 2019		I		
🕅 GIS	Code:			A V		I		
🛎 Weather	Crop: Target Yield:			Corn 200 bu/	 + Add Crops T 	I		
B Work Orders	Target Price:			8		I		
🚝 Equipment Activity		Ø:Trimble. Farm Field	Fleet Analytics Data Transf	er Console				± 4≉ ⊖ II Nit
🛆 Lab Data		Menu K	Field Flanner					MANAGE Select Planc (Planck-2019-A
Planner / Budget		CD Field Menager	Planck - Planck - 2019 Raid Name Planned Crop	San Samping_GNF - Tast Farm Com	ADS Field D Promote Variany	1268216	Logal Torper Vield	
派 Harvest Data		M Weather	Expenses Breakdown Brzenze Soco		Tanai Con Si	CissiMecsare \$0.00		90.00 10.00
		E Equipment Activity	Receilean Fulan Orban Harbida Insectida		90 80 90	50.00 80.00 90.00 50.00		20.00 Pic. We had 20.00 Pic. We had
		879 Flerner / Budget JK. Hervest Dete	Purgende Other Variade Roed Ropenses Descetter Einersee		80 80 90	80.00 80.00 90.00 80.00		80.00 10.00
			Episone Episonae Revisment Episonae Tetal		50 50 50	80.00 80.00		10.00 10.00 20.00
			Seed Date Crop System Fortilizor Application Date Communit	Venery Peterrary	Carros Alamadoy	Sana Plane Co	menanta Mata Product (Starro)	Cashfalara
			Product Application Other Expenses					2 m 2 m

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



Online | Planner/Budget (cont.)

FARMER PRO ONBOARDING

2019 • Soil Sampling_GVF •	Fleet Analytics Data Transfer Console				± 477 (
Menu «	Field Planner				O MANAGE
H Back	Field Planner				Edit Plan
Field Manager	Plan: A - Plan A - 2019				Add Plan Copy Plans to Fields
	Field Name Soil Sampling_GVF - Test Farm	ADS Field ID 1263215	Legal		Delete Plan
GIS	Planned Crop Corn	Planned Variety	Target Vield	200 bu/ec	Apply Plan as Actual Compare Plans and Actual
Weather	Expenses Breakdown				
Work Orders	Expense	Total Cost	Cost/Hectare	CostUnit	
	Seed	50 50	\$0.00	\$0.00	0% 5 Seed 0% Ferlier
Equipment Activity	Fertilizer Follar/Other	50	\$0.00 \$0.00	\$0.00	0% C Foliar 0% Herticide
Lab Data	Herbicide	50	\$0.00	\$0.00	0% Entrecición 0% Entrecición
	Insecticide	\$0	\$0.00	\$0.00	0% Variable 0% Fixed 0% Operator
Planner / Budget	Fungicide	50	\$0.00	\$0.00	0% Equipmen
Harvest Data	Other Variable	50	\$0.00	\$0.00	
	Rived Expenses Operator Expenses	50	\$0.00 \$0.00	\$0.00	
	Equipment Expenses	50	\$0.00	\$0.00	
	Total	50	\$0.00	\$0.00	
-	MANAGE	Edit Plan	© MANAGE ▼	Hectoree	Cast/Hecave
	Add Plan Copy Plans to Fields Delete Plan	Add Plan Copy Plans to Delete Plan			
	Copy Plans to Fields	Copy Plans to Delete Plan Apply Plan as			

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

Trimble

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Bins and Contracts



Online | Planning Bins and Contracts

FARMER PRO ONBOARDING

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

In this session you will learn:

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



Online | Grain Contracts

Trimble. Farm Field	Fleet Analytics Data Transfer Console 👲 🏚 🕐 🕐 🎬
Aenu «	Contract Manager
h Home	Status: Open • REFRESH + ADD CONTRACT
Profile	Crepter x Creptyex.Unit.x formiliare Contact# Dayer Crep CommodityDesc Unit Quantity Delowerd Price Daeis Net Nut. Mut.Month Del.Sant Del.End
Farms	
8 Equipment	Uniter Paris 123 April Call Call Call Call 00000 1/1/20 2019
Inputs & Materials	
Commodities	
Storage	
Trimble , Farm Field	Fleet Analytics Data Transfer Console 🔹 🍂 📀 🏢
n17 • Jump to field •	
enu «	Add New Contract
Home	Contract Details
Profile	Contract # 113
Farms	Status Dyen •
Pornis	Contract Date 10
e Equipment	Crop Year 2018
Inputs & Materials	Farm Name
	Contract Type
Commodities	Less pront
Storage	Expline test and the feat
F Farm Weather	Sale Details
	Buyer Name ABM *
People	Quantity 100000 out • Delivered out
Documents	Price (per UNIX) Quartety Priced ov Price Comments
	Basis (per Unit) Quantity Priced out Price Comments:
Grain Contracts	Discourts
	Incretives
Marketolare	= AD RVES
Marketplace	

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

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





Mobile Grain Contracts

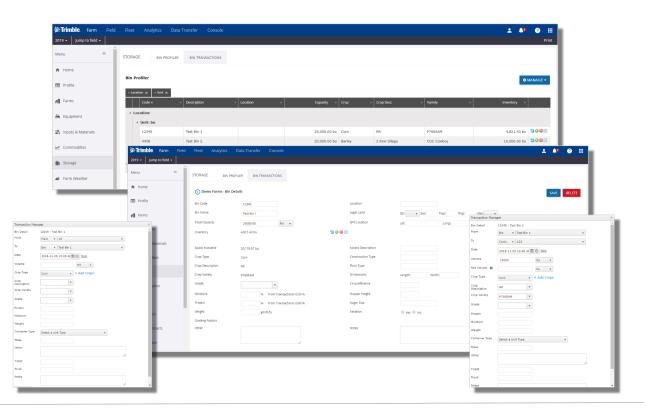
Crop Year	Date		2017	123 - Corn	
2017	Sun, Dec. 02			ABM -	\sim
Commodity	Class	Corn	1 Contracts	Quantity 1,000 Delivered 150.000	
Corn - RR		Total Volume	1,000 cwt	Left to Deliver 850.000	cwt
arm Name		Average Price	\$ 17		Fotal : 150 cv
		123		Avg Moisture (%):0.0Avg Protein:0.0	Avg Dockage: 0.0
Contract#	Contract Type	850% ABM	1,000 cwt \$ 17	Transactions	
	bu				
escription				Bin - 12345	150 cwt 🖍
				≩09	50 cwt
utures	Expiry Date			12:00 AM Tuesday	
2018-Dec				≩ 06	100 cwt
Buyer Name	Delivery Location			12:00 AM	
luantity					
	т				
Tap her	e to fill the entire screen	Tap here to fill the	entire screen	Tap here to fill th	e entire screen
2			<		j <

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

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



Online | Storage



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



Online | Storage (cont.) FARMER PRO ONBOARDI

				Bin Profiler										O MANAGE
				• Location X • Unit X										
action Manager feat Bin 1 - 12345		0e	ent Inventors * Print	Code 🔺	 Description 		ication ~	Capacity 、		 Crop Desc 	~ Variety		Inventory	
a column header and drop it here to proup by t Crop v Grade v MoS v		DV V	× TOT_ ×	Location:										
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	AM UN UN	NYA 001	A201:	12345	Test Bin 1			25,000.00 bi	Corn	RR	P7005AM		4,821.4	13 bu 🙄@@
arn	2018-11- 06 12/00 AM Cwt Cwt	N/A Out	Contract: A8H1	4458	Test Bin 2			20,000.00 bi	Barley	2 Row Silage	CDC Cowbo	Y	10,000.0	00 bu 🔽📿 🖨
Sorn	2018-11- 06 12:00 39568.000 39568.000	N/A In	Field: 13					45,000.00 bu					14,821.4	3 bu
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e	01 12:80 5000.000 5000.000 bu bu		Field: 13											
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				180910 2018	-11-09 12:00 AM	Corn	Bin: Test Bin 1	Contract: Corn - ABM:	(1000 cv/t)		8400.06 cwt	N/A	0.00 %	
				I 180649 2018	11-06 12:00 AM	Corn	Bin: Test Bin 1	Contract: Corn - ABM:	(1000 cwt)		100.00 cvit	N/A	0.00 %	
											52,868.06	null		
: Demo Farms 2019				Trai	saction History				Allow and A					
Test Bin 1 - 12345														
a column header and drop it her														
v Grade	a v Moisture	~ Ticket	 Date 2018-11-09 	 Volume 12:00 AM 8400.056 cwt 	 Net Volume \$400,056 cmt 	 Dodcage N/A 	~ Out	 To/from + Contract: ABA 	· ·					
			2018-11-05		100.000 cvit	N/A	Out	Contract: ABN						
						N/A	in	Field: 13						
n n			2018-11-06		39368.000 bu 5000.000 bu	N/A	in .	Field: 13						

- 1. Click View Transaction History (
 - Click Edit icon (2) to edit a transaction
 - Click **Print** to print a transaction report
- 2. To view all transactions within a specific timeframe, click **Bin Transaction** tab
 - Choose **Custom** from dropdown
 - Enter Start and End for the Bin Activity Report
- 3. To import an existing Transaction csv, first make sure that your transaction csv is set up based on the following template. Once you have verified that all Columns are correctly labeled and the proper data entered, complete the following:
 - o click Manage > Import from CSV
 - review any columns that have been highlighted in dark red. Make adjustments to content as needed, i.e. common issue seen is names in csv do not match the names in Farmer Pro.
 - Date Format Start Date: enter Start Date
 - End Date: enter End Date
 - Date Format: Match what csv setup
 - Time Format: Match what csv setup
 - Hour Format: Match what csv setup
 - click **Import**



Mobile Storage

cation	Crop Filter	44,189 bu	 ✓ B < Nev 		۵	*0	∰*⊿ıll 92% i	1 3:05 PM	12345: T Corn - RR	est Bin 1 - P7005AI	м		 ଜ B ଜ < Bin Transa 		all 93% 🛢 3:00	PM
		44,105.60	Bin Code						Capacity Current Inver		50,000 bu 34,189 bu	68%	Sun, Dec.	02	3:00 PM	
68%	12345: Test Bi Corn - RR - P7005AM	Capacity 50,0 Current: 34,1 Available: 15,8	Bin Name						Space Availa	ble	15,811 bu	+ -	Origin	m	13	
$\overline{\frown}$	4458: Test Bin 2	Capacity 20,0	Location							123			Destination	٨	12345	
50%	Barley - 2 Row Silage - CDC Cowboy	Current: 10,0		Sec	Тwp		Rng	Mer	£	Corn		15000 bu Nov 09 - 12:00 AM	Quantity Gross			ł
			Lat			Long				13 Corn - RR -	DZOOEAM		Protein			
			0.00 Total Capa	city		0.00				CUIII - NN -	FTUUJAM	5000 bu Nov 06 - 2:50 PM	Moisture (%)			
					bu					123			Ticket			
										Corn - RR -	P7005AM	179bu	Truck			
										13		Nov 06 - 12:00 AM	Сгор	Corn		
										Corn		39368 bu	Description	RR		
												Nov 06 - 12:00 AM	Variety	P7005AM		
										13 Corn - RR -	P7005AM	5000 bu	Operator			
	Tap here to fill the entire	0.007000					ire screen			Tap here t	to fill the ent	ire screen	Harvester	nere to fill the entire s		

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



0.3

Uploading Data



0.3.a

Equipment Data Upload



Equipment Data Upload

FARMER PRO ONBOARDING

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

In this session you will learn:

- $\circ~$ What type of data flows into and out of TAS online
 - API Connection
 - \circ 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
- $\circ~$ Why and How to Verifying Task



Option 1 API Connection

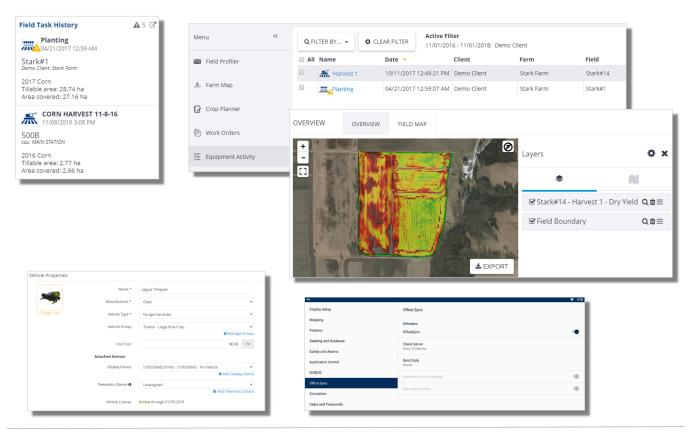
			+-	
Account	Email	Date Added	Last Sync	ADD ACCOUN
AGCO	METfarms	10/22/2018		aven Slingshot GCO Variodoc
lingshot. 123D4566-2345F678-3456R789-567W890	jfarmer@email.com	11/01/2018	11/01/2018 3:10 PM) Link FS Connect
		11/01/2018	Sync Data	LM Connect
CASE		11/01/2018	Manage Companies	
AGRICULTURE			Delete	
JOHN DEERE		11/01/2018	0+	
			Settings Import Fields Import Files	
			Delete	

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

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



Option 2 | Trimble Display



- 1. 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
- 2. Setup Data Transfer
 - Create a Vehicle configured with a Display License in Online
 - Add the Display Device serial number from the drop down
 - Assign a display license
 - Configure the Trimble Display for Office Sync
 - Load Active Plugin for Office Sync (FmX/FmX+)
 - Configure Data Transfer (Office Sync)

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



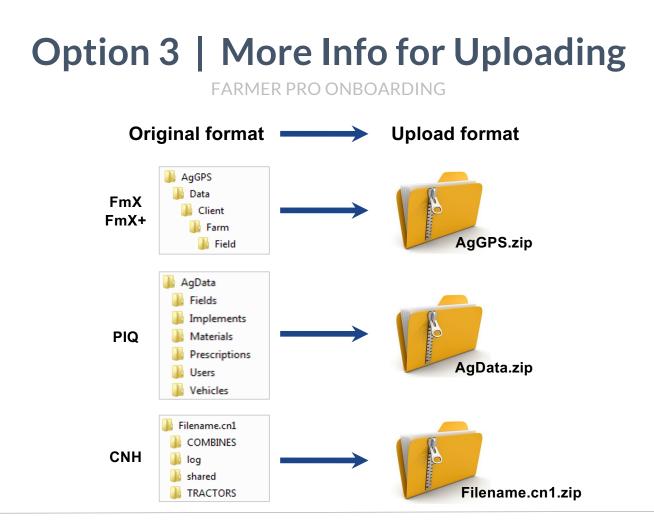
Option 3 | Manual Importing Data

FARMER PRO ONBOARDING

From Vehicles Ma	anually upload the following type of files	-1
To Vehicles Upload Resource Exports	Upload machine collected data from field displays to Trimble Ag Business Solutions website Upload data to share with your advisor Oropo Charter of the state of th	
	displays Select Files Upload File	× Upload Shape File
	Upload Imagery to Far GeoTIFF The .prj file is only required if the shape file is not in WGS84 format.	Select the type of shape file being imported.
	Slingshot vehicles .shp File planting.shp SELECT + File from a display to be imported into Trimble Ag Business Solutions : O File to be sent to a display	© Topo
	Single prescription shapefile .def File planting.def SELCT upload your prescription as, .duf, then select a vehicle wit .shx File planting.shx SELECT .pg File (optional) SELECT .chxCEL UPLOAD CANCEL	EM/EC Goil Sample Locations Soil Target Locations Monagement Zone Boundaries Task
1-1482 1992	1. Test 2 Crop Date Counting C	

- 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 <u>added</u> 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
 - $\circ~$ Select the Vehicle and Click Upload
 - Monitor the processing status of your upload via From Vehicles tab





- 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..."
 - $\circ~$ 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
 - $\circ~$ Select the proper Field
 - Enter a Crop Zone, Operation Type and Task Name
 - Add a vehicle to the Task. Note that Vehicles must be <u>added</u> ahead of time to populate in the list
 - All other details are optional.
 - Click Save
- 3. To upload display data
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 - Search for or drag the zipped display file for upload
 - Select "File From Display to be Imported..."
 - Select the display format
 - $\circ~$ Select the Vehicle and Click Upload
 - Monitor the processing status of your upload via From Vehicles tab



Online | Equip. Activity: Verify Task

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 autoverified



Online | Equipment Activity RMER PRO ONBOARDING

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- 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 Spraying - indicated with the caution symbol
 - Select an activity item to Add, Edit, or Delete

1 task selected		
+ ADD	EDIT	DELETE

• Select items to Verify, Merge, or Reassign

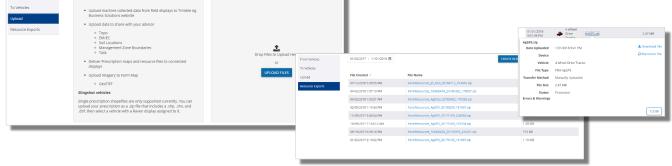
VERIFY	MERGE	REASSIGN
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- 1. Use the Filter By... drop down menu to filter the equipment activity list to Date, Crop, Is Verified, etc.
- 2. Click on a specific task to open the Summary view of the mapped attributes as well as the Inputs data
- 3. You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



Online | Manage Files

denu «	From Vehicles	10/02/2018 - 11/01/2018	m				RELOAD		
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		10/31/2018 7:41:11 PM	Resource Exports		09/30/2018 7:10:52 PM		5047591402_20180930_231050.zip	534 Bytes	Pending
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					11/22/2017 12:50:32 PM	7260R	Operators.zip	339 Bytes	Pending
					11/07/2017 2:06:53 PM	i Case IH 1660	Case Logo Plate.tif	18.4 MB	Pending
					10/30/2017 8:17:04 PM	Kubota RTV1140	operators.zip	286 Bytes	Sent



- 1. Click Data Transfer tab > Manage Files
 - **From Vehicles** lists the files that have been sent to Online from vehicles
 - **To Vehicles** lists the files that have been sent to vehicles from Online
 - **Upload** is used to manually upload files to Online or to vehicles
 - **Resource Exports** is used to create resource export files and to send the resource files directly to vehicles
 - Use the **Filter By...** drop down menu to filter the equipment activity list to Date, Crop, Is Verified. etc.
- 2. Click on a file name
 - View details including File Type and Transfer Method
 - **Download** a copy of the file
 - **Reprocess** the file



Online | Equipment Activity Export

FARMER PRO ONBOARDING

IName Image:	Active Filter 02/01/2019 - Date * 10/12/2020 4:05:44 PM 04/07/2020 1:33:13 PM 03/04/2020 6:39:51 PM 03/04/2020 6:39:51 PM 03/04/2020 6:39:51 PM 03/04/2020 6:39:51 PM 01/13/2020 4:06:40 PM 01/13/2020 5:20 PM -treats 10/04/09(0) FM -treats 10/04/04/04/04 10/04/04/04/04 10/04/04/04/04 10/04/04/04/04 10/04/04/04/04/04 10/04/04/04/04 10/04/04/04/04/04 10/04/04/04/04 10/04/04/04/04/04 10/04/04/04/04 10/04/04/04/04/04 10/04/04/04/04/04 10/04/04/04/04/04/04/04/04 10/04/04/04/04/04/04/04/04/04/04 10/04/04/04/04/04/04/04/04/04/04/04/04/04	Client Test Field 2 ADDEC ADDE	Farm test Field 2 Our New Farm Our New Farm Our New Farm ARDEC ARDEC Training Farm 2 Tra Tra Tra Tra Tra Tra My		Year 2020 2020 2020 2020 2020 2020 2020 20	Crop Corn Barley Barley Barley Barley Barley Soybeans	Export To Shapefie (AgePs 0.10 ad 1.18 ad 0.17 ad 0.05 ad 0.69 ad 77.32 ad 57.52 ad 79.92 ad 1.99 ad
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Export AgData as-applied data from Online in Shapefile format to be able to utilize your PIQ as-applied data outside of Online.

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



0.3.b

Generic Data Upload



Online | Import Data (UAV Imagery)

FARMER PRO ONBOARDING



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

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



Online | Soil Moisture Probes

FARMER PRO ONBOARDING

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



Watch this video to learn more.

Trimble

Online | Soil Moisture Probes

FARMER PRO ONBOARDING



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



16": 25.35%
24": 26.83%
32": 28.14%

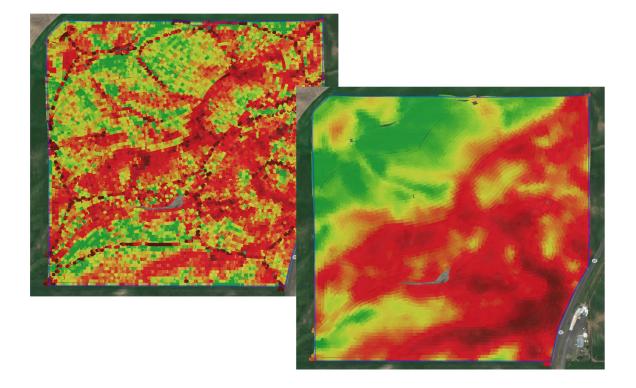


0.3.c

Yield Data Upload / Cleaning







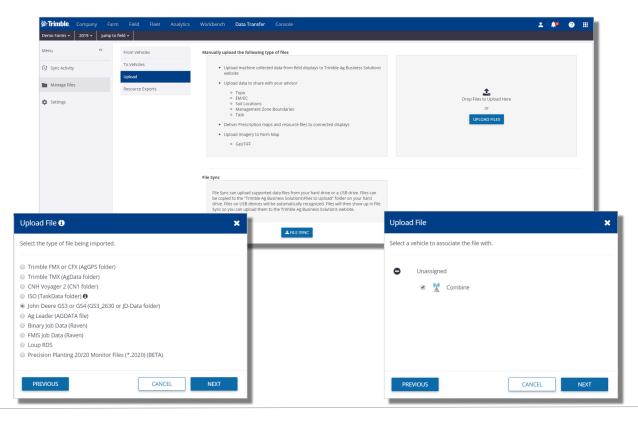
- 1. Eliminate Problematic Points
 - GPS Errors
 - Moisture sensor issues
 - Flow delay issues
 - Overlap passes
 - Speed and flow issues
- 2. Calibration between harvesters
 - Make relative adjustment
 - Use the offset entered by the user
- 3. Application of the scale ticket
 - If available by the user,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



Watch this <u>video</u>

Online | Import Data (RAW Yield)

FARMER PRO ONBOARDING



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

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

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

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



Online | Import Yield from Shapefile

FARMER PRO ONBOARDING

Select Files		Upload Shape File	Upload File	X Choose Field(s) X	
The .prj file is only require	ed if the shape file is not in WGS84 format.	Select the type of shape file being imported.	Select a vehicle to associate the file with.	Test Client	
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Flow	•	· ·		Operation Harvesting Manage Operation Types	
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Width	Width	t •		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
Wet Yield Mass	Wet_Yield *	bu/ac 🔻	14	Resources Harvest Conditions Notes	
Commodity	Wheat •			Area Harvested 7.28 ac	Price \$0.00 / bu
,			assignment	Average Yield 0.00 bu / ac	Quantity 0.00 bu
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Engaged	Engaged •		e following		CANCEL SAVE
PREVIOUS	NEXT	CANCEL • Dry Yie	eld Flow (with units) eld Mass (with units) eld Mass (with units)		
		• Moistu	(recommended) ire (highly recommended) (with units) ed		

- 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

н.

- 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
 - o 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

	Calibrate Sett	ings				×					
	Equipment	Acres	Adjustme	ent % 1	Avg. Yield/ac	Total Yield					
	Combine	311.22	0		1904.35 kg	592666.49 kg					
Clean Yield Runs in the bac	ckground and applies the following	effects:	0		2091.03 kg	346819.57 kg					
	ated Yield es grain flow delay, overlaps, GPS e differentially calibrated combines.	rrors, and differences			1969.25 kg/ac	939486.06 kg					
Divides Normal yield of pattern	lized Yield each Calibrated Yield sample poin lized yields are expressed as a perr i the field and can be used to comp is across different crops and years.	entage of the average are spatial yield			Total Yield	939486.06 kg					
	ements Equipment, Materials and other ite lies them to the Field Manager scru										
	or more tasks into a single task. Th with the same crop and Task Type/		CLOSE SAVE								
	op zone for any task that's missing an assigned crop that matches that		VERIFY	TASK	EDIT	EAN 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.



0.4

Executing In-Season Agronomics



Online | In-Season Agronomics

FARMER PRO ONBOARDING

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

In this session you will learn:

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

Trimble

0.4.a

Soil and Tissue Sampling



Online | Soil Samples (Benchmarks)

FARMER PRO ONBOARDING

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



Online | Soil Samples (Lab Data)

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



Mobile | Grid Soil Sampling

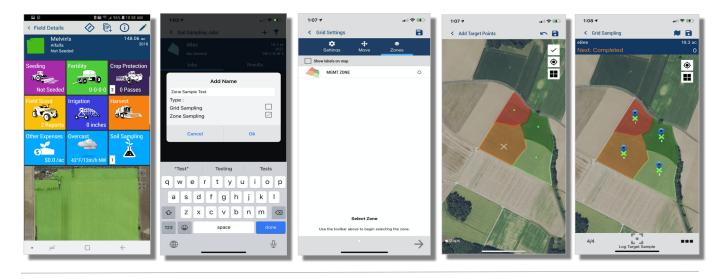
🔗 🖪 🛈 🖌 ٦ < Soil Sampling Settir R ۵ C Grid Grid Size Sampling Jobs Found 20-20 Continuous Sampling Too a 霥 Sample Location ID S 丛 Sampling Depths (inches) Sample Location Edit Grid 2 0 4

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



Watch this video to learn more.

Mobile Zone Soil Sampling



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



Online | Visualize Samples FARMER PRO ONBOARDING



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

Trimble

Online | Tissue Sample (Lab Data) FARMER PRO ONBOARDING

Strimble. Farm	Field	Fleet An	alytics	Data Transfe	r Cons	ole		
2019 ← Jump to field ←								
Menu	~~	LAB DATA	SOIL	MANURE	TISSUE	LABELS & FORMS		
🛆 Lab Data		Manage Tis	sue Tests					
📈 Field Data Analyzer		Select/D						
Reports		Test Farm	ID	Test Date		Field Name	Growth Stage	
👬 Scouting Report		1263	190	7/4/2019		Field_SoilSampling	pre-flower to 50% flower	
$\frac{1}{2}\frac{1}{2}$. Crop Production Costs			Sue Test Da	ata From Excel	pload Tissue Te	sts From File		

Tis	sue Test Data	Importer Be	ta							
	rify Format Subm sue Test Data Importer	it Data	Current Templa	te:	▼ Save or Upd	ate Template:	Save for	nat		
Row	Field ID	Crop Year	Date Sampled	Growth Stage	Plant Part	Nitrogen % Actual	Nitrogen % Hi	Nitrogen % Low	Nitrate Nitrogen % Actual	Nitrate Nitrogen % Hi
	Farm Name 🔹 🔻	Field Name 🔹	Field ID 🔹	Sample ID 🔹	Zone Name 🔹 🔻	Zone Code 🔹 🔻	Crop Year 🔹	Test Date 🔹	Lab 🔻	Growth Stage 🔹 🔻
	Farm Name	Field Name	Field ID	Sample ID	Zone Name	Zone Code	Crop Year	Test Date	Lab	Growth Stage
1		Soil Sampling_GVF	1263190				2019	7/4/2019 12:00:00 AM		pre-flower to 50% flower

- 1. Click Analytics > Lab > Tissue
- 2. under Import Tissue Test Data From Excel, click Choose File > locate the analysis results in .XLS format from the lab > click Open > click Upload Tissue Test Results From File
- 3. Select the .XLS attribute from a columns Dropdown menu that matches that columns title. i.e. Organic Matter (column title) = OM (xls attribute). Do this for all applicable columns. If there is no matching attribute for the column, you may leave that drop down menu blank.
- 4. To **save** the column drop down menu selections as a **template** to apply to future lab submissions with an identical .csv layout, enter a Template Title > click Save Format
- 5. To use an existing template, select the desired template from the Current Template dropdown menu
- 6. Click Verify Format
 - Correct any errors that are identified, if any. 0
- 7. Click Submit Data



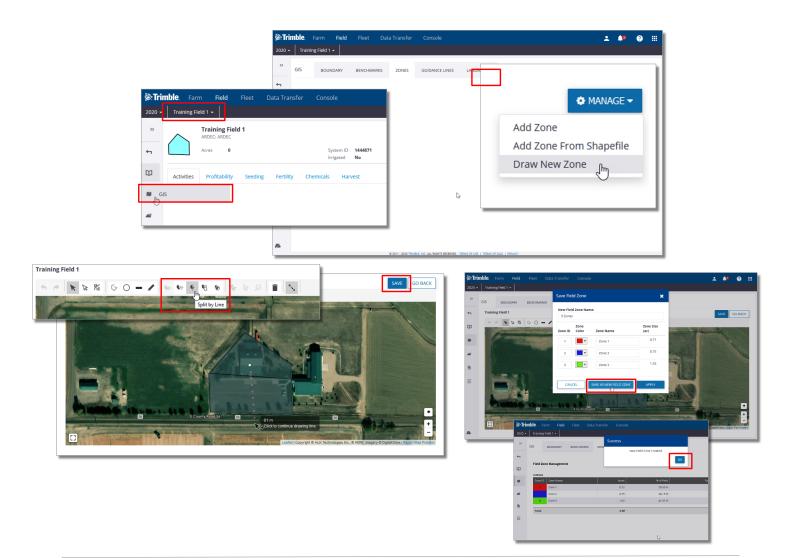
0.4.b

Management Zones



Online | Create a Manual Zone

FARMER PRO ONBOARDING

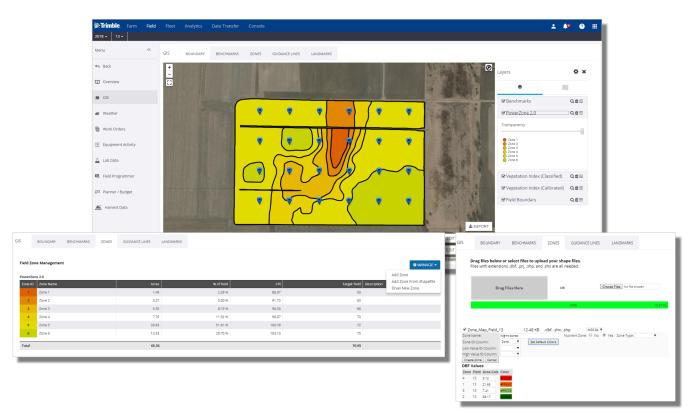


- 1. Open the field where the zone map is going to be created
- 2. Select the GIS tab
- 3. Open the Zones tab
- 4. Click on the Manage button
 - a. Add Zone From Shapefile (the shapefile for zones must have unique ids for each zone) b. Draw New Zone
 - i. Use the drawing toolbar in the map view to manually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



Online | Upload Management Zone

FARMER PRO ONBOARDING

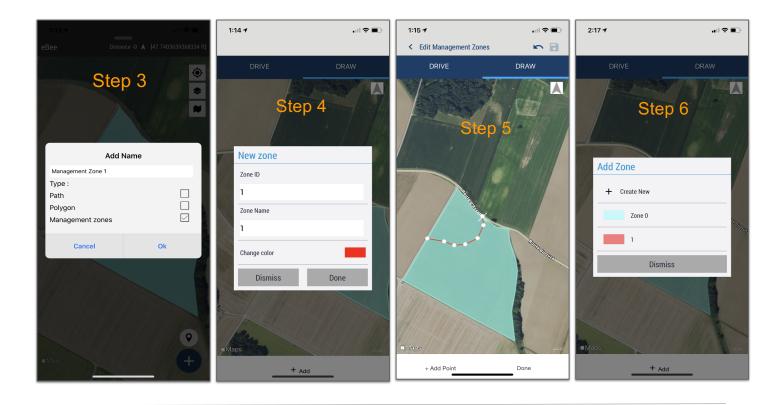


- 1. Enter the desired field
- 2. Click **GIS** tab
- 3. Click the **Zones** tab within the GIS section
- 4. Click Manage > Draw New Zone
- 5. Use the appropriate **GIS tools** to make adjustments to the new Zone layer
- 6. Click save
- 7. In the Save Field Zone pop-out window;
 - Enter a new Field Zone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



Mobile | Management Zone Creation

FARMER PRO ONBOARDING



1. In the mobile app, select the "fields" tile from the home page, and then choose the field you want to create a zone for.

2. You will then see a field map at the bottom of the page. Click on the grey bar above the field map to expand it to full screen.

3. Click the "+" sign in the bottom right corner. Check off the "management zone" option, set a name for the zone and click ok.

4. Choose to either drive or draw the zone. Click "+add", set the zone name, zone ID, and color for the zone, then click done.

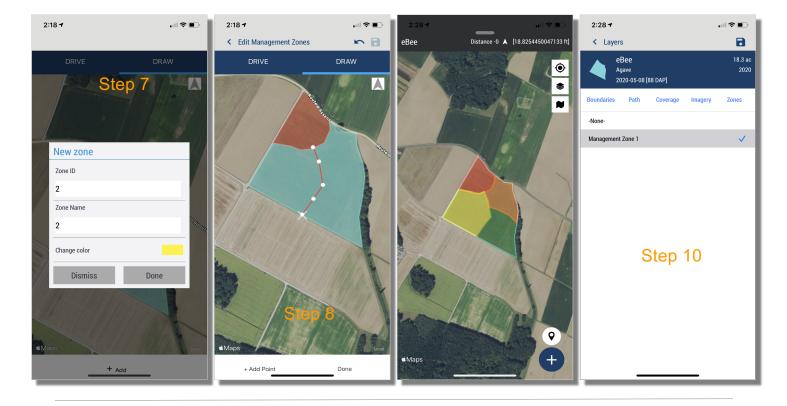
5. If you are driving the zone, click "start" and begin driving the zone boundary. If you are drawing the zone, move the X to the desired spot, click "+add point" then repeat the process to begin drawing out the first zone in the set.

6. By default we carve out the existing boundary and create it as a "zone O" 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 O 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.

Trimble

Mobile | Management Zone Creation

FARMER PRO ONBOARDING



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

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

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

10. Click the layers icon (3 squares stacked on top of eachother) 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.

Trimble

0.4.c

Applications



Online | New Field Manager

FARMER PRO ONBOARDING

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

In this session you will learn:

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

	+ ADD TASK	۰
Edit Field (Details	
Delete Fiel	d	
New Crop		
Switch to L	egacy Field Mana	iger

- $\circ~$ Add a product application on Mobile App
- Use Farm Calendar



Online | New Field Manager

FARMER PRO ONBOARDING

Check out the new Field Manager. You can switch back at any time. <u>View new Field Manager</u>	FIELD MANAGER	OVERVIEW	FIELD MAP		
Check out the new Field Manager. You can switch back at any time. <u>View new Field Manager</u>					
	Check out the new	Field Manager. Y	ou can switch ba	ck at any time. <u>View new Field Manager</u>	:

<u> </u>	94.88 Acres		05/12/2018			
Activities	Profitability Seeding	Fertility Chemicals	Harvest Irrigation	Scouting Other		
Com	pleted Activities				Show Inco	mplete
	Activity	Date 🔺	Days After Planting	Area	Cost	
~	Soybeans Spreading Spreading	04/24/2018	-18	94.88 ac	\$256.45	1
~	Seeding Planting	05/12/2018	0	98.06 ac	\$93.55	1
~	Soybeans Spraying Spraying	06/24/2018	42	94.88 ac	\$50.24	÷
~	Harvest Harvesting	10/03/2018	144	96.65 ac	\$0.00	

	raining Client 1: 1 4.88 Acres	Training Farm 1		Crop: Soyl Planted: 05/1			+ ADD TASK
ities	Profitability	Seeding I	Fertility Chemic	als Harvest	Irrigation	Scouting Other	
	Incor	me / ac (49.49 bu	/ ac)	Expenses / ac		Profit / ac	
	\$5	569.15		\$428.9	90	\$141.30	
1	уре		Total	\$ / ac	\$ / bu		
	Seed Seed		\$9,173	\$96.68	\$1.95		
	Fertilizer		\$23,721	\$250.00	\$5.05		
	Fungicide		\$4,744	\$50.00	\$1.01		
	Other Vari	able	\$2,372	\$25.00	\$0.51		
	Other Fixe	d	\$50	\$0.53	\$0.01		
	Operator		\$15	\$0.16	\$0.00		
	Equipmen	t	\$619	\$6.53	\$0.13		
	Total Exp	ense	\$40,695	\$428.90	\$8.67		
	Crop Sales (4,6	i95.78 bu)	\$54,002	\$569.15	\$11.50		
	Other Revenue	,	\$100	\$1.05	\$0.02		
	Direct Costs (N	laterials)	\$40,010	\$421.69	\$8.52		
	Gross Profit		\$14,091	\$148.52	\$3.00		
	Equipment & C	ther Costs	\$684	\$7.21	\$0.15		
	Net Income		\$13,407	\$141.30	\$2.86		

🌣 MANAGE 🗸

Save Actuals as Crop Plan Switch to new Field Manager

Edit Delete Field Split Field New Crop

Using the New Field Manager

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



Online New Field Manager

	94.88 Acres	raining Farm 1			Soybeans 05/12/2018				ADD TASK	1			- 1		
ivities	Profitability	Seeding	Fertility	Chemicals	Harvest	Irrigation	Scouting	Other				View Summary View Report	Y		
î												Edit			
	Date 🔺	Crop	Varie	ty		Rate	Area	Cost/Area				Delete	_		
	05/12/2018	Soybeans	S/C-3	917R2X		92.34 lbs/ac	25.95 ac	\$93.42 /ac	: 1						
	05/12/2018	Soybeans	S/P-P	38A98X	1	00.56 lbs/ac	72.10 ac	\$93.60 /ac	:						
		Activities	Profitability	Seeding	Fertility	Chemicals	Harvest	Irrigation Sco	uting Other						
		Ê									_				
				Material (Blen	d) Actua			Type R		Cost/Area					
		04		46-0-0	46-0-0			Dry 100.00 lb:	5/ac 94.88 ac \$	250.00 /ac					
		04		46-0-0 Total	46-0-0 46-0-0			Dry 100.00 lb:	s/ac 94.88 ac \$	250.00 /ac	1				
		04				-0			s/ac 94.88 ac \$ Harvest Irrigati		Other				
		04		Total Activities	46-0-0	-0					н.		1		
		0.		Total	46-0-0	-0					н.				
		0.		Total Activities	46-0-0 Profitability	-0			Harvest Irrigati		Other	st/Area			
		0.		Total Activities	46-0-0 Profitability	•0 Seeding Aaterial		Chemicals Cost/Unit Ta	Harvest Irrigati rget Pest PHI	ion Scouting	Other				
		0.		Total Activities	46-0-0 Profitability	•0 Seeding Aaterial	Fertility SC FUNGICIDE	Chemicals Cost/Unit Tai \$5.00 / 1	Harvest Irrigati rget Pest PHI 10 days	ion Scouting I REI Rate s 72 hr 10.00 l/ac	Other	0.00 /ac			
		0.		Total Activities	46-0-0 Profitability	•0 Seeding Aaterial	Fertility	Chemicals Cost/Unit Tai \$5.00 / I	Harvest Irrigati rget Pest PHI	ion Scouting I REI Rate s 72 hr 10.00 l/ac	Other		Other		
		0.		Total Activities	46-0-0 Profitability	•0 Seeding Aaterial	Fertility SC FUNGICIDE	Chemicals Cost/Unit Tai \$5.00 / 1	Harvest Irrigati rget Pest PHI 10 days	ion Scouting I REI Rate s 72 hr 10.00 l/ac	Other	0.00 /ac	Other		
		. 0.		Total Activities	46-0-0 Profitability	•0 Seeding Aaterial	Fertility SC FUNGICIDE Activities	Chemicals Cost/Unit Tai \$5.00 / 1	Harvest Irrigati rget Pest PHI 10 days	ion Scouting I REI Rate s 72 hr 10.00 l/ac	Other e Area Co : 94.88 ac 55 Harvest Irr	0.00 /ac		e	
		. 0.		Total Activities	46-0-0 Profitability	•0 Seeding Aaterial	Fertility SC FUNGICIDE Activities	Chemicals Cost/Unit Ta 55.00 / 1 Profitability	Harvest Irrigati rget Pest PHI 10 days Seeding Fertil	ion Scouting I REI Rate 5 72 hr 10.00 l/ac ity Chemicals	Other • Area Co : 94.88 ac 55 Harvest Irri Total Yin	eld Price/Unit	Total Sal		

Using the Activity tabs

- The Seeding, Fertility, Chemicals, and Harvest tabs summarize the field activities in each of 1. these areas
- Click the more button i on the right edge of any of these activities for additional actions 2.
 - **View Summary** 0
 - Inputs view, map view, and yield cleaning for harvest activities .
 - **View Report** 0
 - ×. the Proof of Placement report for the activity
 - 0 Edit
 - Delete 0



Watch this video to learn more.

Online | New Field Manager

FARMER PRO ONBOARDING

				Select Material(s)		×
+ ADD TASK •	General Materials (0) Equipment (0	0) Operators (0) Conditions		Search		
	Task Name *	Soybeans Spraying		MY	MATERIALS RECENT	
Choose Field(s)	Operation *	Spraying	•	Name	Balance	î.
		Manage Opera	• +	0-0-60+48CI	0.000 ton	
	Crop *		• •	11-52-0	lizer 0-0-60+48Cl	×
🗑 💋 2019 Soybeans	Start Date/Time	06/12/2019 8:00 AM		International	Area Applied	464.22 ac
Gordon Home Half	End Date/Time	06/12/2019 8:00 AM		⊟ 46-0-0	Cost	\$358.00 / ton
Goudys Home North	Time Worked	0.00	hrs	⊜ 46-0-0	Target Rate	0.00 lbs/ac
Goudys Home South	Area	464.22	ac	ALPINE G22	Actual Rate: 0.00 lbs /	
B Goudys North Section B Gravel Pile	Comments			Canola	Quantity Used	0.00 ton
Bing Gravel Mie Bing Gravel Mie	connerta		10		Rate Type 🛞 Flat Rate	O Variable Rate
🗘 🗉 🖬 Harroby Quater					Placement Choose	Υ
					MORE	×
CANCEL						
					CANCEL	ОК
Select Vehicle(s)	×		Conditions		×	
Unassigned			+	GET WEATHER CONDITIONS		
6120R Amazone			Weather			
Combine	Select Ope	erator(s) 🗙	Temperature	۴F		
Combine 2	ac	ob	Wind	mph		
Combine 3	🔲 🗌 🗌 Jan	nes Farmer In Farmer	Wind Gusts	mph		
Row Crop Tractor	Joh	in ranner	Wind Direction	Choose		
Sprayer		CANCEL ADD	Humidity	96		
Tractor Vehicle for Uploaded Data		CANCEL	Soil Condition			
E Venice foi Oproduco Data			Last Updated			
	OV			CANCEL	SAVE	
CANCEL	ок			CANCEL		

Add a Task

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



Online New Field Manager

Soybeans				Select Material(s)	Seed 28-10RY-Advisor	
ing Field - W			+ ADD	Lime	A ® Flat	Rate OVariable
Client 1 -	rials (0) Equipment (0)	Operators (0) Conditions	Multiple Products	O II Mix	Area Applied	464.22 ac
ac No Materials			Seed	Seed	Cost	\$200.00 / bag
/2019 0 AM			Chemicals Fertilizer	Soybeans	Target Rate	10.00 kS / ac
			Lime	93M43	Actual Ra	ate: 10.00 kS / ac
			Tank Mix Water	Ø S/C-3917R2X	Quantity Used	154.74 bag
				S/P-P38A98X	Comments	
				S/P-P42A52X-SU26		li.
				🕒 🗉 Winter Wheat	SEED SOURCE	~
				CANCEL	ок	CANCEL OK
hemical boron	×	Lime Properties	×			
Area Applied	464.22 ac	Name *	1			
Cost	\$0.00 / gal	Dolomitic 🗉		Tank Mix	× Water Properties	
Target Rate	0.00 gal/ac	Purity % or % Calcium Carbonate	100 %	Tank Mix Area Applied	Water Properties	
	0.00 gal/ac	Purity % or % Calcium Carbonate Equivalent *	100 %		ac Name*	
Target Rate Actual Rate: 0.00 ; Quantity Used	0.00 gal/ac	Purity % or % Calcium Carbonate Equivalent * Purchased Units * Choose		Area Applied Cost \$0.00	ac Name * / gal Purchased Units * Choose	•
Target Rate Actual Rate: 0.00 ; Quantity Used Application Type	0.00 gal/ac gal/ac 0.00 gal	Purity % or % Calcium Carbonate Equivalent *		Area Applied	ac Name *	
Target Rate Actual Rate: 0.00 ; Quantity Used	0.00 gal/ac gal/ac 0.00 gal days	Purity % or % Calcium Carbonate Equivalent * Purchased Units * Choose		Area Applied Cost \$0.00 Target Rate Actual Rate: gal / ac	ac Name * / gal Purchased Units * Choose gal / ac Unit Cost Applied Units * Choose	•
Target Rate Actual Rate: 0.00; Quantity Used Application Type Pre-Harvest Interval Restricted Entry Interval	0.00 gal/ac gal/ac 0.00 gal	Purity % or % Calcium Cerbonate Equivalent * Purchased Units * Choose Unit Cost	•	Area Applied Cost \$0.00 Target Rate Actual Rate: gal / ac	ac Name * /gal Purchased Units * Choose gal / ac Unit Cost Applied Units * Choose	•
Target Rate Actual Rate: 0.00; Quantity Used Application Type Pre-Harvest Interval	0.00 gal/ac gal/ac 0.00 gal days	Purity % or % Calcium Carbonate Equivalent * Purchased Units * Unit Cost Applied Units * Choose Default Target Rate % Passing Mesh	•	Area Applied Cost \$0.00 Target Rate 0.00 1 Actual Rate: gal / ac Quantity Used 0.00	ac Name * /ga Purchased Units * Choose gal / ac Unit Cost gal gal Default Target Rate	•
Target Rate Actual Rate: 0.00; Quantity Used Application Type Pre-Harvest Interval Restricted Entry Interval	0.00 gal/ac gal/ac 0.00 gal days	Purity % or % Calcium Carbonate Equivalent * Purchased Units * Unit Cost Applied Units * Default Target Rate % Passing Mech Ster 10		Area Applied Cost \$0.00 Target Rate Quantity Used Carrier	ac Name * /ga Purchased Units * Choose gal / ac Unit Cost gal gal Default Target Rate	CANCEL SAVE
Target Rate Actual Rate: 0.00; Quantity Used Application Type Re-Harvest Interval Restricted Entry Interval Sensitive Area	0.00 gal/ac gal/ac 0.00 gal days	Purity % or % Calcium Carbonate Equivalent * Purchased Units * Unit Cost Applied Units * Choose Default Target Rate % Passing Mesh		Area Applied Cost \$10.00 Target Rate Actual Rate: gal / ac Quantly Used Carrier Comments	ac Name * /ga Purchased Units * Choose gal / ac Unit Cost gal gal Default Target Rate	•
Targes Rate Actual Rate: 0.00; Quantity Used Application Type Resolution Type Section Type Section Type Section Type Resolution Area Sensitive Area Target Pest	0.00 gal/ac gal/ac 0.00 gal days	Purtly 16 or 16 Calcium Carbonate Equivalent * Purchased Units * Unit Cost Applied Units * Default Target Rate 9: Passing Mesh 9: Passing Mesh		Area Applied Cost \$0.00 Target Rate Quantity Used Carrier Comments Ingredients	ac Name * / gal / gal gal / ac / gal / ga	•
Targes Rate Actual Rate: 0.00; Quantity Used Application Type Resolution Type Section Type Section Type Section Type Resolution Area Sensitive Area Target Pest	0.00 gal/ac gal/ac 0.00 gal days hrs	Purthy % or % Calcium Carbonate Equivalent * Purchased Units * Applied Units * Choose Default Target Rate % Passing Mesh Size 10 % Passing Mesh Size 50 Neutralizing Value 0.00		Area Applied Cost \$0.00 Target Rate Actual Rate: gal / ac Quantly Used Carrier Comments	ac Name * / gal / gal gal / ac / gal / ga	•

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:
 - 0 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 0
 - Identify Sensitive area as needed 0
- 4. Lime
- 5 Tank Mix:
 - For the Tank Mixes, you're allowed to create a Mix right from this Tab 0
 - Click on Ingredients to ADD Ingredients to your Mix 0
- Water 6.



Online New Field Manager

FIELDS	Completed Soybeans Harves	sting					A		
Training Field - Flat - W Training Gamet 1 : Training Gamet 1 94:88 ac 07/25/2019 8:00:00 AM	General Materi Task Name * Operation * Crop *	als (0) Equipment (0) C Soybeans Harvesting Harvesting O Manage Operation 2018 Soybeans (Trainin, •	v in Types	nditions Harves	t			Harvest Soybeans	×
	FIELDS	Completed Soybeans Harvesting						Area Harvested	94.88 ac
	Training Field - Flat - W Training Client 1 : Training Farm 1	General Materials (0)	Equipment (0)	Operators (0)	Conditions	Harvest		Price	\$0.00 / bu
	94.88 ac 07/25/2019	Name	Area	Price/Unit	Averag	e Yield	Quantity	Average Yield	35.41 bu / ac
	8:00:00 AM	Soybeans	94.882 ac	\$0.00 / bu	0.000 b	u / ac	0.000 bu	Quantity Harvested	3,360.00 bu
								\top	CANCEL
							CANCEL	SAVE	

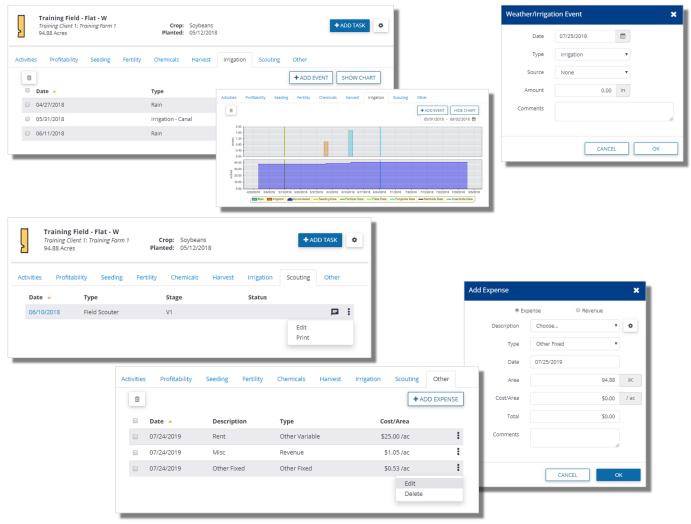
Add a Harvest Task

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



Online | New Field Manager

FARMER PRO ONBOARDING



Additional Field Events

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





Online | Legacy Field Manager

	Seed										2	
	Date	Crop Type	Variety	Ger	m.	Mortality	Seed Pla	ints	Rate Comments	Acres	Cost/Acre	
	5/12/2017	Corn - RR Primary	P7005AM		96	96 se	eds/kg plants	/ha 28,00) Seeds/ac	65.21	50.40	
	2/22/2018	Corn - RR UnderSeeded/Refuge	P7005AM		96	96				65.21		
	Fertilizer Applicatio	on									2 🗟 🗾 😧	
	Date Comme	nt	Placement	Туре	Ac	ctual Nutrient (lb/ac)	,	Acres Rate	Product (Blend)		Cost/Acre	
	Starter I	In seed row	Seed Placed	Liquid	2 3-1	11-1-0		55.21 4.5 gal/a	ALPINE G22		17.20	
	Urea		Side band	Dry	25	5-0-0-0	e	55.21 163 lb/a	46-0-0		26.90	
	Side Bar	nd	Band	Dry	2 10	0-41-48-3-38.5Cl-0.2Zn	e	5.21 165 lb/a	5-24-29-1-23.3Cl-0.1Zn		38.12	
				т	otal 87	7-52-49-3-38.5Cl-0.2Zn					82.22	
	Field Scouting / Pro	duct Recommendations								D E	ield Scouter/Product Rec	
	Date	Туре				Stage		Sta	itus			
	Jun. 08, 2018	Field Scouter									2 🛛	
	d Analysis, Manure or Con											
Fank #/Size Date	Comment/Zone	Placement/Ty Band	pe Product	Price (tonne) Acres	Rate Cost/Acre					_	
	-		•			lb/ac 🔻					26	
lds to apply application t												
Field ID Farm Nar 867526 Chenier F			al Desc. Acres 150.79	Crop - Desc		Variety						
867573 Chenier F			65.21	Corn - RR		Product Applic	ation					
1077211 Chenier F		CropCare	63.99									
	i di i i di d	ciopeare	03.99	Barley - 2 Row Sil	age	Application Type	Ground	•	Crop S			
1024002 CDN Farr	m East Fiel	ld - Corn	34.3	Corn	age	Sensitive Area	Ground No C		Spray	/olume	gal 🔻	
1024002 CDN Farr 1024002 CDN Farr	m East Fiel	ld - Corn			age		⊛ No ◯		Spray		gal 🔻	
	m East Fiel	ld - Corn	34.3	Corn	age	Sensitive Area Applicator Name Applicator Comme	® No @	Yes	Spray 1 Applica	folume tor License No		REI
1024002 CDN Farr	m East Fiel	ld - Corn	34.3	Corn	age	Sensitive Area Applicator Name	No Cost/Unit	Yes	Spray 1 Applica	folume tor License No	gai Target Pest PHI	REI • hour
1024002 CDN Farr	m East Fiel	ld - Corn	34.3	Corn	age	Sensitive Area Applicator Name Applicator Comme Product Type in Product Nam Field List	No Cost/Uni e	Yes Rate	Spray 1 Applic	folume Itor License No omments	Target Pest PHI	hour Apply to multiple
024002 CDN Farr	m East Fiel	ld - Corn	34.3	Corn	age	Sensitive Area Applicator Name Applicator Comme Product Type in Product Nam Field List Field ID	Cost/Unit Farm Name	Yes Rate I • Vac • Field Name	Spray Applica	folume tor License No priments Acres Crop	Target Pest PHI	 hour
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Click in the Engine button () to Switch back to Legacy Field Manager
 Click the Add New button for Fertilizers

Click into a Field through the Jump to Field quick search bar or by clicking Field > Field

- Date: Application date
- Placement/Type: Band/Dry
- Product: **11-52-0 (Dry)**
- Price: **\$29.26/acre**

Profiler > click desired field

- Acres: enter as-applied acres
- Rate: **160 lbs/acre**
- Click Add Application
- 4. Click the Add New button for Chemicals
 - Application Type: Ground
 - Product: Sortan IS
 - Cost/Unit: \$874/jug
 - Rate: 85 ac/jug
 - Click Add Application



1.

Online Reviewing Applications

					Men		OVERVIEW	OVERVIEW FIELD MAP					
					*	Back							i
					ш	Dverview	2018 Field Mana						O MANAGE +
							Field Details # 867 Field Name	573 13 - Chemer	armi	ADS Reld ID	867573		
						315	Legal	13104848		# Acres	65.21	Irrigated	No
					42	Weather	Crop	Corn - RR		Variety	P7005AM	Seecled Date	
EW	OVERVIEW FIELD MAP									Actual Vield		Harvest Date	
	OVERVIEW FIELD MAP												
									23				
,	Crop Type	Variety		Germ. Mortali	y sa	ad Plants		Rate Comments	Acres Cost/Acr	e l	Cost/Acre	CostUnit	
/2017	Corn - RR Primary	P7005AM		90	6 seeds	kg plants/ha	28,000 See	ds/ac	65.21 50.40		\$50.40	\$50.40	37% 🛄 Seed 69% 🛄 Fertilizer
/2018	Corn - RR	P7005AM		96	6				65.21		\$82.22 \$11.50	\$82.22	7% Folge
	UnderSeeded/Refuge										\$11.50	\$11.50	13% Herbilde 0% Insecticide 0% Fungicide
ilizer Api	oplication								2 1 2 3	3	\$0.00	\$0.00	0% Catable 0% Field
	Comment	Placement	Туре	Actual Nutrient	lb/ac)	Acres	Rate P	oduct (Blend)	Cost/Acr		\$0.00	\$2.00	0% Constan 0% Equipment
	Starter in seed row	Seed Placed	Liquid	2-11-1-0		65.21	4.5 gal/ac A	LPINE G22	17.2	0	\$0.00	\$0.00	
	Urea	Side band	Dry	2 75-0-0-0		65.21		5-0-0	26.9	0	\$0.00	\$0.00	
	Side Band	Band	Dry	10-41-48-3-38.5	0-0.2Zn	65.21	165 lb/ac 5	24-29-1-23.3Cl-0.1Zn	38.1	2	\$0.00 \$0.00	\$0.00	
				Total 87-52-49-3-38.5	1-0.2Zn				82.2		\$166.58	\$166.58	
	ng / Product Recommendation	s							Eleid Scouter/Product Re	1	2100.30	100.00	
×	Туре				Stage		Status			NT-2216 TRIMOLE, INC. HLL RIGHTS RESE	NED. TERMS OF USE TERMS OF SALE PRIVACY		
08.2018	Field Scouter								22				
duct App									🗎 🗾 🗉				
y. 29, 2017 es: 65.21	7 12:00 PM - 01:00 PM	Spray Volu							30				
	Type: Ground	Spray Volui	me: 5 gai		Pro	duct Applicat	ion						
oduct		PCP	*	Cost/Unit				round T			Cours Change		
	2)	326	27	874.00 jug		cation Type					Crop Stage		
tan IS - (2)	RANSORB HC - (9)	253	64	6.131	Sens	tive Area	(🖲 No 🔍 Yes			Spray Volume	5 gal 🔻	
					Appl	cator Name					Applicator License No		
					Appl	cator Commen	s						
										11			
					Prod	uct	c	ost/Unit R	ate Cost/Ac	re Material (omments Target	Pest PHI	REI
					Sorta	- 15		74 jug 🔻 🔮 🛙	0 an/in x 10.02	0.82 jug			hours
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									66 I/ac 🔻 4.05	43.04 I			 hours
					ROUT	DUP TRANSORB	HC 6	.13 🔻 🔛 0.					
										e - End	Acres W	eather Temp V	
					Field	ID Field Nam	e LLD Date	- Start	Dat	e - End	(m) ()		Wind Sp Wind D
rtan 15 - (2) DUNDUP TF					Field		e LLD Date		Dat	e - End 17-05-29 01:00 Pf	(m) ()		

- 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 (2) 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.

Trimble

Mobile Adding Applications FARMER PRO ONBOARDING

Field Applications 13 Corn - RR - P 2017-05-12 [7005AM	65.21 ac 2018						c]	65.21 ac 2018			
tuals			< Seeding 13 Corn - RR	ê ì≹ ♥ ₩*.	di 98% û 12:58 PM 65.21 ac 2018	Chemicals Fertilizers	⊢ ⊾∘	** •	2000 - 2	C Pesticide Ap	oplication Sea	
Fiday Fiday	P7005AM P7005AM	RR 🗌		12 [544 DAP]	😕 0 Seeding	Seeds			+		My Materials	
			Wed, Nov. 07		0.00 Hours					Product AMS		Balanc 9.99
			Total Area		65.21 ac Overcast 11mph WNW					Atrazine 4L Banvel		-1,291 0 g
			Cost/Acre \$ Crop *	Corn						Clethodim 2E Dicamba		2.49 <u>c</u> 49.66 <u>c</u>
			Description Variety	RR P7005AM						Dual Magnum Durango		-10.02 g -52.67 g
			Rate	Cost/Unit \$ 0.00 S		Total Task Co	ists		\$ 0.00 /ac	Engenia HalexGT		-309.31 g -84.05 g
• -		\	Seeded As Underseeded / Re	Seeded Or		بے •			ć	Jet-Ag LV 6		30 90.42 g
			Total Task Costs		\$ 0.00 /ac					Liberate Tap he	re to fill entire scree	30.80 o en

- 1. Tap into the desired Field
- 2. Tap the desired **Input** tile

0

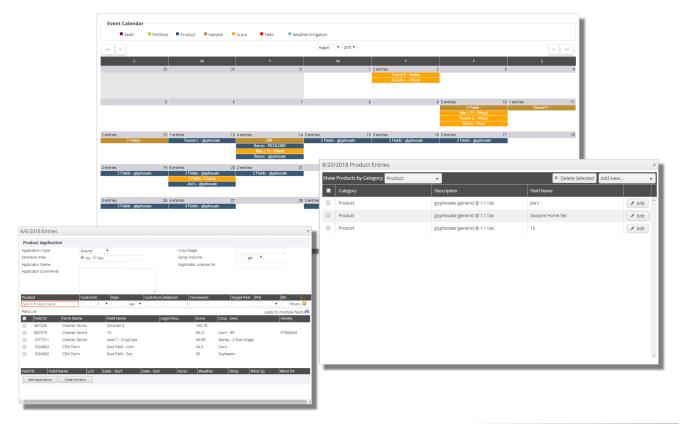
- 0 Fill in application details
 - Tap Input tab (<u>he</u>) to add a new input
 - Tap the **plus** symbol beside the input type to choose input
 - Select My Materials to review the Balance of existing purchased materials
- Tap **Equipment** tab (2010) to add **equipment** to application 0
 - Tap the **plus** symbol beside the **equipment** type to choose equipment .
- Tap **Operator** tab (😕) to add **operator** to application 0
 - Tap the **plus** symbol in top right corner of the app to add a **operator** to the application
- click Save

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



Watch this video to learn more.

Online | Farm Calendar FARMER PRO ONBOARDING



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



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Prescriptions



Online | Managing In-Season Agronomics

FARMER PRO ONBOARDING

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

In this session you will learn:

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

Concepts for Fertilizer Components:

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



Online | Prescriptions Tab Overview

FARMER PRO ONBOARDING

(©:Tri	mble . Farm Field I	Fleet Data Transfer Console	* 🐢 0 🎟
2020 -	Jump to field 🗸		
»>			×
*			
&			Here you can add prescriptions and send them to equipment
2		Here you can add prescriptions and send then	ADD
2		ADD	Upload from ZIP File շիդ
P			Create from Zones
Rx			
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The Prescriptions tab has been added to create, store, and send prescription files to connected displays

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

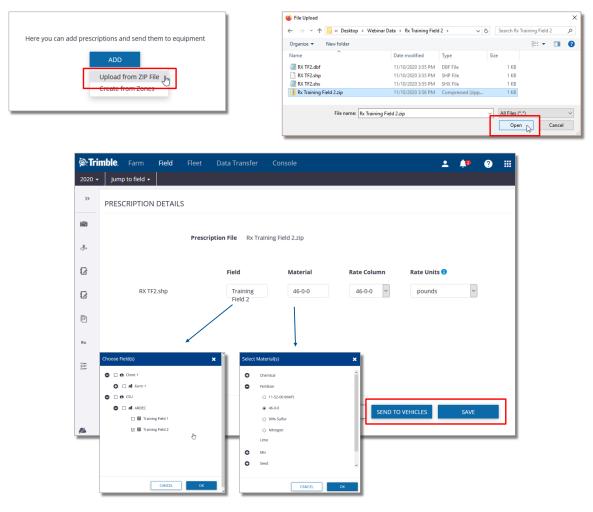
Send directly to any AutoSync or Office Sync display All material types are supported

- Fertilizers, Seeds, Chemicals, Tank Mixes
- Prescriptions that are saved are not able to be edited
- Delete a Prescription and recreate to make any changes
- Deleting a Prescription will not send a delete request to the display via AutoSync



Online | Add Prescription from Zip File

FARMER PRO ONBOARDING



Add Prescription from Zip File

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



Online | Send Multiple Prescriptions

FARMER PRO ONBOARDING

>:Trin 2020 -		Farm Field Fleet	Data Transfer Conso	ble			* 🍂 3 🏢
»	Sear						SEND + ADD
	Q	FILTER BY	Active Filter None				
&		Prescription ~	Date Uploaded ~	Field	Added to Work Order	 Status 	~
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2		TrainingField1_Barley_AACS	11/11/2020	Training Field 1	No		1
_		4 zone rx	11/10/2020	Training Field 1	No	View	1
2		test from zones	11/05/2020	Training Field 1	No	View	1
Þ		Planting RX for 350	10/06/2020	Home Field	Yes		1
		Fert	10/06/2020	Home Field	Yes		1
Rx		GIS-RX-download	10/06/2020	WOTest072020	Yes		1
۵			O 🗆 Una:	ported vehicle displays. ssigned SE Tractor CANCEL	SEND		
8 Tri 2020 -	Ju	mp to field 🗸	Data Transfer Con	Prescription(s) Sent!	×		± ∳° ⊘ ∷
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				 Field Training Field 2 	Added to Work Order	✓ Status	SEND + ADD

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



Online | Sent Prescriptions Status

FARMER PRO ONBOARDING

2020 -	Jun	np to field 👻									
>>	Sea	rch								SEND	+ ADD
1	Q	FILTER BY 👻	CLEAR FI	LTER None	ve Filter						
æ		Prescription	~	Date Uploaded	~	Field	Added to	Work Order	~ Status		~
~~~		RX TF2		11/11/2020		Training Field 2	No				1
		TrainingField1	_Barley_AACS	11/11/2020		Training Field 1	No				:
_		4 zone rx		11/10/2020		Training Field 1	No		View		
		test from zone	25	11/05/2020		Training Field 1	No		View		
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d History						× ield	Yes				:
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ld Name		ining Field 1				Send History					×
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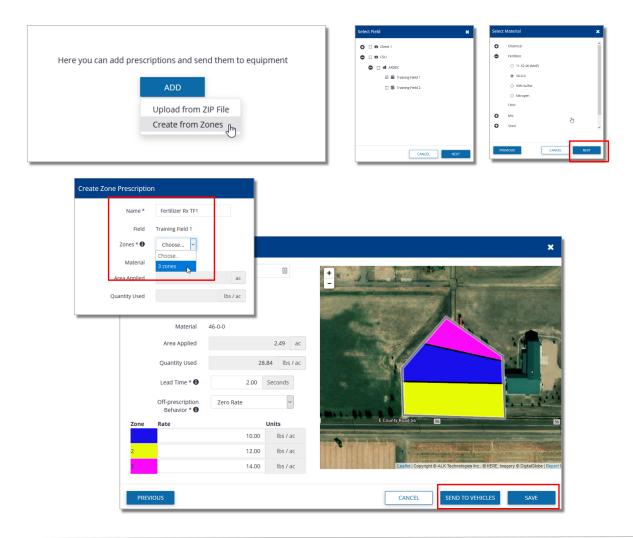
View the status of sent prescriptions

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



### Online | Add Prescription from Zones

FARMER PRO ONBOARDING



Create from Zones

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



#### **Online | Prescriptions (Quick Blender)**

FARMER PRO ONBOARDING

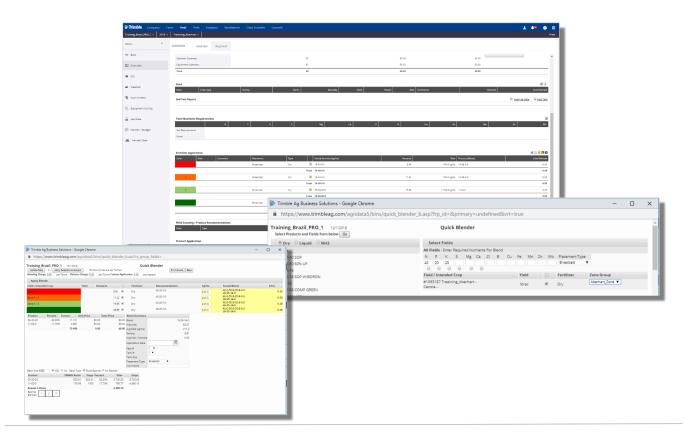
ld Zoi	one Management	t								✿ MANAGE ▼
verZo	one 2.0									Add Zone
one ID	Zone Name			Acr	ы	% of Field	СРІ		Target Yield Descript	Add Zone From Shapefile Draw New Zone
1	Zone 1			1.4	19	2.28 %	88.07		50	Draw New Zone
2	Zone 2			3.2	27	5.00 %	91.73		60	
3	Zone 3			5.3	35	8.19 %	96.53		68	
4	Zone 4			7.3	79	11.92 %	98.87		70	
5	Zone 5			33.9	93	51.91 %	100.78		72	
	BOUNDARY	BENCHMARKS	ZONES	GUIDANCE LIN	ES LANDN	ARKS	103.10		75	
			201123						70.95	
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Zone N Zone ID Low Va High Va Create DBF V Zone F 4 1 1 1 3 1	ne_Map_Field_12 Name: N ID Column: A Jalue ID Column: Jalue ID Column: Cancel Field Area-Calc C 13 12 13 12 13 21.65 13 7.41	3 12.48 k dymt sones Zone ¥ Set ¥ ¥	B.dbf,.sh	100% Xshp WGS Nutrient Zone: O M	4 • io @ Yes Zono Field Zones Zone Name: P Zone ID CC 1 0 3 2 4 5 7	transfer	Acres 1.49 3.27 5.35 7.79	Target Yield           50           60           68           70		

- 1. Before you start, make sure your Zones are set as Nutrient Zones.
  - $\circ~$  From Zone Import:
    - Click into a field > click GIS tab > click Zone tab within GIS
    - click Manage > click Add Zone form Shapefile > click Choose files > select the shp shx dbf and prj files for zones > click op
      - Enter zone name
      - Nutrient Zone: Yes
      - Zone ID Column : (select the zone id attribute)
      - click Set Default Colors
      - click Create Zones
  - From Zone Edit:
    - Click into a field > click GIS tab > click Zone tab within GIS
    - click Zone Edit( ) button in upper far right corner of existing zone file
      - Nutrient Zone: Yes
      - click Save



#### **Online | Prescriptions (Quick Blender)**

FARMER PRO ONBOARDING



- 1. Go to Field Profiler > Select Desired Field, using the Legacy Field Manager, scroll down until Fertilizer Application
- 2. Click <a>Image: On the right menu</a>
- 3. Fill out your recommendation: NPK = 20-20-40
- 4. On the left, pick a **Product** for each nutrient
- 5. Select Form: Liquid
- 6. Right at the bottom of NPK, select the circle correspondent to the Nutrient Driver: N
- 7. Select Placement Type: Broadcast
- 8. Select the Zone Group: Management Zone used for VRA
- 9. Click: Go
- At the next screen:
- 1. Select the **Zones** you want to run same blend
- 2. Select the **Pass** and **Tank** (If more than one blend is going to be used, make sure you change your Tank)
- 3. Click Apply Selected as Actuals
- 4. Repeat the steps for the other zones that will have a different blend.
- 5. Click at 😰 on the Field Overview Screen to print a report and generate a PDF, or to generate a prescription file and send to connected vehicles.



## 0.4.e

### Weather



# Online Premium Weather



#### **Objective: Learn how to use the Premium Weather feature**

Hybrid of radar satellites and weather stations

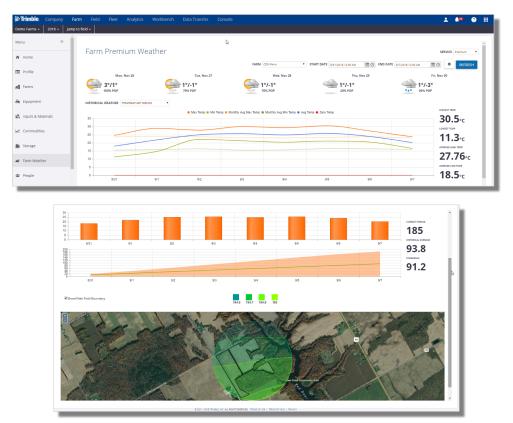
- NA 1km spatial res
- Central and Latam America 4km spatial res
- Europe 1km spatial res
- AUS 1km spatial res
- Middle East 4 km spatial res
- Western Russia 4 km spatial res
- $\circ$  India 4 km spatial res
- $\circ~$  Remainder of Globe 7km spatial res

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



### **Online | Premium Weather**

FARMER PRO ONBOARDII



- 1. Click Farm > Farm Weather
  - Service should be set to **Premium**
  - Provides current and historical Farm Weather information over the whole farm and at the field level
  - Units of measurement for Premium weather can be set through the Person icon ( 2) > My Settings > Unit Systems or Customize Unit System or can be temporarily changed using the Gear icon ( 🍄 ).
  - Current 5 day weather forecast is located at the top of the Farm Weather page
  - For Historical Weather records:
    - Select the Farm: CDN Farm
    - Select the Start and End Data: Aug 31 2018 Sept 7 2018
    - Select a Historical Weather type: Growing Degree Days
    - click **Refresh**
- 2. Click Field > Weather
  - Options are identical to the Farm Weather, just at an individual field level.



# Online | Premium Weather (cont)

	Product Applicati	on								
	Application Type		Ground			Cr	op Stage			
	Sensitive Area		● No ○ Yes			Sp	ray Volume		5 gal 🔻	
	Applicator Name					Ap	plicator Licen	se No		
	Applicator Comments									
	Product		Cost/Unit	Rate	Cost/Acre M	aterial Con	nments	Target Pest	PHI	REI
	Sortan IS		874 jug 🔻 🧲	80 ac/ju; 🔻	10.93 0.4	32 jug				<ul> <li>hours</li> </ul>
	ROUNDUP TRANSORB H	с	6.13 I 🔻 🤤	0.66 I/ac 🔻	4.05 43	.04				🔹 hours 🗉 🚍
	Field ID Field Name		Date - Start		Date - Er	d		Acres Weather	r Temp Wir	nd Sp Wind Dir
	867573 13	[	2017-05-29 12:00 P	M	2017-05	-29 01:00 PM	Ē •	65.21 Sunny	65 °F 11	mph SE 🔻
	호 🕸 🎬 🎜 28% 🖨 1:54 PM		2 🔊 🖓	al 28% 🛙 1:54 PM	Δ	2 iž **	al 28% 🖬 1:53 PM			
ld Sco		< Weath	her		< Weather Re	strictions	8	0.5.1/ac		-
1: Co 20	3 65.21 ac orn - RR - P7005AM 2018 017-05-12 [567 DAP]	2° Cloue Wind 1 1° Humid	dy 13km/h E lity 76% Precipitation 0%		Temperature		1			Hail Alert
	Fri 30 Crop Stage	03 PM	1° <u> </u>	ENE 8km/h	Max					74 J2
2	01:54PM Crop Condition	04 PM	0	ENE 9km/h	Humidity		1			There has been a hail event in your area.
	N 0 kmph		Sunset 4:36 PM		Min				Sample Farm	Hall Aler( Oct 12, 2
-	Soil Roots Key Dates		-1° - 0%	ENE 11km/h	Max				Mar Ba	
9	A 🗠 📶		-1* 0% 0* 0%	ENE 13km/h	Soil Temperatu	re	1			
***	0 Insects Diseases Nematodes		0	E 15km/h	Min					
	A 🙈 🖏		0* - 0%	E 18km/h	Max					0.50 0.75
0		10 PM	1°0%	E 20km/h	Wind Speed		/		1000	126
	Ø	11 PM	1°0%	E 21km/h	Max				C. Martin	200
		12 AM	2* 0%	E 23km/h	Notes					275
ints		01 AM	2° 0%	E 24km/h					CONTRACT OF	350
		02 AM	2* 👷 10%	ENE 25km/h						
menda	time	03 AM	3* 👷 20%	ENE 27km/h					1000	
			3° 📻 60%	ENE 29km/h						
-	10 + 🗙 M		3* 🧼 80%	FNF 32km/h		_				
Ļ		•	- 0	ć	• =	G	÷			

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

#### Trimble

# 0.4.f

## Imagery



# Online | Crop Health Imagery

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

**1. Color Infrared** False color composition Used to ground truthing

#### 2. Natural Color (RGB)

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

#### 3. Vegetation Index (Calibrated)

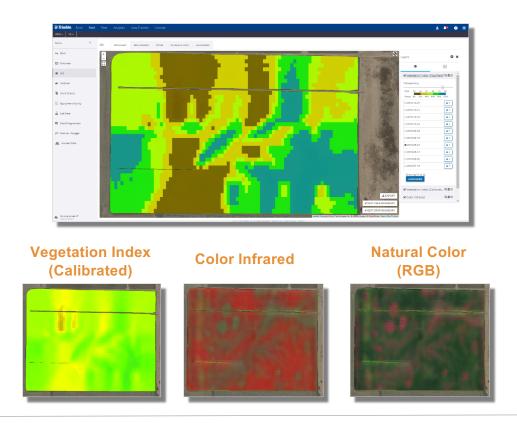
Multiple satellites cross-calibrated Veg Index Used to monitor crop health

#### 4. Vegetation Index (Classified)

Vegetation index classified into 5 classes Used for scouting and application

#### Trimble

# Online Crop Health (CHI)



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

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



Watch this <u>video</u> to learn more.

## **Online** Crop Health Imagery

FARIVIER	PRUUNB	OARDING
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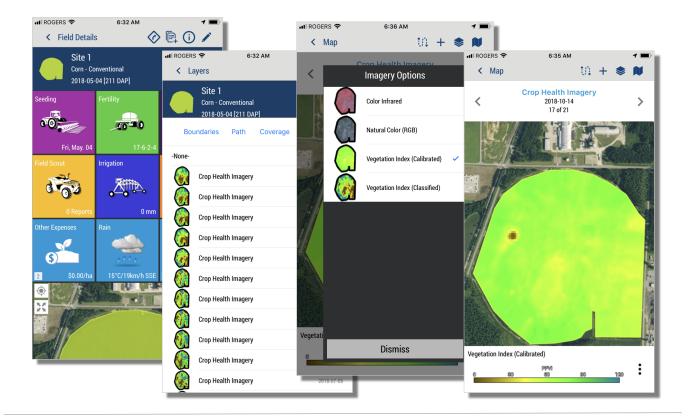
lenu «	Q FILTER BY • O CLEAR FIL	Active Filter None						
Field Profiler	Field Name	Client Name	Farm Name	Crop	Vegetation Index (latest field avg.)	Standard Deviation	Seed Date	Latest Imagery
	Site 36	Test Sites	Test Sites	Wheat	2	1.8		2018-10-17
8- Farm Map	Site 35	Test Sites	Test Sites	Wheat	86	8.6		2018-11-12
	Terry_EldensQuarter_2017_wheat	Megan	Megan	Wheat	No Data			Coming Soon
Crop Planner	Site 22	Test Sites	Test Sites	Wheat	84	3.8		2018-11-24
	Site 26	Test Sites	Test Sites	Wheat	107	1.9		2018-11-09
Work Orders	Site 34	Test Sites	Test Sites	Wheat	92	10.4		2018-11-23
	Terry_DadQuarter_2017_wheat	Megan	Megan	Wheat	No Data			Coming Soon
Crop Health	Site 13	Test Sites	Test Sites	Wheat	17	7.5	2018-05-05T11:48:20Z	2018-10-24
Equipment Activity	Site 15	Test Sites	Test Sites	Wheat	20	11.1	2018-05-04T11:59:46Z	2018-10-29
Equipment Activity	A5_subfield	Megan	Daniel	Corn	No Data			Coming Soon
K Harvest Summary	A5_subfield	Megan						Coming Soon
in the test sectory	Site 1	Test Sites	Vegetation Index	c site 1		×	2018-05-04T00:00:00Z	2018-11-17
🕄 Farm Calendar	Site 3	Test Sites				_		2018-11-26
	Site 4	Test Sites	1					2018-11-22
	Terry_Kiman_Peas_2017	Megan	120 -					Coming Soon
			104 60 - 40 - 20 -		2018-07-11			
Syncing turned off Last 24 hours		_	0-2015-62-06	2018-05-12 Period Vegetation Indi	2018-08-15 2018-11	. –		

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



Watch this <u>video</u> to learn more.

# Mobile Crop Health Imagery



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

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

#### Trimble

## 0.4.e

## Scouting



# Online | Scouting

Strimble. Farm Field	Fleet Analytics Data Transfer Conso	e				± 📌 📀 🎟		
2018 • Melvin's •						Print		
Menu «	OVERVIEW OVERVIEW FIELD MAP							
← Back						i		
Overview	2018 Field Manager					O MANAGE -		
	Field Details # 723653							
🗰 GIS	Field Name Melvin's		ADS Field ID	723653	PSA #			
	Legal		# Acres	148.06		No		
🛎 Weather	Crop Alfalfa		Variety		Seeded Date			
Work Orders	Target Yield		Actual Yield		Harvest Date			
IE Work Orders	Notes:							
Equipment Activity								
-	Seed Date Crop Type Vi		Germ. Mortali	y Seed Plants	Rate Comments	Acres		
🛆 Lab Data	Date Crop Type V	riety	Germ. Mortal	y seed Plans	Rate Comments	Adres		
Planner / Budget	Soil Test Report				2 A	nalvze data 🕞 Add Test		
		OVERVIEW OVERVIEW	FIELD MAP					
₭ Harvest Data			FILLS MOL					
	Fertilizer Application	Field Scouting F	Report					1
	Date Comment Place	There becouting i	Cepore					
	Field Scouting / Product Recommendations	Field #867573: 13						
	Date Type	Name Grop	13 Corn - RR	Legal Variety	P7005AM	Acres Seeded Date	65.21 5/12/2017	
	May. 29, 2018 Recommendation	Target Yield	COTTO NK	Actual Yield	P /ww.mm	Irrigated	No	
Syncing turned off	Advo 44 2018 Dald Counter	Crop Info						*
Last 24 mars		Date Scouted 10/31/2018 1:26	m	Crop Com + Add Crops	Crop Stage	•	Crop Condition	•
			M DO	crop cam + Add crops	crop stage		crop contation	
		Weather Info	Win	i mph 🔻 🔻	Temperature	*F * Humidity	Get Weather	*
		Description	Win	inpo -	remperature	Humaity	ue: Weather	
		Plant/Seed						¥
		Soil						*
		Roots						
		Crop Nutrition						¥
		Weed Information						*
		Insects						*
		Diseases						¥
		Nematodes						¥
		Comments						*
		Product Recommendation						*
		Crop Advisor: Brent Chenier						Licence #:
		C		m	Application Trans	Cound	•	

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

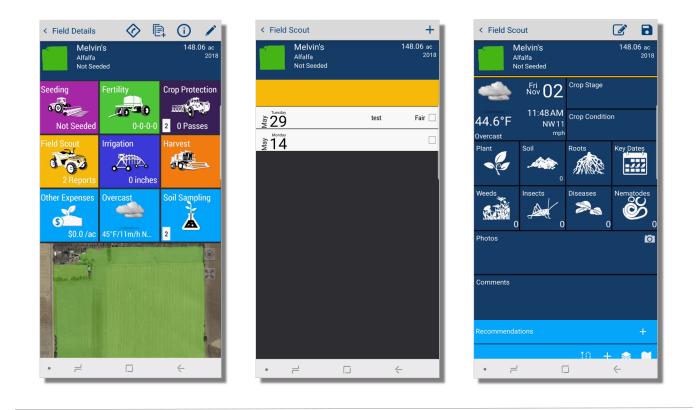
For existing scouting reports, the buttons below do the following:

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



Watch this <u>video</u> to learn more.

# Mobile Scouting



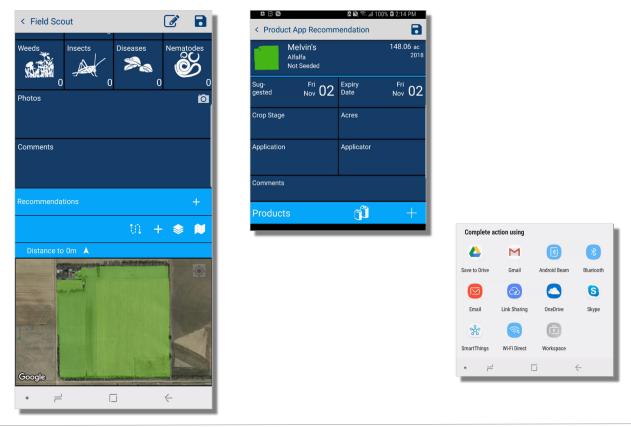
- 1. In your **Trimble Mobile App**, tap into the desired **field** > tap on the **Field Scout** tile
- 2. Tap on the (+) symbol to add a new report
- 3. Enter required information of Crop Stage and Crop Condition
- 4. You can track the **walking path** by tapping the path symbol ( i) in the mapping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

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



## Mobile | Scouting (cont.)

FARMER PRO ONBOARD



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

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

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



# 0.4 h

## Post-season Reports and ROI Analysis



# Online | Reports

2018 - Jun	p 10 11610 •												
Menu	••	Report Builder											
🚊 Lab Data		Select Report		Report Op	tions								
📈 Field Data	4nalizer	Seed Reports		Soil Placem	nent Application S	ummary							
	~~~~~	Fertilizer Reports		+ Show Pricing	g: © Yes ® No								
Reports		Pessicide/Product Reports			TE REPORT								
E Marias Pa	ekina Chase	Financial Reports		+	ITE REPORT								
Farms	Field Manag	rm 🚑		+ Ø Select Fie	elds Type to search				larres.		Show Parent Fields Vie		
9-13				+ 2	XR II	67573	Field Name	Location	Acres 65.21	Crop - Desc	va	riety	
13 - Chenier Farms	ADS Field ID 867573			+ 2		024002	East Field - Corn		24.3	Corn			
	# Acres 65.21	Irrigated No		+	1	024002	East Field - Soy		30	Soybeans			
Corn - RR	Variety P7005A					167526	Ochsner E	Home 1	041318 - Done			Start 04/1	3/2018 9:08 AI
	Actual Yield	Harvest Date				014809	Ochpher E 1	Home Farm	G-FTG TG - Done				/2018 11:32 Af
					1	077211	west 7	Demo 2018 - 2	019				
Crop Type Varie		Seed Plants Rate Comments Acr	res Cost/Acre					Spraying		Farm: Field	Home Farm: Home 1		157.11 a
UnderSeeded/Refuge	5AM 96 96 91.# 0	65.	21						Ť	Crop Variety Target Yield	Corn C/C-216-36STXRIB 180 bu/ac		
ter In seed Seed Liq	(874) uid 3-11-1-0 0	Rate Product (Blend) Cost/Arre 5.21 4.5 gal/ar ALPINE G22 17.20 5.21 153 B/ar 46.9.0 26.90											
a Side band Dry Band Band Dry		5.21 163 lb/ac 46-0.0 26.90 5.21 165 lb/ac 5-24-29-1-23.3Cl- 38.12 0.12n						Comments:	A RECOVERED	•			
Te	tal 87-52-49-3-38.5CI-0.2Zn	82.22						Chemicals	Acres EPA #	Actual Rate	Target Pest Commen	Quantity	Cost/ac
pplication			_					Strut	157.11	0.06 gal/ac		9.56	3.04
117 12:00 PM - 01:00 PM Spray Volume: 1	gal Sensitive Area: N	Weather: Surry 18.33°C 6.84km/h SE	_					Atrazine 4L	157.11	0.12 gal/ac		19.13	5.29
n Type: Ground	e	vments Target Pest PHI REI Cost/Acre						LV 6	157.11	0.06 gal/ac		9.56	1.83
	CostAlnik Rate Cos 874.00 jug 85 ac/jug	whenks Target Pest PHI REI Cost/Acre 10.28						AMS	157.11	1.95 lb/ac 0.24 gal/ac		306.03 38.25	0.00
	6.131 0.7 Vac	4.29						Surfactant	157.11	0.24 gal/ac		3.83	0.24
100000000000000000000000000000000000000	alting Areas No. Weathers I	aschy light rain with thunder 26.11°C 3.73km/h S								J			-
7 05:40 PM - 07:00 PM	and the second second second							Operator		License	Duratio		Cost/ac
7 05:40 PM - 07:00 PM		Target Pest PHI REI Cost/Acre						Tracy Tjaden		987654321	1.90	18.00	0.22
7 05:40 PM - 07:00 PM 1 Spray Volume: 5 pil See n Type: Ground PCP # Cost/Link								Equipment			Acres	Cost/hr	Cost/ac
7 05:80 PM - 07:00 PM 11 Spray Volume: 5 gal See 17 Type: Cround PCP # Cost/Unit 9) 28:87 5:81	Rate Comments 0.75 Max 1.25 Max	4.41	_					4730-Sprayer				60	
7 05:00 PM - 07:00 PM 1 Spray Volume: 5 gal Sen Type: Ground PCP 8 Cost/Unit 0 28:457 5.81 4:601	0.75 Kac	4.41						4750-Sprayer					
7 05:80 PM - 07:00 PM 11 Spray Volume: 5 gal See 17 Type: Cround PCP # Cost/Unit 9) 28:87 5:81	0.75 Kac 1.25 Kac	4.41											
7 05:00 PM - 07:00 PM 1 Spray Volume: 5 gal See Type: Ground PCP / CostUne: 9 28:427 5.83 l 4:60 l	0.75 Kac 1.25 Kac al Sensitive Area: No Rate Commercis	4.41 5.75 Weather: Light Snow -13.89°C 3.73km/h NC						Conditions Temperature		55.00°F			

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



Online | Harvest Data / Profit Maps

FARMER PRO ONBOARDING

Field Profiler	2017 Harvest S	ummarizer								Search Field	in Cr	p-Al *	Group By Farm(s) *			
													SAVE CHANGES			
🕭 Farm Map	Field ID F	ield Name	Crop - Desc Variety	Seeded Acres	Harvest Date		Acres Actual	Yield	Total Yield	6	ornments	>> Sale Price				
Crop Planner		del Park - Corn		100				•		0			8			
D		del Pork - Soybeans	STrimble. Company		Field Fleet											🔔 🦊 (
Work Orders		ndersons	Demo Farms + 2017 +	13 -												
Equipment Activity		K. Home SO.	Menu	**												
		K& Merical														Harvest
₭ Harvest Summary		lake's	+ Back		vest Summary											
Farm Calendar	893733 E	oyer			ld Data			_				Yield Map				
	893734 E	rodericks	Overview 0			2/25/2017	Ē	Acres	65.35			\$				
Farm Nutrient Manager	893735 8	ruce Kent	🗰 GIS		Price 3.4		٠	Total Meld % Moisture	4533.40	NU 🔻		V			-	
	893736 0	utterbaugh		Con	rments							2		5 C	2.5	
	893737 0	alan	📲 Weather	s	WE YIELD MAP P	DE PROFI	E MAP POF		ield Area: 65.21	C Target	rield: 65 bu/ac	•	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100	S. 8 60	
	893738 0	arter's	Work Orders											SAL		
	893739	harlie's	Ig work orders	-	Filename				Тур						100	
	893740 0	hew	Equipment Activity		Vield-Demo Farms-C				Yiel		2018 R34 AM			1	1 A A	
		onnolys			Profit-Demo Farms-C	henier Farms-13	5-2017.pdf		Pro	ft 10/3	1/2018 8:42 AM	ht Ave		A 65		
Syncing turned off			🛆 Lab Data	D	ELETE									11.64	🕽 bing	t Corporation & 2018 MERCE Tem
Last 24 hours			Soil Analyzer	Yield	d By Zone Zone Samp										6 2//3 200888	r Calification e 2013 Habita 114
				Zor		CPI	Tar. Yield	Yield	Cost	CPUP	Profit	Yield (bu/ac) 22.6 - 55.7	55.7 - 66.2	66.2 - 73.3	73.3 - 78.7	78.7 - 83.9
			Field Programmer		3.27	88.07 91.73	65.00	76.81 82.95	\$156.71 \$156.71	\$2.04 \$1.89	\$108.28	83.9 . 83.5	20.5.43.4	10.2 - 79.3	99.4.107.6	107.6.134.8
			FD Planner / Budget		3 5.35	96.53	65.00	92.57	\$156.71	\$1.69	\$162.65	Bin Profiler	00.3 - 55.2		224-1012	101.0 - 124.0
			En Franker Franger		4 7.79	98.87	65.00	88.96	\$156.71	\$1.76	\$150.21	Source	Location		Amount	Time
			🚿 Harvest Data		33.93	100.78	65.00	77.43	\$156.71	\$2.02	\$110.42					0.00
					0 13.53 65.36 ac	103.10	65.00	86.12 82.10 bu/ac	\$156.71 \$156.71/ac	\$1.82 \$1.92	\$140.42 \$129.55/ac					
					65.36 AC	99.94	65.00 BU/ac	82.10 BL/JC	5136./1/ac	51.92	5120.55/#c					
															l≥	
			Syncing turned off Last 24 hours									OF LISE 1. THEN OF SALE				

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

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



Online | Proof of Placement Reports

FARMER PRO ONBOARDING

Crimble. Farm Field Srian Field -	Fleet Analytics Data Transfer Console	Upgrade 💄 🌲 📀 🏢
Menu «	Brian Field Brian Stark Stark Farm Crop: Corn 44.4 Acres Planted: No planted date	۰
Field Manager	Activities Profitability Seeding Fertility Chemicals Harvest	
🕅 GIS	Completed Activities	
🛎 Weather	Activity Date A Days After Planting Area	Cost
🗄 Equipment Activity	Fertilize 02/07/2019 48.46 ac	\$120.87 View Summary
👗 Lab Data	500b - CORN PLANTING 5-13-16 - Done Start 05/13/2016 11:53 AM	View Report Edit Delete
 More Syncing turned off Last 24 hours. 	MAIN STATION Brent Chenier - Core Planting 2.69 ha Farm: Field MAIN STATION: 500b Seeded Date 05/12/2016 8:00 PM Crop Corn Variety DEKALB DKC43-48RIB	
	Seed Variety Hectares Actual Rate Quantity Cost/ha	
	Corn DEKALB DKC43-48RIB 2.69 83,549.78 lb/ac 224.42 kS 0.00	
	Equipment Hectares Cost/hr Cost/ha	
	Tractor 1 2.69 0 0.00	
	MONOSEM 2.69 0.00	
	Total Cost/ha 0.00	

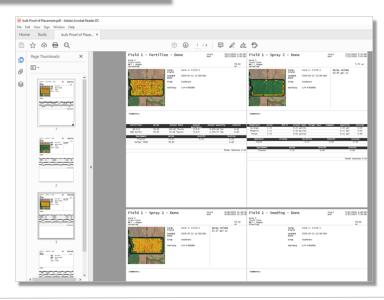
- 1. If application information is uploaded via equipment activity, you can also print a **Proof of Placement** report for infield applications, which would also include the uploaded coverage map
 - After verifying the task in equipment activity, go to the Field Manager
- 2. Click View Report from the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

Online | Bulk Proof of Placement Reports

FARMER PRO ONBOARDING

(i): Trin	nble.	Farm	Field	Fleet	Data	Transfer	Conso	le
2020 -	Jump	o to field 👻						
*	Q FI	LTER BY		CLEAR FILT	60	Active Filter 01/01/2020 - 1	12/31/20	20
123		Name		Date 🝷		Client		Farm
		🟦 Fertili	ze	10/04/2020	10:45:00 F	PM Client 1		Farm 1
&	Ø	₩ Harves	st	10/04/2020	4:30:00 PM	d Client 1		Farm 1
0		m Spray	/2	07/13/2020	3:45:00 PM	M Client 1		Farm 1
-		鴌 Spray	1	06/18/2020	8:15:00 AI	M Client 1		Farm 1
0		🗮 Seedi	ng	05/12/2020	3:50:00 PM	M Client 1		Farm 1
Ð		💻 Planti	ng	01/13/2020	4:06:40 PM	M CSU		ARDEC
		溦 Tillag	e (01/13/2020	3:44:45 Pf	M CSU		ARDEC
Rx								
ŧΞ	5 tasks	selected						
		+ ADD		EDIT	D	ELETE	VIEW F	REPORT
			_		_			

Jump t	o field 👻		
0.011	50 DV	0.0540	Verify Activities
Q FILI	ER BY 👻	CLEAR	Select verify to confirm that you've reviewed all selected
	lame	Date 🔻	activities for their accuracy. This will verify any unverified activites, and add them to your field records so that you
	E Fertilize	10/04/20	can view their reports.
	K Harvest	10/04/20	CANCEL VERIFY
	🛒 Spray 2	07/13/202	20 3:45:00 PM Client 1 Farm 1 Field 1



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



0.5

Standard and Display Work Orders



0.5.a

Standard Work Orders



Online | Work Orders

Menu «	All Planned In Progre	iss Done					
iii Field Profiler	Q FILTER BY • O CLE	ACTIVE Filter AR FILTER None					+ ADD
	Field	 Planned Date 	 Operation 	~ Name	~ Area	~ Status	~
🐣 Farm Map	Ochsner E	02/06/2019	Other	scouting	150.79ac	Planned	1.1
Crop Planner	13	02/06/2019	Other	Scouting	65.21ac	Planned	1
	14	02/06/2019	Other	scouting	36.34ac	Planned	1
Work Orders	west 7	02/06/2019	Other	scouting	63.99ac	Planned	:
	Ochsner E 1 - Corn	02/06/2019	Other	scouting	100ac	Planned	
Equipment Activity	14	01/23/2019	Other	Scouting	36.34ac	Planned	÷
₭ Harvest Summary	west 7	01/23/2019	Other	Scouting	63.99ac	Planned	1
	Ochsner E	01/23/2019	Other	Scouting	150.79ac	Planned	
🖬 Farm Calendar	13	01/23/2019	Other	Scouting	65.21ac	Planned	
	East Field	11/08/2018	Spraying	pre spray	64.3ac	Done	
	13	06/08/2018	Other	Scouting	65.21ac	Done (06/08/2018 13:18:14)	
	Ochsner E	06/08/2018	Other	Scouting	150.79ac	On Hold	
	Ochsner E	05/07/2018	Other	ttt	150.79ac	Done (05/10/2018 14:15:52)	
	Ochsner E	05/07/2018	Spraying	test	150.79ac	Planned	1
	Ochsner E	05/07/2018	Spraying	test	150.79ac	Planned	:
					Total: 1,465.33ac		*
Syncing turned off	Page FIELDS	Planned Scout		ev		1 - 15 of	15 items
rhart Farms inc. nt Chenier 18	14 Brest Charlier 36.34 ac	General Material Choose Forms Task	s (0) Equipment (0) Operators (0) I (Name *	Restrictions	combine 1		
gned	7.28 ac	: Chenier Forms 9: 8:00:00 AM	Crop * 2018 Unassigned crop (14)	Manage Operation Types +	Budgeted Tim	e 0.00 hrs	
	02/22/2019	Planned Di	ate/Time 02/22/2019 8:00 AM		Cos	st \$0.00 / hr	
		Expiration D	ate/Time 02/22/2019 8:00 AM				
			Area	36.34 ac			

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

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



Online | Work Orders (cont.)

FIELDS	Planned Name				
10 Brent Chenier : Farm 1 51.28 aC 02/22/2019 8:00:00 AM	General Materials (0) E	Equipment (1) Operators (1)	Restrictions		+ ADD
	OPERATORS				
	Name		Budgeted Time	Cost	
				## 00 (h.)	
	Doug Chaffer		0.00 hrs	\$0.00 / hr	
FIELDS	Planned		0.00 hrs	suuu / nr	
FIELDS			0.00 hrs		Restrictions
10 Brent Chenier : Farm 1	Planned		0.00 hrs		
FIELDS 10 Bert Ownier : Form 1 51.28 aC 077272019 8:00:00 AM	Planned Name	Equipment (1) Operators (1)	0.00 hrs Restrictions		

°C

°C

15 kph

1. Click **Operator** tab to add operator to the Work Order

35 °C

a. click +Add

10 °C

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

Trimble

*

°C

96

96

°C

15 kph

SAV

Minimum Humidity

Maximum Humidity

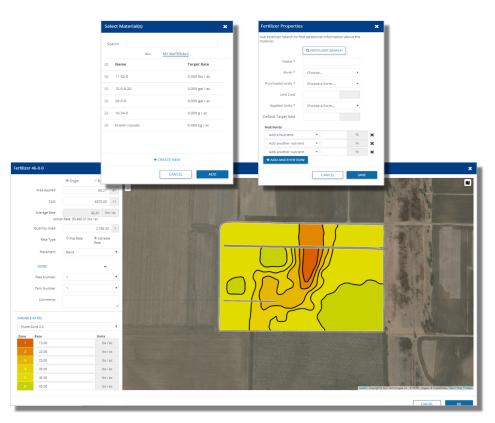
Crop Stage

CANCEL

Minimum Soil Temperature

Maximum Soil Temperature Maximum Wind Speed

Online | Work Orders (VRA)



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



Mobile | Work Orders

FARMER PRO ONBOARDING

< 🗞 Trimble 🔛 😋 📕	< Work Order	< Crop Protection	< Crop Protection
Danielle's Demo 2018	Weather Restriction	Weather Restriction > Across Old Highway 2 139.7 ac 2018	Test 154.7 ac Wheat - Durum 2018 Not Seeded
Fields Bins Contracts	Across Old Highway 2 +3 Others	Not Seeded W 15-39-7-W3	✓ Done
4455.07 ac 2 0	► Start	II Pause 🗸 Done	= 🐴 🚓 🛎
Crop Inputs Commodities Farm Map	😑 🐴 🖧 👛	= 🐴 🎭 📥	Task Name 3 fields
🔄 🛋 🕹	Task Name Herbicide - Spray	Task Name Herbicide - Spray	Thu, Jun. 28 14.38 Hours
\$0 0	Operation	Mon, Nov. 05 0.00 Hours	Total Area 154.7 ac
Reports Contacts Time Tracker	Spraying	Total Area 139.7 ac	Cloudy 72°F Cloudy 13mph WNW
	Planned Date Expiry Date Tue, Jun. 05 Wed, Jun. 06	21°F Light Snow 21mph NNW	Crop Stage
Settings Fleet CRM	Crop Stage Stage 6	Crop Stage	Application Applicator Ground
ଦିନ ଦିଳ 🖉	Weather Restrictions	Application Applicator	10 gal Comments
Weather Work Orders	Comments	Comments	Products 🎁 🕂
	Total Task Costs \$ 0.00 /ac	Total Task Costs \$ 0.00 /ac	Total Task Costs \$ 0.25 /ac
• =	• =	• =	• =

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



Mobile | Work Orders (VRA)

Fertilizer *		Rate		Quantity Used
46-0-0		257.57 lb	/ac	13.94 T
Pass #	Tank #		In-Sea	ason Zones 🛛 🗸
1	1	1	Dete	U-Sec.4
Placement	Туре	Zone	Rate	Units 🗸
	Dry	1	100	lb/ac
Area Applied	Cost/Unit	2	200	lb/ac
108.16 ac	\$ 350 T			
Flat Rate	Variable Rate	3	300	lb/ac
Rate	Quantity Used	4	400	lb/ac
257.57 lb/ac	13.94 T	Concernation of the local division of the lo	E-50	0.5
	Season Zones V			- ARC
Zone Rate	Units 🗸	479		
1 100	lb/ac			· · ·
2 200	lb/ac			
3 300	lb/ac	Google Comments	ant Charlos	Constant of the
4 400	lb/ac			
Tap he	ere to fill entire screen		T	to fill entire screen

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

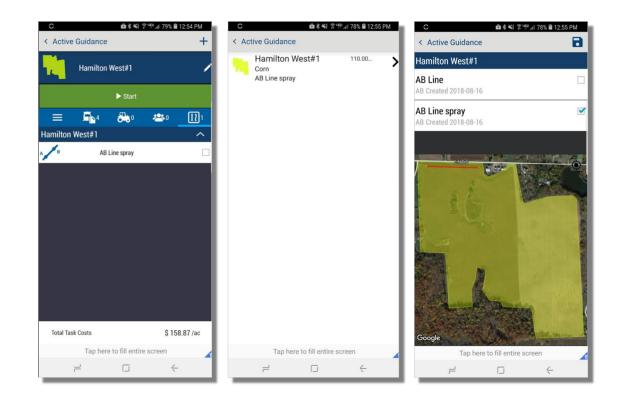
Adding VRA Fertilizer to a Work Order:

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



Mobile | Work Orders (Guidance Lines)

FARMER PRO ONBOARDING



Using Guidance Lines in a Work Order:

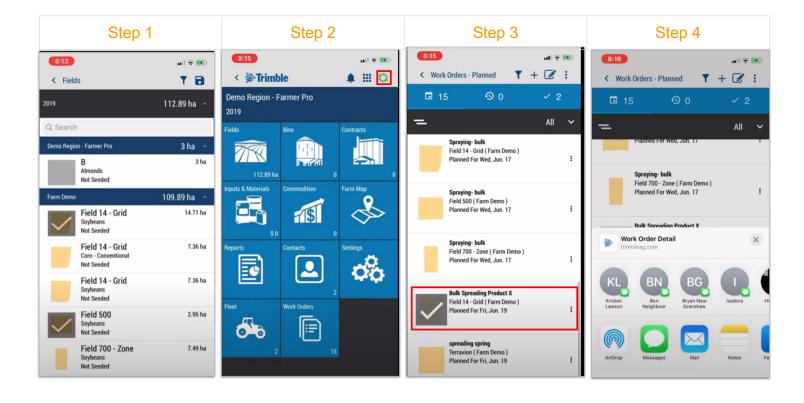
- 1. While setting up your Work Order, tap the Guidance Line icon (D)
- 2. Tap the **Plus** symbol in the top right corner
- 3. Tap the Field you wish to add the guidance line to
- 4. Check off the appropriate guidance line
- 5. Tap Save
- 6. Tap **back** button in top left
- 7. Continue filling out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

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



Mobile | Bulk Email Work Orders

FARMER PRO ONBOARDING



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



Watch <u>this video</u> to learn more.



Mobile | Bulk Email Work Orders

FARMER PRO ONBOARDING

	Date: T Subjec	Viviane Faria < <u>viviane_faria@trimble</u> 'hu, Jun 18, 2020 at 7:46 AM t: WO testing iane Faria < <u>Viviane_Faria@trimble.c</u>		Step 6						
	Field 1 https://		id, Field 500, Field 700 - Zone -		829,524833,524830&metric=True					
s	Steps 7 & 8	Work Order S Demo Region - Farme Spraying	5			06/17/2020 06/18/2020				
	Summary	Field	Farm	Сгор	Activity Hectares					
_		Field 14 - Grid	nble.com> you the following work order links: 14 - Grid, Field 500, Field 700 - Zone - Spraying- bulk report/?id=54926770-6702-4ed7-ab5b-b27b2a47f5e4 524831 524832 524829 524833 524830&metric=True er Summary armer Pro							
ľ	Field 14 - Grid 7.36 ha	Field 14 - Grid	Farm Demo	Soybeans	7.36					
	Planned For: 06/17/2020	Field 14 - Grid	Farm Demo	Corn - Conventional	7.36					
	Field 700 - Zone	Field 500	Farm Demo	Soybeans	2.95					
	7.49 ha	Field 700 - Zone	Farm Demo	Soybeans	7.49					

Active Ingredient

Application Method

27818

39.87

0.00 t

Total Quantity

985.19 l

Total Carrier Volume

Rate

Carrier Rate

0.00 kg/ha

24.71 l/ha

6. Destinatery receives a link with all Work Orders shared.

2,4-D Ester 700

Activity Area

39.87

Chemical

Fertilizer

10-34-0

Total Activity Area

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



FIELDS

Planned For: 06/17/2020

Planned For: 06/17/2020

Planned For: 06/17/2020

Planned For: 06/17/2020

Field 14 - Grid 14.71 ha

Field 14 - Grid 7.36 ha

Field 500 2.95 ha

0.5.b

Display Work Orders With Auto Sync



0.5.b.i

AutoSync™ Feature



AutoSync Summary



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

The AutoSync feature is included with Farmer Core or Farmer Pro software subscription. Display Connection Licenses are required for each connected Trimble display.

Data Type	Create	Edit	Delete
Guidance Lines	✓ <i>✓</i>	\checkmark	\checkmark
Coverage Maps ¹	✓		
Client/Farm/Field Names	\checkmark	\checkmark	\checkmark
Landmarks and Boundaries	\checkmark	\checkmark	\checkmark
Operators	✓	\checkmark	\checkmark
Vehicle Profiles ²	\checkmark	\checkmark	\checkmark
Materials	✓	\checkmark	\checkmark
Implements	\checkmark	\checkmark	\checkmark
Work Orders	\checkmark	\checkmark	\checkmark
Bluetooth [®] Low Energy (BLE) beacons	\checkmark		

¹AutoSync only sends the coverage map data from the display to Trimble Ag Software. It does not share the coverage map data to other Precision-IQ displays that are connected with AutoSync.

²Vehicle profiles are created on the display and saved automatically within Trimble Ag Software during the AutoSync process. If the display is accidentally damaged or lost, AutoSync can restore all the vehicle settings to a new Trimble display.



AutoSync| Requirements and Setup Steps

FARMER PRO ONBOARDING

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

AutoSync Requirements

- PiQ-enabled display (*Note*: FmX, FmX+, and CFX-750 Office Sync users will continue to have access to the same Office Sync features. AutoSync is not supported on non-PIQ displays.)
- Wireless cellular connectivity for display
- AutoSync-enabled firmware
 - o 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



AutoSync | Step 1: Setup Vehicles in Online

FARMER PRO ONBOARDING

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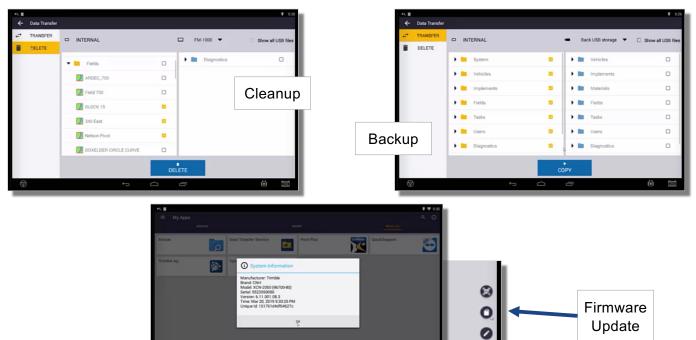
- 1. From the Farm Menu, click Equipment
- 2. view existing vehicles on the Vehicles tab
- 3. click Add Vehicle to add a new vehicle
 - a. For Vehicle Properties enter Name, Manufacturer, Vehicle Type (required properties)
 - i. If using Groups, assign the Vehicle Group
 - ii. enter the Unit Cost to 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 <u>video</u> to learn more.



AutoSync | Step 2: Cleanup, Backup, and Update

FARMER PRO ONBOARDING



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

Note: Minimum Recommended Firmware for each display type

TMX-2050 version 6.50 or higher GFX-750 version 2.50 or higher GFX-350 version 1.50 or higher

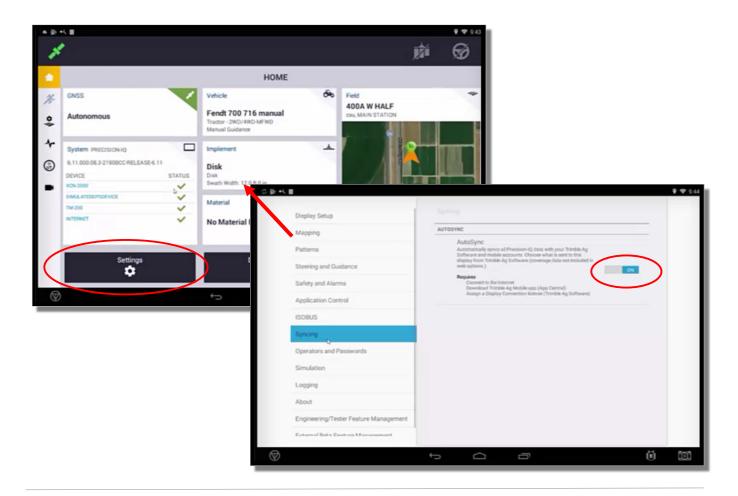


AutoSync | Step 3: Connect Display to Internet

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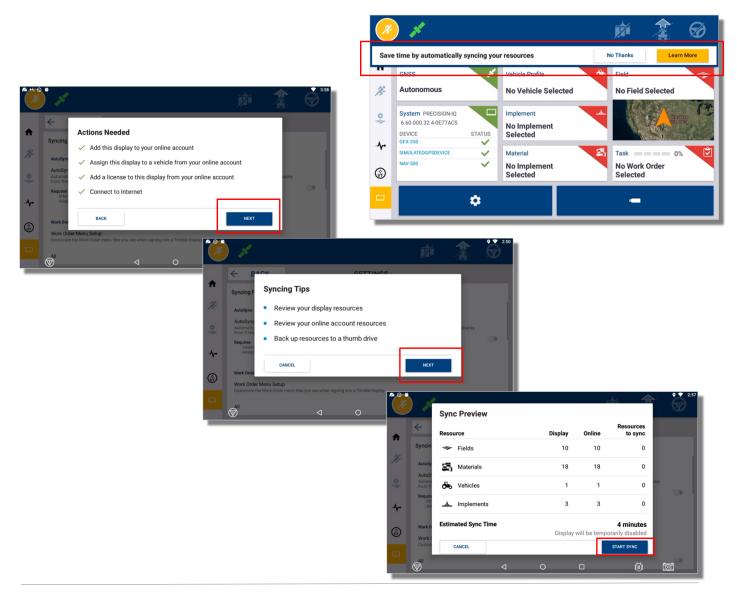
- 1. Open the TMX or GFX display Settings.
- 2. Connect the display to the internet via cellular modem or Wi-Fi.

AutoSync | Step 4: Enable AutoSync in PIQ



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

AutoSync | Step 5: AutoSync Wizard

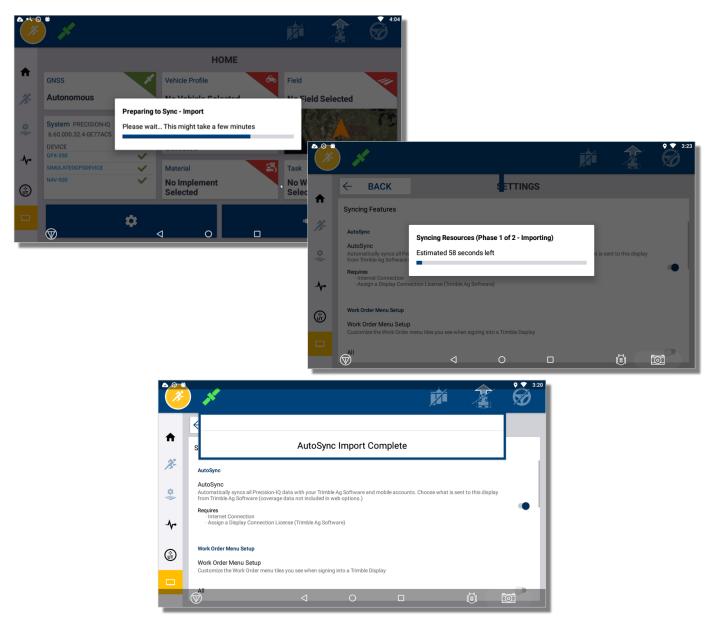


- **1.** The AutoSync Wizard will launch as soon as AutoSync is turned on in PIQ settings
- 2. When the Actions Needed shows all green check marks, click Next
- 3. Review the Syncing Tips, then click Next
- 4. Review the Sync Preview
 - a. Sync Preview provides a count of Resources on the Display and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



AutoSync | Sync Process

FARMER PRO ONBOARDING



Monitoring the Sync Process

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



AutoSync: AutoSync Service App

FARMER PRO ONBOARDING

	AutoSync test vehicle 4-3-19 Serial: 5809205594 Last Sync: 97 hour(s) ago, Mar. 22, 2		
	ືອື Trimble Farms	Org ID: 122477 ON	
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	Fleet Vehicles Work Orders Contacts	< Sync Settings	6
	Settings Link to the screen showing your rice's AutoSync Settings. This UI is	Syncing Choose what's automatically sent to this display	ON
un	Settings	Vehicles Implements Materials Operators	ON ON ON ON

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

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



Set up | Check the Unit System

FARMER PRO ONBOARDING

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- 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

Trimble

Set up | Materials Properties

FARMER PRO ONBOARDING

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

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

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



AutoSync | Device Setup Online

FARMER PRO ONBOARDING

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

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



Set up | Operator Sign In

FARMER PRO ONBOARDING

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- 1. Click the Change link next to Operator display sign in, to turn on. (this is a global setting that affects all connected PIQ displays)
- 2. Operators are set up under Contact Properties
 - a. Click Farm tab > People > Contacts
 - b. Add or Edit a Contact
 - c. Select the **Equipment Operator** tab, activate the Equipment Operator check box, and enter the Login ID
 - d. Define Trimble Display Access level
 - e. Click on Precision IQ Access drop down:
 - i. Full Access > Operator can edit and change any information in the display including Work Orders tasks
 - ii. Select Only > Operator is in the View Mode. Cannot edit or make any change in the display.
 - f. Click Save

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



0.5.b.ii

Work Orders[™] Feature



Work Orders | Requirements and Setup Steps

FARMER PRO ONBOARDING

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

Work Orders Requirements

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

Work Order Setup Steps

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

Then you will see other two useful steps:

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



Watch this <u>video</u> to learn more.

Work Orders | Various Options

FARMER PRO ONBOARDING

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

Various Options

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

Work Order VRA Rx Materials - Version 1

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



Work Orders | Turn On in Online

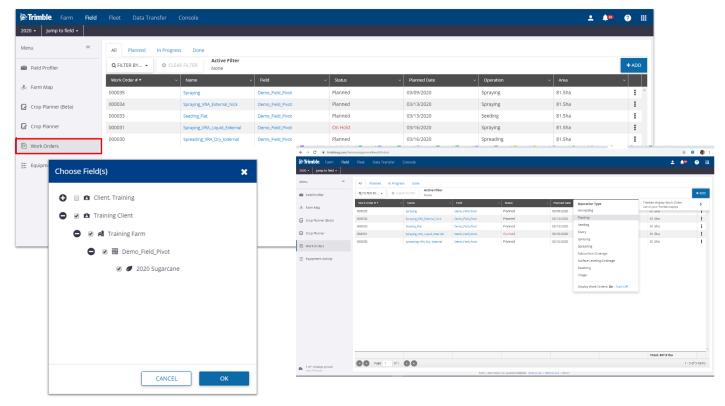
FARMER PRO ONBOARDING

🔆 Trimble, Farm Field	d Fleet Data Transfer		
2020 • Jump to field • Menu « • Home	Sync Activity FARM : Manage Files Fields	Settings Syncing API Connections	
		STrimble. Farm Field	Fleet Data Transfer
		Menu « (5) Sync Activity Manage Files Settings	SETTINGS SYNCING API CONNECTIONS Processing Options IIII Automatically create operators added on field displays IIII Automatically create vehicles added on field displays IIII Automatically create fields added on field displays
			Choose what's automatically synced between your Precision-IQ displays and Online Software. Display Work Orders: On - Turn Off Allows you to send Work Orders to your Trimble Precision-IQ displays. Your operators will also now be asked to choose a Work Order when using your displays. Requires a GEX-750, TMX-2050, XCN-1050 or XCN-2050 display with AutoSync enabled. When this setting is enabled, the AutoSync Options for Fields. Vehicles. Implements, Materials and Operators are defaulted to "on". Operator Sign In: On - Turn Off
			Require all of your operators to sign in to your Trimble Precision-IQ displays.

- 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.

Trimble

Online | Create a Work Order with Flat Rate

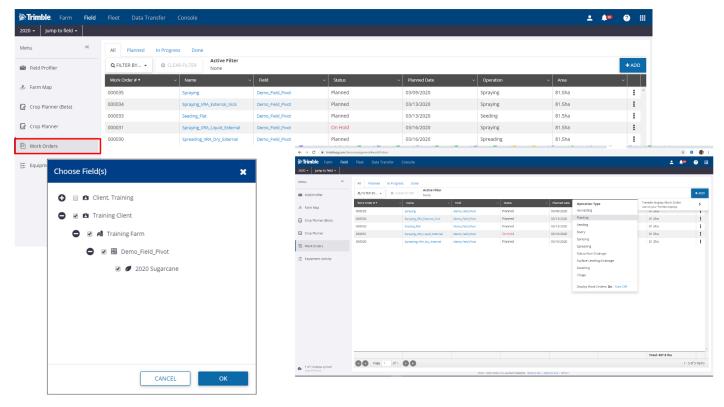


- 1. To access Work Orders, click on Field > Work Orders
- 2. Click on +ADD blue button and select the type of Work Orders you want to create.
- 3. We are going to use Seeding Work Orders for this demo.
- 4. Now, select the field you want to create a work order, you can also select multiple fields if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



Online | Create a Work Order with Flat Rate

FARMER PRO ONBOARDING



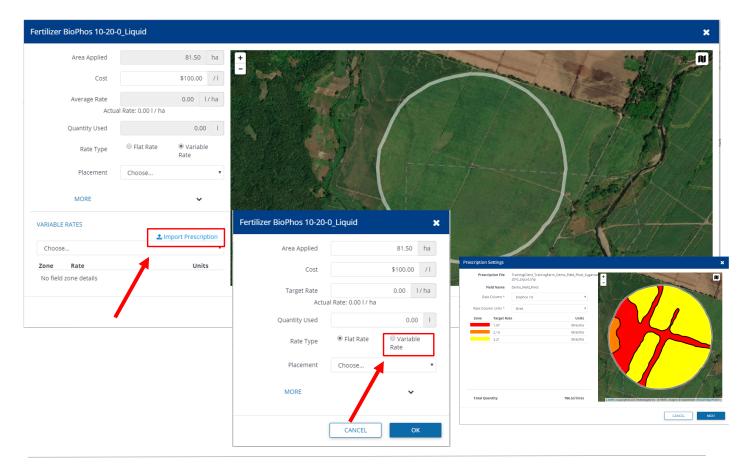
Continuing...

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



Online | Create a Work Order with VRA Rx

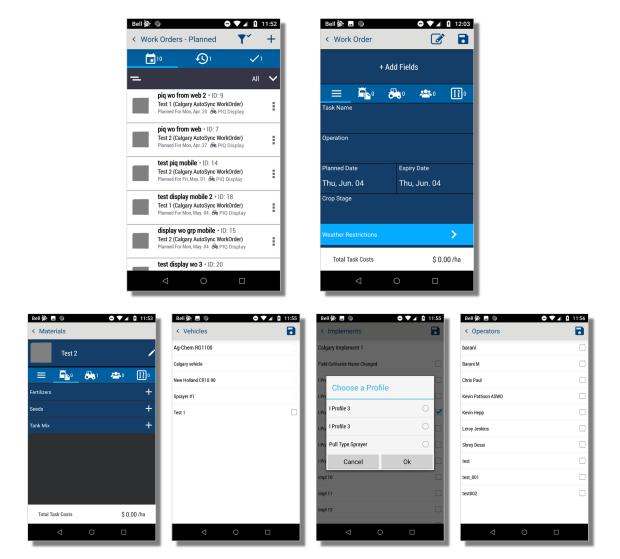
FARMER PRO ONBOARDING



- 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.

Trimble

Mobile | Create a Display Work Order



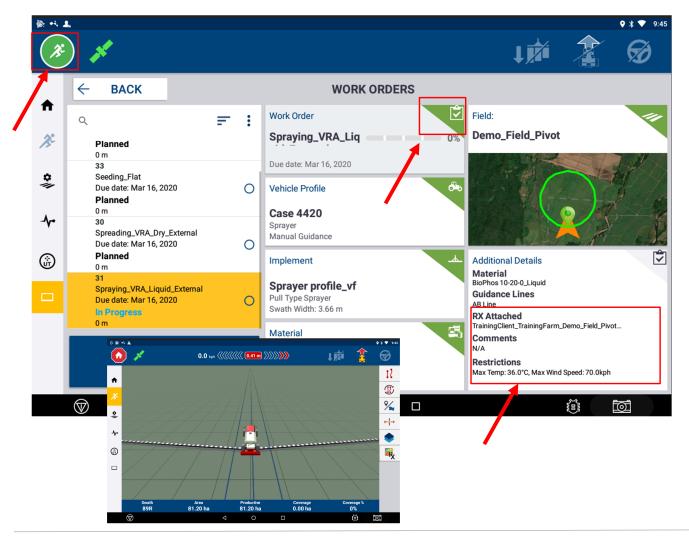
FARMER PRO ONBOARDING

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

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



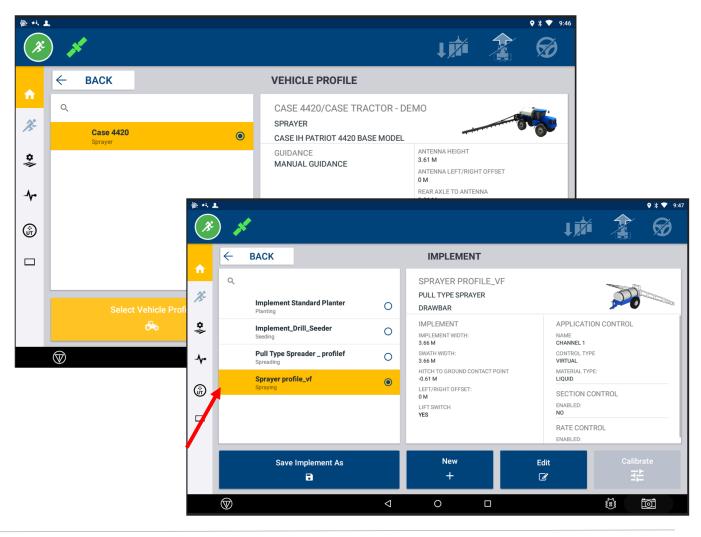
Display | Visualize and Execute Work Orders



- 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



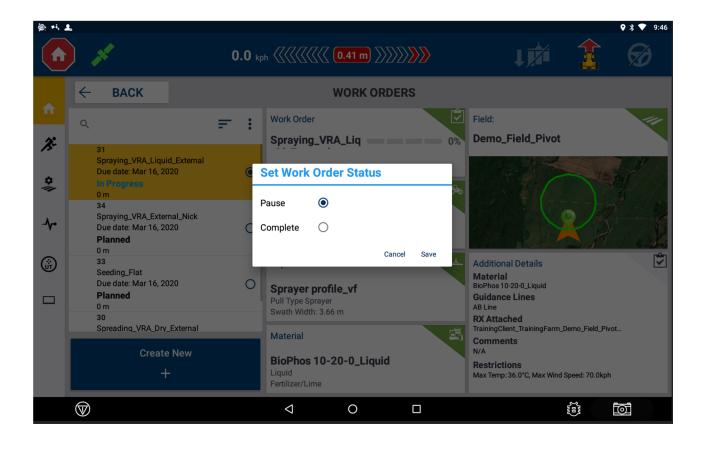
Display | Change Vehicle and Implement Profile



- 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

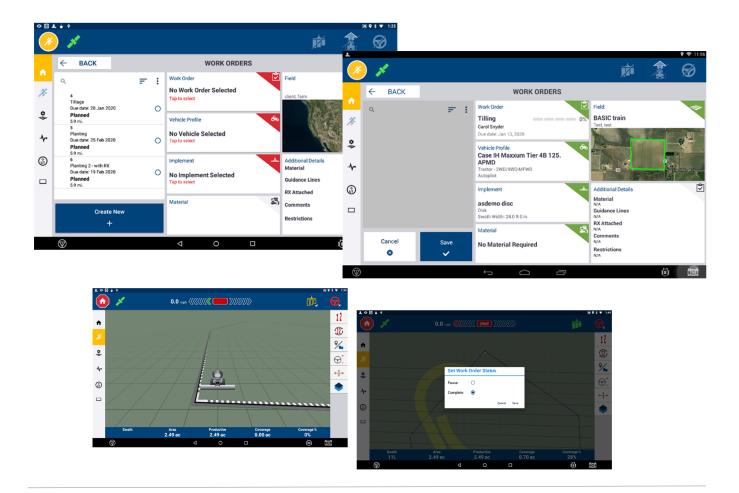


- **1.** As the Work Order is started, the operator will always have the option to click on the Home red button to:
 - a. Pause and Stop a work order to complete another time
 - b. Mark as complete when the task is done
- 2. As the auto-sync is turned on, the job executed will automatically sync to online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



Display Create a New Work Order

FARMER PRO ONBOARDING



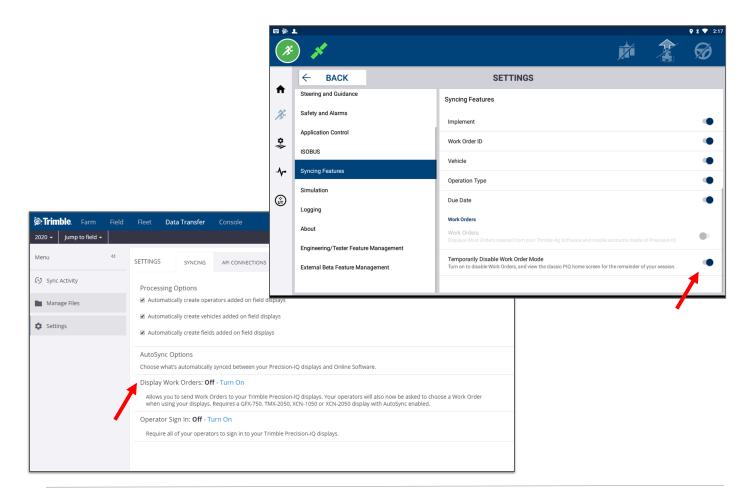
- 1. From the Work Orders Selection Screen, click the Create New button
- 2. Select the details for each task tile (Work Order, Vehicle Profile, Implement, Material, Field)
- 3. When all task tiles are green, click Save.
- 4. Click the Run button to perform work as usual in the field.
- 1. Click the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



Trimble

Disable Work Order Display and Online

FARMER PRO ONBOARDING



Display

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

Online

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



Manage Operator Sign in from Online

FARMER PRO ONBOARDING

🖉 Trimble. 🛛	Farm	Field	Fleet	Data Transfer	Console					
2020 👻 Jump te	o field 🗸									
Menu		~~	SETTINGS	SYNCING	API CONNECTIONS					
55 Sync Activity Processing Options										
Manage Files			✓ Autor	matically create oper	ators added on field displays					
Settings				-	cles added on field displays s added on field displays					
			· · · ·	nc Options what's automatically	synced between your Precision-IQ displays and Online Software.					
Display Work Orders: Off - Turn On Allows you to send Work Orders to your Trimble Precision-IQ displays. Your operators will also now be asked to choose a W when using your displays. Requires a GFX-750, TMX-2050, XCN-1050 or XCN-2050 display with AutoSync enabled.										
				or Sign In: Off - Tu re all of your operato	u <mark>rn On</mark> ors to sign in to your Trimble Precision-IQ displays.					

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

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Other Features



Online | Time Tracker

	PARTNERSHIPS				
Contact Properties					
	UPDATE PHOTO UPDATE PHOTO Erent Chenier Erent_Chenier@trimble.com	Phone System Access Can Access System Email © Brent, Chenlerdeit @ Web and Mobile @ Financial Acc @ Organization @ Operator Ma @ Mobile Conly @ Umited web access no m Mobile Security Resource Time Tracker Admin	em know they have access ess administrator nager	Permission Edit	+ ADD PERMISSION
					CANCEL SAVE
Tracker		Nov 01, 2018	1 Nov 30, 2018		لم مراجع + Timesh
nt Chenier		Nov 01, 201	8 - Nov 30, 2018		
					Hours
r 12, 2018					
13, 2018					
13, 2018 14, 2018					

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



Online | Time Tracker

± 🏚 ? 🛗 Time Tracker ㅅ 🖨 🕼 + m Nov 01, 2018 🗊 Nov 30, 2018 🗊 Search GOI Time Tracke Nov 01, 2018 - Nov 30, 2018 Profile A Farms Se Ec A David Fa 🚓 Inputs & N Time Tracker - Add Details . Select Brent Chenie . Clack In Start 2/28/2019 10:57:42 AM <u>ا ا</u> Clask Ov 02:05 Ph 1 O Cleck In CANCEL SAVE Cleck Out Client: Brent Chenier Time Tracker Year: 2019 Dec 30, 2017 - Feb 28, 2019 undefined Hours Date March 28, 2018 0.01 20.00 0.11 November 12, 2018 7.50 20.00 150.00 November 13, 2018 8.00 20.00 160.00

5.01

20.51

20.00

100.19 410.29

- 1. To review/edit/print reports for Time Tracker entries online, click Farm > Time Tracker
- 2. Use the **Calendars** at the top to identify a **date range**

November 14, 2018

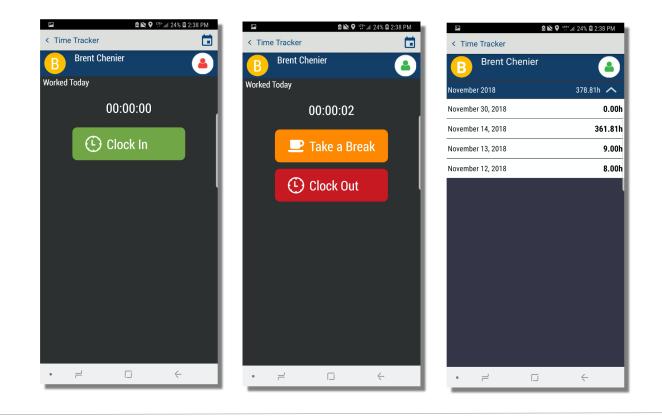
Total Period

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

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Mobile | Time Tracker

FARMER PRO ONBOARDING



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

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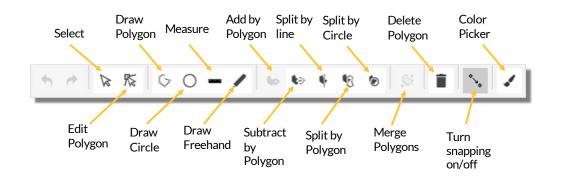
Coverage Maps and Guidance Lines



Online | GIS tools

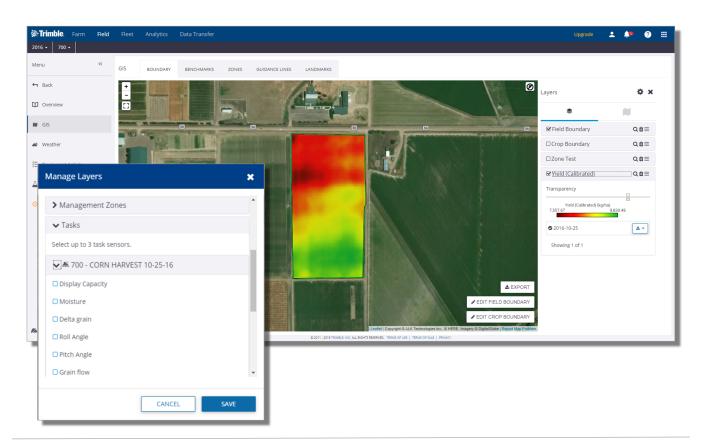
Show/Hide Layer menu	Background Open Layer imagery options Manager				
GIS BOUNDARY BENCHMARKS ZONES GUIDANCE LINES LANDMARKS	Lyrs Cop Boundary Tansparency Ent Ent Fletb Boundary Ent Crop Boundary				
 □ Landmarks > Management Zones > Tasks CANCEL SWE ○ How ○ Moisture ○ Wet Yield ○ Width Ø Dry Yield ○ Vehicles > Yield 	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



- 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
 - (**Q**) **Zoom** to the Layer
 - (🛍) Delete Layer

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Online | Guidance Lines

017 - Field 14 reate Guidance Line Offse ZONES ۱. + Back 5/17/2013 2:20 Overview 5/17/2013 4:08 AB Line 2 AB GIS d b Offset Direction Right 👋 Weathe Work Orders SAVE OFFSET 🚝 Equipment Activit CANCEL A Lab Data Delete Guidance Lines? Are vou sure vou want to delete 1 Guidance Line CANCEL DELETE

1. Click Field tab > Select the Field

- Click the **GIS** tab > Select the Guidance Lines tab
- To view Guidance Line Properties, click on the line name in the right hand column
- 2. Create Offset
 - Place a checkmark next to the original line
 - Click the **Offset** button
 - Define the parameters in the **Create Guidance Line Offset** window, be sure to provide a relevant name for the new line.
- 3. Delete Guidance Line
 - Place a checkmark next to the original line
 - Click the **Delete** button

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

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



Watch this <u>video</u> to learn more.

Mobile Map Layers



- 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 (\Box) > find and tap on the desired layer > tap **save**
- 3. Some surface layers have multiple layer options. Tap the 3 buttons (1) beside the legend to view other related layers.
- >) arrows to cycle between different imagery 4. For CHI, tap the **left** and **right** (2018-10-14 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 (11)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



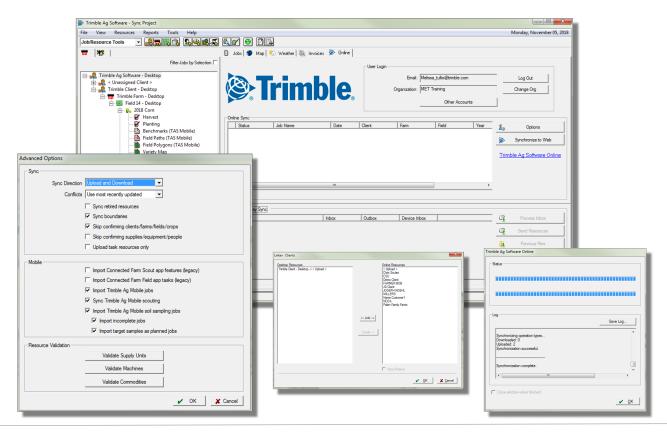
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Desktop Sync



Online | Sync from Desktop: Resources

FARMER PRO ONBOARDING



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

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



Online | Sync from Desktop: Task Data

FARMER PRO ONBOARDING

🗓 Jobs 🍽 Map 🕏		Direction Use Desidop (Ocal) Conflicts Use Desidop (Ocal) ♥ Sync boundaries ♥ Sync boundaries ♥ Skip confirming suppl ♥ Upload task resource	s/farms/fields/crops ies/equipment/people			Jobz Map Jobz Map Jobz Map Porco Porco Herved	Weather Weather Add to upload Print Export Merge Create Invoice. Delete Properties	queue Trimb	le Farm - D.	Reid Year Feld 14: Desktop 2018 Feld 14: Desktop 2018
	rin	ible .	User Login		Melissa_tullis@trin MET Training Othe	nble.com r Accounts		Log Out Change Org		ble Ag Software Online Satu
Status	Job Name	Date	Client	Farm	Field	Year		Ontinen		
.1. Pending sync	Harvest	9/30/2018	Trimble Client	Trimble Fan		- Desktop 2018		Options		.00
1 Pending sync	Planting	Linker : Clients		×		- Desktop 2018	۵	Synchronize to W		Save Log
	_	Deter Searce	Celex Respecte Celex Respecte Celexity Cele		┝			- nble Ag Software		Synchronizing operation types Downlaaded: 0 (Maladed: 2 Synchronization accreated Synchronization complete.

- 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

