

Plant Manager

Software Operating Instructions





Read this manual before using product. Failure to follow instructions and safety precautions can result in serious injury, death, or property damage. Keep manual for future reference.

Part Number: 8210-00026 R3 Revised: December 2024 Original Instructions

New in this Manual

The following changes have been made in this revision of the manual:

Description

December 2024 Updated to support Release 2.12 of Plant Manager software. Added new sections: Batch History Report, Projected Inventory Report Modified Printing Settings sections.

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1. Introduction

AGI Plant Manager[™] is a solution for supporting the production and delivery of dry and liquid fertilizer. With a centralized interface that connects fertilizer plant production facilities, plant robot processes, and external agronomies and customers, Plant Manager integrates functionalities of both Yargus Declining Weight and Junge Plant Operator suites.

With AGI Plant Manager, users can:

- Monitor dry and liquid fertilizer inventory
- Create, record, and re-use fertilizer recipes
- Create, record, and re-use formulation groups for specific fertilizer blends
- Manage customers, partners, employees, and dispensing locations
- Manage equipment, transportation vehicles, delivery vehicles, maintenance histories, reminders, and alerts
- Manage customer tickets, and batches
- Generate, export, and save reports

The system is easy to set-up and populate with company, customer, and inventory data.

1.1. Overview

Plant Manager is designed to connect fertilizer plant production systems to different agronomy software used in ERP systems, and farm management systems. Plugins provide the interface for the exchange of data between the systems.

The flow of data between the in and out boxes of the agronomy's software and the plant production facility, allows the exchange of ticket and batch information. Tickets are product orders, and batches are actual quantities of the requested products that are dispatched. An agronomy software operator can create a ticket and send it to the Plant Manager ticket inbox at the fertilizer production plant. The order is then processed and dispatched as one or more batches. The fertilizer production plant Operator can also generate tickets and batches to be run.



Part of the Plant Manager software, Ticket Manager provides a comprehensive management system for customizing, processing, and recording product batches for customer tickets. With Ticket Manager, tickets are customized, processed, and recorded, and include:

- Customer details such as location, fields, crops, and recordable notes
- Fertilizer recipes to assign to batches
- Resize options for batches
- Formulation Groups (nutrients blends) to add to tickets
- Equipment (robots) for running the batch
- Transportation methods including carrier, vessel, and driver
- Application methods including vessel and driver



2. Using Plant Manager

Plant Manager is a csoftware application used for supporting the production and delivery of fertilizer orders to customers.

The user enters information into the system about the company, the customer, equipment and resources, partners, fertilizer products, and customer orders. Customer orders (tickets) are generated and sent to the Controls Automation System as batches, and product inventories are automatically adjusted following the processing of orders.

The main screen of Plant Manager has two menu options; a menu bar on the left, and a menu bar on the top right.

- The left-side menu bar manages most functions for operating the system.
- The top menu bar manages user account, system logs, and alert functions.

A	🖻 😹 Plant Mana	nger			Touchscre	een Mode 🚨 AGITee	:h 🗸 📄 View 🖌 🚺	🛦 11 Ale	erts – 🗉 🗙
=		🔳 Ticket Manager						C	🔋 Bulk Delete
	Ticket Manager			Q			🖋 Edit Ticket Qu	ieue	+ Add Ticket
	neket Manager	All Statuses	Reset Filter/Sort						
)m	Products	Ticket Id 🕹 Release Number	Customer Field	Status	Status Date	Entry Method	Number of Batch	es	
I	Recipes	YYYYYYY-00000213	MATT MEDEL	New	1/26/2022	By Amount of Produ	ct 1		î
Ê	Formulation Groups	rrrtiiiooo000000118	Mike Cerny	Completed	2/18/2022	By Amount of Produ	ct 1		
Ë	Batch History	JSB0124-FF	Oakley Fertilizer	Completed	7/8/2021	By Amount of Produ	ict 1		
ø	Reports	JSB0124-BK	Oakley Fertilizer	New	5/18/2021	By Amount of Produ	ict 1		
-		DW3_Test000000193	TEST FARMER - (555555)	Completed	9/16/2021	By Amount of Produ	ct 4		
	Partners	DW3_Test000000192	TEST FARMER - (555555)	New	9/15/2021	By Amount of Produ	ct 0		
×	Equipment	DW3_Test000000191	TEST FARMER - (555555)	New	9/15/2021	By Amount of Produ	ct 0		
	Vessels	DW3_Test000000190	TEST FARMER - (555555)	Completed	9/15/2021	By Amount of Produ	ict 1		
2	Crops	DW3_Test000000189	TEST FARMER - (555555)	New	9/15/2021	By Amount of Produ	ct 0		
6	Application Types	DW3_Test000000188	TEST FARMER - (555555)	New	9/15/2021	By Amount of Produ	ct 0		
		DW3_Test000000187	TEST FARMER - (555555)	Completed	9/15/2021	By Amount of Produ	ict 2		
ã0	Staff	DW3_Test000000186	TEST FARMER - (555555)	Completed	9/15/2021	By Amount of Produ	ct 1		
\$	Settings	DW3_Test00000185	TEST FARMER - (555555)	Completed	9/15/2021	By Amount of Produ	ict 1		
0	Help	DW 4.200000204	MATT MEDEL	New	10/20/2021	By Amount of Produ	ct 1		Ŧ

Left-side Menu Bar	
🔳 Ticket Manager	A comprehensive management system for customizing, processing, and recording batches of product for customer tickets. Tickets can be created, customized, edited, and added to batches.
Products	Users manually add Products to the system and can track Product inventory. Products are assigned to a customer as part of a recipe, ticket, batch, and formulation group. A Product profile is a description of the product based on chemical and nutrient composition. A product profile is generated when entering details of a product.
i≡ Recipes	Recipes are blends of products. Recipes are manually created in the system. Recipes are recorded and can be assigned to customer orders. There are 3 types of recipes that are based on; the amount of product per area, the amount of product per ton, and the percentage of product. Different combinations and amounts of products are added to a recipe
E Formulation Groups	Formulation Groups are combinations of products by nutrient content. Formulation Groups are customized to specific nutrient requirements and are added to tickets.
🛱 Batch History	Batch History shows processed/completed batches based on specific search parameters.
Reports	A range of reports can be generated, exported, printed, and saved as .CSV files. Reports include current list of products and their profiles, current product inventory, summary of products and inventory, and vessels.
<table-of-contents> Partners</table-of-contents>	There are 5 partner types: Carrier, Customer, Dispensing Location, Driver, and Employee. The system stores information on partners including partner type, ID code, external ID code, name, and contact details.
💥 Equipment	Equipment is the machinery used in a process. Equipment can be tracked for uptime and maintenance.
Sessels	Vessels are vehicles used within the plant system and are defined by name and type. There are 6 vessels types: Applicator, Floater, Mini, Nurse, Plane, and Other. The system stores information on vessels including name, type, license plate, assigned partner, and maximum capacity.
Crops	Crops are added manually to the system. Any agricultural crop can be added. Crop types are created, listed, and assigned to a customer's field. They are used in the creation of customer orders. Any crop can be added to the list.
(* Application Types	An Application Type is how a fertilizer mix is applied to a field. Application Types can be planes, dispersers, and drips. Application types are created, listed, and recorded in the system.
≗ ⇔ Staff	Staff accounts are assigned to different users to allow them to log into Plant Manager. There are different levels of access rights determined by the Administrator. The staff menu is used to view and manage staff accounts.
Settings	The settings menu controls the administration, management and production processes for the plant. Most settings are completed on initial set-up of the system and do not require any regular action taken.

Left-side Menu Bar			
🗙 System Maintenance	Currently only Bulk Ticket Deletion is available. Bulk ticket deletion removes completed tickets as of and earlier than specified date.		
😧 Help	Displays current Plant Manager software version and license code. Users can submit support requests directly to the AGI Customer Experience team using the request support tool.		

Top Menu Bar	
💄 AGITech 🗸 🗌	The user button at the top right of the main screen allows the user to log off from the system, override a current user, and change passwords.
View Error Log	A text file showing any system errors or system crashes.
▲ 0 Alerts	System generated alerts appear in the Alerts field at the top right of the main screen. System alerts include maintenance alerts, and robot and agronomy alerts.

2.1. Help and Support

Online request for support is available from the **Help** page. The page also displays the user Plant Manager version, current license number, and license expiration date. Users can also contact **csr.commercial@aggrowth. com** or **1-800-810-9132** for assistance.

1. Go to Help > Request Support.

😧 Help		
Version 3.1.5130	License B9ZA-GQ2C-RY30-TIQQ	License Expiration 12/31/2025
	Request Support	

2. Complete the online request form, then click **Submit**.

CONTROLS	GERTILIZER SYSTEMS
Support Request	
First Name *	Last Name *
Company *	
Location *	
Email *	Phone *
Plant Manager Version * 2.9.4781	
Urgency Level *	
 Today (unable to run) 	
 In the next 48 hours (able to rule) 	un with delays)
 This week (no or little impact to 	o business)
Not Urgent	
Cancel	Submit

3. User Access and Software Updates

Accessing the Plant Manager system requires a username and password.

Access to different functions of the system is determined by the user role. See Section 4. – Staff on page 19 section for detailed information about levels of system access and staff roles.

If a software update is available, the user is notified during the login process and can either proceed with the update or decline the update. The system will prompt the user to update the software the next time they log in. The prompt will appear on every log in until the update is completed.

Note

Users with an expired license key will no longer receive development updates to the application.

3.1. Logging In, Logging Out, and Passwords

Logging In

To log in to Plant Manager:

1. Double-click on the Plant Manager desktop icon; the Login field opens.

🛃 Login	×
CONTROLS	
Usern	ame
AGI	Tech
Passw	vord
	Login

- 2. Enter the Username and Password for the account.
- 3. Select Login; Plant Manager system opens.

Note

After logging in, the system may generate a **Software Status Message**. Select **OK** if the message is: **Your software is up to date**. See Section 3.3 – Updating Software on page 15 to update current software.

9	Plant Manager	>
Your so	ftware is up to date	
	ОК	

Logging Out

1. Select the **Account Name**.



2. Select Logout; the system logs the current user out.

Changing User Password

Note

Passwords can also be administratively changed from the **Staff** section in the main menu.

To change a user password:

1. Select the Account Name, then Change Password.



2. Enter the new password in the New Password and Confirm Password fields.

Vev	v Password Entry	
	New Password	
	Confirm Password	

3. Select **Change**; the password changes.

3.2. Overriding the Current User Role

The **Override Current User Role** function allows the current user to use the user role functions of another user (e.g. Administrator) for the duration of the current login session. The function allows a user with a higher access level (Role) to assist a currently logged-in user, who needs temporary access to more advanced functions, without requiring the current user to log out.

To override a current user role:

1. While logged in to Plant Manager, select the Username.



2. Select Override; the Override Current User field opens.

verride Current User	
Username	
Password	

- 3. Enter the username and password of the higher access level user.
- 4. Select **Override**; the system now allows the logged-in user to access the User Role functions of the Override user (until the user logs out).

3.3. Updating Software

Plant Manager provides required software updates at log in. The user may update following log in, or cancel and update at the next log in.

To update software when prompted:



1. After logging in and seeing the Found Updates for Plant Manager message, select Next; the Plant Manager Setup Wizard screen displays.



2. From the Setup Welcome screen, select Next or Cancel; a new screen displays the Plant Manager Typical Installation logo.



3. Select **Typical Installation**; the **Select Installation Folder** screen displays. The default destination folder is used by most users. Navigate to an alternative installation folder if required.



4. From the Select Installation Folder screen, click Next; the software update installation starts.

Note

An on-screen Status Bar displays the progress of the installation. Follow the updates and any instructions shown on-screen.

Se Plant Manage	er Setup Wizard	X Advanced Installer
A	GI S FERTIL Systems	
Installing Please wa	PLANI MANA Plant Manager it while the Setup Wizard installs Plant Manager. This m	
status:	Validating install	
		Cancel

Note

The system may generate a message that some files currently in use need updating. Select **automatically close applications and attempt to restart them after setup is complete** to continue the update. Select **do not close applications (a reboot will be required)** to stop the process.



- 5. Select OK.
- 6. The Setup Wizard generates a message when the update is complete.



7. Select Finish; an Install Summary message displays on the screen.

	_	×	
← 6	lnstalling Updates for Plant Manager		
1	nstall Summary		
	Indu	(Anna an	
	Plant Manager	The operation completed successfully.	
		Finish	

- 8. Check that the status is: The operation completed successfully.
- 9. Select **Finish**; the user can log into the system from the log on screen.

Note

The user may receive a prompt if the system database needs updating following a software update. The system prompts the user when logging in following a software update.



To update the database if the Update Database screen displays:

- 1. Select Update Database.
- 2. When the successful update message displays click **Continue**; the log in screen displays.

Database Verification	
	Your database has been updated successfully!
Linnade Results Lon	Continue →
Beginning database	upgrade
Checking whether jo	urnal table exists
Fetching list of alread	dy executed scripts.
Executing Database S	Server script 'AGI_DbUp.Scripts.0114_FPMS1694_Battick.sql'
Checking whether jo	urnal table exists
Executing Database !	Server script 'AGI_DbUp.Scripts.0141_ViaeroWireless_FPMS1801.sql'
Executing Database !	Server script 'AGI_DbUp.Scripts.0142_MuteImportNotify_2275.sql'
Even which Details and	Server script
Executing Database :	ID FOLICODIC T. LIT C. LIT H
'AGI_DbUp.Scripts.01	143_FPM52246_TemptateTypeSimptotTx.sql
'AGI_DbUp.Scripts.01 Executing Database S	i43_PPMS2245_lemplateTypeSimploTix.sql Server script 'AGI_DbUp.Scripts.0143_PPMS_275_PCReqTimeout.sql'

3. Enter the log in details to continue to Plant Manager.

🗲 Login		×
CONTROLS		IZER
Username		
agitech		
Password		
	Login	

4. Staff

Staff accounts are assigned to users to allow them to log into the Plant Manager software. The Staff menu is used to view and manage staff accounts. All users should have their own user accounts and password set up in the software.

A	🖯 🔙 Plant Manag	jer			Touchscreen Mode	🚨 AGITech 🗸 🖺 View 🗸	🛕 11 Alerts 📔 — 🔲 🗙
≡		Sta	aff				G
8	Ticket Manager		1				+ Add Staff
)¥	Products	Staff ID 1	Username	Associated Partner			
		0	AGITech	AGITech			
E	Recipes	481	PlantAdmin481	AGITech			
Ê	Formulation Groups	221	PlantTech221	AGITech			
Ħ	Batch History	845	PlantTickets845	AGITech			
¢	Reports	223	Evergreen223	Evergreen Diversified Agriculture			
	Destaura	465532	amartin	Dillet Farms			
· • •	Partners	111111	111	Arndt Angus LLC			
×	Equipment	00000008	tech	Test Tech			
	Vessels	888	td	Test Driver			
2	Crops						
1	Application Types						
20	Staff						
۵	Settings						
0	Help						

Item	Description		
Staff ID	An optional staff identifier such as an employee number.		
Active/Inactive	Toggle to set the user account as Active (available for login and use) or Inactive.		
Partner	The Partner associated with the user. Partners must be added before associating with a staff account.		
Role	Roles provide Staff with the access to functions that they need to do their jobs and restricts access to other functions. See the table below for system access allowed for each Staff role.		
Username	A unique username that is used as a primary user identifier in the system, and for login purposes.		

				Staff Ro	oles		
Task	Technical	Plant	Plant	Plant	Technician	Ticket	Driver/
	Support	Admin	Manager	Operator	reenneidh	Creator	Customer
Add Ticket	х	Х	х	х		х	
Delete Ticket	х	Х	х	Х			
Manage Ticket	х	Х	х	х			
Manage Batches	х	Х	х	х			
Add Product	х	Х	х	х		х	
Delete Product	х	Х	х	х			
Manage Product	х	Х	х	х		х	
Add Recipe	х	Х	х	х		х	
Delete Recipe	х	х	х	х			
Edit Recipe	х	х	х	х		х	
Add Formulation							
Group	х	Х	x	x		x	
Delete Formulation							
Group	х	Х	х	х			
Edit Formulation							
Group	х	Х	х	х		х	
Add Partner	х	х	х	х		х	
Delete Partner	х	х	х	х			
Edit Partner	х	х	х	х		х	
Add Equipment	х	х	х	х		х	
Delete Equipment	х	х	х	х		х	
Edit Equipment	х	х	х	х		х	
Maintain							
Equipment	х	Х	х	х			
Add Vessel	х	х	х	х		х	
Delete Vessel	х	х	х	х			
Edit Vessel	х	х	х	х		х	
Add Crop	х	х	х	х		х	
Delete Crop	х	х	х	х			
Edit Crop	х	х	х	х		х	
Add Application							
Туре	х	Х	х	х		х	
Delete Application							
Types	х	Х	х	х			
Edit Application							
Types	х	Х	х	х		х	
Add Staff	x	x	x				
Delete Staff	x	x	x				
Edit Staff	x	X	x				
Manage Settings	X	x	x				
Admin Settings	X	x					
Clear Maintenance	~	~					
Alerts	Х	Х	х	Х	х		

Staff access to Plant manager is defined by the role assigned to a user by the Administrator.

	Staff Roles							
Task	Technical Support	Plant Admin	Plant Manager	Plant Operator	Technician	Ticket Creator	Driver/ Customer	
Mark Robot Alerts as Read	x	х	х	х				
Bulk Delete Tickets	х	Х	х					
Re-Import Tickets With Errors	x	x	x	x				
Touch Screen	х	Х	х	х			х	
Link to Agronomy	х	Х	х	Х		х		
Adjust Weight	Х	х	х	Х				

Plant Manager supports different levels of access to the system based on staff roles.

Typical activities for staff roles:

Staff Role	Typical Plant Manager Activities		
Technical Support	Highest level access. This role is only used by AGI staff Can manage all settings, including system admin settings.		
Plant Admin	Highest level access. This is the most common role for Plant Manager users. Can manage all settings, including system admin settings.		
Plant Manager	Access to all functions except for admin settings. Adds plant staff accounts.		
Plant Operator	Similar access to Plant Manager but unable to edit staff, and unable to edit Settings.		
Technician	Receives automated Maintenance Reminders.		
	Note Only Technicians can receive Maintenance Reminders. Completes equipment maintenance.		
	Changes Maintenance Reminders status to complete.		
Ticket Creator	This is a limited role that only allows the user to create tickets, not run them. No access to admin settings.		
Driver/Customer	This role does not have access to any features of Plant Manager Drivers can run batches only in Touchscreen mode.		

4.1. Searching for a Staff Account

To search for a staff account:

1. Go to Staff.

1	G 🔄 Plant Manag	ger			Touchscreen Mode 🚨 AGITech 🛩 🖺 View 🛩	🛦 11 Alerts 🛛 – 🗖 🗙
Ξ	=	Sta	off			C
1	Ticket Manager					+ Add Staff
-	Products	Staff ID ↑	Username	Associated Partner		
		0	AGITech	AGITech		
	Recipes	481	PlantAdmin481	AGITech		
1	Formulation Groups	221	PlantTech221	AGITech		
	Batch History	845	PlantTickets845	AGITech		
	Reports	223	Evergreen223	Evergreen Diversified Agriculture		
	• Data	465532	amartin	Dillet Farms		
	Partners	111111	111	Arndt Angus LLC		
	🛠 Equipment	00000008	tech	Test Tech		
	Vessels	888	td	Test Driver		
J	a Crops					
ſ	Application Types					
E	Staff					
4	Settings					
(🛿 Help					

- 2. Select Staff ID, Username, or Associated Partner column headings to sort the list of staff accounts.
- 3. Select the staff account to view the information page.

4.2. Adding a Staff Account

To add a staff account:

1. Go to Staff > + Add Staff.

AGI S Plan	nt Manager	r 1			Touchscreen Mode	💄 AGITech 🗸 🛛	🖹 View 🗸 📔	11 Alert	- 1	• ×
≡	2	🕈 Sta	ff							C
Ticket Manage	r								+ Add	Staff
Products	St	aff ID 🕇	Username	Associated Partner	 					
6 moduces	0		AGITech	AGITech						
I ■ Recipes	48	31	PlantAdmin481	AGITech						
Formulation Gr	roups 22	21	PlantTech221	AGITech						
Batch History	84	45	PlantTickets845	AGITech						
Reports	22	23	Evergreen223	Evergreen Diversified Agriculture						
····	46	55532	amartin	Dillet Farms						
· Partners	11	1111	111	Arndt Angus LLC						
🗙 Equipment	00	8000000	tech	Test Tech						
Se Vessels	88	38	td	Test Driver						
💋 Crops										
Application Type	pes									
🌲 Staff										
Settings										
🕑 Help										

2. Complete the following details for the new Staff. Items marked (*) are required fields.

Staff ID	Partner *
Role Options *	
Plant Admin	Plant Manager
Plant Operator	Technician
Technical Support	Ticket Creator
Customer	Driver
Username *	
Password *	
Confirm Password *	

Item (* Required Entry)	Description
Staff ID	A unique identifying code for the staff. This can be an employee number or a user-generated alphanumeric ID. The system will auto-generate an ID if one is not created by the user.
* Partner	The partner can be Carrier, Customer, Dispensing Location, Driver , or Employee .
* Role Option	See Section 4. – Staff on page 19
* Username and Password	A username and password used to log in to Plant Manager.

3. Set the Active/Inactive toggle (the default setting for a new staff is Active).

4. Select **Save**, or **Cancel** to return to the Staff menu without saving changes.

Set E-signature

The system allows 2 roles, Driver and Plant Operator, to save e-signatures that can be used as automatic signatures at various stages of the plant processes.

To set an E-signature:

Note

Only specific accounts have permission to set an E-signature. The user must be logged into their account to set the signature.

- 1. Log in with the username and password for the account.
- 2. Go to Staff.
- 3. Select the staff name; the staff details page opens.

AGITech	Active 🗹 Edit 🗸 🗙
Staff ID 0	Partner AGITech
Role Options	
✓ Plant Admin	✓ Plant Manager
✓ Plant Operator	✓ Technician
✓ Technical Support	✓ Ticket Creator
Customer	Driver
Username AGITech	
Operator Signature	
Use in Auto-Sign	
C JAN Set	

PLANT MANAGER -

- 4. Select **Edit** at the top right of the page.
- 5. From the signature box at the bottom left of the screen, click Set.

Operator Signature	
Use in Auto-Sign	
€ JAN 1 Set	

6. On the new E-signature screen next to the imes , use the mouse to enter the signature.

Gperator Signature			>
X			
	CLEAR	SAVE	

7. Check the Use in Auto-Sign box to use the E-signature for auto-signing.

Operator Signature
Use in Auto-Sign
- and -
/ Set

8. Select **Clear** to re-enter the signature, or **Save** to accept; the new signature displays.

4.3. Editing Staff Account Settings

To edit a staff account:

- 1. From the **Staff** list, select the account to edit.
- 2. Edit the account details as required.

PlantAdmin481	Active 🗹 Edit 🗸 🗙
Staff ID 481	Partner AGITech
Role Options	
✓ Plant Admin	✓ Plant Manager
✓ Plant Operator	✓ Technician
Technical Support	✓ Ticket Creator
Customer	Driver
Username	
PlantAdmin481	
Operator Signature	
Use in Auto-Sign	

- 3. If required, click on **Change Password** to change the account password.
- 4. Select **Save**, or **Cancel** to return to the Staff list without saving changes.

4.4. Deleting a Staff Account

To delete a staff account:

- 1. Go to **Staff** and select an account; the staff account information page opens.
- 2. Select **Delete** from the dropdown menu.

AGITech		Active	🗹 Edit	~ ×
Staff ID	Partner			🔋 Delete
0	AGITech			
Language				
English				
Role Options				
✓ Plant Admin	 Plant Manager 			
✓ Plant Operator	✓ Technician			
✓ Technical Support	✓ Ticket Creator			
Customer	Driver			
Username				
AGITech				
Operator Signature				
Use in Auto-Sign				
- Al				
🖍 Set				

3. Select **Delete** to confirm, or **Cancel** to return to the Staff menu without deleting the Staff account.

Delete?		
Are you sure you want to delete 'PlantAdmin481'?		
	Cancel	Delete

5. Application Types

Application Types are a user-defined description of how a fertilizer mix is applied to a field. Application Types can be used in the creation and running of processes, recipes, tickets, and batches.

A	🖯 😹 Plant Manag	yer i i i i i i i i i i i i i i i i i i i	Touchscreen Mode 🚨 AGITech 🗸 🗎 View 🗸	🛕 11 Alerts 🛛 🗕 🔍 🗙
≡		🍽 Application Types		C
=	Ticket Manager	Q		+ Add Application Type
<u>)</u> #	Products	Name		Ť
		Disperser DW4		
I	Recipes	Fuel-vault FW5		
Ê	Formulation Groups	SABE 304L		
Ħ	Batch History	SABE 316L		
Û	Reports	Short-path Emitter RC92		
-20	Partners			
*	Equipment			
	Vessels			
2	Crops			
۴	Application Types			
20	Staff			
۵	Settings			
Ø	Help			

5.1. Searching for an Application Type

To search for an Application Type:

1. Go to Application Types.

A	🕝 属 Plant Manag	yer i	Touchscreen Mode 🚨 AGITech 🗸 🖺 View 🗸	🛦 11 Alerts 📃 –	• ×
⊨	E	Application Types			G
	I Ticket Manager	٩		+ Add Applicatio	n Type
ષ્ટ	Products	Name			Ť
ł	E Recipes	Disperser DW4			
Ê	Formulation Groups	SABE 304L			
Ë	Batch History	SABE 316L			
Ľ	Reports	Short-path Emitter RC92			
-2	Partners				
×	🕻 Equipment				
	Vessels				
A	Crops				
ſ	Application Types				
2	ቃ Staff				
\$	Settings				
6	Help				

- 2. In the search field, enter the name of the application type; the Application Type shows in the list.
- 3. Select the Application Type to show the information page.

5.2. Adding an Application Type

To add an Application Type:

1. Go to Application Types > +Add Application Type

🍽 Application Types		C
Search by Name	Q	+ Add Application Type
Name		Ŷ
Disperser DW4		
Fuel-vault FW5		
SABE 304L		
SABE 316L		
Short-path Emitter RC92		

2. Enter a name for the Application Type. Fields marked with (*) are required.

Application Type Name *	

3. Select Save.

5.3. Editing an Application Type

To edit an Application Type:

- 1. Go to Application Types and select an Application Type.
- 2. Select Edit.



- 3. Edit the Application Type.
- 4. Select Save.

5.4. Deleting an Application Type

Note

A deleted Application Type cannot be retrieved.

To delete an Application Type:

1. Go to Application Types and select an Application Type; the Application Type page opens.

isperser DW4	🗹 Edit	~ ×
Application Type Name	Ĩ	Delete
Disperser DW4		

2. Select Y then **Delete**.

Note

A confirmation message displays. Select **Delete** to confirm.

Delete?	
Are you sure you want to delete 'Short-path Emitter RC92'?	
	Cancel Delete

Note

Application Types currently in use cannot be deleted. A warning message displays. The Application Type can be set to **Inactive**.

This Application Type cannot be deleted because it is referenced elsewhere. Consider setting this Applic to inactive instead.	ation Type
	ОК

6. Formulation Groups

Formulation Groups are user-created combinations of products by nutrient content.

A	🖸 层 Plant Manag	yer	Touchscreen Mode 🚨 AGITech 🗸 🖺 View 🗸 📘	🛕 11 Alerts 🛛 🗕 🔍 🗙
≡		Formulation Groups		C
	Ticket Manager			+ Add Formulation
74	Products	Group Name		ŕ
Ū	Troducts	20-20-20-5s		
⊨	Recipes	4-12-38		
Ê	Formulation Groups	Ethan Test		
Ħ	Batch History			
Ê	Reports			
-	Partners			
×	Equipment			
	Vessels			
2	Crops			
•	Application Types			
20	Staff			
۵	Settings			
0	Help			

The **Analysis Type** shows the makeup of a formula by either a **Blend Analysis** – the percentage of each nutrient in a formula – or by a **Field Analysis** – the amount of nutrients, by weight per acre. Formulation Groups are applied to tickets and batches and are stored in the system. Information is editable.

4-12	-38							Active	🕑 Edit	~	×
Formula	ation Group N 38	lame									
Analysis	Type end O Fie	eld									
N	Ρ	К	Ca	Mg	S	В	Cu	Fe	Mn	Zn	
4	12	38	0	0	0	0	0	0	0	0	
Clay %											
Produ	ct		Ť	Projected %	N P	кс	a Mg :	S B C	Cu Fe Mn	Zn	x
0-0-6	0 Potash			67.93		60					
18-46	-0 DAP			32.07	18 4	16					

For information about configuring default Formulation Group settings, see Section 21.3.1 – Configuring Formulation Group Settings on page 197.

6.1. Searching Formulation Groups

To search for a Formulation Group:

- 1. Go to Formulation Groups.
- 2. Use the Active Check box to filter the search by Active or Inactive groups.

B Formulation (Groups	G
Search by Name	🔎 🗹 Active	+ Add Formulation
Group Name		
20-20-20-5s		
4-12-38		

- 3. Enter the name of the group in the search field; the group name displays.
- 4. Select the group to open the group's page.

6.2. Adding a Formulation Group

Formulation Groups are combinations of products created by the user that can be applied to tickets and batches.

Note

Before creating a Formulation, the required base products must be entered into the system. See Section 11.2 – Add Products on page 77.

To add a Formulation Group:

1. Go to Formulation Groups > + Add Formulation.

B Formulation	Groups		C
Search by Name	Q	✓ Active	+ Add Formulation
Group Name			Ť
20-20-20-5s			
4-12-38			

2. Add a name for the group.

Note

Formulation Group names can comprise up to 100 alphanumeric characters.

A	🖯 🧲 Plant Manag	ger	Τοι	ichscreen 🛛	💄 AGITech 🗸	🖹 View 🗸	💧 🛕 11 Al	erts 📔 🗕	– ×
⊨									Active
=	Ticket Manager	Formulation Group Name *							
)ä	Products	Analysis Type *							
⊫	Recipes		Ca Mg	s	B	Cu 0	Fe N	dn Zr	n)
Ê	Formulation Groups	Clay %				-			
Ħ	Batch History							 Select Pro 	ducts
Ż	Reports	Product	↑ Projected % N	I P K	Ca Mg	S B Ci	u Fe Mr	a Zn X	
-	Partners								
*	Equipment								
	Vessels								
2	Crops								
۴	Application Types								
20	Staff								
۵	Settings	Current Blend Analysis 0-0-0							
0	Help						Cancel	•	Save

Item (* Required Entry)	Description
* Formulation Group Name	A unique user-generated name for the group.
Active	Groups can be set as Active or Inactive . The toggle sets the status of the group which can be changed.
* Analysis Type	Blend Analysis: the percentage of each nutrient in a formulation. Field Analysis: the amount of nutrients, by weight per acre of field.
Clay %	The amount of clay added to the Formulation Group. Optional.
Select Products	Products are listed by name and contain their nutrient information. Products must be added to the system before they can be added to a group. The nutrient values comprising all the products of the Formulation Group are also displayed.

- 3. Select **Blend** or **Field** as the analysis type.
- 4. Add the nutrient percentages as required.

N	Р	K	Ca	Mg	S	В	Cu	Fe	Mn	Zn
0	0	0	0	0	0	0	0	0	0	0

- 5. Add the percentage of clay if required.
- 6. Select + Select Products.
- 7. Select the type of product from the **Types** list.

Note

The Type refers to dry or liquid fertilizer products.

Sei	arch by Name	All Types 🔹											
	Product	Туре	Current Total	All Types Dry Fertil	izer - Aut	to		S Zn	в	Ca Cu	Mg	Fe Mr	1
	0-0-60 Potash	Dry Fertilizer - Auto	-78553.49021098	Liquid Fe	rtilizer - /	Auto							Î
	0-0-62 MUR/POT GRAN BULK	Dry Fertilizer - Auto	-981 lb(US)		~								
	18-46-0 DAP	Dry Fertilizer - Auto	-18308.779785150	53 lb(US)		18	46						
	18-46-0 DAP BULK	Dry Fertilizer - Auto	-14603.98966125	91 lb(US)	~								
	21-0-0-24s AMS Mid-Grade	Dry Fertilizer - Auto	-2500 lb(US)										
	21-0-0-24s AMS Granular	Dry Fertilizer - Auto	-2289.6015625 lb	(US)									
	44-0-0 Esn	Dry Fertilizer - Auto	-1684.4175220703	31 lb(US)		44							
	46-0-0 Urea	Dry Fertilizer - Auto	-6058.639986644	56 lb(US)		46							
	46-0-0 (GRAN. UREA) 1LB BULK	Dry Fertilizer - Auto	-58406.43554687	5 lb(US)	~								
	AMS	Dry Fertilizer - Auto	-47497.42158583	13 lb(US)									
	BD Metric Dry 1	Dry Fertilizer - Auto	50000 g										
	BD Metric Dry 2	Dry Fertilizer - Auto	50000 kg										
•	2011.1.1.1		500001										•
										Cancel		🗸 Ok	

Item	Description					
Search	Product search by name.					
Product	A list of products currently in the Plant Manager system. Names are user-generated when entered into the system.					
Туре	Liquid or dry fertilizers					
Current Total	The current inventory total of the product.					
In Use	If the product is currently being used in another Formulation Group or Recipe, a check mark appears in the column.					
N. P, K, S, Zn, B, Ca, Cu, Mg, Fe, Mn, W, X	The percentage nutrient composition of the product.					

8. Select the required products to add to the group.

9. Use the Active toggle to set the group as Active or Inactive.

10. Select **Save**; the Formulation Group details page displays.
| 20-20-20-5s | | | | re pressure assessments | | | | Active |
|---------------------------------|-------------|---------|--------|-------------------------|---------|---------|----------|----------|
| Formulation Group Name * | | | | | | | | |
| 20-20-20-5s | | | | | | | | |
| Analysis Type *
Blend Field | | | | | | | | |
| N P K
20 20 20 | Ca
O | Mg
0 | s
5 | B | Cu
0 | Fe
O | Mn
0 | Zn
O |
| Clay % | | | | | | | + Select | Products |
| Product 🛧 | Projected % | N | P K | Ca Mg | S B | Cu Fe | Mn Zn | x |
| 0-0-60 Potash | 30.064 | | 60 | | | | | 1 |
| 18-46-0 DAP | 39.236 | 18 | 46 | | | | | 1 |
| 21-0-0-24s AMS Granular | 12.619 | 21 | | | 24 | | | |
| 46-0-0 Urea | 18.081 | 46 | | | | | | 1 |
| | | | | | | | | |

Note

The current **Blend Analysis** of the formulation displays at the bottom of the page.

Current	Blend	Analysis
18-18-	18-33	5

6.3. Editing a Formulation Group

To edit a Formulation Group:

- 1. Go to Formulation Groups and select the group to edit.
- 2. Select Edit.

20-20	0-20-5s								Active	⊠ E	dit	~	×
Formula 20-20-	tion Group N -20-5s	ame											
Analysis Ble	Type end 🔵 Fie	ld											
N 20	Р 20	к 20	Ca O	Mg O	s 5		B 0	Cu O	Fe O	Mr O	1	Zn 0	
Clay %													
Produc	ct			Projected %	N	Р	K C	a Mg	S B	Cu Fe	Mn	Zn	x
0-0-60) Potash			30.064			60						
18- <mark>4</mark> 6-	-0 DAP			39.236	18	46							
21-0-0)-24s AMS (Granular		12.619	21				24				
46-0-0) Urea			18.081	46								
Current 18-18-	Blend Analys -18-35	iis											

3. Edit the group.

4. Select Save.

6.4. Deleting a Formulation Group

Note

A deleted Formulation Group cannot be retrieved.

To delete a Formulation Group:

- 1. Go to Formulation Groups and select a group.
- 2. From very next to Edit, select Delete.

20-20	-20-5s					attar Mintere		Active	🕑 Edit	~ ×
Formulatio	on Group Name 0-5s								Ľ	👕 Delete
Analysis Ty Blen 	ype nd 🔵 Field									
N	Р	К	Ca	Mg	S	В	Cu	Fe	Mn	Zn
20	20	20	0	0	5	0	0	0	0	0
Clay %					↑ Projected %	N P	K Ca	Mg S B	Cu Fe	Mn Zn X
0-0-60	Potash				30.064		60			
18-46-0	DAP				39.236	18 46				
21-0-0-	24s AMS Gran	ular			12.619	21		24		
46-0-0	Urea				18.081	46				

Note

A confirmation message displays. Click **Delete** to confirm.

Delete?		
Are you sure you want to delete '4-12-38'?		
	Cancel	Delete

3. Select Delete,

Note

Formulation Groups currently in use cannot be deleted. A warning message displays. The Formulation Group can be set to **Inactive**.



7. Crops

Crops are user-defined field crop-types that can be included as detail information in tickets, batches, and the running of processes.

To manage crops go to **Crops** on the left side menu bar.

AGI 🕿 Plant Mana	ger	Touchscreen 🚨 AGI	Tech 🗸 🗎 View 🌱 🛕 11 Alerts 📔 🗕 🗖 🗙
≡	🞜 Crops		C
🔳 Ticket Manager		Q	+ Add Crop
₩ Products	Name		^
	Alfalfa		
I≡ Recipes	Barley		
Formulation Groups	Corn		
Batch History	Corn-on-Beans		
Reports	Hay		
	Soy		
Partners	Soybeans		
🗙 Equipment	Wheat		
Vessels			
🞜 Crops			
Application Types			
🍰 Staff			
Settings			
🕑 Help			

7.1. Searching for a Crop

To search for a crop:

1. Go to Crops.

AGI 🖉 Plan	t Manager	Touchscreen 🚨 AGITech 🗸 🖹 View 🖓 🚹 11 Alerts 📔 🗕 👘 🗙
≡	🞜 Crops	C
Ticket Manager		Add Crop
14 Droducto	Name	Ŷ
& Products	Alfalfa	
I≡ Recipes	Barley	
Formulation Gro	oups Corn	
Batch History	Corn-on-Beans	
Reports	Hay	
:et Partnara	Soy	
· rattiets	Soybeans	
💥 Equipment	Wheat	
Vessels		
🞜 Crops		
🏞 Application Typ	es	
🍰 Staff		
Settings		
🚱 Help		

- 2. Enter the name of the crop and click enter.
- 3. Select the crop to open the information page.

7.2. Adding a Crop

To add a crop:

1. Go to Crops > + Add Crops.

AGI 🖉 Plant Mana	yer	Touchscreen 💄 AGITech 🗸 🖥	View 🗠 🔺 11 Alerts 📔 🗕	⊐ ×
=	🞜 Crops			C,
Ticket Manager		Q	+ Add C	irop
➢ Products	Name			
E Recipes	Alfalfa			
A	Barley			
Formulation Groups	Corn			
Batch History	Corn-on-Beans			
Reports	Hay			
:S: Partners	Soy			
· raimers	Soybeans			
💥 Equipment	Wheat			
R Vessels				
🞜 Crops				
Application Types				
≜o Staff				
Settings				
😮 Help				

- 2. Enter the name of the crop.
- 3. Select Save.

7.3. Editing a Crop

To edit a crop:

1. Go to **Crops** and select a crop.

AGI 🖉 Pli	ant Manager	Touchscreen	💄 AGITech 🗸 🖺 View 🗸	A 11 Alerts		×
≡	Alfalfa			🕑 Edit	~	×
🔳 Ticket Mana	ger Alfalfa					
🎾 Products						
I≡ Recipes						
E Formulation	Groups					
Batch Histor	у					
Reports						
🛎 Partners						
🗙 Equipment						
🕒 Vessels						
🞜 Crops						
Application	Types					
≟ ₀ Staff						
Settings						
😧 Help						

- 2. Select **Edit** and edit the name of the crop.
- 3. Select Save.

7.4. Deleting a Crop

Note

A deleted Crop cannot be retrieved. Crops assigned to fields cannot be deleted.

To delete a crop:

- 1. Go to **Crops** and select a crop.
- 2. From , select **Delete**.

Soy	C I	Edit	~	×
Crop Name		Î	Delete	e
Soy				

Note

A confirmation message displays.

[Delete?		
4	Are you sure you want to delete 'Barley'?		
	[Cancel	Delete

3. Select Delete.

Note

Crops currently in use cannot be deleted. A warning message displays. Disconnect the crop from fields. The Crop can be set to **Inactive**.

Т	This Crop cannot be deleted because it is referenced elsewhere. Consider setting this Crop to inactive in	nstead	Ι.
		c	ок

8. Equipment

Use the Equipment section to support the monitoring of equipment by providing:

- A list of equipment connected to each Process. ٠
- A maintenance reminder system that allows users to set maintenance alerts (based on equipment ٠ uptime), and to record maintenance history for connected equipment.

Select Equipment from the left sidebar menu to view the Equipment section main page, which displays a list of system equipment.

Use the drop-down menu above the list to filter the list by All Applicable Processes or by a specific Process.

A	🖒 😹 Plant Manag	ger			Touch	screen	💄 AGITe	ech 🗸 📄 View 🗸 🛛	A 7 Alerts		= >	٢
≡		Х	Equip	ment							C	
	Ticket Manager								+ Add	Equipm	ent	
14	Products		Туре	Name	IP Address	Port	Register	Life Uptime (days)				
0	Floducts	A	Underbin	Generic Underbin 1	192.168.0.45	502	500	48.003				
I	Recipes		Valve	Generic Valve 1	192.168.0.45	502	532	0.017				
Ê	Formulation Groups	A	Valve	Generic Valve 2	192.168.0.45	502	533	0.0				
	Batch History		Valve	Generic Valve 3	192.168.0.45	502	534	0.0				
٢	Reports		Valve	Generic Valve 4	192.168.0.45	502	535	0.0				
-	Partners		Valve	Generic Valve 5	192.168.0.45	502	536	0.0				
Ĩ	Partners		Valve	Generic Valve 6	192.168.0.45	502	537	0.0				
×	Equipment		Valve	Generic Valve 7	192.168.0.45	502	538	0.0				
	Vessels		Valve	Generic Valve 8	192.168.0.45	502	539	0.0				
,,	Crops		Loadout	Generic Loadout 1	192.168.0.45	502	508	0.1				
ም	Application Types											
20	Staff											
۵	Settings											
0	Help											
Ite	n		Descri	ption								
Тур	Type The type		pe of equipme	ent (unde	rbin,	loadou	ut, and valve	es).				

Name	A general alphanumeric identifier generated by the user. The software allows multiple pieces of equipment to have the same name.
IP Address	The IP address of the Process that the equipment is connected to

IP

Item	Description
Port	The IP Port of the Process that the equipment is connected to.
Register	The PLC Register Address of the equipment.
Life Uptime (Days)	The total number of days that the equipment has been in operation.

8.1. Searching for Equipment

To search for equipment:

1. Go to Equipment.

A	🖯 😹 Plant Manag	er			Touch	screen	AGITe	ech 🗠 🗎 View 🗠	A 7 Alerts	1 - 0	- x	:
=		Х	Equip	ment							C	
	Ticket Manager								+ Add	l Equipm	ent	
14	Products		Туре	Name	IP Address	Port	Register	Life Uptime (days)				
	Hoddels	▲	Underbin	Generic Underbin 1	192.168.0.45	502	500	48.003				
1	Recipes		Valve	Generic Valve 1	192.168.0.45	502	532	0.017				
Ê	Formulation Groups	▲	Valve	Generic Valve 2	192.168.0.45	502	533	0.0				
	Batch History		Valve	Generic Valve 3	192.168.0.45	502	534	0.0				
ė	Reports		Valve	Generic Valve 4	192.168.0.45	502	535	0.0				
			Valve	Generic Valve 5	192.168.0.45	502	536	0.0				
<u> </u>	Partners		Valve	Generic Valve 6	192.168.0.45	502	537	0.0				
×	Equipment		Valve	Generic Valve 7	192.168.0.45	502	538	0.0				
	Vessels		Valve	Generic Valve 8	192.168.0.45	502	539	0.0				
ø	Crops		Loadout	Generic Loadout 1	192.168.0.45	502	508	0.1				
P	Application Types											
20	Staff											
۵	Settings											
Ø	Help											

- 2. Select the Type, Name, IP Address, Port, Register, or Life Uptime (days) column headings to sort the list.
- 3. Select the equipment.

8.2. Adding Equipment

To add equipment:

1. Go to **Equipment** > + Add Equipment.

A	🖯 🥌 Plant Manag	ger			Touch	screen	💄 AGITe	ech 🗸 📄 View 🗸	A 7 Alerts	- 0	×
≡		×	Equip	ment							G
	Ticket Manager								+ Add	Equipmer	nt
7.0			Туре	Name	IP Address	Port	Register	Life Uptime (days)			
8	Products	A	Underbin	Generic Underbin 1	192.168.0.45	502	500	48.003			
I	Recipes		Valve	Generic Valve 1	192.168.0.45	502	532	0.017			
Ê	Formulation Groups	A	Valve	Generic Valve 2	192.168.0.45	502	533	0.0			
Ħ	Batch History		Valve	Generic Valve 3	192.168.0.45	502	534	0.0			
۲	Reports		Valve	Generic Valve 4	192.168.0.45	502	535	0.0			
	Destears		Valve	Generic Valve 5	192.168.0.45	502	536	0.0			
<u> </u>	Partners		Valve	Generic Valve 6	192.168.0.45	502	537	0.0			
*	Equipment		Valve	Generic Valve 7	192.168.0.45	502	538	0.0			
	Vessels		Valve	Generic Valve 8	192.168.0.45	502	539	0.0			
,2	Crops		Loadout	Generic Loadout 1	192.168.0.45	502	508	0.1			
(Pr	Application Types										
20	Staff										
	6										
*	Settings										
0	Help										
Iter	n			Description							
Тур	e			The type of equipment (underbin, loadout, and valves).							
Nar	Name			A general alphanumeric identifier generated by the user. The software allows multiple pieces of equipment to have the same name.							
IP A	Address			The IP address	s of the Pr	ocess	s that th	ne equipmer	nt is conne	cted to	·-
Por	t			The IP Port of the Process that the equipment is connected to.							
Reg	gister			The PLC Register Address of the equipment.							
Life	Life Uptime (Days)			The total number of days that the equipment has been in operation.							

2. Fill out the equipment profile information. Fields marked (*) are required.

Name *		Type *			
					•
IP Address *	Port *	Register Address *	Life Uptime in Days		
0.0.0.0	0	0	0.00		
Uptime					
Life Time					
Days	Hours		Minutes		
0	0		0		
Since Last Maintenance					
Days	Hours		Minutes		
0	0		0		
Maintenance Alerts					
Code Status Days Overdue					
Maintenance Reminders					
Code Reminder		Maintain After (day	i) Technician Name	Creator Name	
Maintenance History					
Code Comment		Date	Serviced Perf	ormed By Performer ID	
				Const	D care
				Cancel	• Save

Item (* Required Entry)	Description
* Name	A user-defined display name for the equipment.
* Туре	The type of equipment (Valve, Underbin, Loadout, or Conveyor)
* IP Address	The IP address of the Process that the equipment is connected to.
* Port	The IP Port of the Process that the equipment is connected to.
* Register Address	The PLC Register Address of the equipment.
Life Uptime in Days	The total lifetime operation time of the equipment, in days. See Section 8.6 – Equipment Uptime on page 54.
Uptime	Life time: how long the equipment has been operating. Since Last Maintenance: the time since the equipment was last serviced.
Maintenance Alerts	Maintenance reminders that are overdue. See Section 8.7 – Maintenance Alerts on page 55.
Maintenance Reminders	User-generated reminders for equipment maintenance. See Section 8.5 – Maintenance Reminders on page 52.
Maintenance History	Previous maintenance histories. See Section 8.7 – Maintenance History on page 55.

3. Select **Save** to save the new equipment entry or **Cancel** to return to the Equipment section main page without saving.

8.3. Editing Equipment

1. Select **Edit** from the equipment page.

Generic Underbin 1				🕑 Edit 🛛 🛩
^{Name} Generic Underbin 1		Type Underbin		
P Address 192.168.0.45	Port 502	Register Address 500		
Uptime				
Life Time Days 48	Hours 0		Minutes 4	
Since Last Maintenance Days O	Hours 0		Minutes 2	
Maintenance Alerts				
Code Status Days Overdue				
Maintenance Reminders				
Code Reminder		Maintain After (days)	Technician Name	Creator Name

2. Edit the equipment profile.

Item (* Required Entry)	Description			
* Name	A user-defined display name for the equipment.			
* Туре	The type of equipment (Valve, Underbin, Loadout, or Conveyor)			
* IP Address	The IP address of the Process that the equipment is connected to.			
* Port	The IP Port of the Process that the equipment is connected to.			
* Register Address	The PLC Register Address of the equipment.			
Life Uptime in Days	The total lifetime operation time of the equipment, in days. See Section 8.6 – Equipment Uptime on page 54.			
Uptime	Life time: how long the equipment has been operating. Since Last Maintenance: the time since the equipment was last serviced.			
Maintenance Alerts	Maintenance reminders that are overdue. See Section 8.7 – Maintenance Alerts on page 55.			
Maintenance Reminders	User-generated reminders for equipment maintenance. See Section 8.5 – Maintenance Reminders on page 52.			
Maintenance History	Previous maintenance histories. See Section 8.7 – Maintenance History on page 55.			

3. Select **Save** to save the equipment entry, or **Cancel** to return to the Equipment section main page without saving.

8.4. Deleting Equipment

Note

Deleted equipment cannot be retrieved.

To delete equipment:

- 1. Go to **Equipment** and select the equipment to delete.
- 2. From next to **Edit**, select **Delete**.

Generic Underbin 1				🗹 Edit 🔽 🗙
Name		Туре		i Delete
Generic Underbin 1	Underbin	Underbin		
IP Address	Port	Register Address		
192.168.0.45	502	500		
Uptime				
Life Time				
Days	Hours		Minutes	
48	0		4	
Since Last Maintenance				
Days	Hours		Minutes	
0	0		2	
Maintenance Alerts				
Code Status Days Overdue				
Maintenance Reminders				
Code Reminder		Maintain After (days)	Technician Name	Creator Name

Note

A confirmation message displays. Select **Delete** to confirm.

Delete?
Are you sure you want to delete 'Generic Valve 1'?
Cancel Delete

Note

Equipment currently in use cannot be deleted. A warning message displays. The equipment can be set to **Inactive**.

8.5. Setting Maintenance Reminders

Maintenance Reminders indicate when specific equipment needs maintenance. The reminder includes a unique code for the type of maintenance, a description of the required maintenance, the number of days until the next maintenance, and the assigned technician for the service. Maintenance Reminders are manually entered into the system on the Equipment page.

Maintenance Reminders											
Code	Reminder		Maintain After (days)	Technician Name	Creator Name						
AGI41RT	Check valve connection.	ø	10.000	AGITech	AGITech	T					

To set a maintenance reminder:

- 1. Go to Equipment.
- 2. From the drop-down menu at the top of the page, select Add Reminder.

Generic Valv	re 1					_	🗹 Edit	⊻ ×
Name Generic Valve 1			Type Valv	'e			Delete Add Rer	minder
IP Address 192.168.0.45		Port 502	Regist	ter Address				
Uptime								
Life Time								
Days 0		Hours 0			Minutes 12			
Since Last Mainten	ance							
Days O		Hours 0			Minutes 2			
Maintenance	Alerts							
Code Status	Days Overdue							
Maintenance	Reminders							
Code	Reminder		Maintain A	fter (days)	Technician Name	e Creato	r Name	
Maintenance	History							
Code	Comment			Date Service	d	Performed By	Performer ID	
AGI41RT			68	5/18/2021	7:37:24 AM	AGITech	0	1
001			88	5/18/2021	9:19:20 AM	AGITech	0	

3. Complete the fields and assign the action to a technician.

Days	Hours	Minutes	
0	0	0	
Maintenance Code	Assigned To *		•
Reminder			
		Cancel	Save

Item (* Required Entry)	Description
Days, Hours, Minutes	The amount of time until the alert is generated.
Maintenance Code	A user-generated code for the maintenance action.
Assigned To*	Select the technician from the drop-down list.
Reminder	A text describing the maintenance action.

- 4. Write a short description of the required maintenance.
- 5. Select Save.

Note

The Maintenance Reminder shows in the Maintenance Reminder field.

Maintenance Reminders									
Code	Reminder		Maintain After (days)	Technician Name	Creator Name				
AGI41RT	Check valve connection.		10.000	AGITech	AGITech				

8.6. Viewing Equipment Uptime

Equipment uptime is the amount of time the equipment has been operating.

To view equipment life uptime and uptime since last maintenance:

1. Go to **Equipment** and select an equipment entry.

A	🖯 😹 Plant Manag	ger			Touch	screen	AGITe	ech 🗠 🖺 View 🗠	A 7 Alerts	_ 0	×
≡		×	Equip	ment							C
	Ticket Manager								+ Add	Equipmen	ıt
7.0			Туре	Name	IP Address	Port	Register	Life Uptime (days)			
8	& Products	A	Underbin	Generic Underbin 1	192.168.0.45	502	500	48.003			
I	Recipes		Valve	Generic Valve 1	192.168.0.45	502	532	0.017			
Ê	Formulation Groups	A	Valve	Generic Valve 2	192.168.0.45	502	533	0.0			
	Batch History		Valve	Generic Valve 3	192.168.0.45	502	534	0.0			
ø	Reports	[Valve	Generic Valve 4	192.168.0.45	502	535	0.0			
_			Valve	Generic Valve 5	192.168.0.45	502	536	0.0			
-	Partners		Valve	Generic Valve 6	192.168.0.45	502	537	0.0			
×	Equipment		Valve	Generic Valve 7	192.168.0.45	502	538	0.0			
	Vessels		Valve	Generic Valve 8	192.168.0.45	502	539	0.0			
ø	Crops		Loadout	Generic Loadout 1	192.168.0.45	502	508	0.1			
6	Application Types										
20	Staff										
\$	Settings										
8	Help										

2. Review the equipment life uptime and uptime time since last maintenance information.

Uptime							
Life Time							
Days 48	Hours 0	Minutes 0					
Since Last Maintenance							
Days O	Hours 0	Minutes 0					

8.7. Viewing Maintenance Alerts and History

Maintenance Alerts are activated when a Maintenance Reminder is overdue. They can be viewed on the Maintenance page, and from the Alert icon at the top right of the screen.

To view Maintenance Alerts from the equipment maintenance page:

- 1. Go to **Equipment** and select an equipment entry.
- 2. View the maintenance status of the equipment.

Generic Valve 1					🗭 Edit	~	×
Name Generic Valve 1		Tj	^{ype} Valve				
IP Address	Port	R	egister Address				
192.168.0.45	502	:	532				
Uptime							
Life Time							
Days	Hours			Minutes			
0	0			12			
Since Last Maintenance							
Days	Hours			Minutes			
0	0			2			
Maintenance Alerts							
Code Status Days Overdue							
Maintenance Reminders							
Code Reminder	Maintain Af	ter (days)	Technician Nam	e Crea	itor Name		
Maintenance History							
Code Comment		Date Service	ed	Performed By	Performer ID		
AGI41RT		5/18/2021	7:37:24 AM	AGITech	0	Ĩ	Ì
001	88	5/18/2021	9:19:20 AM	AGITech	0	Ĩ	ĩ

Note

Select **•** to read notes about the maintenance.

3. Select **Complete** if the maintenance has been completed.

Note

To delete the maintenance reminder, select



Note To view Maintenance Alerts from the top right menu, select the Alert icon at the top left of the screen. This page also shows robot and agronomy alerts. Check the status of the alert and select **Complete** if the maintenance has been completed.



Viewing Maintenance History

Maintenance Reminders are moved to Maintenance History when marked as Complete. The maintenance history of equipment records the following information: maintenance code, comments, date of service, name and ID of the technician performing the service. The information is editable.

To view Maintenance History:

- 1. Go to **Equipment** and select the equipment.
- 2. Review the maintenance history.

Maintenance History										
Code	Comment		Date Serviced	Performed By	Performer ID					
AGI41RT		•	5/18/2021 7:37:24 AM	AGITech	0	·				
001			5/18/2021 9:19:20 AM	AGITech	0					

Note

To delete a maintenance history, select

9. Partners

The Partners section is used in the management of plant processes. The system stores information on partners including partner type, ID code, external ID code, name, and contact details. A partner's status can be set to Active or Inactive manually. Partner information is editable.

There are 5 partner types:

- **Carrier**. A logistics/trucking partner. Vessels are typically assigned to a partner.
- Customer. The commercial partner receiving the product.
- **Dispensing Location**. A partner that provides blended products, including the user's location if applicable.
- Driver. A partner that operates a transport vessel or applicating vessel.
- **Employee**. A partner that operates the software.

Select Partners from the left sidebar menu to view the Partners main page.

A	🕤 🧲 Plant Manag	jer		Touchscree	en 🚨 A	GITech 🗸 📄 View 🗸	🔺 7 Al	erts –	• ×
≡		📽 Partners							C
	Ticket Manager		Q	All Types	5	• • A	ctive	+ Add Pa	rtner
		Name 🛧	Code	Customer	Carrier	Dispensing Location	Driver	Employee	
(a)	Products	04698	1301250	~					
I	Recipes	1AndBa	Urea	~					
Ê	Formulation Groups	9471	DAP	~					
Ħ	Batch History	AGITech						~	
Û	Reports	AGITech	2222				~		
	Destaura	Arndt Angus LLC		~					
-	Partners	Atkinson Enterprises Inc.		~					
×	Equipment	David Woods	TR220				~		
	Vessels	Dillet Farms		~					
,2	Crops	Ethan Carrier			~				
P	Application Types	Ethan DL				~			
-		Evergreen Diversified Agriculture		~					
ã0	Staff	FINDLAY OH (626)	626			~			
\$	Settings	Ganford Carrier	GC-303		~				
0	Help	Gary Palmer		~					~

Item	Description
Name	The name of the partner
Code	A user-generated alphanumeric code for record-keeping
Туре	Carrier, Customer, Dispensing Location, Driver, Employee

9.1. Searching for a Partner

Refine Partner searches by:

- Searching for individual partners by name or code.
- Using the Active Checkbox to filter active or inactive partners.
- Searching based on type of partner.
- Sorting partners by name, code, and type columns.

To search for a partner:

1. Go to Partners.

A	🕤 😹 Plant Manag	yer		Touchscree	en 🚨 A	،GITech 🗸 🖺 ۱	/iew 🗸 📔 🧴	7 Alerts	– • ×
⊨		ஃ Partners	1990					_	C
	Ticket Manager		Q	All Type:	5	•	 Active 	+ 4	dd Partner
74		Name 🕇	Code	Customer	Carrier	Dispensing Loo	ation Driv	ver Employ	yee
8	Products	04698	1301250	~					Î
I	Recipes	1AndBa	Urea	~					
Ê	Formulation Groups	9471	DAP	~					
Ë	Batch History	AGITech						~	
¢	Reports	AGITech	2222					/	_
-	Perterer	Arndt Angus LLC		~					
	Partners	Atkinson Enterprises Inc.		~					
×	Equipment	David Woods	TR220						
	Vessels	Dillet Farms		~					
ø	Crops	Ethan Carrier			~				
P	Application Types	Ethan DL				~			
-		Evergreen Diversified Agriculture		~					
ão,	Staff	FINDLAY OH (626)	626			~			
\$	Settings	Ganford Carrier	GC-303		~				
0	Help	Gary Palmer		~					~

2. Use the **search field** to search by name or code.

- 3. Use the Active checkbox to filter by Active and Inactive partners.
- 4. Select the **Type** of partner.
- 5. Press Enter; the list of partners displays.
- 6. Select the partner.

To sort the list of partners by name, code, or type:

- 1. Go to Partners.
- 2. Above the list of partners, select the heading Name, Code, or Type.

📽 Partners						G
Search by Name \ Code			₽ All Types	•	✓ Active	+ Add Partner
Name	Ŷ	Code	Туре			
AGITech		2222	Driver			<u></u>
Arndt Angus LLC			Customer			
Atkinson Enterprises Inc.			Customer			
David Woods		TR220	Driver			

9.2. Adding a Partner

To add a partner:

1. Go to Partners > + Add Partner.

A	🖯 属 Plant Manag	jer		Touchscre	en 🚨 A	AGITech 🛩 🖺 '	View 🖌 🕴	A 7 Alerts	_ ¤ ×
⊨		😫 Partners							C
=	Ticket Manager		Q	All Type	s	•	 Activ 	ve 🕇	Add Partner
		Name 🕇	Code	Customer	Carrier	Dispensing Lo	cation E	Driver Emple	oyee
)	Products	04698	1301250	~					î
I=	Recipes	1AndBa	Urea	~					
Ê	Formulation Groups	9471	DAP	~					
Ħ	Batch History	AGITech						v	
Ŕ	Reports	AGITech	2222					~	
-	2	Arndt Angus LLC		~					
	Partners	Atkinson Enterprises Inc.		~					
*	Equipment	David Woods	TR220					~	
	Vessels	Dillet Farms		~					
,2	Crops	Ethan Carrier			~				
6	Application Types	Ethan DL				~			
_		Evergreen Diversified Agriculture		~					
20	Staff	FINDLAY OH (626)	626			~			
\$	Settings	Ganford Carrier	GC-303		~				
0	Help	Gary Palmer		~					~

2. Complete the partner profile information. Items marked (*) are required.

Γ

			Export to Ac	gronomy 💽	Active
Code		External Id			
Name *		First Name			
Nome					
First Name					
Pastage Tung *					
Carrier	Customor		Dispon	sing Location	
Driver	Employee		Dispens	sing Location	
Diver	Employee				
Send Batch Completed Notification					
via Text	via Email				
Contacts Addresses Lice	enses				
Phones				+	
• Filolies				-	8
Primary & Phone Number *		Type *	Phone Carrier		
Emails Primary Email Address *				+ Add Em	nail
				Cancel	Save
Item (* Required Entry)	Description				
Export to Agronomy	Select Export t defined agron	rt to Agronomy to allow tickets to be exported to the onomy.			
Code A user-gener		rated alphanumeric code for the partner.			
External ID The unique II plugin. This is		ID for this partner provided by an external agronomy is used to identify the partner across platforms.			
* Name	A user-generation and last name	ated name for the partner. If the user completes the first is fields, the full name field is auto filled by the system.			
* Partner Type	stics/trucking p rs. e partner recei cation . A part ner that opera	partner. Vessels a iving the product ner that provides tes the transport	are typically assign s blended product t or dispensing veh	ned to s. nicles.	

Item (* Required Entry)	Description
	Employee . A partner that operates the software.
	Note Partners can be multiple types, for example both a carrier and a dispensing location.
Contacts	Add phone, e-mail, and addresses of partner.
Licenses	AGI software licenses and other related licenses.
Active	Use the Active/Inactive toggle to add or remove a partner from the screen. A partner can be set as inactive if they cannot be deleted.

Note

Drivers can be assigned to carriers and dispensing locations. Drivers must be added as partners before assigning them.

Note

Use the **Active toggle** to add or remove the partner from the screen. Set a partner to inactive if they cannot be deleted.

3. Add the partner's email information, and other contact information from the **Contacts** tab.

Emails	+	Add Email
Primary 🕹 Email Address *	Type *	
	Cancel	Save

4. Check the **Send Batch Completed Notification** boxes to send batch completion notifications by text, email, or both.

Send Batch Completed Notification via Text	Send Batch Completed Notification via Email
--	---

5. Select Save.

9.3. Editing a Partner

To edit a partner:

- 1. Go to **Partners** and search for the partner.
- 2. Select the partner and click **Edit**.
- 3. Edit the partner profile.

AGITech	0	Active	i Edit 🗸 🗙
Code 2222	Partner Type Driver		
External Id	Name AGITech		
First Name	Last Name		
The DeLong Co., Inc Clinton Send Batch Completed Notification via Text Contacts Addresses Licenses	✓ Send Batch Con	npleted Notification	on via Email
Phones Primary Phone Number	Туре	Phone Carrier	Text Notification
Emails			

4. Select Save.

9.4. Deleting a Partner

Note

A deleted Partner cannot be retrieved.

Partners cannot be deleted if:

- they are linked to a ticket.
- their field is linked to a ticket.
- the partner type is a driver linked to a vessel.
- the partner type is a dispensing location/carrier and has any linked vessels

To delete a partner:

- 1. Go to Partners and select the partner.
- 2. From , select **Delete**.

AGITech		 Active 	🗹 Edit 🗸 🗙
Code 2222	Partner Type Driver	External Id	盲 Delete
Name AGITech	First Name	Last Name	
Parent Partner The DeLong Co., Inc Clinton			
Send Batch Completed Notification via Text	 Send Batch Completed Notification via Email 		

3. Select Delete.

Note

A confirmation message displays. Click **Delete** to confirm.

Delete?	
Are you sure you want to delete 'Ganford Carrier'?	
	Cancel Delete

Note

Partners currently in use cannot be deleted. A warning message displays. The Partner can be set to **Inactive**.

This Partner cannot be deleted because it is referenced setting this Partner to inactive instead.	elsewhere. Consider
	ОК

10. Recipes

Recipes are customized blends of products. Use recipes to record and reuse blends that are likely to be used again in the future, making it easier to create tickets for these blends. The system records recipes which can be assigned to different customer orders.

There are three types of recipes based on:

- the amount of product per area
- the amount of product per ton
- the percentage of product

To create and manage recipes go to Recipes

🕝 🧲 Plant Man	ager		То	uchscreen 🚨 AGITech	🗸 📔 View 🗸 🚺 🛕	7 Alerts 🛛 🗕 🗖
=	i≡ Rec	ipes				C
Ticket Manager			Q	All Types	 Active 	+ Add Recipe
Products	Recipe Id 🛧	Recipe Name	Product	Recipe Type	Mixer Type	
Fioducis	R00000001	Michel Recipe		Amount of Product P	er Ton Dry	
Recipes	R00000004	AZ-Spring 2021		Percentage of Produc	ct Dry	
Formulation Groups	R00000005	Ethan Recipe		Amount of Product P	Per Ton Dry	
Batch History	R0000006	Test Aaron	18-46-0 DAP BUI	K Percentage of Produc	ct Dry	
Reports	R0000007	R1		Amount of Product P	Per Ton Liquid	
	R0000008	R1		Amount of Product P	Per Area Liquid	
Partners	R00000009	R3		Percentage of Produc	ct Liquid	
Equipment	R00000010	R4		Amount of Product P	er Ton Liquid	
Vessels	R00000011	R5		Amount of Product P	Per Area Liquid	
Crops	R00000012	R4		Percentage of Produc	ct Liquid	
Application Types						
s Staff						
Settings						
Help						

Item	Description
Recipe ID	A user-generated ID for the recipe.
Recipe Name	A user-generated name for the recipe.
Product	The products used in the blend.

Item	Description
Recipe Туре	Based on the amount of product: per area, per ton, or by percentage of product.
Mixer Type	The type of robot making the blend.

10.1. Searching for a Recipe

Search for a recipe by:

- Using the Active Checkbox to filter active or inactive recipes.
- Searching by recipe ID, name, or product.
- Searching by recipe type.

To search for a recipe:

- 1. Go to Recipes.
- 2. Enter the search parameters in the search box.

A	🕤 😹 Plant Manag	jer		То	uchscreen 🚨 AGITech 🛩 🖺 Vi	iew 🔨 🔺 7 Ale	erts – 🗆 X
≡		i≡ Rec	ipes				C
=	Ticket Manager			Q	All Types 🔹	✓ Active	+ Add Recipe
744		Recipe Id 🛧	Recipe Name	Product	Recipe Type	Mixer Type	
	Products	R00000001	Michel Recipe		Amount of Product Per Ton	Dry	
E	Recipes	R00000004	AZ-Spring 2021		Percentage of Product	Dry	
Ê	Formulation Groups	R00000005	Ethan Recipe		Amount of Product Per Ton	Dry	
Ħ	Batch History	R00000006	Test Aaron	18-46-0 DAP BUL	K Percentage of Product	Dry	
Ô	Reports	R0000007	R1		Amount of Product Per Ton	Liquid	
	Partmarr	R0000008	R1		Amount of Product Per Area	Liquid	
	Partners	R00000009	R3		Percentage of Product	Liquid	
*	Equipment	R00000010	R4		Amount of Product Per Ton	Liquid	
	Vessels	R00000011	R5		Amount of Product Per Area	Liquid	
2	Crops	R00000012	R4		Percentage of Product	Liquid	
6	Application Types						
20	Staff						
۵	Settings						
0	Help						

3. Filter the search by selecting the recipe Type from the drop-down menu.

All Types	•
All Types	
Amount of Product Per Area	
Amount of Product Per Ton	
Percentage of Product	

Note

Also use the **Active toggle** to search for active or inactive recipes.

10.2. Adding a Recipe

To add a recipe:

1. Go to **Recipes** > + Add Recipe.

Ā	🕤 🧲 Plant Manag	jer		1	Fouchs	screen 🗟 AGITech 🗸	🖬 Vi	iew 🗸 📔 🤷 7	Alerts	- 0	×
≡		i≡ Rec	ipes								G
=	Ticket Manager			Q	All 1	[ypes	•	✓ Active	+.	Add Reci	ре
14	Products	Recipe Id 🛧	Recipe Name	Product	1	Recipe Type		Mixer Type			
-	Products	R00000001	Michel Recipe			Amount of Product Per	Ton	Dry			
E	Recipes	R00000004	AZ-Spring 2021			Percentage of Product		Dry			
Ê	Formulation Groups	R00000005	Ethan Recipe			Amount of Product Per	Ton	Dry			
Ħ	Batch History	R00000006	Test Aaron	18-46-0 DAP BU	JLK	Percentage of Product		Dry			
Ê	Reports	R0000007	R1			Amount of Product Per	Ton	Liquid			
-	Deste ere	R0000008	R1			Amount of Product Per	Area	Liquid			
	Partners	R00000009	R3			Percentage of Product		Liquid			
*	Equipment	R00000010	R4			Amount of Product Per	Ton	Liquid			
	Vessels	R00000011	R5			Amount of Product Per	Area	Liquid			
2	Crops	R00000012	R4			Percentage of Product		Liquid			
P	Application Types										
20	Staff										
۵	Settings										
0	Help										

2. Complete the required (*) details, and optional details if requested.

=		Active
Ticket Manager	Recipe Id	Recipe Name *
₩ Products	Create Manufactured Product In Batch	Manufactured Product
I≡ Recipes	Recipe Type *	Units *
Formulation Groups	System Type * Fertilizer System	Application Type
Batch History	Mixer Type *	
Reports	Blend Analysis	
🛎 Partners		+ Select Products
🗙 Equipment	Product	↑ Percentage Amount Units

Item (* Required Entry)	Description
Recipe ID	A user-generated ID code for the recipe.
* Recipe Name	A name for the recipe.
Create Manufactured Product in Batch	Select to add existing products to a recipe. Note If this option is selected, the details of the products do not display n the batch printout. To not display
	manufactured products on a printout, see Section 21.6.1 – Creating a New Template on page 215 in Printing Settings.
Manufactured Product	The resulting product after making a recipe.
* Recipe Type	Based on the amount of product: per area, per ton, or percentage.
* Units	The units of measurement for the recipe components.
* System Type	Currently only Fertilizer System is available.
Application Type	The vessel applying the fertilizer.
* Mixer Type	The robot making the recipe.
Blend Analysis	The Blend Analysis shows the percentage nutrient composition of a recipe by product content and weight.
+Select Products	Products already entered into the system display in a list.

3. Select + Select Products to add product combinations.

B121TR						Active
Recipe Id			Recipe	Name *		
			B121	TR		
Manufactured Product			Recipe	Type *		
21-0-0-24s AMS Granular		•	Amo	unt of Pro	duct Per	r Area
Units *						
acre(US)		•				
System Type *			Applic	ation Type		
Fertilizer System		•	SAB	304L		•
Mixer Type *						
Dry		•				
Blend Analysis			Field A	nalysis		
						+ Select Products
Product	个	Percer	ntage	Amount	Units	Amount Per Area Units

4. Select the products to add and select **Ok**.

Se	arch by Name		•		All Active	Processes	•
	Product	Туре	Current Total	In Use	Per Area Uom	Per Order Uom	Hand Add Uom
	0-0-60 Potash	Dry Fertilizer - Auto	-78,553.49 lb(US)	~	lb(US)/acre	lb(US)	lb(US)
	0-0-62 MUR/POT GRAN BULK	Dry Fertilizer - Auto	-981.0 lb(US)	~	lb(US)/acre	lb(US)	lb(US)
	18-46-0 DAP	Dry Fertilizer - Auto	-18,308.78 lb(US)		lb(US)/acre	lb(US)	lb(US)
	18-46-0 DAP BULK	Dry Fertilizer - Auto	-14,603.99 lb(US)	~	lb(US)/acre	lb(US)	lb(US)
	21-0-0-24s AMS Mid-Grade	Dry Fertilizer - Auto	-2,500.0 lb(US)		lb(US)/acre	lb(US)	lb(US)

10.3. Editing a Recipe

To edit a recipe:

- 1. Go to **Recipes** and select a recipe.
- 2. Select **Edit** and edit the recipe.

Michel Recipe	Active 🗹 Edit 🗸 🗙
Recipe Id R00000001	Recipe Name Michel Recipe
Manufactured Product	Recipe Type Amount of Product Per Ton
System Type	Application Type
Fertilizer System	Fuel-vault FW5
Mixer Type	
Dry	
Blend Analysis	
4.5-11.5-45	
Product	↑ Percentage Amount Units
0-0-60 Potash	75 1500 lb(US)
18-46-0 DAP	25 500 lb(US)

3. Select Save.

10.4. Deleting a Recipe

Note

A deleted Recipe cannot be retrieved.

To delete a recipe:

- 1. Go to Recipes and select a recipe.
- 2. From v select **Delete**.

Michel Recipe		Active	🕑 Ec	lit 🗸	×
Recipe Id R0000001	Recipe Name Michel Recipe			î D	elete
Create Manufactured Product In Batch	Manufactured Product				
Recipe Type Amount of Product Per Ton					
System Type Fertilizer System	Application Type Fuel-vault FW5				
Mixer Type Dry					
Blend Analysis 4.5-11.5-45					
Product		Ť	Percentage	Amount	Units
0-0-60 Potash			75	1500	lb(US)
18-46-0 DAP			25	500	lb(US)

3. Select Delete.

Note

A confirmation message displays. Select **Delete** to confirm.

Delete?	
Are you sure you want to delete 'Michel Recipe'?	
	Cancel Delete

Note

Recipes currently in use cannot be deleted. A warning message displays. The Recipe can be set to **Inactive**.

This recipe cannot be deleted because it is referenced elsewhere. Co setting this recipe to inactive instead.	onsider
	ОК
11. Products

Use the Products section to manage products in the creation of customized fertilizers. Products are added to the system and assigned to a customer as part of a recipe, ticket, batch, and formulation group. Each product entered into the system has a detailed product profile that records and displays the current inventory of a product, and adjusts the inventory quantities when dispensed.

Select **Products** from the left sidebar menu to view the products section main page, which displays a list of products.

The list of products can be filtered by selecting filter check boxes as follows:

- Low: products that have low quantities
- Currently in Use: products that are currently used in a Recipe or Formulation Group.
- Incomplete: products that are missing mandatory product profile information
- Active: products that are set as Active (available for use)

A	🖯 🔙 Plant Mana	ger in the second s		Touchscreen M	/lode 🎴	AGITed	.h 🗠 🖺 View 🗠	A 7 Aler	ts 🗆 🗆 🖓	×
≡		> Products							C	
		Low Currently in use	Incomplete 🗸 Activ	ve					View As Lis	at
	licket Manager		A	II Types		•		~	- Add Product	
3#	Products	Name 🛧	Туре	Incomplete	Active	Order	Current Total			
I	Recipes	0-0-60 Potash	Dry Fertilizer - Auto		~	0	0 lb(US)		Í	ì
Ê	Formulation Groups	0-0-62 MUR/POT GRAN BULK	Dry Fertilizer - Auto		~	0	-85,773.29 lb(US)		
Ë	Batch History	18-46-0 DAP	Dry Fertilizer - Auto		~	0	48,979.34 ton(US	5)		
		18-46-0 DAP BULK	Dry Fertilizer - Auto		~	0	-116,528.99 lb(U	S)		
	Reports	21-0-0-24s AMS Mid-Grade	Dry Fertilizer - Auto		~	0	-2,555 lb(US)			
-	Partners	21-0-0-24s AMS Granular	Dry Fertilizer - Auto		~	0	-10,039.602 lb(U	S)		
×	Equipment	44-0-0 Esn	Dry Fertilizer - Auto		~	0	0 lb(US)			
	Vessels	46-0-0 Urea	Dry Fertilizer - Auto		~	0	-64,021.273 lb(U	S)		
a	Crops	46-0-0 (GRAN. UREA) 1LB BULK	Dry Fertilizer - Auto		~	0	-58,406.436 lb(U	S)		
~		AMS	Dry Fertilizer - Auto		~	0	0 lb(US)			
-	Application Types	BD Metric Dry 1	Dry Fertilizer - Auto		~	0	-40,000 g			
20	Staff	BD Metric Dry 2	Dry Fertilizer - Auto		~	0	50,000 kg			
\$	Settings	BD Metric Liquid	Liquid Fertilizer - Aut	to	~	0	50,000 L			
0	Help	BD US Dry	Dry Fertilizer - Auto		~	0	48,171.439 lb(US)		

Item	Description
Name	A name for the product defined by the user.
Туре	 Chemical-Auto: Dispensed through a subsidiary system into the main carrier system. Chemical-Hand: Dispensed after all chemical — auto products have been dispensed. Dry Fertilizer-Auto: Dispensed through the main carrier system. Liquid Fertilizer-Auto: Dispensed through the main carrier system.
Incomplete	Check mark indicates that mandatory product information is missing.
Active	Check mark indicates that the product is set as active.
Order	Indicates the order in which product is dispensed.
Current Total	The current inventory of this product in the system. This number decreases when the product is dispensed.
Low	Use this checkbox to sort the list of products that are currently low in volume.
Currently in Use	Use this checkbox to sort the list of products that are currently in use

11.1. Searching for a Product

A	t 🔄 Plant Manag	jer		Touchscreen N	/lode	AGITe	ch 🗸 🖺 View 🌱	A 7	Alerts		ı ×
≡		Products									G
-	Ticket Manager	Low Currently in use	Incomplete 🗸 Activ	e					[View A	As List
	Ticket Manager		A	ll Types		•		~	+ /	dd Produ	ıct
3	Products	Name	Туре	Incomplete	Active	Order	Current Total				
I	Recipes	0-0-60 Potash	Dry Fertilizer - Auto		~	0	0 lb(US)				Î
Ê	Formulation Groups	0-0-62 MUR/POT GRAN BULK	Dry Fertilizer - Auto		~	0	-85,773.29 lb(US)			
Ħ	Batch History	18-46-0 DAP	Dry Fertilizer - Auto		~	0	48,979.34 ton	(US)			
-		18-46-0 DAP BULK	Dry Fertilizer - Auto		~	0	-116,528.99 lb	(US)			
	Reports	21-0-0-24s AMS Mid-Grade	Dry Fertilizer - Auto		~	0	-2,555 lb(US)				
-24	Partners	21-0-0-24s AMS Granular	Dry Fertilizer - Auto		~	0	-10,039.602 lb	(US)			
×	Equipment	44-0-0 Esn	Dry Fertilizer - Auto		~	0	0 lb(US)				
	Vessels	46-0-0 Urea	Dry Fertilizer - Auto		~	0	-64,021.273 lb	(US)			
2	Crops	46-0-0 (GRAN. UREA) 1LB BULK	Dry Fertilizer - Auto		~	0	-58,406.436 lb	(US)			
~		AMS	Dry Fertilizer - Auto		~	0	0 lb(US)				
	Application Types	BD Metric Dry 1	Dry Fertilizer - Auto		~	0	-40,000 g				
20	Staff	BD Metric Dry 2	Dry Fertilizer - Auto		~	0	50,000 kg				
\$	Settings	BD Metric Liquid	Liquid Fertilizer - Auto	D	~	0	50,000 L				
0	Help	BD US Dry	Dry Fertilizer - Auto		~	0	48,171.439 lb(US)			

Searches for products can be refined by:

- Selecting the Active Checkbox to filter by Active/Inactive status.
- Selecting the Incomplete Checkbox to filter by Incomplete/Complete status.

Note

The system records which products are missing required information. This search method lists products with missing information.

- Selecting the Currently in Use Checkbox to filter by current status.
- Selecting the Low Checkbox to filter by low quantities of products in the inventory.
- Searching by product name and product type.

To search for a product:

- 1. Go to Products.
- 2. Enter the name of the product in the search field and select enter or press the tab key.

Products			
Low Currently In Use	Incomplete	 Active 	
Search by Name	ρ	All Types	•

Note

Use the drop-down box to filer the search by product Type.

All Types	•
All Types	
Chemical - Auto	
Chemical - Hand	
Dry Fertilizer - Auto	
Liquid Fertilizer - Auto	

3. Filter the search using the check boxes.

Low Currently In Use	Incomplete	 Active
----------------------	------------	----------------------------

Note

Products can be viewed as a list or as graphics. The graphics view also shows the current inventory of the product. Uncheck the **View as List** box to view as graphics.



11.2. Adding a Product

Adding a product creates a product profile which includes product details, product inventory, and nutrient information. New products may be imported via the agronomy import process but will remain inactive until the profile is completed.

Note

Product profiles can be incomplete. It is recommended to complete as much of the profile as possible. The system records which products are missing data.

To add a product:

1. Go to **Products** > + Add Product.

₽ Products C							
Low Currently In Use Incomplete ✓ Active							
Search by Name	Q	All Types 🔹	~	+ Add Product			
Name	Туре	Incomplete Active Order	Current Total				

2. Complete the **Product Details** information. Items marked (*) are required.

AG S Plant Mana	ager	Touchscre	en 🚢 AGITech 🗸 🗎 View '	🗡 🛕 7 Alerts 🛛 🗕 🗖 🗙
=				
Ticket Manager	Details Incomplet	te Orders History		Complete O Active
Products	Product Name *			
🔚 Recipes	Product Type *		Description	
E Formulation Groups	External Id *	•	EPA Reg Number	
Batch History	Dancity *	Doncity Unite #		
Reports	Density	▼	Specific Gravity	0
🗳 Partners	Rate / Area Units *	Application Rate Units	Per Order Units *	Hand Add Units *
🗙 Equipment	Import/Export Units *	Print In Unit	Minimum Rate	Maximum Rate
Vessels	Recommended Rate	Displacement Factor *	Product Order *	
🞜 Crops	Auto Calc Product	•	Auto Calc Product Ratio	
Application Types	Inventory			
Lo Staff	Ongoing Total *		Units *	
Settings	Usage *	ľ	May Charman	
😧 Help				Cancel 🖬 Save

Product Profile Item (* Required Entry)	Description
* Product Name	A unique user-generated product identifier of up to 50 characters.
* Product Type	Products are classified as; chemical-auto, chemical- hand, dry fertilizer-auto, or liquid fertilizer-auto.
* External ID	The identification code linking the product to external systems.
* Density	The specific density of the product.
* Density Units	The density unit for the product.
Specific Gravity	The specific gravity can be sent to the PLC if required.
* Rate/Area Units	The rate of product use on a per acre basis. This is used when running batches by the acre.
* Per Order Units	A selected unit of measurement per acre, or per product defining the composition of a product order.
Hand Add Units	The rate for adding this product to the system by hand.
* Import/Export Units	Select one unit of measurement defining an order of this product.
Minimum and Maximum Rate	The rates used when running batches. The system provides an alert if either rate is reached.
Recommended Rate	The recommended rate for dispensing the product.
* Displacement Factor	If all products are set to 100, the products are ordered alphabetically.
Auto Calc Product	Used to add water or another product whose type is set to chemical-auto.
Product Order	Used to determine when the product is dispensed. The products can be assigned values to place them in a queue.
Description	A unique description of the product.
EPA Reg Number	The EPA registration number for this product.

3. Complete the Inventory information. Items marked (*) are required.

Inventory		
Ongoing Total *	Units *	
		•
Usage *	Max Storage	
0.0		
Reorder (low) Level	Reorder Quantity	

Item (* Required Entry)	Description
* Ongoing Total	The current inventory of the product in the system. The number decreases when a product is dispensed.
* Unit	The unit of measurement used throughout the system to measure the product. Changing this value recalculates all transactions for this product in the system.
* Usage	The current usage amount for this product.
Reorder (low) Level	A defined threshold for generating a system warning if the product inventory drops to this level.
Reorder Quantity	The amount of the product to be reordered when the quantity is low.
Maximum Storage	The maximum amount of the product that can be stored.

4. Complete the Nutrient Percentages information.

Nutrient	Percentage	s									
N Nitrogen	P Phosphorus	K Potassium	Ca Calcium	Mg Magnesium	S Sulfur	Boron	Cu Copper	Fe	Mn Manganese	Zn Zinc	X Clay
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Note

Nutrient percentages are generally required when creating batches using the Formulation method. For batches that are imported, these values are not used. Enter the percentage value of each nutrient in the product. For example, for a product with 32% nitrogen, 32 in entered into the N field.

5. Select Save.

11.3. Editing a Product

To edit a product:

1. Go to **Products** and select a product.

AGI 🖉 Plant Man	ager	Touchs	screen 🚨 AGITech 🗸 🖺 Viev	w 🗙 8 Alerts 📔 🗕 🗖 🔅	×
≡	0-0-60 Potash			×	ł
Ticket Manager	Details Incompl	ete Orders History	Complete	Active 🕑 Edit 🗸	_
Products	Product Name 0-0-60 Potash				ì
Formulation Groups	Product Type Dry Fertilizer - Auto		Description		
Batch History	6210		EPA keg Number		
Reports	Density 65	Density Units Ib/ft ³ (US)	Rate / Area Units lb(US)/acre	Application Rate Units	
🛎 Partners	Per Order Units Ib(US)	Hand Add Units Ib(US)	Import/Export Units Ib(US)	Print In Unit	
🔀 Equipment	Minimum Rate	Maximum Rate	Recommended Rate	Displacement Factor 100	
Vessels	Product Order				
💋 Crops	Auto Calc Product		Auto Calc Product Ratio	1	
Application Types	Inventory				
🍰 Staff	Ongoing Total		Units		
Settings	0.0	t	B(US)		
🕑 Help	169,656.525	ſ	Max Storage		Ŧ

- 2. From the product information page, select **Edit**.
- 3. Edit the product details.

4. Edit the Inventory information. Items marked (*) are required.

Note

Select the button in the Ongoing Total field to automatically update the inventory.

Inventory		
Ongoing Total *	Units *	
		•
Usage *	Max Storage	
0.0		
Reorder (low) Level	 Reorder Quantity	

Item (* Required Entry)	Description
* Ongoing Total	The current inventory of the product in the system. The number decreases when a product is dispensed.
* Unit	The unit of measurement used throughout the system to measure the product. Changing this value recalculates all transactions for this product in the system.
* Usage	The current usage amount for this product.
Reorder (low) Level	A defined threshold for generating a system warning if the product inventory drops to this level.
Reorder Quantity	The amount of the product to be reordered when the quantity is low.
Maximum Storage	The maximum amount of the product that can be stored.

5. Edit the Nutrient Percentages.

Nutrient	Percentage	s									
N Nitrogen	P Phosphorus	K Potassium	Ca Calcium	Mg Magnesium	Sulfur	Boron	Cu Copper	Fe	Mn Manganese	Zn Zinc	X Clay
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ń	0.0

6. Select Save.

11.4. Deleting a Product

Note

A deleted product cannot be retrieved. Products currently in use cannot be deleted. A warning message displays. The Product can be set to **Inactive**.

To delete a product:

- 1. Go to **Products** and select a product.
- 2. From v select **Delete**.

0-0-60 Potash				×
Details History				
		Comp	olete 💽 Active	🕑 Edit 🔷 🛩
Product Name				盲 Delete
0-0-60 Potash				
Product Type		Description		
Dry Fertilizer - Auto				
External Id		EPA Reg Number		
6210				
Density	Density Units	Rate/Area Units	Per Order Units	
65	lb/ft ³ (US)	lb(US)/acre	lb(US)	
Hand Add Units	Import/Export Units	Print in Unit	Minimum Rate	
lb(US)	lb(US)			
Maximum Rate	Recommended Rate	Displacement Factor	Product Order	
		100	0	
Auto Calc Product		Auto Calc Product Ratio		

Note

A confirmation message displays. Select **Delete** to confirm.

Delete?	
Are you sure you want to delete '46-0-0 (GRAN. UREA) 1LB BULK?	
Cancel	Delete

11.5. Viewing Product History

To view a product's history:

1. Go to **Products** and select a products.

> Products					C
Low Currently in use	Incomplete 🗸 Active				✓ View As List
	P All Typ	Des .	•	~	+ Add Product
Name	Туре	Incomplete Active	Order	Current Total	
0-0-60 Potash	Dry Fertilizer - Auto	~	0	0 lb(US)	Í
0-0-62 MUR/POT GRAN BULK	Dry Fertilizer - Auto	~	0	-85,773.29 lb(US)	
18-46-0 DAP	Dry Fertilizer - Auto	~	0	48,979.34 ton(US)	
18-46-0 DAP BULK	Dry Fertilizer - Auto	~	0	-116,528.99 lb(US)	
21-0-0-24s AMS Mid-Grade	Dry Fertilizer - Auto	~	0	-2,555 lb(US)	
21-0-0-24s AMS Granular	Dry Fertilizer - Auto	~	0	-10,039.602 lb(US)	
44-0-0 Esn	Dry Fertilizer - Auto	~	0	0 lb(US)	
46-0-0 Urea	Dry Fertilizer - Auto	~	0	-64,021.273 lb(US)	

2. From the product information screen select History.

18-46-0 D/	AP		×
Details	Incomplete Orders History		
		Complete	Active C Edit
Product Name 18-46-0 DAP			Î
Product Type Dry Fertilizer -	Auto	Description	
External Id 6510		EPA Reg Number	
Density 65	Density Units Ib/ft ³ (US)	Rate / Area Units Ib(US)/acre	Application Rate Units
Per Order Units Ib(US)	Hand Add Units Ib(US)	Import/Export Units Ib(US)	Print In Unit
Minimum Rate	Maximum Rate	Recommended Rate	Displacement Factor 100
Product Order 0			
Auto Calc Produc	t	Auto Calc Product Ratio	

3. On the **History** screen, enter the date range for the history.

18-46-0 DAP		×
Details Incomplete Orders	History	
Ongoing Total 48,979.34 ton(US)	C* Expor	t
From Date 7/27/2022	To Date 8/3/2022	
 Include Manual Changes 	Include Batch Transactions	
Transaction Date Amount Ticket Id	Batch Id Batch Name Manual Staff Comments	

4. Review the product's history.

Γ	From Date		To Date					
	3/2/2022	Ê	8/3/202	2	14			
	 Include Manual Char 	nges	✓ Inclu	ude Batch 1	ransactions			
ſ	Transaction Date	Amount	Ticket Id	Batch Id	Batch Name	Manual	Staff	Comn
	6/13/2022 4:44:19 PM	-473.684 lb(US)	00000218	383	383			
	5/3/2022 7:06:36 AM	-30.0 lb(US)	000000159	278	8819-YT000000159-278			

Note

To export and save a product history report, click **Export** then enter the file location and name of the report.

8.44 AM .csv
D famil

11.6. Generating and Printing a Product Report

The following product reports can be generated and saved as .CSV files:

- Current list of products and their profiles
- Current product inventory
- Summary of products and inventory

To generate and print a product report:

- 1. Select **Products**; A list of products displays.
- 2. Select the Drop-down Arrow next to + Add Product; 3 options display; Export Products, Export Product Inventory, and Print Inventory Report + Summary.

Products				
Low Currently In Use	Incomplete 🖌 Active			✓
Search by Name		Q	All Types 🔹	✓ + Add
Name	Туре Іпсот	aplete Active Order	Current Total	Export Products Export Product Inventory
BD Metric Dry 2	Dry Fertilizer - Auto	✓ 0	50,000 kg	Print Inventory Report + S
BD Metric Liquid	Liquid Fertilizer - Auto	✓ 0	50,000 L	
BD US Dry	Dry Fertilizer - Auto	✓ 0	50,000 lb(US)	
BD US Liquid	Liquid Fertilizer - Auto	✓ 0	50,000 gal(US)	
Boron Granular 14.3% (Bulk)	Dry Fertilizer - Auto	✓ 0	0 lb(US)	
DAP	Dry Fertilizer - Auto	✓ 0	-6,547.043 lb(U:	
Hydra-Hume DG-A (Coated)	Dry Fertilizer - Auto	✓ 0	0 lb(US)	
Liquid Product	Liquid Fertilizer - Auto	✓ 0	4,200 gal(US)	
MAP	Dry Fertilizer - Auto	✓ 0	0 lb(US)	
NPSZ	Dry Fertilizer - Auto	✓ 0	0 lb(US)	
POTASH	Dry Fertilizer - Auto	✓ 0	-34,218.002 lb(l	
Test Aaron	Liquid Fertilizer - Auto	✓ 2	200 fl oz(US)	

3. To export the product data, select Export Products; the location and save as fields display.

Export Data for Products Export		
Save To Location		
Save As		
AGI SureTrack Plant Manager Products Export-6.17.2021 2.50 AM		.CSV
	Cancel	Export

- 4. Select the location and name the file.
- 5. Select Export.

6. To export product inventory data, select Export Product Inventory.

xport Data for Export Inventory History		
From Date	To Date	
Select a date	6/17/2021	14
 Include Manual Changes 	✓ Include Batch Transactions	
Save To Location		
Save As		
AGI SureTrack Plant Manager Export Inventory History-6.17.	2021 3.00 AM	.CSV
	Cancel	
	Cancel	- Export

- 7. Select the date range.
- 8. Check Include Manual Changes and Include Batch Transactions if needed.
- 9. Select the location and name the file.

10. Select Export.

11. To print an inventory report and summary, click Inventory Report + Summary.

Print Inventory History			
All Products All Active Products Displayed	Products Only		
From Date	To Date		
Select a date	6/17/2021		14
✓ Include Manual Changes	✓ Include Batch Transactio	ons	
		Cancel	🔒 Print

- 12. Select the Summary Options.
- 13. Select the date range.
- 14. Check Include Manual Changes and Include Batch Transactions if needed.
- 15. Select Print.

12. Nutrients

Use the Nutrient section to manage nutrients that can be added together with other products to a fertilizer blend. Users enter the name and abbreviation of the nutrient and set the maximum and minimum content percentage thresholds as required by the blend. By default, Plant Manager also has a set of standard nutrients. The names and abbreviations of these default nutrients cannot be changed, but threshold limits can be set.

During batch production, the system generates an alert message if the required minimum or maximum nutrient percentage thresholds have not been met. A batch production report detailing the nutrient content of a blend can be generated from the **Reports** section of this manual. See Section 18.4 – Nutrient Report on page 165.

A	🕝 属 Plant Manag	er 🛛				Touchscreen	AGITech 🗸 📄 View 🗸	A 3 Alerts	-	• ×
Ξ	=	Y Nut	riel	nts						C
8	Ticket Manager				Q	Reset Filter/Sort	t	+ 4	dd Nut	rient
	Des du sta	Nutrient 🛧	Abbr	reviation Min Batch % N	Max Ba	tch %				
		Nitrogen	N							
Ŀ	 Nutrients 	Phosphorus	Ρ							
ł	■ Recipes	Potassium	к	default nutrients						
6	Formulation Groups	Calcium	Ca							
E	Batch History	Magnesium	Mg							
		Sulfur	S							
_	 Reports 	Boron	в							
-	Partners	Copper	Cu							
>	🛠 Equipment	Iron	Fe							
	• Vessels	Manganese	Mn							
	d Crops	Zinc	Zn							
		Clay	х							
	 Application Types 	Water	w							

Figure 1. Nutrients Main Screen

Item	Description
Nutrient	The nutrient name.
Abbreviation	The nutrient's abbreviated name.
Min Batch %	The minimum percentage of the nutrient required in a blend.
Max Batch %	The maximum percentage of the nutrient required in a blend.

12.1. Searching for a Nutrient

To search for a nutrient:

- 1. Select Nutrient from the main menu.
- 2. Enter the name of the nutrient in the search field.

Y Nutrients		
	Q	Reset Filter/Sort

3. Select Reset Filter/Sort.

12.2. Adding a Nutrient

To add a nutrient:

1. Go to **Nutrient** on the main menu.

Y Nutrients		C
Q	Reset Filter/Sort	+ Add Nutrient

2. Select +Add Nutrient; the new nutrient fields display.

Nutrient Name *	Abbreviation *
Min Batch %	Max Batch %

- 3. Enter the following details:
 - nutrient name
 - an abbreviation for the nutrient
 - the minimum batch % for this nutrient
 - the maximum batch % for this nutrient
- 4. Click Save.

Note

To view a nutrient's details, click on the nutrient name.

12.3. Editing a Nutrient

To edit a nutrient:

- 1. Go to **Nutrient** and select on the nutrient to edit.
- 2. Select **Edit**; the nutrient information displays.

		🗭 Edit	×
Nutrient Name Phosphorus	Abbreviation P		
Min Batch %	Max Batch %		

3. Edit the information, then select **Save**.

13. Vessels

Use the Vessels function to add and manage Transport and Applicating vehicles in the system. Once entered, Vessels are selected as part of Batch information. The system stores information on vessels including name, type, license plate, assigned partner, and maximum capacity.

There are six vessel types: Applicator, Floater, Mini, Nurse, Plane, Other.

To manage vessels go to Vessels on the left side menu bar.

AGI 🔄 Plant Manag	ger 🛛			Touch	iscreen 🙎 AGITech	~ 🗎 View ~ 🛛 🛕 8 🖌	Alerts 🗕 🗖 🗙
=	Ves	sels	;				C
Ticket Manager				All	Types	 Active 	+ Add Vessel
₩ Products	Name 🛧	Code	Туре	Partner			
	DL-42-A		Other	The DeLong Co.,	Inc Union Grove		
Ε Recipes	Ethan Vessel		Nurse	Ethan Carrier			
Formulation Groups	LLT5	223	Applicator	FINDLAY OH (62	6)		
Batch History							
Reports							
🛎 Partners							
🗙 Equipment							
🖶 Vessels							
Crops							
Application Types							
Lo Staff							
Settings							
😧 Help							

13.1. Searching for a Vessel

To search for a vessel:

1. Go to Vessels.

Ā	🕤 😹 Plant Manag	ger			Ű	ouchscreen	💄 AGITech 🗙	📔 View 🗠 🚺	8 Alerts	- = ×
=		Ves	sels	:						C
	Ticket Manager				Q	All Types		 Active 	e +	Add Vessel
34	Products	Name 🛧	Code	Туре	Partner					
I	Recipes	DL-42-A Ethan Vessel		Other	Ethan Carrie	i Co., Inc Uni	ion Grove			
Ê	Formulation Groups	LLT5	223	Applicator	FINDLAY O	H (626)				
目	Batch History									
Û	Reports									
-21	Partners									
×	Equipment									
	Vessels									
2	Crops									
P	Application Types									
20	Staff									
•	Settings									
0	Help									

- 2. Check the Active box to filer the search by Active or Inactive vessels.
- 3. Select the All Types drop-down box to filter the search by vessel type.

All Types	•
All Types	
Other	
Plane	
Mini	
Nurse	
Floater	
Applicator	

- 4. Enter the name of the vessel, the related partner name, or vessel code in the search field, and select enter; the vessel name displays.
- 5. Select the vessel to open the information page.

13.2. Adding a Vessel

Note

Each vessel must be linked to a partner. The partner must be either a carrier or dispensing location.

To add a vessel:

1. Go to Vessels > + Add Vessel.

Ā	🖬 🔄 Plant Manag	ger			10	'ouchscreen 🗟 AG	ITech 🗠 📔 View 🗠 🚺 8 A	lerts 🗕 🗖 🗙
=		Ve	essels	5				C
=	Ticket Manager				Q	All Types	- Active	+ Add Vessel
14	Products	Name	↑ Code	Туре	Partner			
	Houdels	DL-42-A		Other	The DeLong	Co., Inc Union Gro	ove	
I	Recipes	Ethan Vess	el	Nurse	Ethan Carrie	9r		
Ê	Formulation Groups	LLT5	223	Applicator	FINDLAY OF	H (626)		
Ë	Batch History							
Ê	Reports							
-24	Partners							
*	Equipment							
	Vessels							
2	Crops							
6	Application Types							
20	Staff							
*	Settings							
0	Help							

2. Enter the required (*) details.

Vessel Name *				_	Vessel Type *	License Plate
					•	
Partner *					Maximum Capacity	Units
				•		-
Code						
Compartments						+ Add Compartment
Compartment Name *	\downarrow	Compartm	ent Capacity	Uni	ts	
🖨 Drivers						
Driver Name *		Active				
Item (* Required Entry)			Descript	ior	1	

Item (* Required Entry)	Description
* Vessel Name	A name for the vessel.
* Vessel Type	There are 6 vessel types. Applicator, Floater, Mini, Nurse, Plane, Other.
License Plate	The vessel's license plate number.
* Partner	The vessel is linked to a partner, either a carrier or dispensing location.
Maximum Capacity	The maximum capacity the vessel has for transporting products.
Units	The unit used for the maximum capacity.
Code	An optional code assigned to the vessel.
Compartments	Up to six separate compartments with load capacity can be added to a vessel. Compartments are essential in the Load Manager process to split out a load into specific compartments of a vessel.
* Driver Name	A list of drivers, linked to the carrier or dispensing location, who can operate the vessel. A driver's name is required to add the driver to a vessel.

3. **Optional**. Select + Add Compartment to add compartments to the vessel.

Compartments				+ Add Compartment	
Compartment Name *	Compartment Capacity	Units			
	0		Î		

Note

To add compartments to an existing vessel, select **Edit** from the vessel screen, and complete the compartment details. To delete a compartment, select the **trash can** icon.

4. Enter the compartment name and compartment capacity.

5. Select the Driver's Name from the Drivers List.

LLT5		Active	🗹 Edit	~ ×
Vessel Name		Vessel Type	License Plate	
LLT5		Applicator	rre334	
Partner		Maximum Capacity	Units	
FINDLAY OH (626)		900	lb(US)	
Code				
223				
A Drivers				
Driver Name	↓ Active			
David Woods				

6. Select Save.

Note

Click the **Active** toggle to add or remove the vessel from the list of active vessels.

13.3. Editing a Vessel

To edit a vessel:

- 1. Go to Vessels and select a vessel.
- 2. Select **Edit** to edit the details.

LLT5			 Active 	🕑 Edit 🗸 🗙
Vessel Name			Vessel Type Applicator	License Plate rre334
Partner FINDLAY OH (626)			Maximum Capacity 900	Units Ib(US)
Code 223				
Drivers	4	Active		
David Woods				

- 3. Edit the vessel details.
- 4. Select Save.

13.4. Deleting a Vessel

Note

A deleted Vessel cannot be retrieved.

To delete a vessel:

- 1. Go to Vessels and select a vessel; the vessel information page displays.
- 2. From \checkmark , select **Delete**.

LLT5			Active 🗹 Edit 🗸 🗙
Vessel Name LLT5		Vessel Type Applicator	License Plate Tre334
Partner FINDLAY OH (626)		Maximum Capacity 900	Units Ib(US)
Code 223			
A Drivers	2		
Driver Name	↓ Active		
David Woods			

Note

A confirmation message displays. Select **Delete** to confirm.

[Delete?	
	Are you sure you want to delete 'DL-42-A'?	
		Cancel Delete

Note

Vessels currently in use cannot be deleted. A warning message displays. The Vessel can be set to **Inactive**.



14. Ticket Manager

Ticket Manager provides a comprehensive management system for customizing, processing, and recording customer orders. Tickets are customer orders that are added to batches to complete the production, delivery, and application processes of the fertilizer. Recipes and Formulas can be optionally added to new, or existing tickets.

A	🖯 🥌 Plant Manag	jer	Touchscreen Mod	le i 🚨	AGITech 🗸 📔	🗎 View 🗸 🔒	8 Alerts 🛛 🗕 🗖 🗙
≡		🔳 Ticket Manager					
=	Ticket Manager						C 🔋 Bulk Delete
					🖉 🖉 Ed	it Ticket Que	ue 🕂 Add Ticket
8	Products						Q
I	Recipes	All Statuses	Reset Filter/Sort				
Ê	Formulation Groups	Ticket Id 🕹 Release Number	Customer	Field	Status	Status Date	Entry Method
Ħ	Batch History	YYYYYYY-000000213	MATT MEDEL		New	1/26/2022	By Amount of Product
Ŵ	Reports	rrrtiiiooo000000118	Mike Cerny		Completed	2/18/2022	By Amount of Product
		JSB0124-FF	Oakley Fertilizer		Completed	7/8/2021	By Amount of Product
***	Partners	JSB0124-BK	Oakley Fertilizer		New	5/18/2021	By Amount of Product
*	Equipment	DW3_Test00000193	TEST FARMER - (555555)		Completed	9/16/2021	By Amount of Product
	Vessels	DW3_Test000000192	TEST FARMER - (555555)		New	9/15/2021	By Amount of Product
ø	Crops	DW3_Test000000191	TEST FARMER - (555555)		New	9/15/2021	By Amount of Product
•	Application Types	DW3_Test000000190	TEST FARMER - (555555)		Completed	9/15/2021	By Amount of Product
-	Application Types	DW3_Test000000189	TEST FARMER - (555555)		New	9/15/2021	By Amount of Product
20	Staff	DW3_Test000000188	TEST FARMER - (555555)		New	9/15/2021	By Amount of Product
\$	Settings	DW3_Test00000187	TEST FARMER - (555555)		Completed	9/15/2021	By Amount of Product
Ø	Help		TECT FADLIED (CEFFER)		e 1. 1	0.45 0004	

Item	Description
Ticket ID	A user-generated set of characters.
Release Number	Release number is an additional optional ticket ID.
Customer	The customer receiving the fertilizer.
Field	The field that the fertilizer is going to be applied.
Status	The current status of the ticket (see below).
Status Date	The date the ticket status changed.
Entry Method	The Entry Method.

A ticket status can be:

- Added To Batch in Progress. The user can see which tickets have been added to a batch.
- Added to Load Ticket in Progress.
- **Completed**. The order has been fulfilled.
- **Expired**. The ticket has expired.
- Exported. The ticket has been sent (exported) to the agronomy.
- Hold Chemical Batch in Progress. If a ticket comprises both chemical and fertilizer batches, the ticket status may be Hold Chemical Batch in Progress. This indicates that the fertilizer batch is processed, but the chemical batch is not. Both the fertilizer and chemical batches need to be processed for the ticket status to be completed.
- Load Ticket.
- **New**. A new ticket that has not been completed.
- Partially Completed.

Note

The Ticket Queue button is only available for Yargus Declining Weight Process.

14.1. Searching for a Ticket

Tickets can be searched for, filtered, and viewed using the following parameters:

- Search by ticket ID, customer, or release number.
- Search by ticket status.
- Sort ticket columns headings.

🔳 Ticket Manager								
		C	-👌 Re-	import tickets		Bulk Export		盲 Bulk Delete
					🖍 Edi	it Ticket Queue		+ Add Ticket
								Q
All Statuses 👻	Reset Fil	ter/Sort						
All Statuses		1		1		I		
Added to batch in progress	omer	Field		Status		Status Date	\downarrow	Entry Method
Completed	Anderson	Bill Smith E	iold South	Evported		0/25/2022 0.20	5 0.04	
Expired	y Anderson	DIII SIIIIUI F	ielu South	Exported		0/23/2022 0.30		By Amount P
Exported	T MEDEL			New		8/25/2022 8:2	5 AM	By Amount o
Hold Chemical Batch-In Progress								
New	T MEDEL			New		8/2/2022 8:36	AM	By Amount o
Partially Completed								
000000218 MA	TT MEDEL	Test Field		Completed		6/13/2022 4:44	4 PM	By Amount o

To search for or view a ticket:

- 1. Go to Ticket Manager.
- 2. Enter the ID, customer, or release number in the search box, and click enter or tab.
- 3. To search by ticket status, select the ticket status from the drop-down box.

🔳 Ticket Manager						
					C	盲 Bulk Delete
			🖉 🖉 Ed	it Ticket Que	ue	+ Add Ticket
						Q
All Statuses	 Reset Filter/Sort 					
All Statuses						
Added to batch in progress	Customer	Field	Status	Status Date	Entry N	Vethod
Completed	MATT MEDEL		New	1/26/2022	By An	ount of Product
Exported			Them.	1/20/2022	by An	iount of Froduct
Hold Chemical Batch-In Progress	Mike Cerny		Completed	2/18/2022	By An	nount of Product
New						
Partially Completed	Oakley Fertilizer		Completed	7/8/2021	By An	nount of Product
JSB0124-BK	Oakley Fertilizer		New	5/18/2021	By An	nount of Product

Note

Hold Chemical Batch-in Progress ticket status: If a ticket comprises both chemical and fertilizer batches, the ticket status may be **Hold Chemical Batch - in Progress**. This indicates that the fertilizer batch is processed, but the chemical batch is not. Both the fertilizer and chemical batches need to be processed for the ticket status to be **completed**.

Note

To clear searches select Reset Filter/Sort.

4. To sort tickets by columns select the required column headings.

	🔳 Ticket Manager					C	-🗗 Re-im	port	Bulk Export
Sea	Search by ID \ Customer \ Release Number								-
Re	eset Filter/Sort						🖍 Edit Ticket (Queue	+ Add Ticket
Tic	ket ID	Ť	Release Number	Customer	Field	Status	Status Date	Entry Method	
000	0000130		12	MATT MEDEL		Completed	5/12/2021	By Amount	of Product
000	0000147			MATT MEDEL		Completed	6/4/2021	By Amount	of Product

14.2. Adding a Ticket

1. Go to **Ticket Manager** > + Add Ticket.

🔳 Ticket Manager						C	- Re-import	Bulk Export
Search by ID \ Customer \ Release Number				All Sta	tuses			•
Reset Filter/Sort						1	Edit Ticket Queue	+ Add Ticket
Ticket ID	Release Number	Customer	Fie	ld	Status	Status Date 🌢	Entry Method	
000000148		MATT MEDEL			Completed	6/4/2021	By Amount of Produ	uct
000000147		MATT MEDEL			Completed	6/4/2021	By Amount of Produ	uct
JSB0124-FF		Oakley Fertilizer			New	5/18/2021	By Amount of Produ	uct
JSB0124-BK		Oakley Fertilizer			New	5/18/2021	By Amount of Produ	uct

2. Complete the ticket information.

Ticket	
Ticket Id Prefix	Customer * Ticket Status New
Ticket Source AGI SureTrack Plant Manager Blend Analysis	Total Requested Amount Remaining Amount
Select Recipe	Products Comments
Entry Type *	• • • • • • • • • • • • • • • • • • •
	+ Select Products
Product	Amount Per Area Units Total Amount Units

Item (* Required Entry)	Description				
Ticket ID Prefix	An ID prefix can be added to a ticket. The ID Prefix cannot exceed 41 characters.				
* Customer	Select the customer from the drop-down list.				
+ Select Recipe	Optional. An existing recipe can be added to a ticket.				
Details Tab	Additional details, including process, mixer, and application type.				
Transport Tab	Enter transportation and application details, including carrier, driver, vessels.				

Item (* Required Entry)	Description
Products Tab	Products in the inventory that can be added to the ticket.
Comments Tab	For any additional information about the ticket.

- 3. Optional Add Recipe: select Select Recipe.
 - a. Search for a recipe by **ID/Name** or filter by **Type**.

Search by Id / Name			All Types 🔹	
Recipe Id 🛧	Recipe Name	Product	All Types	er Type
incorporta 1	necipertaine	inouter	Amount of Product Per Area	.cr ijpe
R00000001	Michel Recipe		Amount of Product Per Ton	,
			Percentage of Product	

b. Select the recipe name and click **Ok**.

Note

To remove a recipe from the ticket select **Clear Recipe**.

4. Complete the following information on the **Details** tab:

Details	Transport	Products	Comme	nts
Process			•	Dispensing Location
Expiration Date				System Type *
Select a date			14	• •
Mixer Type *				Release Number
Liquid			•	
Field				Crop
			•	•
Application Type				Tare Scale
			•	•
Gross Scale				
			•	

Item (* Required Entry)	Description			
Process	The process (robot) blending the products. A ticket can only have one process linked to it.			
Dispensing Location	The location where the product is being dispensed from. This is usually the fertilizer plant.			

Item (* Required Entry)	Description				
Expiration Date	An optional user-generated expiration date for the new ticket.				
* System Type	Currently only Fertilizer System is available. Select Fertilizer System from the drop-down box.				
* Mixer Type	Dry or liquid.				
Release Number	An optional user-generated I ticket identifier. Maximum 50 digits.				
Field	The customer's field to be fertilized.				
Crop	The customer's crop to be fertilized.				
Application Type	The method of applying the fertilizer to the field.				

5. Select the **Transport** tab and complete the optional information:

Details	Transport	Products	Comments				
Carrier			•				
Transport Vesse	ł		•	Transport Driver			
Applicating Ves	sel		-	Applicating Driver			
Ship To Custom	ier		•	Ship To Address			

Item	Description				
Carrier	The trucking company transporting the fertilizer. The carrier determines the transport vessel and driver.				
Transport Vessel	The transport vessel carrying the fertilizer.				
Transport Driver	The driver of the transport vessel.				
Applicating Vessel	The vehicle applying the fertilizer at the location.				
Applicating Driver	The driver driving the applicating vessel.				
Ship to Customer	The customer receiving the fertilizer.				
Ship to Address	An alternative address to send the product if not the customer's usual address.				

6. Select **Products > Entry Type**.

Note

There are three Entry Types: By Amount of Nutrient, By Amount of Product, and By Amount Per Area.

Details Transport Pro	oducts	Commen	ts				
Entry Type *							
By Amount of Nutrient						+ Select Product	s
By Amount of Product By Amount Per Area		Ť	Amount Per Area	a Units	Total	Amount Units	

Item	Description
By Amount of Nutrient	The ticket is created based on specific nutrient content. Formulation Groups with specific combinations of nutrients are added to the product mix.
By Amount of Product	The ticket is created based on specific product amounts, or specific products as a percentage of the mix.
By Amount per Area	The ticket is created based on the amount of product required for the area. The user defines the area to be fertilized, and adds specific amounts of products to the mix.

By Amount of Nutrient Option

-

a. Select By Amount of Nutrient.

Details Transport	Products Comments
Entry Type *	Formulation Group *
By Amount of Nutrient	•
Maximum Nutrient Content *	
Product	↑ Percentage Amount Units

Item (* Required Entry)	Description
* Entry Type	The selected entry type is: by Amount of Nutrient.
* Formulation Group	User-created combinations of products by nutrient content. A formulation group can be added to a ticket.
* Maximum Nutrient Content	The maximum content must be between 1 and 100.

b. Select a Formulation Group.

Note

After selecting a Formulation Group, the product information fields for the group displays. The total amount of product entered determines the amount of each component of the selected Formulation Group. The system adjusts the amounts if the total amount is changed.

Details Transport P	oducts Comments		
Entry Type * By Amount of Nutrient Total Amount Maximum Nutrient Content *	Formulation Group * 4-12-38 Unit * Ib(US)		
Product		Percentage Amour	nt Units
0-0-60 Potash		67.93	lb(US) 👕
18-46-0 DAP		32.07	lb(US) 👕

Item (* Required Entry)	Description
* Total Amount	The total amount of products to be used.
* Unit	The dry or liquid unit measurement used for the products.
* Maximum Nutrient Content	The maximum content must be between 1 and 100.
Product	The products used in the formulation group.
Percentage	The percentage of each product in the formulation group.
Amount	The amount of each product used in the formulation group by unit of measurement. The amounts are auto-calculated when the user enters the total amount.

- c. Enter the total amount of product.
- d. Enter the Maximum Nutrient Content (1 to 100); The amount of products adjusts.
- e. Select Save.

By Amount of Product Option

a. Select By Amount of Product.

Details Transport P	oducts Comments	
Entry Type *	Total Amount	Unit *
By Amount of Product	•	lb(US) 🗸
○ By Percentage 🛛 ● By Amoun	Total Area	Area Unit
		+ Select Products
Product		Percentage Amount Units

Item (* Required Entry)	Description
By Percentage	Select By Percentage to add products by their percentage ratio to the mix.
By Amount	Select By Amount to add products by actual amounts to the mix.
* Total Amount	The total amount of product to be used.
* Units	The dry or liquid measurement used for the products.
Total Area	The total area that the fertilizer will be used on.
* Area Units	The dry or liquid unit of measurement for the area. Area Units is only required If Total Area has an input.
	Note
	The area units are only required if the user adds a total area.
+ Select Products	Products that can be added to the ticket.

b. Select By Percentage or By Amount.

- c. Complete the remaining fields.
- d. Select + Select Products; A list of available products to add to the ticket displays.

Search by Name	🔎 All Types	•		All Active	Processes	•
Product	Туре	Current Total	In Use	Per Area Uom	Per Order Uom	Hand Add Uom
0-0-60 Potash	Dry Fertilizer - Auto	-78,553.49 lb(US)	~	lb(US)/acre	lb(US)	lb(US)
0-0-62 MUR/POT GRAN BULK	Dry Fertilizer - Auto	-981.0 lb(US)	~	lb(US)/acre	lb(US)	lb(US)
18-46-0 DAP	Dry Fertilizer - Auto	-18,308.78 lb(US)		lb(US)/acre	lb(US)	lb(US)
18-46-0 DAP BULK	Dry Fertilizer - Auto	-14,603.99 lb(US)	~	lb(US)/acre	lb(US)	lb(US)
21-0-0-24s AMS Mid-Grade	Dry Fertilizer - Auto	-2,500.0 lb(US)		lb(US)/acre	lb(US)	lb(US)
21-0-0-24s AMS Granular	Dry Fertilizer - Auto	-2,289.602 lb(US)		lb(US)/acre	lb(US)	lb(US)
44-0-0 Esn	Dry Fertilizer - Auto	-1,684.418 lb(US)		lb(US)/acre	lb(US)	lb(US)
46-0-0 Urea	Dry Fertilizer - Auto	-6,058.64 lb(US)		lb(US)/acre	lb(US)	lb(US)
46-0-0 (GRAN. UREA) 1LB BULK	Dry Fertilizer - Auto	-58,406.436 lb(US)	~	lb(US)/acre	lb(US)	lb(US)
AMS	Dry Fertilizer - Auto	-47,497.422 lb(US)		lb(US)/acre	lb(US)	lb(US)
BD Metric Dry 1	Dry Fertilizer - Auto	50,000.0 g		g/ha	g	g
BD Metric Dry 2	Dry Fertilizer - Auto	50,000.0 kg		kg/ha	kg	kg
BD Metric Liquid	Liquid Fertilizer - Auto	50,000.0 L		L/ha	L	L
					Cancel	🗸 Ok

- e. Search for products using the search field, or filter products by Types or Processes.
- f. Select the required products and select **Ok**: The list closes and the selected products display on the ticket information page.

Product	Percentage	Amount	Units	
18-46-0 DAP			lb(US)	
21-0-0-24s AMS Mid-Grade			lb(US)	
Total Percentage: 0				-
		Cancel		Save

- g. Complete either the Percentage or Amount for each product.
- h. Select Save.

By Amount per Area

a. Select By Amount per Area.

Details Transport	Products Com	me	nts				
Entry Type * By Amount Per Area	Total Area * ▼			Area U	nit *		•
					+ Se	lect Proc	lucts
Product		Ť	Amount Per Area	Units	Total Amount	Units	
							~
					Cancel		Save
Item (* Required Entry)	Description	I					
* Total Area	The total ar	rea	the fertilizer wi	ll be us	ed on.		
* Aroa Unit	The area ur	nit d	of measurement	t			

Products can be added to the ticket.

- b. Enter the Total Area amount and Area Unit measurement.
- c. Select + Select Products; A list of products displays.

+ Select Products

Sea	arch by Name	All Types	•		All Active	Processes	•
	Product	Туре	Current Total	In Use	Per Area Uom	Per Order Uom	Hand Add Uom
	0-0-60 Potash	Dry Fertilizer - Auto	-78,553.49 lb(US)	~	lb(US)/acre	lb(US)	lb(US)
	0-0-62 MUR/POT GRAN BULK	Dry Fertilizer - Auto	-981.0 lb(US)	~	lb(US)/acre	lb(US)	lb(US)
	18-46-0 DAP	Dry Fertilizer - Auto	-18,308.78 lb(US)		lb(US)/acre	lb(US)	lb(US)
	18-46-0 DAP BULK	Dry Fertilizer - Auto	-14,603.99 lb(US)	~	lb(US)/acre	lb(US)	lb(US)
	21-0-0-24s AMS Mid-Grade	Dry Fertilizer - Auto	-2,500.0 lb(US)		lb(US)/acre	lb(US)	lb(US)
	21-0-0-24s AMS Granular	Dry Fertilizer - Auto	-2,289.602 lb(US)		lb(US)/acre	lb(US)	lb(US)
	44-0-0 Esn	Dry Fertilizer - Auto	-1,684.418 lb(US)		lb(US)/acre	lb(US)	lb(US)
	46-0-0 Urea	Dry Fertilizer - Auto	-6,058.64 lb(US)		lb(US)/acre	lb(US)	lb(US)
	46-0-0 (GRAN. UREA) 1LB BULK	Dry Fertilizer - Auto	-58,406.436 lb(US)	~	lb(US)/acre	lb(US)	lb(US)
	AMS	Dry Fertilizer - Auto	-47,497.422 lb(US)		lb(US)/acre	lb(US)	lb(US)
	BD Metric Dry 1	Dry Fertilizer - Auto	50,000.0 g		g/ha	g	g
	BD Metric Dry 2	Dry Fertilizer - Auto	50,000.0 kg		kg/ha	kg	kg
	BD Metric Liquid	Liquid Fertilizer - Auto	50,000.0 L		L/ha	L	L
						Cancel	🗸 Ok
- d. Search for products by Name, Type, or Active Process.
- e. Select the required products and select **Ok**; The added products show on the ticket information page.

Select Recipe				
Details Transport Prod	lucts Comments			
Entry Type *	Total Area *	Area Unit *		
By Amount Per Area 🔹	5	acre(US)	•	
			+ Select Products	
Product	Amount Per Area	Units Total	Amount Units	
18-46-0 DAP BULK		lb(US)/acre	lb(US) 👕	
46-0-0 Urea		lb(US)/acre	lb(US)	
46-0-0 (GRAN. UREA) 1LB BULK		lb(US)/acre	lb(US) 👕	
				-
			Cancel	ve

- f. Complete the Amount per Area fields for each product.
- g. Select Ok.

7. Select Comments.

Ticket Id Prefix	Customer *	Ticket Status
		• New
Ticket Source AGI SureTrack Plant Manager	Total Requested Am	Remaining Amount
Blend Analysis		
Select Recipe		
Details Transport	Products Comme	nts
Details Transport	Products Comme	Dispensing Location
Details Transport Process	Products Comme	Dispensing Location
Details Transport Process Expiration Date	Products Comme	nts Dispensing Location System Type *
Details Transport Process Expiration Date Select a date	Products Comme	nts Dispensing Location System Type *
Details Transport Process Expiration Date Select a date Mixer Type *	Products Comme	Dispensing Location System Type * Release Number
Details Transport Process Expiration Date Select a date Mixer Type *	Products Comme	nts Dispensing Location System Type * Release Number
Details Transport Process Expiration Date Select a date Mixer Type * Field	Products Comme	nts Dispensing Location System Type * Release Number Crop

8. Add comments about the ticket and click **Save**.

Details	Transport	Products	Comments
Comments			
			Cancel 🖬 Save

14.3. Editing Ticket Information

Note

Product information for tickets that have batches cannot be edited.

To edit ticket information:

- 1. Go to Ticket Manager and select a ticket.
- 2. Select Edit.

Ā	🕤 🔄 Plant Manag	ger	Touchscree	en 🚨 AGITech 🗸 🖺 View 🗸	🗛 8 Alerts 🛛 🗕 🗖 🗙
≡		JSB0124-FF		🕑 Edit 📑 Cr	reate Batch C 🗸 🗙
8	Ticket Manager	Ticket			
<u>}</u>	Products	Ticket Id JSB0124-FF	Customer Oakley Fertilizer	Ticket Sta Comple	atus eted
I	Recipes	Ticket Source B.O.S.S.	Total Requested Amo 27,729.96 lb(US)	ount Remainir 0 lb(US	ng Amount)
Ê	Formulation Groups	Blend Analysis 0-0-0			
Ħ	Batch History	Details Transport	Products Comme	nts Change History	Batches
٢	Reports	Available Batches			Î
-	Partners	Batch Id 🛧 Status	Quantity Requested Amount	Actual Amount Requested	
×	Equipment	287 Completed 1	I 27,729.96 lb(US)	27,729.96 lb(US)	
	Vessels	Selected Batch Informa	tion		😝 Print
2	Crops	Batch Id 287	Status Completed	Batch Quantity 1	🖌 Adjust Amount
P	Application Types	Batch Name JSB0124-FF-287			
20	Staff	Requested Amount 27,729.96 lb(US)	Requested Volume 3,457.238 gal(US)	Requested Batch Area	
۵	Settings	Actual Amount 27,729.96 lb(US)	Actual Rate Per Area	Actual Batch Area	
0	Help	Carrier	Transport Vessel	Transport Driver	-

- 3. Edit the ticket information as required.
- 4. Select Save.

14.4. Deleting a Ticket

Note

A deleted ticket cannot be retrieved.

To delete a ticket:

- 1. Go to Ticket Manager and select a ticket.
- 2. Select **Delete** from the drop-down menu.

999212000000160			🖻 Edit 🛛 C 🔽 🗙
Ticket			Create Series Mark Ticket Completed
Ticket Id 999212000000160	Customer Arndt Angus LLC	Ticket Status New	 Mark ficket completed Link to Agronomy
Ticket Source AGI SureTrack Plant Manager	Total Requested Amount 1,000 lb(US)	Remaining Amou 1,000 lb(US)	Export Delete
Blend Analysis 18-18-18-3S			

Note

A confirmation message displays. Select Delete.

Delete?
Are you sure you want to delete 'Are you sure you want to delete Ticket JSB0124-BK?'?
Cancel Delete

Bulk Delete Tickets

Tickets can be deleted in bulk by date range and type of ticket.

To bulk delete tickets:

1. Go to Ticket Manager > Bulk Delete; The Bulk Delete screen displays.

🔳 Ticket Manager				
	G	- Re-import tickets	Bulk Export	盲 Bulk Delete
			Edit Ticket Queue	+ Add Ticket
				Q

Bulk Delete						
Date Range to Delete From Date	To Date					
2/27/2023	3/2/2023	14				
All Tickets Exported Partially Completed Expired	Completed New					
There are 0 tickets in the provided date range.						
	Cancel	Delete				

- 2. Select the **date range** for tickets.
- 3. Select **All Tickets** to delete all tickets within the date range, or select the specific type of ticket from the list to be deleted.
- 4. Select **Delete** to delete the tickets.

14.5. Marking a Ticket Complete

The **Mark Ticket Complete** function allows a ticket status to be set as **Complete**. Tickets completed outside the Plant Manager system or completed when the processes making the fertilizer are not connected to the system (internet failure), can be manually marked as **Complete**.

To manually mark a ticket as complete:

- 1. Go to Ticket Manager and select a ticket.
- 2. From velect Mark Ticket Completed.

104730				🕼 Edit 🛛 Cʻʻ 🗸 💙
Ticket				Create Series
licket Id 104730	Customer Evergreen Diversified Agr	iculture	Ticket Status New	 Mark Ticket Completed Export
ïcket Source Agvance XML	Total Area 64 acre(US)		Remaining Area 64.0 acre(US)	Delete
lequested Volume Per Area 28.052 gal(US)/acre	Requested Weight Per Area 200 lb(US)/acre		Total Requested An 12,800 Ib(US)	nount
temaining Amount 2,800 Ib(US)				
llend Analysis 33-0-0 12S				
	Commente Batches			
Details Transport Product	ts Comments Batches	1		
Available Batches	is Comments Batches	3		Resize Load
Details Iransport Product Available Batches Batch Id ↑ Status Quantity Batch And	ea Requested Amount Actual Am	ount		Resize Load
Details Transport Product Available Batches Batch Id ↑ Status Quantity Batch An 29 Draft 1 64 acre(ea Requested Amount Actual Am (US) 12,800 lb(US) 0 lb(US)	ount		Resize Load
Details Transport Product Available Batches Batch Id ↑ Status Quantity Batch Ar 29 Draft 1 64 acre(Selected Batch Information	ea Requested Amount Actual Am (US) 12,800 lb(US) 0 lb(US)	ount		Resize Load
Details Transport Product Available Batches Batch Id ↑ Status Quantity Batch Ar 29 Draft 1 64 acre(Selected Batch Information Batch Id Status	ea Requested Amount Actual Am (US) 12,800 lb(US) 0 lb(US)	Batch Quantity		Resize Load
Details Transport Product Available Batches Batch Id ↑ Status Quantity Batch Ar 29 Draft 1 64 acres Selected Batch Information Batch Id Status Status 29 Draft 1 64 acres Batch Id Status Status Status Batch Id Status Status Status Batch Name * O O	tatus Coraft Draft Coraft	Batch Quantity		Resize Load
Details Transport Product Available Batches Batch Id ↑ Status Quantity Batch Ar 29 Draft 1 64 acree Selected Batch Information Batch Id Status Status 29 Draft 1 64 acree Selected Batch Information Status Batch Id Status Status Status 29 0 0 Status	ea Requested Amount Actual Am (US) 12,800 lb(US) 0 lb(US) tatus Draft or Use < Custom Name >	Batch Quantity		Resize Load

Note

The system generates a confirmation message about the change of ticket status.



14.6. Creating a Batch

Note

Create Batch option is not available for tickets which are exported. Batches may be created even if the ticket already has existing batches. The status of the batches must be completed.

To create a batch:

- 1. Go to Ticket Manager and select a ticket.
- 2. Select Create Batch; The new batch information tab opens.

104708		🗭 Edit	Create Batch	C ~	×
Ticket					
Ticket Id 104708 Ticket Source Agvance XML	Customer Rye Farms Inc Total Area 21 acre(US)		Ticket Status New Remaining Area 21.0 acre(US)		
Requested Volume Per Area 21.818 gal(US)/acre Remaining Amount 3,150 lb(US) Blend Analysis 37-0-0.85	Requested Weight Per Area 150 lb(US)/acre		Total Requested Amount 3,150 lb(US)		

3. Select Batches.

Details	Transport	Products	Comment	s Batches		
Available Ba	tches					Resize Load
Batch Id 🛧 St	tatus Quantit	y Batch Area	Requested An	nount Actual Amo	ount	
223 D	raft 1	21 acre(US)	3,150 lb(US)	0 lb(US)		
Selected Bat	ch Informati	on				🖶 Print
Batch Id		Status	E	Batch Quantity		盲 Delete
223 Batch Name *		Or Use		I		+ Add Ticket
104708-223		< Custom Nam	ne > 🔹 🔻			🖌 Adjust Amount
Requested Amou 3150	nt * Ib(US)	Requested Volume 458.181 gal(US)		Batch Area 21.0 acre(US)		
Actual Amount		Actual Rate Per Are	ea			

Note

The software automatically fills all the required fields. *Do not* change any information unless it is required. Some information fields are editable.

Selected Batch Information			🔒 Print
Batch Id	Status	Batch Quantity	盲 Delete
Batch Name *	Or Use		+ Add Ticket
8819-YT000000159-275	< Custom Name >	•	🖌 Adjust Amount
Requested Amount * 100 Ib(US)	Requested Volume 12.285 gal(US)	Batch Area 100.0 acre(US)	
Actual Amount 0 Ib(US)	Actual Rate Per Area		
Carrier	Transport Vessel	Transport Driver	
	Applicating Vessel	Applicating Driver	
Product Product	t Type Requested Per Area	Actual Per Area Requested Amount Actual A	

Item (editable)	Description
Or Use (Custom Name)	The batch name can be changed from the default to the options in the drop-down list. When an option is selected here, the Batch Name changes. < Custom Name > Applicator Driver Name Applicator Vessel License # Applicator Vessel Name Carrier Name
	Customer Name Release Number Ticket Id-Batch Id Transport Driver Name Transport Vessel License # Transport Vessel Name < Custom Name >
* Requested Amount	The requested amount can be changed. This will change the batch amount.
Carrier	The Carrier company can be selected.
Transport Vessel	The Transport Vessel can be selected.
Transport Driver	The Transport Driver can be selected.
Applicating Vessel	The Applicating Vessel can be selected
Applicating Driver	The Applicating Driver can be selected.

4. Select **Save All** to save the changes, or **Cancel Changes** to exit without change.

14.7. Viewing Change History

The system records changes to tickets and related batches. This includes changes to requested amounts.

To view Change History:

1. Select a ticket; The ticket information page opens.

000006373											
ficket											
cket ld 000006373			Custome MATT	er MEDEL			Ticket St Partiall	atus y Comp	leted		
cket Source GI Plant Manag end Analysis	t Source Total Requested Plant Manager 4,100.145 lb(L d Analysis -50.7-0				mount		Remaini 663.52	ng Amou 9 Ib(US)	int)		
Details	Transport	Prod	lucts	Comm	ents (Change	History	Bate	ches		
≣ Ticket	Events										
Ticket X00000)6373 was m	anually c	reated at	08/24/22	10:14:58 AI	м.					
Batch X00000	6373-18824	28 was cr	eated by a	AGITech	at 08/24/22	11:12:48	AM.				
Batch X00000	6373-18824. st History	28 was cr	eated by	AGITech	at 08/24/22	11:12:48	AM.	1			
Ticket 8/24,	6373-18824 st History ge Date /2022 10:14:5	28 was cr ↑ 59 AM	eated by a	AGITech a	at 08/24/22 New 4100.145	11:12:48 Unit Ib(US)	AM. Staff AGITech	HMI	Batch Ic	1	_
Type Chan Ticket 8/24, Product	6373-18824 st History ge Date /2022 10:14:5 Original	28 was cr 1 59 AM Unit	Original	AGITech : Unit	at 08/24/22 New 4100.145 Valve	11:12:48 Unit Ib(US)	AM. Staff AGITech	HMI No	Batch lo	1	
Type Chan Ticket 8/24, Product EXCEL MAX	st History ge Date /2022 10:14:5 Original X 0	1 market for the second secon	Original	AGITech a	at 08/24/22 New 4100.145 Valve US)	11:12:48 Unit Ib(US)	AM. Staff AGITech	HMI No	Batch Ic	1	
Batch X00000 Type Chan Ticket 8/24, Product EXCEL MAX MAP11-52-1	st History ge Date 2022 10:14: Original X 0 0	28 was cr 29 AM Unit gal(US) Ib(US)	 New 10 4000 	AGITech a Unit Unit gal(t Ib(U)	at 08/24/22 Vew 4100.145 Valve US) S)	11:12:48 Unit Ib(US)	AM. Staff AGITech	HMI No	Batch Ic	1	

2. Click Change History; The Ticket Events and Request History fields display.

Ticket Events

Ticket Events information includes:

- Ticket creation date
- Ticket export date(s)
- Batch creation and changes

Figure 2. Ticket Events Display

Details	Transport	Products	Comments	Change History	Batches
≣ Tick	et Events				
Ticket 0000	000219 was man	ually created at	8/2/2022 8:36 AM		
Batch 384 v	was created by A	GITech at 8/2/20	022 8:36 AM.		

Request History

The **Request History** records any changes to the **Ticket Requested Amount** or **Product Requested Amount** in the HMI.

Request History information includes:

- Original request amounts
- New requested amounts
- Ticket or Batch types
- Change dates
- Staff logged in during change
- Source of change (Plant Manager or HMI)

Figure 3. Request History Display

Bequest History

Туре	Change	Date	Ť	Original	Unit	New	Unit	Staff	HMI	Batch Id	
Ticket	8/24/20	022 10:14:	59 AM			4100.14	5 Ib(US)	AGITech	No		
Produ	ct	Original	Unit	New	Unit	Valve	2				
EXCE	L MAXX	0	gal(US)) 10	gal(l	JS)					
MAP	11-52-0	0	lb(US)	4000	lb(U	S)					
Batch	8/24/20	022 11:21:	54 AM	4100.145	lb(US)	2583.53	7 Ib(US)	AGITech	Yes	1882428	

14.8. Editing the PLC Queue

Note

- The **Edit Ticket Queue** button is not available for Plant Manager having Yargus Declining Weight Version 3 or Junge Plant Operator Robot Plugins.
- The PLC queue holds a maximum of 12 tickets at a time.

To edit the PLC Queue:

1. Go to Ticket Manager.

🔳 Ticket M	anager					C 🚦 🚦 Re-	import	Bulk Export
Search by ID \ Custome	r \ Release Numbe	er	ρ	All Statuses				•
Reset Filter/Sort						🖌 🖉 Edit Tick	et Queue	+ Add Ticket
Ticket ID	Release Number	Customer	Ŷ	Field	Status	Status Date	Entry Method	i
JSB0124-FF		Oakley Fertilizer			New	5/18/2021	By Amount	of Product
402128		Pelishek Farms		Home	New	11/12/2020	By Amount	Per Area
104708		Rye Farms Inc		Home	New	11/18/2020	By Amount	Per Area
104736		Terry Blue		Home	New	11/12/2020	By Amount	Per Area

- 2. Select Edit Ticket Queue; The Available Batches screen displays.
- 3. Select the process from the drop-down box.

Process DW 4.2					•				
Available Batches							PLC Queue		
Batch Name	Ŷ	Ticket ID	Ŷ	Batch Weight 🛧	Unit 🛧		Batch Name	Batch Weight	Unit
10		104727		5250.0	lb(US)				
104736-203		104736		8400.0	lb(US)				
13		2000344+1		27994.0	lb(US)				
130		1010101000000113		.0	lb(US)	>			
14		2000344+2		49898.0	lb(US)	2			
15		2000352		29070.0	lb(US)				
16		2000361+1		76.0	lb(US)				
17		2000361+2		1466.0	lb(US)				
18		2000364		5543.0	lb(US)				
19		2000367+1		1305.0	lb(US)				
							A ¥	— Clear C	lueue
Cancel									Send

- 4. Use the following buttons to add the ticket to the PLC queue:
 - > to add the ticket to the PLC queue
 - < to remove the ticket from the PLC queue
 - ▲ to move the ticket up the PLC queue
 - V to move the ticket down the PLC queue
- 5. Select **Send** to confirm adding the ticket to the PLC queue.

Note

To clear the new list order and return to the original list select **Cancel**.

Note

If Legal for Trade is setup and no tare weight has been recorded, a warning message displays:

No Tare Weight Set		
The following batches do not have a truck's tare weight captured. 000000076-378 000000077-379 000000078-380 Do you want to proceed?		
	Yes	No

Select **Yes** to continue, or **No** to set the tare weight.

14.9. Linking a Ticket to an Agronomy

Note

A placeholder ticker should be created in Ticket Manager before linking a ticket to an agronomy. Linking a ticket to an agronomy:

- Processes the placeholder ticket
- Merges the results of the incoming Agronomy ticket with the processed placeholder ticket once the agronomy ticket has been loaded into the system

See Section 21.9 – 18.2 Agronomy Settings on page 227.

To link a Ticket to an agronomy:

- 1. Go to Ticket Manager and select a ticket.
- 2. From the drop-down list select Link to Agronomy; A list of tickets displays.

TestTP000000093				🗹 Edit	ŀ	Create	Batch	G	~	×
Ticket						Û	Mark Ticke	et Con	nplete	d
Ticket Id TestTP00000093		Customer Gary Palmer		Ticket Status New		\$ \$	Record M Link to Ag	anual grono	Batch my	
Ticket Source AGI SureTrack Plant Manager		Total Area 36 acre		Remaining A 36.0 acre	rea	→ 1	Export Delete			
Requested Volume Per Area 7.912 gal(US)/acre		Requested Weight Per Area 65 lb/acre		Total Reques 2,340 lb	ted Ar	nount				
Remaining Amount 2,340 lb										
Blend Analysis 0-0-0			Field Analysis 0-0-0							
Details Transport	Products	Comments								
Entry Type		Total Area		Area Unit						
By Amount Per Area		36		acre						
Product			ŕ	Amount Per Ar	ea	Units	Total Amou	unt	Units	
0-0-60 Potash				20		lb/acre	720		lb	_
AMS				30		lb/acre	1080	I	lb	
DAP				15		lb/acre	540		lb	

3. Search for the ticket by ID or name, click the name of the customer in the list if it appears, or select the Agronomy from the drop-down list.



4. Select Link; A confirmation message displays confirming the link.



14.10. Re-importing a Ticket

Note

Re-importing tickets is only available if Plant Manager is connected to an agronomy.

If a ticket is imported into the system from an agronomy, and the ticket contains a product without a profile in the system, or has errors, the ticket files need to be modified and re-imported into Plant Manager. The ticket is moved to a separate folder *TicketsWithErrors* where it can be modified and the new product added. After the ticket is modified, it can be re-imported into the system, and then exported.

🔳 Ticket M	lanager				C' 🚦 Re-	import 🕒 Bulk Export
Search by ID \ Custome	er \ Release Numb	er p	All Statuses			•
Reset Filter/Sort					🖌 🖉 Edit Tick	et Queue + Add Ticket
Ticket ID	Release Number	Customer 🕇	Field	Status	Status Date	Entry Method
JSB0124-FF		Oakley Fertilizer		New	5/18/2021	By Amount of Product
402128		Pelishek Farms	Home	New	11/12/2020	By Amount Per Area
104708		Rye Farms Inc	Home	New	11/18/2020	By Amount Per Area
104736		Terry Blue	Home	New	11/12/2020	By Amount Per Area
104737		Terry Blue	Home	New	11/12/2020	By Amount Per Area
500159+1		Terry Brothers Grain Farms LLC	SalemEas	New	11/12/2020	By Amount Per Area
500159+2		Terry Brothers Grain Farms LLC	SalemEas	New	11/12/2020	By Amount Per Area
500160+1		Terry Brothers Grain Farms LLC	SalemWes	New	11/12/2020	By Amount Per Area
500160+2		Terry Brothers Grain Farms LLC	SalemWes	New	11/12/2020	By Amount Per Area
500161+1		Terry Brothers Grain Farms LLC	SalemEas	New	11/12/2020	By Amount Per Area
500161+2		Terry Brothers Grain Farms LLC	SalemEas	New	11/12/2020	By Amount Per Area
500162+1		Terry Brothers Grain Farms LLC	SalemWes	New	11/12/2020	By Amount Per Area
500162+2		Terry Brothers Grain Farms LLC	SalemWes	New	11/12/2020	By Amount Per Area

1. From the *TicketsWithErrors* file, select the ticket and resolve the issues.

2. Click Re-import to import tickets.

14.11. Exporting a Ticket

Note

This function exports a completed ticket to a connected agronomy. If tickets do not meet the mandatory ticket settings, the ticket cannot be exported or printed. Batches can also not be created unless all mandatory fields are completed.

Note

A user-generated ticket can only be exported if the agronomy is export only. In most cases, the Ticket Source will be the connected agronomy.

To export a ticket:

- 1. Go to Ticket Manager and select a ticket.
- 2. Select Export; The ticket is exported to the connected agronomy.

14.12. Bulk Exporting

Note

Bulk Export is only available if Plant Manager is connected to an agronomy.

Tickets within a defined date range can be exported to a connected agronomy.

To bulk export tickets:

1. Go to Ticket Manager > Bulk Export.

🔳 Tio	cket Mana	ager				C 📲	Re-import	Bulk Export	
Search by I	D \ Customer \ Re	lease Number	Q	All S	Statuses				•
Reset Filt	er/Sort					🕜 Edit	Ticket Queue	+ Add Ticket	
Ticket ID	Release Number	Customer 🕇	Field		Status	Status Date	Entry Method		
104703		Arndt Angus LLC	VanA	llen	New	11/18/2020	By Amount Per	Area	Î
104719	1256	Arndt Angus LLC	Mulli	kan	New	5/7/2021	By Amount Per	Area	
104724		Arndt Angus LLC			New	11/27/2020	By Amount of I	Product	
700007		Atkinson Enterprises Inc.	All		Completed	6/14/2021	By Amount Per	Area	

2. Enter the date range to export.

Date Range to Export From Date	To Date		
6/14/2020	14 6/14/202	1	14
	There are 9 tickets in the provide	d date range.	
		Cancel	Export

3. Select **Export** to export the tickets; A confirmation message displays.



15. Managing Batches

The **Batches** tab in each ticket manages tickets and batch information.

JSB0124-F	F				(🕑 Edit	🔓 Cr	eate Batch	C	~	×
Ticket											
Ticket Id JSB0124-FF			Custor Oakl	mer ley Fertilizer	r		Ticket Sta	ted			
B.O.S.S. Blend Analysis 0-0-0			27,72	9.96 lb(US)			0 lb(US)				
Details	Transpor	t Pro	ducts	Comme	ents	Change l	History	Batches]		
Available 8	Batches										Î
Batch Id 🛧	Status	Quantity	Request	ted Amount	Actual An	nount	Requested				l
287	Completed	1	27,729.	.96 lb(US)	27,729.9	6 lb(US)	•				l
Selected B	atch Inforn	nation						₽	Print		
Batch Id 287		Status Compl	eted		Batch Qu 1	iantity		🔑 Adju	st Amou	nt	
Batch Name JSB0124-FF	-287										
Requested Am 27,729.96 lb(ount (US)	Request 3,457.2	ed Volum 38 gal(U	e IS)	Requeste	ed Batch Are	ea				
Actual Amount 27,729.96 lb(t (US)	Actual R	ate Per Ar	rea	Actual Ba	atch Area					
Carrier		Transpo	rt Vessel		Transport	t Driver					_

15.1. Adjusting Batch Actual Amount

Note

Adjusting a batch amount is not possible If the ticket status is exported.

To adjust a batch actual amount:

- 1. Go to > Ticket Manager and select a ticket.
- 2. From the ticket information page select the Batches tab and then select Adjust Amount.

Details Transport Proc	ducts Comments Batche	25	
Available Batches			Valve Info
Batch Id Status Quantity Batc	ch Area Requested Amount Actual A	mount	Resize Load
360 Draft 1	5,000 lb(US) 0 lb(US))	
Selected Batch Information			🖶 Print
Batch Id	Status	Batch Quantity	盲 Delete
360 Batch Name *	Or Use	1	+ Add Ticket
BB000000175-360	< Custom Name > •		Mix Options
Requested Amount *	Requested Volume 677.322 gal(US)	Batch Area	Make Batch
Actual Amount	Actual Rate Per Area		Send Batch to Queue
0 lb(US) Carrier	Transport Vessel	Transport Driver	🖋 Adjust Amount

3. Enter a new value in the **Batch Actual Amount** at the bottom of the page. Alternatively, if the individual product amounts are known, they can be entered.

		Adjust Ba	tch Amount			
Valve	Product 1	Product Type	Requested Per Area	Requested Amount	Actual Amount	Units
	0-0-62 MUR/POT GRAN BULK	Dry Fertilizer - Auto	.2 lb(US)/acre	20 lb(US)	0.000	lb(US)
	18-46-0 DAP	Dry Fertilizer - Auto	.3 lb(US)/acre	30 lb(US)	0.000	lb(US)
	21-0-0-24s AMS Mid-Grade	Dry Fertilizer - Auto	.5 lb(US)/acre	50 lb(US)	0.000	lb(US)
		Batch Actual Amoun	it: 0 lb(US)		
		Cancel	Save			

Note

The system automatically adjusts the actual amounts of each product when the **Batch Actual Amount** is changed.

4. Select **Save** to overwrite the new value or **Cancel** to exit without change.

15.2. Adding a Ticket to a Batch

To add a ticket to a batch:

1. Before adding tickets to batches go to **Settings > Ticket** .

Note

The software uses the tolerance number (%) to compare blend ratios of different tickets when adding ticket to a batch. 0 means exact match.

A	🖒 😹 Plant Manag	jer		Touchscreen	🚨 AGITech 🗸 🖺 View 🗸	🛕 22 Alerts 🛛 🗕	□ ×
=		Valves	Printing		Touchscreen	Admin	
_		Process S	scales	Ticket	Agronomy	Email	
8	Ticket Manager	Formulation Group Set	ttings		-		
<u>]</u> µ	Products	Blend Analysis Tolerance *			Field Analysis Tolerance *		
Ĩ		40			0		
I	Recipes	Minimum Gallons/Area			Units		
Ê	Formulation Groups	Maximum Nutrient %					•
Ë	Batch History						
Û	Reports	Default Ticket Settings]				
-	Partners	Imperial-UK Ir	* mperial-US ON	/letric	Allowed Measurement Systems Imperial-UK Imp	perial-US 🗸 Metric	
56	Equipment	Water Defaults	11-24-1		Default Auto Size	Units	
~	Equipment	8 35	lb/gal/US)	•	Auto Size Amount	Units	•
	Vessels	0.00	ib/gai(05)				
		Default Process			Default Dispensing Location		
2	Crops			·			•
P	Application Types	Use Default Ticket Prefix Use Default Ticket Pre	fix		Default Ticket Prefix		Ŧ
20	Staff	Separator Character	Number of Charact	ers			
		-	3				
	Settings	Default System Type			Default Mixer Type		-
Ø	Help				e	Save	

2. In **Default Ticket Settings** enter the percent in the **Ticket Percent Tolerance** field.

Default Ticket Settings						
Default Measurement System *	O Metric	Allowed Measurement Systems Imperial-UK Metric				
Default Process		Water Defaults				
		Density *	Units *			
	Ť	8.35	lb/gal(US) •			
Default Auto Size		Add to Ticket Percent Tolerance *				
Auto Size Amount	Units	0				
	•	•				
Ticket Prefix		Default System Type				
			•			
Default Mixer Type		Default Dispensing Location				
	•		•			
Default Batch Name		Default Entry Method Type				
Ticket Id - Batch Id	•		•			
Entry By Amount or Percent		Default Ticket Area Unit				
Amount OPercent			•			
Ticket/Batch Area Unit to Display		Ticket/Batch Mass Per Area Unit to Display				
	•		•			
Ticket/Batch Volume Per Area Unit to Displa	у	Default Truck Scale Unit				
	•		•			
Default Report Logo						
	Change					

3. Select Save.

4. After setting the tolerance go to **Ticket Manager** and select a new ticket; The ticket detail page displays.

🔳 Ticket M	lanager					C .	Re-import	Bulk Export
Search by ID \ Custom	er \ Release Numb	er 🔎	All Statuses	• Rese	et Filter/Sort			+ Add Ticket
Ticket ID	Release Number	Customer		Field	Status	Status Date 🕁	Entry Method	
700007		Atkinson Er	terprises Inc.	All	Completed	6/14/2021	By Amount Per Area	a
104730		Evergreen [Diversified Agriculture	MinkeyRd	Completed	6/14/2021	By Amount Per Area	3
000000148		MATT MED	EL		Completed	6/4/2021	By Amount of Prod	uct
000000147		MATT MED	EL		Completed	6/4/2021	By Amount of Prod	uct
JSB0124-FF		Oakley Fert	ilizer		New	5/18/2021	By Amount of Prod	uct
JSB0124-BK		Oakley Fert	ilizer		New	5/18/2021	By Amount of Prod	uct

5. Select the **Batches** tab and then select + **Add ticket**; A list of tickets displays.

JSB0124-FF			E	🕈 Edit	C	~	×
Ticket							
Ticket Id JSB0124-FF	Customer Oakley Fertilizer	1 1	licket Status New				
Ticket Source B.O.S.S.	Total Requested Amo 27,729.96 lb(US)	punt F	Remaining A 27,729.96	mount b(US)			
Blend Analysis 0-0-0		-					
Details Transport	Products Comme	nts Batches					
Available Batches	1.007			Resize	Load		Î
Batch ld 🛧 Status Quant	tity Batch Area Requested A	mount Actual Amount					L
196 Draft 1	27,729.96 ll	b(US) 0 lb(US)					L
Selected Batch Informa	tion			₽.	Print		
Batch Id 196	Status Draft	Batch Quantity 1		î D	elete		
Batch Name *	Or Use		I	+ Add	l Ticke	t	
JSB0124-FF-196	< Custom Name > •			📕 Adjus	t Amo	unt	
Requested Amount *	Requested Volume 3.457.238 gal(US)	Batch Area					
Actual Amount 0 lb(US)	Actual Rate Per Area						

6. Select the required ticket or search for a ticket then select **Ok**.

Note

Tickets which are already added to a batch have **Added to Batch – In Progress** status.

Sea	arch by Ticket	ld / Customer		Q	All Status -				
	Ticket Id	Release Number	Customer	Field	Status	Exact Match	Within Tolerance	Override	j
	16528136				New	~			Î
	16560046				New	~			L
	J000003041		NUTRIEN INDEPENENCE (1418)		New	~			
~	J000003045		NUTRIEN INDEPENENCE (1418)		Added to Batch - In Progress	~			L
~	J000003046		NUTRIEN INDEPENENCE (1418)		Added to Batch - In Progress	~			
	J000003047		NUTRIEN INDEPENENCE (1418)		New	~			L
	J000003048		NUTRIEN INDEPENENCE (1418)		New	~			
	J000003049		NUTRIEN INDEPENENCE (1418)		New	~			
	J000003050		NUTRIEN INDEPENENCE (1418)		New	~			
	J000003052		NUTRIEN INDEPENENCE (1418)		New	~			
	J000003053		NUTRIEN INDEPENENCE (1418)		New	~			
	J000003054		NUTRIEN INDEPENENCE (1418)		New	~			
	J000003055		NUTRIEN INDEPENENCE (1418)		New	~			-
							Cancel	🗸 Ok	

Note

An Override warning message appears if the product ratio does not match exactly but is within the configured tolerance level.

Override	
The product ratio does not match exactly, but is within the configured tolerance lev adding this ticket?	el. Do you want to proceed with
	OK Cancel

7. Select **Ok** to add the ticket to the batch or **Cancel** to exit without adding the ticket.

15.3. Deleting a Batch

Note

A deleted Batch cannot be retrieved.

To delete a batch:

- 1. Go to **Ticket Manager** and select a ticket; The ticket information page opens.
- 2. In the **Batches** tab select a batch from the **Available Batches** and select **Delete**.

Details	Tran	sport	Products	Comments	Batches		
Available	Batches	;					Resize Load
Batch Id 🛧	Status	Quantity	Batch Area	Requested Amount	Actual Amount		
223	Draft	1	21 acre(US)	3,150 lb(US)	0 lb(US)		
Selected	Batch In	formatior	1	99-			🖶 Print
Batch Id 223			Statu: Draft	ŝ		Batch Quantity 1	👕 Delete
Batch Name * 104708-22	3		Or Us	e ustom Name >	•		+ Add Ticket ≁ Adjust Amount

3. Select **Delete**; A confirmation message displays. Select **Delete** again to delete the batch or click **Cancel** to exit without deleting.

Delete?	
Are you sure you want to delete '104708-223'?	
	Cancel Delete

15.4. Making a Batch from Mix Options

Note

Mix Options menu is only available for Junge. The configurations in the Mix Options are directly linked to the Junge Data Manager.

To make a batch from mix options:

- 1. Go to Ticket Manager and select a ticket.
- 2. Select Batches > Mix Options.

Details	Tran	sport	Products	Comme	ents	Batches		
Available	Batches	5			_			Valve Info
Batch Id @	Status	Quant	ity Batch Area	Requested (Amount	Actual Amount		Resize Load
284	Draft	1	ity batch Area	15 lb(US)	anount	0 lb(US)		
				10 10(00)		0.0(00)		
Selected B	Batch In	forma	tion					🖶 Print
Batch Id			Status		Batch Qu	antity		👕 Delete
284 Batch Name *			Draft Or Use		1		_	+ Add Ticket
777-013100	000016	5-284	< Custom Nan	ne > 🔹 🔻				Mix Options
Requested Am	nount *	h(US)	Requested Volume	2	Batch Ar	2a		Make Batch
Actual Amoun	t.	5(05)	Actual Rate Per An	ea			_	Send Batch to Queue
0 lb(US)								🗲 Adjust Amount
Carrier		•	Transport Vessel	•	Transpor	t Driver	•	

3. Select **Processes** and complete the fields. Required fields are marked (*).

Processes	Fertilizer	Chemical	Delay Weight
Fertilizer Proces	s *		Loadout *
Is Hold Cł	nem Process	Ŧ	¥
Chemical Proces	is *	•	Loadout *
Hand Add Proce	ess *		
		•	
Sequence			
Quantity of Loa	ds to Make *		
Final Mix Time			

Item (Required Entry)	Description
* Fertilizer Process	A list is populated with the process name when Allow Operator to Pick This Process is answered Yes in the Data Manager.
Loadout (Fertilizer)	After the Fertilizer process is chosen, this list is populated with loadout names for the fertilizer process that is listed in the Data Manager.
* Chemical Process	After the fertilizer loadout is chosen, this list is populated with the default information that is set in the Data Manager.
* Loadout (Chemical)	A list is populated with the default information that is set in the Data Manager.
* Hand Add Process	A list is populated with the default information that is set in the Data Manager.
Sequence	The process sequence that the user can choose from a list. The list is populated when Complex Product Sequencing and Sequence Name are set up in the Data Manager.

Item (Required Entry)	Description
* Quantity of Loads to Make	Default information is set in the Data Manager. The user inputs a quantity to let the system make that quantity of the load regardless of the size of the load.
Final Mix Time	Only used for blenders. Default information is set in the Data Manager.

4. Select **Fertilizer** and complete the fields.

Processes	Fertilizer	Chemical	Delay Weig	ght	
Fertilizer Pro	ocess: RETAIL MIXE	R		S [] All weight	how Function Ids ts specified in Lbs
			Agitator St	tart Weight	5000
			Agitator Shut	Off Weight	5000
			Mix Pump St	tart Weight	3000
	V	Water Flush Sta	rt Weight as Pu	mping Out	1000
	,	Water Flush Sto	p Weight as Pu	mping Out	500
			Final Water Flu	ush Weight	0
		Qty o	of Final Water F	lush Cycles	1
	Valve Fert S	System Shuts Do	own to Wait for	Chemicals	0
				Cancel	🗸 Ok

Item	Description
Agitator Start Weight	Set weight (in pounds) in which the agitator Starts while filling. Default information is set in the Data Manager
Agitator Shut Off Weight	Set weight (in pounds) when the agitator shuts off while dumping. Default information is set in the Data Manager.
Mix Pump Start Weight	Set weight (in pounds) when the mix pump starts blending the mix tank while filling. Default information is set in the Data Manager.
Water Flush Start Weight as Pumping Out	Set the start weight (in pounds) of the water flush on the way down for the system or mixer. Default information is set in the Data Manager.

Item	Description
Water Flush Stop Weight as Pumping Out	Set the stop weight (in pounds) of the water flush on the way down for the system or mixer. Default information is set in the Data Manager.
Final Water Flush Weight	Set the weight (in pounds) of cycles for ending the water flush. Default information is set in the Data Manager
Qty of Final Water Flush Cycles	Set the quantity of cycles for ending the water flush. Default information is set in the Data Manager.
Valve Fert System Shut Down to Wait for Chemicals	The amount (dispensing units) at which the fertilizer system stops and wait for the chemical process to complete. Default information is set in the Data Manager.

5. Select **Chemical** and complete the fields.

Processes	Fertilizer	Chemical	Delay Weight
Chemical Process			
			 Show Function Ids
			All weights specified in Lbs
		Water Flush Star	t Weight as Pumping Out
		Water Flush Stop	o Weight as Pumping Out
			Final Water Flush Weight
		Qty o	f Final Water Flush Cycles
			Water Prefill Amount
			Settings have been overwritten for this ticket
			Cancel V Ok

Item	Description
Show Function Ids	Shows the corresponding id number that is associated with each function.
Water Flush Start Weight as Pumping Out	Set the start weight (in pounds) of the water flush on the way down from the system or mixer. Default information is set in the Data Manager.

Item	Description
Water Flush Stop Weight as Pumping Out	Set the stop weight (in pounds) of the water flush on the way down from the system or mixer. Default information is set in the Data Manager.
Final Water Flush Weight	Set the weight (in pounds) of cycles for the ending water flush. Default information is set in the Data Manager.
Qty of Final Water Flush Cycles	Set the quantity of cycles for ending water flush. Default information is set in the Data Manager.
Water Prefill Amount	Set an amount (in pounds) before starting dispensing chemicals into the system. Default information is set in the Data Manager.

6. Select **Delay Weight** and check the listed Product.

Note

The Delay Weight is the default waiting time for an ingredient to start. Metering multiple products into a batch at the same time delays the current ingredient until the weight is reached. Data populates in the **Delay Weight** tab when the ingredient configuration is set in the Junge Data Manager.

Processes	Fertilizer	Chemical	Delay Weight		
Product		ŕ	Delay Weight	Unit	
			c	ancel	🗸 Ok

7. Select Ok.

^{8.} Click Make Batch to send the batch information to Junge operator for processing.

15.5. Re-sizing a Load

To re-size a batch load:

1. Go to Ticket Manager and select a ticket that already has batches.

Details	Trans	sport	Products	Comments	Batches	
Available	Batches	5				Resize Load
Batch Id	Status	Quantity	Batch Area	Requested Ar	nount Actual Amount	
232	Draft	1	100 acre(U	S) 100 lb(US)	0 lb(US)	
Selected	Batch In	formatio	n			🔒 Print
Batch Id			Sta	tus	Batch Quantity	盲 Delete
Z3Z Batch Name	*		Or	Use	1	+ Add Ticket
8819-YT0	00000159	-232	<	Custom Name >	•	🖌 Adjust Amount
Requested A	mount *		Red Ib(US) 12	uested Volume 285 gal(US)	Batch Area 100.0 acre(US)	
Actual Amou	int		Act	ual Rate Per Area		

- 2. Select Batches.
- 3. Select Resize Load; The resize options display.



Item	Description
Reset to One Batch	If there are multiple batches, the user can select Reset to One Batch and the program resets all the batches back to one.
Auto Size	User can set a maximum limit of batch size. The program adjusts the size to a possible maximum value.
Equal Batches	User can enter an amount. The program splits a ticket into multiple equal batches.
Resize by Ton	The batch can be re-sized by Ton weight.
Resize by Pound	The batch can be re-sized by Pound weight.

Item	Description
Resize by Gallon	The batch can be re-sized by Gallon.
Resize by Area	If a ticket has been created with an amount of product per area, the batch can be re-sized to cover a specific area.

To resize to one batch from multiple batches:

1. Select a ticket with multiple batches.

Available	Batches	;			
Batch Id	Status	Quantity	Batch Area Requested Amount	Actual Amount	
237	Draft	1	333.333 lb(US)	0 lb(US)	
238	Draft	1	333.333 lb(US)	0 lb(US)	
239	Draft	1	333.333 lb(US)	0 lb(US)	

2. From **Resize Load** select **Reset to One Batch**; The multiple batches are combined to one batch.

Available	Batches	;				Resize Load
Batch Id	Status	Quantity	Batch Area	Requested Amount	Actual Amount	
244	Draft	1		1.000 lb(US)	0.lb/US)	
244	Dian	1		1,000 10(03)	010(05)	

To auto resize a batch:

1. Select a ticket with a batch.

2. Select Resize Load, and then Auto Size; The Change Auto Size fields open.

Change Auto Size	
Auto Size Amount	Unit 🗸
Save as new default	

3. Enter the Auto Size Amount and Unit.

Note

Check the Save as New Default box to save the size as a default.

4. Select Ok.

To resize a single batch to equal multiple batches:

1. Select a ticket with a single batch.

Available	Batches					Resize Load	
Batch Id	Status	Quantity	Batch Area	Requested Amount	Actual Amount		
244	Draft	1		1,000 lb(US)	0 lb(US)		

- 2. Select Resize Load and then select the Equal Batches option.
- 3. In the Equal Batches field enter the number of batches needed.

Resize to Equal Batches
Number of Batches Needed
1

4. Select **Ok**; The original batch is equally divided into multiple batches.

Available	Batches	5						
Batch Id	Status	Quantity	Batch Area	Requested Amount	Actual Amount			
245	Draft	1		333.333 lb(US)	0 lb(US)			
246	Draft	1		333.333 lb(US)	0 lb(US)			
247	Draft	1		333.333 lb(US)	0 lb(US)			

To resize a batch by Ton, Pound, or Gallon:

- 1. Select Resize Load and then select by Ton, by Pound, or by Gallon.
- 2. Enter the required amounts per batch.

Resize By Ton		
Tons Per Batch		
0.05		
	Cancel	🗸 Ok

3. Select Ok.

15.6. Sending a Batch to Queue

Note

Send Batch to Queue menu is only available for Yargus Declining Weight version 4.2 and newer.

- 1. Go to Ticket Manager and select a ticket.
- 2. Select Batches > Send Batch to Queue.

Details	Transport	Product	ts Comments	Batches	
Available	Batches				Valve Info
Batch Id 🛧	Status Quanti	ty Batch Ar	ea Requested Amoun	Actual Amount	Resize Load
283	Draft 1	10 acre	(US) 10 gal(US)	0 gal(US)	
Selected	Batch Informat	ion			🔒 Print
Batch Id		5	Status	Batch Quantity	i Delete
283 Batch Name ⁴	t.		Dratt Dr Use	1	+ Add Ticket
555-13100	00000164-283		< Custom Name >	•	Mix Options
Requested Ar	nount *	gal(US)	Requested Volume 10 gal(US)	Batch Area 10.0 acre(US)	Make Batch
Actual Amou	nt	,	Actual Rate Per Area		Send Batch to Queue

Note

If Legal for Trade is setup and the batch has no tare weight entered a warning message displays:

No Tare Weight Set	
This batch does not have a truck's tare weight captured. Do you want to proceed?	
	Yes No

Select **Yes** to continue processing the batch or **No** to enter the tare weight.

15.7. Valve Info

To add valve information:

- 1. Go to Ticket Manager and select a ticket that is not completed.
- 2. Select Batches.

Details	Transport	Products	Comments	Batches	
Available Ba	atches				Valve Info
Batch Id 🛧 S	Status Qua	ntity Batch Area	Requested Amo	unt Actual Amount	Resize Load
284 C	Draft 1		15 lb(US)	0 lb(US)	
Selected Ba	tch Inform	ation			🖶 Print
Batch Id		Status	Bat 1	ch Quantity	Tolete
Batch Name *		Or Use			+ Add Ticket
777-0131000	000165-284	< Custom Nan	ne > 🔹		Solutions
Requested Amou	unt *	Requested Volume	e Bat	ch Area	Make Batch
Actual Amount		Actual Rate Per Ar	ea		Send Batch to Queue
0 Ib(US) Carrier		Transport Vessel	Tra	nsport Driver	🖌 Adjust Amount
Carrier	•	Transport Vessel	Tra	nsport Driver	 Adjust Amou

3. Complete the following:

Process: LIQUID CARRIER		
Product	Valve Id 🕇	Use this Valve
Nitrogen Solution 32% 32-0-0 (Bulk Ton)	1	~
Fert 10-34-0 (Bulk Ton)	2	~
Fert 11-37-0 (Bulk Ton)	3	~
Nitrogen Solution 32% 32-0-0 (Bulk Ton)	4	
Ammonium Thiosulfate 12-0-0-26 (Bulk Ton)	5	~

- a. Select the **Process** from the drop-down list.
- b. Select the valves that need to be used for the process.
- c. Select **Ok** to confirm or **Cancel** to exit the screen without changing.

15.8. Batch History

Batch histories (records) can be viewed and saved in .csv format for individual batches, or for all batches within a date range.

To view and save batch histories:

1. Select **Batch History** from the main menu.

Ā	🕂 🕝 🥌 Plant Manager Touchscreen Mode 🚨 AGiTech 🗸 🖹 View 🗸 7 Alerts 🗕						×								
≡		🗒 B	atch	Histor	y									C	2
	Ticket Manager						Q	From Date 7/29/2022		14	To Date 8/1/2022				<u>14</u>
)m	Products						No Res	ults Found							
I	Recipes	Date ↓	Process	Ticket Id	Release Number	Customer	Batch Id	Batch Name	Requested Amount	Actu	ual Amount	Status			
Ê	Formulation Groups														
	Batch History														
Û	Reports														

Item	Description		
Search	Search for a ticket by process, ticket ID, customer, batch ID, or batch name.		
From Date	The start date for a date range search.		
To Date	The end date for a date range search.		
Batch Details Display Columns	The batch details can be sorted by each column displays. Click on the headings to sort by the column.		

- 2. Select a batch to view the details or select Export All to export all.
- 3. Select Save to Location and click Export.

Export Data for Batch History-All Batches		
Save To Location		
Save As		
AGI SureTrack Plant Manager Batch History-All Batches-11.29.2020 8.22 PM		.CSV
	Cancel	Export

4. To check individual batch information, select any batch from the list and click the **Details** tab.

120		Export C ×			
Details Products					
Ticket Id 104707	Process DW 4.2				
Batch Id 120	Batch Name 120	Status Completed			
Batch Count O	Batch Quantity 1	Feedback Ignored No			
Requested Amount 5,500 lb(US)	Requested Volume 788.571 gal(US)	Actual Amount 5,782.789 Ib(US)			
Batch Area 23.131 acre(US)	Actual Rate Per Area 250.0 lb(US)/acre	Remaining Area -1.131 acre(US)			
Batch Start Time 12/28/2020 8:36:33 AM	Batch End Time 12/28/2020 8:38:12 AM	Batch Time (mins) 1.63768733666667			
Show Transport Info					
Show Process Info					
Show Junge Info					
Show Cooking Info					

Item	Description		
Ticket ID	The unique ticket ID.		
Process	The process creating the fertilizer.		
Batch ID	The unique batch ID generated when the batch is created.		
Batch Name	By default, the Batch Name is the same as the Batch ID. The name can be changed.		
Status	A new batch status is Draft .		
Batch Count	The number of this specific batch that have been run.		
Batch Quantity	The number of this specific batch to be created.		
Feedback Ignored	Running a blend may cause an alert. The Operator can chose to ignore the alert or stop the process. The system counts the number of ignored alerts.		
Requested Amount	The amount of the product requested for the batch.		
Requested Volume	The requested volume of the batch in liquid measurement.		
Actual Amount	The amount the batch actually ran.		
Batch Area	The total area of the customer's field to be fertilized with this batch.		
Actual Rate per Area	The rate per area that the batch actually ran.		
Item	Description		
---------------------	--		
Remaining Area	The remaining field area to be fertilized if the batch runs short of the total area. If the batch runs over the requested amount per area, the number is negative.		
Batch Start Time	The time the batch run started.		
Batch End Time	The time the batch run ended.		
Batch Time (mins)	The length of time the batch was run.		
Show Transport Info	Shows the transport and application details.		
Show Process Info	Shows the details of the process producing the batch.		
Show Junge Info	Information received from the Junge Plant Operator after a blend is run.		
Show Cooking Info	Shows the details of the cooking process for this batch.		

5. Select **Products** to check product information.

551-TR0000	00158-226						Export	C	×
Details	Products								
Product	Requested Amount	Actual Amo	ount Valve	Density	Order				
Liquid Product	74.572 gal(US)	0.428 gal((US)	8.35 lb/gal(US)	0				
ZN	74.572 gal(US)	0.428 gal(US)	15 lb/gal(US)	0				
Ongoing Total 4,199.572 gal(US))		Usage 15.396 gal(U	JS)		Start DDM			
Time Used (seconds	;)		larger Noc						
Delay Weight 0 lb(US)			Freefall (old)			Freefall (new)			
Scale Factor									
Mix Time Seconds			Alarm No						
Show Cookin	g Info								

Item	Description
Products	The products comprising the batch.
Ongoing Total	The current inventory of the product.
Usage	The amount of a product that has been used in total by the system.
Number Fills	How many times the hopper was refilled during the blend.
Target ROC	Target Rate of Change (ROC) is how much of the product is supposed to be dispensed to meet the blend requirements. Usually lbs/ second, or gallons/ second.

Item	Description
Start RPM	The valve's starting RPM.
Time Used (seconds)	How long the product was dispensed in seconds.
Delay Weight	The Delay Weight is the default delay wait for the ingredient to start. If metering multiple products into a batch at the same time, it would delay this product until the weight is reached.
Freefall (old)	This is the amount, of dispensing units that pass through the system after the measuring device determines to stop flow. This amount, by default, is automatically adjusted each time the product is dispensed. This feature can be set, or not, in Ingredient Control Valve Setup.
Freefall (new)	New Freefall is after the product has been dispensed.
Scale Factor	In the metering system, the system requires sending a unique scale factor for each product being measured through a common meter.
Mix Time Seconds	The amount of time, in seconds, that the product was mixed.
Alarm	If any alarms were raised during the run.
Show Cooking Info	Cook time – the mixing time after all the cook product (KOH) has been added to the batch. Cook temp – the temperature at which the cook process can start. The cook product (KOH) cannot be added until this temperature is reached. Cool temp – the temperature to which the batch must cool after the mixing time. The batch will not be dumped until this temperature has been reached.

15.9. Completing Truck Scale Batches

Note

This option is only available for batches in processes that are configured with legal-for-trade truck scales.

1. Go to Settings > Ticket.

A	🖯 🥿 Plant Manag	jer 🛛		chscreen	i 🚨 AGITech 🗸 🖺 Vie	w 💙 🚺 22 Alerts		×
=		Valves	Printing		Touchscreen	Admin		
		Process	Scales	Ticket	Agronon	ny Em	nail	
	Ticket Manager	Evolution Date	-		Release Number			
)je	Products							
⊫	Recipes	% to Finish *						
Ê	Formulation Groups							
Ħ	Batch History	Use Legal for Trade	Weight					
Ê	Reports	Calculate with Ratios-Ro	obot 🔹					
-	Partners	Use Tank Weight Use Mass Meter		Print Print	Truck Check In Truck Check Out			
×	Equipment	✓ Use Blender (Rotary I	Drum/Tapered Vertical)	Enab	le Mark Batch Complete			
	Vessels	Cook Settings						
\$	Crops	Default Cook Time (minutes)	Default Cook Temperature	(°F) Defa	ault Cool Temperature (°F)			
۴	Application Types	0	0	0				
20	Staff	Product Settings						
\$	Settings	Default Product Order *						
Ø	Help					Save		_ *

2. Scroll down to **Processing Settings** and complete the fields.

Processing Settings		
% to Finish *		
0		
WEIGHTS OPTIONS		
✓ Use Legal for Trade Weight Mode *		
Calculate with Ratios-Robot	•	
Use Tank Weight	Print Truck Check In	
Use Mass Meter	Print Truck Check Out	
✓ Use Blender (Rotary Drum/Tape	red Vertical) Enable Mark Batch Complete	

Item (* Required Entry)	Description
% to Finish	If the actual amount of product running out of the valve is less, or greater than the requested amount by this tolerance, the user receives a notification about it.
Use Legal for Trade Weight	Used if the user has a truck scale, or a certified scale.
Mode *	Select from (see explanation note below): Original Format Calculate with Ratios Robot Advanced-Robot Calculate with Ratios-Requested Advanced-Requested
Use Tank Weight	If the user has an overhead tank this option is used.
Use Mass Meter	Typically used for liquid blends to capture legal weight.
Use Blender (Rotary Drum/Tapered Vehicle)	Used to capture legal weight.
Print Truck Check In/Out	These are forms given to give to the truck driver when they enter and leave the plant. Truck will be weighed, then handed the Truck Check In printout. This usually has the Tare weight and the truck ID. After the blend has finished the driver may receive the Truck Check Out printout after the final weight is captured. The check out will have the gross weight on it.
Auto Export to Agronomy	If the tickets is marked as <i>completed</i> , the program will auto send it back to the agronomy. If this is not checked, the user needs to select <i>Export</i> .
Prevent Auto Export if Product Percent Tolerance not met	Tickets will not be automatically exported to the agronomy if the percentage tolerance is not met.

Note

The following popup explains the different modes. Hover the mouse over the field to read the descriptions:

Original Format: Use the amount recorded from the Legal for Trade scale as the total amount for the batch and do not update the product amounts.
Calculate with Ratios-Robot: Use the amount recorded from the Legal for Trade scale as the total amount for the batch and update each product amount based on the ratio of the product.
Advanced-Robot: Use the amount recorded from the Legal for Trade scale as the total amount for the batch and only update the product amounts based on the ratio of the product if it is recorded as dispensed from a hopper that was filled during the blend or ran in volumetric mode.
Calculate with Ratios-Requested: Use the amount recorded from the Legal for Trade scale as the total amount for the batch and update each product amount based on the requested weight of the product.
Advanced-Requested: Use the amount recorded from the Legal for Trade scale as the total amount for the batch and only update the product amounts based on the requested weight of the product if it is recorded as dispensed from a hopper that was filled during the blend or ran in volumetric mode.

- 3. Select Save.
- 4. In Manual Entry:
 - Select Unit.
 - Edit Tare Weight and Gross Weight.

Manual Entry		
Tare Weight	Gross Weight	
Net Weight	Unit	•

5. In Manual Entry for 2nd Trailer (if there is a second trailer):

In Manual Entry for 2nd Trailer:

- Select Unit.
- Edit Tare Weight and Gross Weight.
- 6. In the Legal For Trade option select Authorize.

Legal For Trade			
Robot Recorded Weight 100.000	Legal for Trade Weight 54,000.000	Batch Unit Ib	≁ Authorize

15.10. Printing a Batch Record

A printed batch record provides a receipt of batch details. Depending on the print template used, a batch record may include signatures of the Partners involved in the batch.

Batch records are printed from the Ticket Manager.

To print a batch record:

1. Go to Ticket Manager and select Batches.

Details	Transpor	t Pro	ducts Comn	nents Batches	S			
Available	Batches	in na si	8.0°				٦	
Batch Id 🛧	Status	Quantity	Batch Area	Requested Amount	Actual Amount			
213	Completed	1	50.794 acre(US)	6,300 lb(US)	6,400 lb(US)			
Selected I	Batch Inform	nation						🖨 Print
Batch Id 213			Status Completed		Batch Quanti 1	ity		🖌 Adjust Amount

- 2. Select **Print**. If the print template is configured to require signatures additional screens appear for each required signature.
- 3. Save the batch/ticket information in the required location.

Note

The save to location screen only appears if print to PDF is selected.



Note

The system generates a confirmation of printing message including the batch, ticket, and printer details.



16. Load Manager

Loads are ticket(s) and vessel compartment(s) that have been specified and are treated as a single ticket called a **Load Ticket**. Each compartment specified in the Load becomes a batch for the Load Ticket and can be requested and run like a batch in a normal ticket. **Load Manager Settings** provide control over the Load.

16.1. Load Manager Settings

To manage Load Manager settings:

- 1. Go to Settings > Ticket > Load Manager Settings.
- 2. Select the Tolerance Type:
 - a. Product Amount compares the amounts of each product to determine if the tolerance is met.
 - b. Product Rate Per Area compares the amount per area to determine if the tolerance is met.
- 3. Set the unit of measurement to use for the total load and load ticket from the Load Total Unit drop-down.
- 4. Enter the Tolerance Percent.

Note

Tolerance Percentage determines which tickets are available. The default is 0 which means there can be 0% difference. A tolerance of 5 makes only tickets within a 5% difference available.

5. Select Save.

16.2. Creating Compartments

To create a compartment:

- 1. Go to Vessels.
- 2. Select the vessel to add a Compartment.
- 3. Select Edit to add, delete, or modify a Compartment.
- 4. Select + Add Compartment.
- 5. Enter a name for the Compartment.
- 6. Enter the Compartment capacity.

Note

- The unit of measurement of the Vessel Capacity is used for the Compartment Capacity units.
- The **Maximum Capacity of the Vessel** is the sum of all the Compartment Capacities. The Maximum Capacity can be manually entered after the Compartments are created if adjustment is required.
- 7. Click Save. To remove the entry click Cancel or click on the trash can icon.

16.3. Creating a Load

A Load is created by selecting a group of Tickets within the same product ratio tolerance to run in a particular order.

To create a Load:

 Go to Load Manager > + Add Load; The Select Ticket screen displays with all available New or Partially Completed tickets.

		Sele	kets	
Available Tickets			Load	
Ticket Id 1 Release Number	Customer Field	Status	Ticket Id Release Number Customer	Field Status
000000157	MATT MEDEL	Partially Cc		
000000180	Jerry Geddes	New		
000000181	Jerry Geddes	New		
000000182	MATT MEDEL	New		
000000183	MATT MEDEL	Partially Cc		
000000194	Arndt Angus LLC	New		
00000208	MATT MEDEL	Partially Cc		
00000215	MATT MEDEL	New		
000000217	MATT MEDEL	New		
000000219	MATT MEDEL	New		
000000223	TEST FARMER - (New		
			A V	- Clear All

Item	Description		
Cancel Cancels adding the load.			
>	Moves the selected ticket from the Available Tickets list to the Load List.		
<	Moves the selected ticket from the Load list to the Available Tickets list.		
^	Moves the selected ticket up one item in the Load list.		
V	Moves the selected ticket down one item in the Load list.		
Clear All	Move all tickets in the Load list to the Available Tickets list.		

2. From the list of **Available Tickets** select the Ticket(s) to add to the Load, then click the **right direction arrow** to move the Ticket to the **Load** list.

Note

Use the **left direction arrow** to move a Ticket(s) from the **Load** list back to the **Available Tickets** list. To remove all Tickets from the **Load** list back to the **Available Tickets** list select — **Clear All**. To cancel the Load completely select **Cancel**.

3. Use the **up and down arrows** to order the Tickets if required.

Important

The order of the Tickets in the list is important and determines the order in which the Tickets are run.

4. Select Next to move to the Select Vessels and Compartments screen.

Tickets Select Vessels And Compartments									
Compartme	nts				Load				
Vessel Name 🛧	Compartment Name	Compartment Capacity	Unit		Vessel Nan	ne 🕇	Compartment Name	Compartment Capacity	Unit
LLT5	1	2,000	lb(US)						
LLT5	2	2,000	lb(US)						
LLT5	3	2,000	lb(US)						
LLT5	Not Specified		lb(US)						
DL-42-A	А	1,000	lb(US)	_					
DL-42-A	В	1,000	lb(US)	<					
DL-42-A	Not Specified		lb(US)						
RS-1Y	1	500	gal(US)						
RS-1Y	2	500	gal(US)						
RS-1Y	3	500	gal(US)						
•			•						
					^ v				- Clear All
Cancel									Next

5. From the **Select Vessels and Compartments** screen select the required vessel **Compartments** and use the right direction arrow to move it to the **Load** list.

Note

Use the **left direction arrow** to move the vessel compartment back to the **Compartments** list, or — **Clear All** to remove all selected compartments.

6. Use the **up and down arrows** to order the list of vessels and compartments.

Important

The order the vessels and compartments appear in the list determines the order the compartments will be loaded.

	Load			
	Vessel Name 🛧	Compartment Name	Compartment Capacity	Unit
	DL-42-A	A	1,000	lb(US)
	DL-42-A	В	1,000	lb(US)
>				
<				
	~ v			- Clear All

7. Select Next to move to the Load Summary screen.

	Tickets	Compartments	Load Su	nmary	
	Tickets	Amount	Compartment Capacity	Compartment	
	00000180	1,000.0 lb(US)	1,000.0 lb(US)	A	
	104733	1,000.0 lb(US)	1,000.0 lb(US)	В	
և 1	oad Requested / 7,500.0 lb(US)	Amount)	Total Compartment Ca 2,000.0 lb(US)	acity Amount L 15,500.0	eftover Ib(US)
	Cancel				Save

Item	Description
Tickets	Select to go back to the Ticket Selection screen.
Compartment	Select to go back to the Compartment Selection screen.
Edit	Select the row to adjust the amount that is going into the compartment. See step 8 below.
Load Requested Amount	The total sum amount of the Tickets requested for the load. The Load cannot exceed the Load Requested Amount.
Total Compartment Capacity	The capacity of the selected compartment(s).
Amount Left Over	The difference between the Load Requested amount and the Total Compartment Capacity.

- 8. Use the edit icon to edit the amount of product for the load if required.
- 9. Select Save to create the load, or Cancel to cancel adding the load.

Note

After saving the load Load Manager will be updated with the Load and the Load information screen displays.

Viewing the Load Ticket in Ticket Manager:

The Load Ticket is displayed in Ticket Manager with an initial status of Load Ticket. The number of batches correspond to the number of compartments used in the load. The batches can be run like a normal ticket batch but the Resize Load and Delete are unavailable.

16.4. Searching for a Load

To search for a Load:

- 1. Go to Load Manager.
- 2. In the search field enter the **Load ID** and press enter; The required Load displays.

	oad I	Vanager	٩
New			Reset Filter/Sort
Load Id	Status	Status Date	Load Ticket
1	New	6/18/2023 11:21 PM	000000224
2	New	6/20/2023 7:21 AM	000000225
3	New	6/26/2023 1:16 AM	000000226
4	New	6/26/2023 2:37 AM	000000227
5	New	7/11/2023 4:08 AM	000000229

16.5. Editing a Load

To edit an existing Load:

- 1. Go to Load Manager.
- 2. Search for the Load in the search field or select the required load from the list.

Note

When the Load is selected the Load Ticket screen displays.

1								🗹 Edit	C	~	×
Lo 00	ad Ticket 00000224	4									
	Load Id	Status	Tickets	Amount	Compartment Capacity	Compartment	Batch Id				
	1	New	000000161,000000162	2,000.0 lb(US)	2,000.0 lb(US)	1	388				
	2	New	00000162	2,000.0 lb(US)	2,000.0 lb(US)	2	389				
	3	New	00000162	2,000.0 lb(US)	2,000.0 lb(US)	3	390				

- 3. From the Load Ticket screen select Edit; The Load Summary screen displays.
- 4. Edit the Load as required:
 - a. Select Tickets to change the tickets forming the Load; The Select Ticket screen displays.
 - b. Select **Compartments** to change the vessel compartments required; The **Select Vessel and Compartment** screen displays.
 - c. Select the change the amount of the Load.
- 5. Select **Save** to save the changes or **Cancel** to cancel the changes.

16.6. Deleting a Load

To delete a Load:

- 1. Go to Load Manager
- 2. Search for the Load ID in the search field.
- 3. Select the required Load from the list; The **Load Ticket** screen displays.

1								🗹 Edit	C 🗸 🗙
Lo O(Load Ticket 000000224								👕 Delete
	Load Id	Status	Tickets	Amount	Compartment Capacity	Compartment	Batch Id		
	13	New	000000161,000000162	2,000.0 lb(US)	2,000.0 lb(US)	1	401		
	14	New	000000162	2,000.0 lb(US)	2,000.0 lb(US)	2	402		
	15	New	00000162	2,000.0 lb(US)	2,000.0 lb(US)	3	403		

4. Select the drop-down arrow; The **Delete** confirmation prompt displays.

Delete?	
Are you sure you want to delete '1'?	
	Cancel Delete

5. Select **Delete** to delete the Load or **Cancel** to cancel the deletion.

17. Viewing Alerts

To view alerts:

1. Go to Alerts.



- 2. The system displays the Alerts window:
 - Maintenance Alerts
 - Robot and Agronomy Alerts

💥 Mainten	ance Ale	erts	,
Code Status Days O	verdue		
😐 Robot & J	Agronom	ny Alerts All - C 😂 Mark All	As Read
Date Robot & A	Agronom	All C Sark All	As Read
Date B /2/2021 4:44:18 PM	Agronom _{Type} Robot	All C Message Both the PLC sent blend reading and the direct read data have issues. This could be indicative of a hardware issue.	As Read Read
Date Robot & A 3/2/2021 4:44:18 PM 3/2/2021 4:31:27 PM	Agronom _{Type} Robot Robot	All C Message Both the PLC sent blend reading and the direct read data have issues. This could be indicative of a hardware issue. Could not find a batch record: Enter Ticket Number	As Read
Date 3/2/2021 4:44:18 PM 3/2/2021 4:31:27 PM 3/1/2021 10:39:35 AM	Agronom Type Robot Robot Robot	All C Message Both the PLC sent blend reading and the direct read data have issues. This could be indicative of a hardware issue. Could not find a batch record: Enter Ticket Number The sendStagedHoppers() method is not implemented in the Yargus Declining Weight version 3.	As Read Read
EDate B/2/2021 4:44:18 PM 3/2/2021 4:31:27 PM 3/1/2021 10:39:35 AM 2/15/2021 4:47:06 PM	Agronom Type Robot Robot Robot Robot	All C C Mark All Message Both the PLC sent blend reading and the direct read data have issues. This could be indicative of a hardware issue. Could not find a batch record: Enter Ticket Number The sendStagedHoppers() method is not implemented in the Yargus Declining Weight version 3. Process DW 3 could not read tank infoSelected overhead tank 0 is not valid.	As Read
Date 3/2/2021 4:44:18 PM 3/2/2021 4:31:27 PM 3/1/2021 10:39:35 AM 2/15/2021 4:47:06 PM 2/9/2021 1:26:22 AM	Agronom Type Robot Robot Robot Robot Agronomy	All C Message Message Both the PLC sent blend reading and the direct read data have issues. This could be indicative of a hardware issue. Could not find a batch record: Enter Ticket Number The sendStagedHoppers() method is not implemented in the Yargus Declining Weight version 3. Process DW 3 could not read tank infoSelected overhead tank 0 is not valid. No agronomy plugin selected.	As Read
Content Content	Agronom Type Robot Robot Robot Robot Agronomy Robot	All C Message Message Both the PLC sent blend reading and the direct read data have issues. This could be indicative of a hardware issue. Could not find a batch record: Enter Ticket Number The sendStagedHoppers() method is not implemented in the Yargus Declining Weight version 3. Process DW 3 could not read tank infoSelected overhead tank 0 is not valid. No agronomy plugin selected. No communication with DW 4.2	As Read

Note

Robot and Agronomy Alerts can be sorted (Date, Type Message, Read), filtered (All, Read, Unread), and marked as Unread (unchecked) or Read (checked).

18. Reports

The Reports menu allows the user to create and view reports about past production and product use.

Report Name					
Batch History Report					
Batch History Report					
Customer Product Usage Report					
Daily Product Report					
Nutrient Analysis Report					
Projected Inventory Report					
Vessel Report					

18.1. Batch History Report

The Batch History Report is the report version of the Batch History tab. The report shows batch-related information for all processed batches within the date range selected.

To generate a Batch History report:

1. Go to **Reports > Batch History Report**.

A	🖯 属 Plant Manag	jer	💄 CXTech 🗸 📄 View 🗸 🔒 0 Alerts	- @ ×
≡		🖻 Reports		G
=	Ticket Manager	Report Name Batch History Report Generate Report		
	Load Manager	Report Filters		
Ĵñ	Products	Search From Date	To Date	
٣	Nutrients	Expert Format	12/3/2024	14
T	Valve Settings	Group Like Products		
Ξ	Recipes	Showing 8 of 8 Records		
Ê	Formulation Groups	Export Date Ba Ticket Id Customer Batch Id Batch Name	Requested Amount Actual Amount	Status
Ë	Batch History	✓ 11/20/2024 4:39 PM 8 000000169 Tom 236 Tom-000000169-1	6,000.0 lb(US) 6,010.0 lb(US)	Completed
Ú	Reports	✓ 11/20/2024 4:38 PM 7 000000167 Tom 234 Tom-000000167-1	6,000.0 lb(US) 6,000.0 lb(US)	Completed
2	Partners	✓ 11/20/2024 4:37 PM 6 000000166 Tom 233 Tom-000000166-4	1,490.0 lb(US) 1,495.0 lb(US)	Completed
×	Equipment	✓ 11/20/2024 4:37 PM 5 000000166 Tom 232 Tom-000000166-3	1,490.0 lb(US) 1,490.0 lb(US)	Completed
	Vessels	Deselect All Batches Selected For Export: 8	Select All	
2	Crops			→ Export

Item	Description
Export Format	The export format determines how a product appears in the report if a particular product is run multiple times through the same valve on one batch.
Group Like Products	Creates one line item with the sum of the product runs.
Separate Like Products	Creates a line item for each time that product has been run.
Include Load Ticket	A load ticket is a set of combined tickets that are treated as one ticket.
	Select Include Load Ticket to add line items for every load batch that has been completed on the load tickets and duplicate those batches.
	Uncheck Include Load Ticket to only show those batches once in the report even if they are part of a load ticket.
Deselect All/ Select All	Selects or deselects the batches in the list. Select individual batches to export as reports.

- 2. Enter the From Date and To Date to generate a time-specific report.
- 3. Select Group Like Products or Separate Like Products from the drop-down box.
- 4. Select Include Load Tickets as required.
- 5. Select **Generate Report**.; The selected Batch History Record displays.

18.2. Customer Product Usage Reports

This report contains the following information: Ticket ID, Batch Name, Dispensing Location, Customer, Ship to, Ship to Address, Ship to City, Ship to State, Ship to Zip Code, Carrier, Driver, Total Gallons (US), Total Pounds (Ib US)

Note

See Section 21.4.2 – E-mail Alerts and Reports on page 205 to set up automatic report e-mails.

To generate, print, and export a Customer Product Usage Report:

1. Go to **Reports > Customer Product Usage Reports**.

Reports			C
Report Name Customer Product Usage Report			
Report Filters			
Customer	From Date	To Date	
All Customers 🔹	11/14/2024	11/17/2024	14
Mass Unit of Measure	Volume Unit Of Measure		
lb(US)	gal(US)		*
Product Totals in Unit of Measure Set for Printing (if not set then will use Mass or Volume Unit c	f Measure) NERATE		
	_		
PRINT		EXPORT	

Note

Product Totals (mass and volume) may be set manually for report purposes. If the **Product Totals in Unit for Measurement Set for Printing** box is checked, the report will generate mass and volume measurements as set in the **Printing Settings**.

- 2. Select All Customers or a specific Customer.
- 3. Select From Date and To Date to enter the report date range.
- 4. Select **Generate**; The system displays the requested **Customer Product Usage** information for the selected date range.

Note

The report data can be sorted by each column. Click on the column headings to sort by that column.

5. Select **Print** to print the report.

M					-		×
Printer	θQ		= =				
Microsoft Print to PDF 🔹	• •						_
Pages							
All Pages 🔹							
Layout							
Portrait 🔹					Customer Pro 11/1/2024 -	duct Usa 11/20/20	je 24
Color					Report created:	11/20/20	24
Color 🔹	Date	Ticket Id	Batch Name	Status	Dispensing Locati	on	Ci
•	11/20/2024 4	26 PM 000000165	Curtaria 000000165 0	Constant			-
Scale	11/20/2024 4:	26 PM 000000165	Customer-000000165-2	Completed		(J
No Scaling 🔹	11/20/2024 4:	25 PM 000000165	Customer-000000165-1	Completed		(ι
Page Size							
Letter •							
Margins							
Normal 🔹							
~	•						
🔒 Print Cancel	Page 1 / 3						M

- 6. Select **Export** to save the report.
- 7. Select the Save to Location then name the report in Save As.
- 8. Select **Export** to save the file to the location.

18.3. Daily Product Reports

To generate a Daily Product Report:

1. Go to **Reports > Daily Product Report**.

2. Select **Generate Report**, and browse to a folder where the report can be saved as a pdf.

Browse For Folder			×
Dedter			•
> ConeDrive			
Reports			
🔉 🧢 This PC			
> 🤌 Network			
			\sim
<		>	
Make New Folder	ОК	Cancel	

3. Select Ok.

Active Products-Low Inv	ventory	ally Product	кероп	11/20/2024 4:47 P
Product	External Id	Ongoing Total	Reorder Level	Reorder Qty
Liquid 1	Liquid 1	0 gal(US)	20,000.0	
Chem Water	Chem Water	998,230.806 gal(US)	1,000,000.0	
00-00-62	Potash	16,248 lb(US)	70,000.0	20,000.0

18.4. Nutrient Analysis Report

The **Nutrient Analysis report** shows the actual percentage content of nutrients for each batch that has been run. The report also shows the thresholds set for those nutrients, and if the batches run meet the threshold, or not. The report gives ticket level information.

To generate, print and save a Nutrient Analysis report:

1. Go to: Reports > Nutrient Analysis Report

Report Name		
Nutrient Analysis Report	🖹 Generate Report	
Report Filters		
From Date 12/13/2022	To Date	14
Select Tickets to Report		

2. In the **Report Filters** section, select the **From Date** and **To Date** dates for the report time range; a list of Tickets run during the selected date range displays.

Select Tickets to Report
 000000159 000000218 ✓ 000000218 111

3. Select the required Ticket by checking the box, and select **Generate Report**; the report displays.

						Site:		
				Blendi	ng Pi	roduction Re	port	
								_
Ticket Info								
Ticket Id		00000218		Date	•		6/13/2022 4:44 PM	
				Tick	et Ton	s Required	0.4309]
				Tick	et Ton	s Produced	0.4536	
Recipe Info Recipe Name Grade : Batch Size : S Number of B Raw Material	2: 950.0000lb(US) atches Required : 1 Information							
R.M. Code	Raw Material Name	e % Batch	Q (KG)	Total Req	То	tal Real		
6210	0-0-60 Potash	52.6316	238.7328	500 lb(US	5) 52	6.3158 lb(US)		
6510	18-46-0 DAP	47.3684	214.8595	450 lb(US	6) 47	3.6842 lb(US)		
	Total	100.0000	453.5924	950 lb(US	6) 1,0	000 lb(US)		

4. Select **Print** to save the report as a pdf file, or print the report.

Nutrient Analysis Report Sections

		Re	eport	Sectior	۱				Description
Ticket	Informat	ion					_	Inc	ludes:
Ticket Info							1		
Ticket Id	0000	00010		Date		1/9/2023 9:14 AM		•	Ticket ID
				Ticket Tons Pro	duced	0.9067			Data and time of run
							' <u> </u>	•	
								•	Required, and actual tons produced
Recipe	Informat	tion						Inc	ludes:
Recipe Info									Decine name
Grade : 33-0-0								•	Recipe name
Batch Size : 50	0.0000lb(US)							•	Grade: The requested Blend Analysis. For example
Number of Bat	ches Required : 4								$10-15-30-3Ca-2M\sigma$
Raw Material Ir	nformation								10-15-50-5Ca-21vig.
R.M. Code	Raw Material Name	9% Batch	Q (KG)	Total Req	Total Real			•	Batch size
Ethan Produc	ct Test Product	50.1001	454.2728	999.75 lb(US)	1,001.5 lb(US)			
1310000	UREA 46-0-0 BU	49.8999	452.4584	999.75 lb(US)	997.5 lb(US)			•	Number of Batches Required in the run.
	Total	100.0000	906.7311	2,000 lb(US)	1,999 lb(US)			•	Paw Material Information: The amount of
							<u>'</u>	•	naw Material mornation. The amount of
									products in the batch.
									- R. M. Code: The specific product's code.
									 Raw Material Name: The product's name.
									 % Batch: The percentage of the product in the batch.
									 Quantity: in kg

Report Section	Description
	 Total Req: Total weight of the product required.
	 Total Real: The actual amount of product in the blend.
Code # Rev Material Content Image: Code # Rev Material 1 2 1 4 0 5 6 7 # 9 10 Itam Product Test Product 111.3391 114.0795 181.4369 4	 Includes: Code #: The specific code assigned to the product. Raw Material: The product added to the blend. The green icon indicates that the batch met the nutrient threshold for all nutrients. The red icon indicates that the batch did not meet the nutrient threshold for at least one nutrient.
% Nutrient Trends Line Graph	 The line graph shows the nutrient percentage trends for a specific batch (Single Batch, yellow line), and the cumulative nutrient percentage for all batches in the blend (Total Batch, red line). Includes: Max: The maximum threshold set for that specific nutrient. Single Batch: Shows percentages for the specific batch. Total Batch: Shows the percentage for all batches in the blend. Min: The minimum threshold set for that specific nutrient.
Ticket-Nutrient Result Grade Thresholds Nutrient %(p/p) Real Grade Produced Min Nom Max Nitrogen %N © 32.97 30 33 36 Phosphorus %P	 Includes: Nutrient (name) % (p/p): The abbreviation for the specific nutrient.
Potassium %K Calcium %Ca Magnesium %Mg Sulfur %S Boron %B Counter % %Cu	• Real Grade Produced: The actual blend analysis. Compare the actual blend to the requested blend analysis (Grade) at the top of the report.
Lopper %LU Iron %Fe Manganese %Mn Zinc %Zn	 Grade Thresholds (Min, Nom, Max): The maximum and minimum threshold set for the specific nutrient.
Comments	Operator comments about blends and report.

18.5. Projected Inventory Report

The Projected Inventory Report shows the following:

- The actual amount of each product in the user's Current Inventory.
- The total expected **Requested Amount** for each product based on all tickets that are not yet completed.
- The Amount Short or difference between the current and requested amounts of product.

To generate a Projected Inventory Report:

1. Go to Reports > Projected Inventory Report.

🕏 Reports		
Report Name		
Projected Inventory Report	•	🖺 Generate Report

- 2. Select Generate Report; The Browse Folder box displays.
- 3. Navigate to the required Save folder and select **OK**.

IS PC				$^{\circ}$
3D Objects				
Desktop				
Documents				
Downloads				
Music				
Pictures				
Videos				
05 (C)				
O3 (C.)				\sim
			>	
v Folder	OK		Cancel	
	is PC 3D Objects Desktop Documents Downloads Music Pictures Videos OS (C:)	is PC 3D Objects Desktop Documents Downloads Music Pictures Videos OS (C:) v Folder OX	is PC 3D Objects Desktop Documents Downloads Music Pictures Videos OS (C:) v Folder OK	is PC 3D Objects Desktop Documents Downloads Music Pictures Videos OS (C:) Velder OK Cancel

4. Go to the saved file in the folder and open the report.

Date: 11/26/2024 1:04 PM

Projected Inventory Report

Page: 1

Product Name	Requested	Current Inventory	Inventory Units		Amount Short
00-00-62	0	16248	Ib(US)	OK	0
11-52-00	8000	0	Ib(US)	SHORT	8000
32-0-0	0	90000	gal(US)	OK	0
46-00-00	0	0	lb(US)	OK	0
48-0-0	0	0	ton(US)	OK	0
Chem Water	0	998230.806	gal(US)	OK	0
Dry product 1	0	98899.044	Ib(US)	OK	0
Dry Product 2	0	175792.929	lb(US)	OK	0
Ethanol	0	110000	gal(US)	OK	0
Liquid 1	0	0	gal(US)	OK	0
Liquid 2	0	0	gal(US)	OK	0
MP 2	0	0	gal(US)	OK	0
Potash	4000	0	Ib(US)	SHORT	4000
WATER	0	0	fl oz(US)	OK	0

18.6. Vessel Reports

Vessel Reports can be generated for specific vessels or all vessels within a date range, and include; Vessel Name, Vessel ID, Vessel Type, Driver Name, Driver ID, Ship From, Ticket ID, Customer, Batch Name, Date Ship to (shipping details), Acres, Actual Amount,

To generate a Vessel Report:

1. Go to **Reports > Vessel Report**.

AGI 😹 Plant Manag	jer						2	CXTech 🗸	🖹 View 🗸 🛕 0 Ale	erts 🗕 🛛	5 ×
=	🖻 Reports										C,
Ticket Manager	Report Name Vessel Report	•									
🍽 Load Manager	Report Filters										
₩ Products	Vessel										_
Y Nutrients	From Date					To Date					•
▼ Valve Settings	11/17/2024				14	11/20/2024					14
I≡ Recipes					3 Vessels Re	ecords in List					
Formulation Groups	Vessel Name Vessel Id	Vessel Type	Driver Name	Driver Id	Compartment Nar	me Ship From	Ticket Id	Customer	Batch Name	Load Ticket	Date
Batch History	Test Truck 1	Transport	Driver 2				000000169	Tom	Tom-000000169-1		11/;
Reports	Test Truck 1	Transport	Driver		TTC 1		000000167	Tom	Tom-000000167-1		11/3
Partners	Applicator 1	Applicating	Driver 2		app comp 1		000000167	Tom	Tom-000000167-1		11/
🗶 Equipment											
Second Se	4			-							Þ
Crops										→ Expo	rt

- 2. Select All Vessels or a specific Vessel.
- 3. Select From Date and To Date to enter the report date range.
- 4. Select **Export** to save the report in .csv format.

Export Data for Vessel Report - All Vessels		
Save To Location		
Save As		
AGI SureTrack Plant Manager Vessel Report - All Vessels-6.15.2021 12.34 AM		.csv
	Cancel	Export

5. Select **Ok** to save the file in the required location.

Browse For Folder		\times
Desktop		^
> 🥌 OneDrive		
> 瀺 josh		
> 🍠 This PC		
> 🠂 Libraries		
> 🥩 Network		
<		>
Make New Folder	ОК	Cancel

19. Touchscreen Mode

19.1. Touchscreen Overview

Touchscreen Mode is usually used by Operators and Drivers on site at the plant.

To enter Touchscreen Mode select Touchscreen Mode from the top green ribbon.

Touchscreen Mode 🙎 AGITech 🖌 🖺 View 🗸

Key Pad

Use the screen key pad to enter data.

Clear	q	w	е	r	t	у	u	i	0	р		7	8	9
Tab	a	s	d	f	g	h	j	k	1		L L	4	5	6
CAPS	-	z	x	с	v	b	n	m	•	()	1	2	3
Sh	Shift Space						Sh	ift		0				

Entry Method Screen

Select an Entry Method to process the batches: Ticket ID, by Recipe, by Amount per Area, and by Total Amounts.

Important

To process batches in Touchscreen Mode using the four different entry methods, follow the initial steps for each entry method (see the following sections) then refer to the Ticket ID entry section to complete the steps.

Entry Method

Ticket Id
Recipe
Amount Per Area
Total Amounts

Item	Description
Exit Touchscreen	Select to return to normal mode.
Cancel	Select to cancel action and return to previous screen.
Entry Method: Ticket ID	Select to process batch by ticket ID.
Entry Method: Recipe	Select to process batch by recipe
Entry Method: Amount per Area	Select to process batch by amount per area
Entry Method: Total Amounts	Select to process batch by total amounts

19.2. Processing by Ticket ID

To Process by Ticket ID:

1. Go to Touchscreen Mode > Entry Method > Ticket ID.

Entry Method					
Ticket Id					
Recipe					
Amount Per Area					
Total Amounts					

2. Search for the ticket in the **Select Ticket** * field, or select the ticket from the list.

Note

Search by Ticket ID, Release Number, Customer, or Status. Sort tickets using the column filter by clicking on each column.

AGI SP	lant Manage	r		💄 AGITech 🗸 🖹 View 🗸	🛦 7 Alerts 🛛 🗕	• ×
Exit Touch	screen	Entr	y By Ticket Id		Cancel	
Select Ticket	×					
						Q
Ticket Id	Release Number	Customer	Status			
000000160		Arndt Angus LLC	New			* *
		↑		\checkmark		
Selected Tick	et:				c	lear

3. Click Next to move to the Product Details screen.

Exit Touchscreen			Cancel	
Total Amount 1,000 lb(US)		Batch Quantity 1	# Draft Batches 1	
Product Name	Amount	Units		
0-0-60 Potash	300.64	lb(US)		
18-46-0 DAP	392.36	lb(US)		
21-0-0-24s AMS Granular	126.19	lb(US)		
46-0-0 Urea	180.81	lb(US)		

Note

Select Back to return to the previous screen, or Cancel to return to the Entry Method screen.

4. Click Next; The Customer screen displays.

AGI Plant Manager		🚨 AGITech 🗸 🗎 View 🗸 🛛	A 7 Alerts	- 1	□ ×
Exit Touchscreen	Customer		Car	ncel	
Arndt Angus LLC					

5. Select the **Customer** from the list, then click **Next**; The **Carrier** screen displays.

Exit Touchscreen	Carrier	Cancel
Name	↑ Code External Id	

- 6. Select the **Carrier** from the list, or enter the carrier details in the search field.
- 7. Click Next; The Transport Driver screen displays.

AGI SURE	RACK Plant Manager	💄 AGITech 🗸 🗎 View 🗸 📔	🛦 30 Alerts 🛛 🗕	• ×
Exit Touchscreen	Transport Driver		Cancel	
Select Transport Driv	/er			
Search by Name \	Code \ External Id			Q
↑ Code	External Id			
Test Driver	888			

- 8. Select the **Transport Driver** from the list or enter the driver details in the search field.
- 9. Click Next; The Fertilizer Process screen displays.

AGI S Plant Manager		💄 AGITech 🗸 🖹 View 🗸 🛛	🛕 7 Alerts 🛛 🗕		×
Exit Touchscreen	Fertilizer Process		Cancel		
Select Fertilizer Process *					
				Q	
FERT MIXER					
RETAIL MIXER					

10. Select Fert Mixer or Retail Mixer, or search for the fertilizer process in the search field.

11. Click Next; The Fertilizer Loadout screen displays.

AG 🔄 Plant Manager		💄 AGITech 🗸 🖺 View 🗸 🛛	A 7 Alerts	□ ×
Exit Touchscreen	Fertilizer Loadout		Cancel	
Select Fertilizer Loadout *				
				Q
BOTTOM FILL				
TO 11-37				
TO OH 1				~
^		\checkmark		
Selected Fertilizer Loadout:BOTTOM FILL			c	lear

- 12. Select the Fertilizer Loadout from the list or enter the details in the search field.
- 13. Click Next; The Chemical Process screen displays.

AG 🚝 Plant Manager 🗌 👘		💄 AGITech 🗸 🖺 View 🗸	🛕 7 Alerts 📃 🗕	= ×
Exit Touchscreen	Chemical Process		Cancel	
Selected Chemical Process CHEM				

- 14. Select the **Chemical Process** from the list.
- 15. Click Next; The Chemical Loadout screen displays.

AG 🧲 Plant Manager 📘		💄 AGITech 🗸 🗎 View 🖌 🛛	🛕 7 Alerts 🛛 🗕 🛛	⊐ ×
Exit Touchscreen	Chemical Loadout		Cancel	
Selected Chemical Loadout TO MIXER				

- 16. Select the required **Chemical Loadout** from the list.
- 17. Click Next; The Valve Info screen displays.

AGI 🕿 Plant M	lanager 🛛			🚨 AGITech 🗸 🖹 View 🗸 🛛	🛕 7 Alerts 🛛 🖾 🌱 🗙
Exit Touchscreen			Valve Info		Cancel
Select Process(es)					
✓ RETAIL MIXER					
CHEM					
Process	↑ Product	/alve Id	Use this Valve		
CHEM	MAP	2			Î
CHEM	POTASH	3			
CHEM	ZN	4			
	1			¥	

18. Select Retail Mixer or Chem, then check the appropriate Use this Valve box.

19. Click Next; The Make Batch confirmation screen displays.

AGI Plant	Manager		💄 AGITech 🗸 🖺 View 🗸	🛦 8 Alerts 🛛 –	×
Exit Touchscreer	n	Make Batc	h	Cancel	
Ticket Id 000000219		Batch Id 384	Process PO		
Total Amount 1,200 lb(US)		Batch Quantity 1			
Product Name	Amount	Units			
0-0-60 Potash	500	lb(US)			
18-46-0 DAP	700	lb(US)			
	Back		Make a Batch		

20. Select Make a Batch; the batch processing info message displays.



19.3. Processing by Recipe

1. Go to Touchscreen Mode > Entry Method > Recipe.

Entry Method
Ticket Id
Recipe
Amount Per Area
Total Amounts

2. Search for the recipe in the Select Recipe * field, or select the recipe from the list.

AGI 😹 Plant II	lanager		💄 AGITech 🗸 🗎 View 🖌	🛕 7 Alerts 📔 🗕	• ×
Exit Touchscreen		Entry By Recipe		Cancel	
Select Recipe *					
					Q
Recipe Name 🛧 Re	есіре Туре				
Michel Recipe A	mount of Product Per Ton				Ĵ
	↑		\checkmark		
Selected Recipe:				c	lear

Note

Depending on the recipe type (amount of product, or percentage of product), enter the recipe **Total Amount** or **Total Weight**.

3. Click Next to move to the Recipe - Total Amount or Recipe-Total Weight screen.

Note

Select Back to return to the previous screen, or Cancel to return to the Entry Method screen.

AGI SURETI	ACK Plant Manager AGTech v 🖺 View v 🚺	A 30 Alerts	- 0	×
Exit Touchscreen	Recipe - Total Amount	Cance	el	
Enter Total Amount *				
0			lb(US))

4. Enter the total amount or total weight required.

After entering the total weight or total amount, follow the steps in Section 19.2 – Processing by Ticket ID on page 172 (from step 3 Enter Product Details) to complete the batch processing.

19.4. Processing by Amount per Area

From the Entry Method screen, select Amount per Area.

1. Go to Touchscreen Mode > Entry Method > Amount per Area.

Entry Method
Ticket Id
Recipe
Amount Per Area
Total Amounts

2. Enter the **Total Area** * in the field.

AC Selant Manager		💄 AGITech 🗸 🖺 View 🗸 🛛	🛕 7 Alerts 🛛 🗕 🔍 🗙
Exit Touchscreen	Entry By Area		Cancel
Enter Total Area *			
0			acre(US)

3. Click Next; The Enter Products Amount screen displays.

C 🔄 Plant Manager	1	💄 AGITech	~ 📔 View ~ 🛛 🛕 7 Alerts 📔 🗕	= ×
Exit Touchscreen	Enter Pro	duct Amounts	Cancel	
Enter Product Amounts *				
Product Name	Amount Per Area	Units		
0-0-60 Potash	0	lb(US)		Î
0-0-62 MUR/POT GRAN BULK	0	lb(US)		
18-46-0 DAP	0	lb(US)		1
18-46-0 DAP BULK	0	lb(US)		
21-0-0-24s AMS Mid-Grade	0	lb(US)		
21-0-0-24s AMS Granular	0	lb(US)		
44-0-0 Esn	0	lb(US)		
46-0-0 Urea	0	lb(US)		Ŧ
↑			\mathbf{v}	
			Clear	All

4. Enter the product amounts required and click Next; The Customer screen displays.

After entering the total weight or total amount, follow the steps in Section 19.2 – Processing by Ticket ID on page 172 (from step 3 Enter Product Details) to complete the batch processing.

19.5. Processing by Total Amounts

1. Go to Touchscreen Mode > Entry Method > Total Amounts.



2. On the Enter Products Amounts screen, enter the required amount of products, and click Next.

AGI 🔄 Plant Manager		💄 AGITech 🗸 🖺 View 🗸	🛕 7 Alerts 🛛 🗕 🔍 🗙
Exit Touchscreen	Enter Product A	Amounts	Cancel
Enter Product Amounts *			
Product Name	Amount Per Area	Units	
0-0-60 Potash	0	lb(US)	Î
0-0-62 MUR/POT GRAN BULK	0	lb(US)	
18-46-0 DAP	0	lb(US)	
18-46-0 DAP BULK	0	lb(US)	
21-0-0-24s AMS Mid-Grade	0	lb(US)	
21-0-0-24s AMS Granular	0	lb(US)	
44-0-0 Esn	0	lb(US)	
46-0-0 Urea	0	lb(US)	Ŧ
↑		*	
			Clear All

After entering the total weight or total amount, follow the steps in Section 19.2 – Processing by Ticket ID on page 172 (from step 3 Enter Product Details) to complete the batch processing.

20. Valves

Valve settings are used to view and configure Valves on a connected Process.

Go to Valve Settings.

AGI 🖉 Plant Manag	ger	💄 aarongorsuch 🗸 🖺 View 🗸	🛕 0 Alerts 🗕 🗗 💙
=	Valve Settings		C
Ticket Manager			•
🎜 Load Manager	Valves		
₩ Products			
Y Nutrients			
▼ Valve Settings			
I ≡ Recipes			
Formulation Groups			
Batch History			
Reports			
😩 Partners			
🗙 Equipment			
Vessels			
🞜 Crops			
Application Types			
≜₀ Staff			
Settings			
😧 Help			

20.1. Viewing and Configuring Individual Valves

To view and configure individual valves:

1. Go to Valve Settings and select the required process from the drop-down list.

ACI 🚝 Plant Mana	ger				_ a	arongorsuch 🗸 📄 View 🗸 🛛	🛕 0 Alerts 🗕 🗗
=	T Valve Setting	IS					С
Ticket Manager	Process Demo						• Stage Hoppe
🋤 Load Manager	Show Density Converter Wh	nen Sending to PLC					
₩ Products	Valves						
Y Nutrients	Valve 1:	Valve 2:	Valve 3:	Valve 4:	Valve 5:	Valve 6:	
▼ Valve Settings	Valve 7:	Valve 8:					
I≡ Recipes							
Formulation Groups							
Batch History							
Reports							
🛎 Partners							
🔀 Equipment							
R Vessels							
a Crops							
Application Types							
🍰 Staff							
Settings							
😧 Help							

2. Select a numbered valve button to view or configure the valve information and settings.

Note

Select Show Density Converter When Sending to PLC to show the Density Converter.

Valve Settings			
Process Demo			
Show Density Converter When Sending to PLC			
Density Converter			
Density			
From Unit To Un	nit		
× •	× •		
CLEAR	CONVERT		
Valve1			
--------------------------------------	----------------------------	----------	---------
Valve Name			
Associated Product			
			•
Density Converter			
Density	From Unit	To Unit	
	× ·	-	× •
CLEAR			CONVERT
Valve Settings			
Current Pulk Density	Use Bulk Density		
60			•
	Use Volume Constant-Single		
60,000			•
	Use Volume Constant-Dual		
Current Volume Constant-Dual 100.000			•
		Cancel	Send

Setting	Description
Valve Name	A user-defined name for the valve.
Associated Product	The product dispensed by the valve. The available choices are all active products.
Product Bulk Density	The bulk density of the dispensed product, as defined for that product in the Products menu.
Current Bulk Density	The current bulk density for the dispensed product (generally always the same as Product Bulk Density).
Use Bulk Density	Used to enter a value to set a new bulk density value that will take effect when the user clicks on Send .
Current Volume Constant -Single	The current flow-calibration number for the valve. For single- state and dual-state valves, this represents the calibration number for the lower of the two dispensing rates.
Use Current Volume Constant -Single	Used to enter a value to set a new Volume Constant-Single flow-calibration number.

Setting	Description
Current Volume Constant -Dual	The current flow-calibration number for the valve. For dual- state valves, this represents the calibration number for the higher of the two dispensing rates.
Use Current Volume Constant -Dual	Used to enter a value to set a new Volume Constant-Dual flow-calibration number.

- 3. Enter the valve details.
- 4. Select **Cancel** to cancel any changes made to the valve's settings or **Send** to send the new settings to the Process Robot. You cannot cancel changes after clicking on **Send**.

Note

The Save function does not apply to valve settings. If you click on **Save**, the system will save any unsaved changes from other Settings Tabs, but Valve settings are unaffected.

20.2. Viewing and Configuring Multiple Valves

To view and configure individual valves:

1. Go to Valve Settings and select the required process from the drop-down list; The list of valves displays.

AGI Viant Mana	ger					aarongorsuch 🗠 📄 View 🗠 📔	A 0 Ale
≡	Valve Settin	gs					
Ticket Manager	Demo						•
🖶 Load Manager	Show Density Converter W	/hen Sending to PLC					-
🎾 Products	valves						
Y Nutrients	Valve 1:	Valve 2:	Valve 3:	Valve 4:	Valve 5:	Valve 6:	
▼ Valve Settings	Valve 7:	Valve 8:					
I≡ Recipes							
Formulation Groups							
Batch History							
Reports							
🛎 Partners							
🗶 Equipment							
Vessels							
💋 Crops							
Application Types							
🍰 Staff							
Settings							
😧 Help							

2. Check the **Stage Hoppers** check box; The detailed list of valves displays.

Valves					
1	2		3		
Valve Name	Valve Name		Valve Name		
Associated Product	Associated Product		Associated Product		
•		-		-	
Valuma Constant-Singla Valuma Constant-Dual	Volume Constant-Single	Volume Constant-Dual	Volume Constant-Single	Volume Constant-Dual	
60000 ID0000 ID00000 ID0000 ID00000 ID0000 ID00000 ID00000 ID00000 ID00000 ID00000 ID00000 ID00000 ID00000 ID000000 ID00000000 ID0000000000	60000 ·	100000 -	60000 ·	100000 ·	
PLC Bulk Dencity	PLC Bulk Density		PLC Bulk Density		
		-		-	
Reset to Current		Reset to Current		Reset to Current	
4	5		6		
Valve Name	Valve Name		Valve Name		
Associated Product	Associated Product		Associated Product		
		•		•	
Volume Constant-Single Volume Constant-Dual	Volume Constant-Single	Volume Constant-Dual	Volume Constant-Single	Volume Constant-Dual	
60000 · 100000 ·	60000 -	100000 -	60000 -	100000 -	
PLC Bulk Density	PLC Bulk Density		PLC Bulk Density		
		•		.	
Reset to Current		Reset to Current		Reset to Current	
7	8				
Malein Manua	V-L. Klassa				

Note

Select Show Density Converter When Sending to PLC to show the Density Converter.

Valve Settings				C
Demo			•	✓ Stage Hopper
Show Density Converter When Sending to PLC				
Density Converter				
Density				
From Unit	To Unit			
×	•	× •		
CLEAR		CONVERT		

- 3. Select one or more valves using the valve number check boxes; The Send Staged Hoppers button displays.
- 4. Enter the valve details.

1		2			3	
Valve Name		Valve Name			Valve Name	
Associated Product		Associated Product			Associated Product	
	•			•		•
Volume Constant-Single Volume Constant-Dual		Volume Constant-Single	Volume Constant-Dual		Volume Constant-Single	Volume Constant-Dual
60000 - 100000	•	60000 •	100000	•	60000 •	100000 -
PLC Bulk Density		PLC Bulk Density			PLC Bulk Density	
	•			•		•
Reset to Curre	nt		Reset to Curr	ent		Reset to Current
		Send	Staged Hoppers			

Setting	Description
Valve Name	A user-defined name for the valve.
Associated Product	The product dispensed by the valve. The available choices are all active products.
Volume Constant -Single	The current flow-calibration number for the valve. For single- state and dual-state valves, this represents the calibration number for the lower of the two dispensing rates.
Use Current Volume Constant -Single	Used to enter a value to set a new Volume Constant-Single flow-calibration number.
Current Volume Constant -Dual	The current flow-calibration number for the valve. For dual- state valves, this represents the calibration number for the higher of the two dispensing rates.
Use Current Volume Constant -Dual	Used to enter a value to set a new Volume Constant-Dual flow-calibration number.
PLC Bulk Density	The current bulk density for the dispensed product (generally always the same as Product Bulk Density). To change the current value, enter a new number. The new value will become current when the setting is saved and sent to the Process Robot.

5. Select **Cancel** to cancel any changes made to the Valve's settings or click **Send Staged Hoppers** to send the new settings to the Process Robot.

Note

Changes to valves can not be cancelled after selecting Send Staged Hoppers.

21. Settings

21.1. Robot Settings

Note

After the initial set-up, robot settings do not require further action. The page is locked down for users outside of AGI technicians. Requests to update the process should be made via a support ticket request at csr.commercial@aggrowth.com.

The Robot Plugin Settings section displays the Robot settings for a selected Process.

Robot Plugin Settings				
Process Robot				
Robot Plugin File Path Use Custom Robot Plugin Path				
Selected Robot Plugin				
				*
PLC Measurement System Imperial-UK Imperial-US Metric				
Prevent blend running if any valve target amount is less than the set freefall				
Ethernet IP Address	_			
	~	Update	Ethernet L	ist
Robot IP Address	Number of	of Hopper		_
			Verify	
Demo Connection				
	21/0			

21.1.1 Adding a Process

Note

Adding a process is usually done during the initial set-up of the system.

To add a process:

1. Go to **Settings** > **Robots**.

A	🖻 😹 Plant Manag	jer 🛛			Touc	hscreen Mode	e 🚨 AGITe	ech 🗠 🗎 View 🗸	A 7 Alerts		×
\equiv		Process	Scales	Ticket	Agronomy	Email	Valves	Printing	Touchscreen	Admin	
		Multi-Pro	cess Settings								
	Ticket Manager										
14	Products	Add Pro	cess								
~	FIGURES	Process Na	me						↑ Activ	re	
I	Recipes	77777									Î
Ê	Formulation Groups	Aaron Tes	st								
Ħ	Batch History	Aaron Te	st							1	•
		Robot Plu	igin Settings								
	Reports	Process Robo	ot								
121	Partners	77777									
		Robot Plugin Use Cu	stom Robot Plu	ugin Path							
×	Equipment	Selected Rob	ot Plugin	0							
_	Versela	AGI SureT	rack Plant Man	ager Demo							Ŧ
	vesseis	PLC Measure	ment System								
2	Crops	Impe	rial-UK 💿 I	mperial-US	Metric						
		Ethernet IP A	ddress						V Undata Et	howest list	
•	Application Types								Opdate Et	nemet List	
20	Staff	Robot IP Add	iress					Nun 5	ber of Hoppers	Verify	
		L								,	
۵	Settings							Ð	Save		

Item (* Required Entry)	Description
Process Name	A name for the process.
Robot Plugin File Path	The file path to the custom Robot plugin, if the user is using a custom robot plugin. The plugin is a .dll file.
Use Custom Robot File Path	Check this box if the customer wishes to use a custom Robot plug in.
* Selected Robot Plugin	Allows the user to select a standard Robot plugin.
* PLC Measurement System	Measurement system of the PLC. Facilities in Canada would typically use Metric while facilities in the US would typically use Imperial-US.
Prevent blend running if any valve target amount is less than the set freefall	Automatically prevents the blend from running if valve targets are not met.

Item (* Required Entry)	Description
Ethernet IP Address	The Plant Manager computer's IP address (It should appear in the drop down). Needed for communication with the Robot.
Robot IP Address	IP address of the Robot
Number of Hopper	The number of Hoppers (Valves) connected to the Robot, as verified during the connection process.

2. Select Add Process to create a blank Process entry.

Multi-Process Settings				
Add Process				
Process Name	Ť	Active		
DW 3		✓		
		~	1	

3. Enter the name of the new Process.

Multi-Process Settings	
Add Process	
Process Name	↑ Active
DW 3	✓ 📋
DW 4	✓ 👕

4. Configure the Robot Plugin settings for the Process.

Robot Plugin Settings	
Process Robot	
Robot Plugin File Path Use Custom Robot Plugin Path	
Selected Robot Plugin	
PLC Measurement System Imperial-UK Imperial-US Metric	
Prevent blend running if any valve target amount is less than the set freefall	
Ethernet IP Address	
	 Update Ethernet List
Robot IP Address	Number of Hopper
Demo Connection	

5. Select **Verify** to test the connection between the Plant Manager computer and the Robot.

If connected, the message "Connected" appears below the Robot IP Address, and the Number of Hopper field contains the number of hoppers (Valves) in the connected Robot. If the connection is not successful, the message "Not Connected" is displayed, and the Number of Hopper field is empty.

6. Select **Save** to save the settings.

21.1.2 Deleting a Process

Note

A Process that is referenced in other Plant Manager configuration settings cannot be deleted. For example, a process linked to a ticket cannot be deleted.

To delete a Process:

- 1. Select Settings > Process.
- 2. Click the trash icon of the Process entry to delete.

Note

The system will refuse the command to delete the Process if it is referenced in other Plant Manager configuration settings.

Multi-Process Settings			
Add Process			
Process Name	Ť	Active	
DW 3		~	
DW 4		~	

3. Select Save to save the setting.

21.1.3 Setting a Process as Active/Inactive

To set a Process as active or inactive:

- 1. Go to **Settings > Process**.
- 2. Check the boxes in the Active column for the Process to be set as Active. Uncheck to set as Inactive.

Multi-Process Settings	
Add Process	
Process Name	↑ Active
DW 3	✓
DW 4	✓
	+

3. Select **Save** to save the settings.

21.1.4 Editing Process Settings

- 1. Go to **Settings > Process**.
- 2. Select a Process in the list.

Multi-Process Settings			
Add Process			
Process Name	1 Activ	e	
DW 3	~		1
DW 4	~		T
+			

- 3. Edit the Process Name (if required).
- 4. Edit the Robot Plugin settings for the Process.

Robot Plugin Settings			
Process Robot DW 4			
Robot Plugin File Path Use Custom Robot Plugin Path			
Selected Robot Plugin *			•
PLC Measurement System *			
Ethernet IP Address			
	~	Update	Ethernet List
Robot IP Address	Numbe	of Hopper	
			Verify
Not Connected			
Save			

5. Select **Verify** to test the connection between the Plant Manager computer and the Robot.

If connected, the status **Connected** appears below the Robot IP Address, and the Number of Hopper field contains the number of hoppers (Valves) in the connected Robot. of the connection is not successful, the message "Not Connected" is displayed, and the Number of Hopper field is empty.

6. Select **Save** to save the setting.

21.2. Agronomy Settings

Agronomy settings are used to connect the system to different agronomy software systems using integrations that provide the necessary interface for data exchange between systems. The page is locked down for users outside of AGI technicians. Requests to update the agronomy integrations should be made via a support ticket request at csr.commercial@aggrowth.com.

Note

Agronomy settings are set during the initial set-up of the system and do not require further user action.

Manage **Agronomy Settings** from the **Settings** menu.

AGRONOMY PLUGIN SETTINGS			
Agronomy Plugin Folder Use Custom Agronomy Plugin Path		_	Î
Selected Agronomy Plugin *			
ADM		•	
Default Tare Scale	Default Gross Scale		
•		•	
Auto Export to Agronomy			
Product Percent Tolerance			-
Prevent Auto Export if Product Percent Tolerance	not met		

Setting (* Required Entry)	Description
Use Custom Agronomy Plugin Path	Seldom used. Select to select a customized path.
Selected Agronomy Plugin	Select the agronomy from the dropdown list.
Default Truck Scale	Select the default truck scale from the dorpdown list.
Product Percent Tolerance	While running a blend, if the actual amount of a product ran is outside this tolerance compared to the requested amount, a user alert will appear.
Auto Export to Agronomy	Sets the system to report batch completion to a connected Agronomy automatically.

21.2.1 Connecting a Built-in Agronomy Plugin

To connect a built-in agronomy plugin:

- 1. Go to **Settings > Agronomy**.
- 2. Select Add Agronomy.

Agronomy Settings			
Add Agronomy			
Agronomy Name	ŕ	Active	
		~	Î

3. From Agronomy Plugin Settings > Select Agronomy Plugin, select an agronomy plugin from the drop-down list.

Note

Some Agronomy Plugins require additional API, FTP, or other configuration settings. These configuration settings only appear on the Agronomy Settings screen when the plugin is selected.

AGRONOMY PLUGIN SETTINGS		
Agronomy Plugin Folder Use Custom Agronomy Plugin Path		Í
Selected Agronomy Plugin *		-
ADM Default Tare Scale	Default Gross Scale	
Auto Export to Agronomy	,	•
Product Percent Tolerance		
Prevent Auto Export if Product Percent Tolerance	e not met	

4. Select the Default Tare Scale from the drop-down list.

Note

Select NONE if no Tare Scale is to be used

5. Select the Default Gross Scale from the drop-down list.

Note

Select **NONE** if no Gross Scale is to be used.

- 6. Select the Auto Export to Agronomy box if required.
- 7. Enter the Product Percent Tolerance.

Note

Check the **Prevent Auto Export if Product Tolerance not Met** to prevent export if Product Tolerance is not met.

- 8. From **Communications Settings**, select **Ticket In Folder** to set the folder where the agronomy will place new tickets for Plant Manager.
- 9. Select **Ticket Out Folder** to set the folder where Plant Manager will place completed tickets for the agronomy.

Communication Settings	
Ticket In Folder	
Ticket Out Folder	
File Watcher Delay (Seconds)	
	Save

10. Enter the File Watch Delay (seconds) time.

Note

The File Watch Delay (seconds) is the amount of time in seconds that STPM waits before trying to access/read a file in the Ticket In folder.

11. Select Save to save the settings.

Note

Some agronomies require unit mapping when connecting. If the agronomy requires unit mapping, a new **Agronomy Unit Mapping** tab appears.

Robot	Scales	Ticket	Agronomy	Agronomy Unit Mapping	Email	Valves	Database	Printing	Touchscreen	Admin	
Agronom	ny Settings										
Add Ag	ronomy										
Agronomy	Name										↑ Active
Agvance	XML										✓ 📋

To add agronomy unit mapping to a selected agronomy:

- 1. Go to Agronomy Unit Mapping.
- 2. Select the agronomy from the dropdown list.

Robot	Scales	Ticket	Agronomy	Agronomy Unit Mapping	Email	Valves	Database	Printing	Touchscreen	Admin		
Select Agro Agvance X	onomy * (ML									•	Add Unit I	Mapping
Direction		Ť	Agronomy Unit				AGI SureTrac	k Plant Manager I	Unit			
✓ Set B	Both 🖉	Export	Acre				acre(US)				•	
✓ Set B	Both 💦	Export	Lbs				lb(US)				•	1
✓ Set B	Both 🖉	Export	Gal				gal(US)				•	1

- 3. Click Add Unit Mapping to add a new row of data.
- 4. Enter the unit mapping data in the appropriate column.
- 5. Click Save.

21.2.2 Connecting a Custom Agronomy Plugin

Note

Connecting to a custom agronomy plugin is rarely required. Follow the steps below if this action is required.

To connect a custom agronomy plugin:

1. Go to **Settings** > **Agronomy**.

=		Valves	Database	Printing	Touchscreen	Admin
		Robot	Scales	Ticket	Agronomy	Email
8 T	icket Manager	Agronomy Settin	ngs			
Ъ Р	Products	Add Agronomy				
I≡ R	Recipes	Agronomy Name				T Active
Ê F	ormulation Groups					
B B	Batch History					
🖻 R	Reports					
🐣 Р	Partners					
X E	quipment					
🗣 V	/essels					
# 0	Trops					
P A	Application Types					
≗ ₀ S	itaff					
\$ s	iettings					
× s	ivstem Maintenance					e

2. Click Add Agronomy; the Agronomy Plugin Settings fields display.

Agronomy Plugin Folder		
Use Custom Agronomy Plugin Path		
Selected Agronomy Plugin *		
ADM		•
Default Tare Scale	Default Gross Scale	
	-	-
Auto Export to Agronomy		
Product Percent Tolerance		

- 3. Check the Use Custom Agronomy Plugin Path box.
- 4. Select **Agronomy Plugin Folder** and enter the path to the folder where the custom plugin is located.

Agronomy Settings	
Add Agronomy	
Agronomy Name	↑ Active
	✓ 📋
	Browse For Folder X
AGRONOMY PLUGIN SETTINGS	
Agronomy Plugin Folder	Desktop > OneDrive > 这 josh > 🕒 This PC
Selected Agronomy Plugin *	
Default Truck Scale	< >>
New Scale 2 Auto Export to Agronomy Product Percent Tolerance	Make New Folder OK Cancel
Prevent Auto Export if Product Percent Tolerance r	not met
Communication Settings	

- 5. Enter the Default Truck Scale from the drop-down list.
- 6. Select Auto Export to Agronomy if required.
- 7. Enter the Product Percent Tolerance.
- 8. Check the Prevent Auto Export if product Percent Tolerance not met box if required.
- 9. In **Communications Settings**, select **Ticket In Folder** to set the folder where the agronomy will place new tickets for the Plant Manager.

Note

Copy and paste the file pathway.

Communication Settings	
Ticket In Folder	
Ticket Out Folder	
File Watcher Delay (Seconds)	
	Save

- 10. Select **Ticket Out Folder** to set the folder where Plant Manager will place completed tickets for the agronomy.
- 11. Enter the File Watch Delay (seconds) time.

Note

The File Watch Delay (seconds) is the amount of time in seconds that STPM waits before trying to access/read a file in the Ticket In folder.

12. Select Save to save the settings.

21.3. Ticket Settings

Ticket settings are used to configure settings that affect default, mandatory any other settings for tickets.

Manage Ticket Settings from the Settings menu.

A	🗗 😹 Plant Manag	e r					Mode	AGITec	th 🛩 🖺 Viev	w 🖌 🛦 7 Alerts		×
		Process	Scales	Ticket	Agronomy	Emai	l Val	ves	Printing	Touchscreen	Admin	
	Ticket Manager	Formulatio	on Group S	ettings								Î
	J	Blend Analysi	s Tolerance *				Field Analy	/sis Toleran	ce *			
7	Products	40					0					
≡	Recipes	Minimum Gal	lons/Area				Units				-	
Ê	Formulation Groups	Maximum Nutrient %										
Ħ	Batch History	Default Tie	cket Setting	js								
	Reports	Default Measurement System *				Allowed Measurement Systems						
- 424	Partners	Water Default	ts				Default Aut	to Size				
		Density *		Units *			Auto Size A	mount		Units		
×	Equipment	8.35		lb/ga	al(US)	-					-	
	Vessels	Default Proce	SS			•	Default Disp	ensing Loc	ation		•	
2	Crops	Use Default T	icket Prefix				Default Tick	ket Prefix				
P	Application Types	Use Def	fault Ticket P	refix							Ŧ	
20	Staff	Separator Cha	aracter	Numbe 3	er of Characters							
Ċ	Settings	Default System	m Type				Default Mix	er Type				
-	5-	Fertilizer System			-	• Liquid •				-		
0	Help								Ð	Save		

21.3.1 Formulation Group Settings

Formulation Group settings determine the base settings for creating and working with Formulation Groups.

To configure formulation group settings:

- 1. Go to Settings > Tickets.
- 2. Configure the Formulation Group settings.

Default Formulation Group Settings	
Blend Analysis Tolerance * 0	Field Analysis Tolerance * 0
Minimum Gallons/Area	Units
Maximum Nutrient %	

Setting (* Required Entry)	Description
* Blend Analysis Tolerance	The allowable difference, as a percentage (0 to 100), between the blended concentrations and the requested concentrations. A setting of 0 indicates an exact match.
* Field Analysis Tolerance	The allowable difference, as a percentage (0 to 100), between the blended concentrations and the requested concentrations, based on field analysis. A setting of 0 indicates an exact match.
Minimum Gallons/Area	For liquids, sets a minimum amount of gallons per area required to validate a Ticket.
Units	Sets the Field Analysis units used as either acres (US), or ha.
Maximum Nutrient %	Sets the maximum amount of nutrient allowed, as a percentage.

3. Select Save to save the settings.

21.3.2 Load Manager Settings

Setting the Tolerance in Load Manager Settings applies a tolerance percentage to loads made up of tickets. In most situations, a user will run loads to the compartment made up of tickets with similar product ratios. The Tolerance level reduces the error of selecting tickets for loads that have different product ratios.

To set the Tolerance for Loads:

1. Go to Settings > Ticket > Load Manager Settings.

Load Manager Settings	
Tolerance Type Product Amount Product Rate Per Area	Tolerance Percentage 0
Load Total Unit Ib(US)	

- 2. Select the Tolerance Type by Product Amount or Product Ratio per Area.
- 3. Enter the Tolerance Percentage.
- 4. Enter the Load Total Unit.
- 5. Select Save.

21.3.3 Default Ticket Settings

Default Ticket settings are used to provide defaults for ticket information displayed when creating or working with tickets.

To configure default ticket settings:

- 1. Go to Settings > Tickets.
- 2. Enter the relevant settings.

Imperial-UK Imp	perial-US OMetric	Allowed Measurement Systems Imperial-UK Imperial-US Metric				
		Default Auto Size				
Water Defaults		Apply Resize to Imports				
Density *	Units *	Auto Size Amount Units				
8.35	lb/gal(US)	•				
Default Process		Default Dispensing Location				
		•				
Use Default Ticket Prefix		Default Ticket Prefix				
Use Default Ticket Prefix	(
Separator Character	Number of Characters					
-	3					
Default System Type		Default Mixer Type				
Fertilizer System		▼ Liquid ▼				
Default Tare Truck Scale		Default Gross Truck Scale				
New Scale 2		New Scale 2				
Default Batch Name		Add to Ticket Percent Tolerance *				
		• 0				
Default Entry Method Type		Entry By Amount or Percent				
Default Ticket Area Unit		Ticket/Batch Area Unit to Display				
Ticket/Batch Mass Per Area Unit	to Display	Ticket/Batch Volume Per Area Unit to Display				
Ticket Expires After (days)		Default Report Logo				

Setting (* Required Entry)	Description
* Default Measurement System	Sets the default measuring system for Tickets.
Allowed Measurement Systems	Sets the available measurement systems choices available on Tickets
Default Process	Sets the default Process for Tickets. Select Process from the drop down menu.

Setting (* Required Entry)	Description
* Water Defaults, Units	Sets the default density and units of water for Tickets. This measurement is also used in the calculation density from specific gravity. Select units from the drop down menu.
Auto Size Amount, Units	Sets the default Auto-Size amount for Batches. Select units from the drop down menu.
Add To Ticket Percent Tolerance	Sets the default Tolerance Percentage used when adding a Ticket to a Batch.
Use Default Ticket Prefix	Sets a default ticket prefix. Select this, then select the Default Ticket Prefix options from the drop-down list, then enter the default prefix.
Ticket Prefix	Sets the default Ticket Prefix for Tickets.
Default System Type	Sets the default System Type for Tickets. Select from the drop down menu.
Default Mixer Type	Sets the default System Type for Tickets (dry or liquid). Select from the drop down menu.
Default Tare Truck Scale	Select the truck scale from the drop-down list to be used as the default Tare truck scale.
Default Gross Truck Scale	Select the truck scale from the drop-down lust to be used as the default Gross truck scale.
Default Dispensing Location	Sets the default Dispenser Location for tickets. Select from the drop down menu.
Default Batch Name	Sets the default Batch Name format as either Release Number, Ticket ID — Batch ID, or Customer Name. Select from the drop down menu.
Default Entry Method Type	Sets the default Entry Method Type as either Amount of Nutrient, Amount of Product, or Amount Per Area. Select from the drop down menu.
Entry By Amount or Percent	Sets the default for entry to either Amount or Percent.
Default Ticket Area Unit	Sets the default Ticket Area unit as either US Acres or ha (hectares). Select from the drop down menu.
Ticket/Batch Area Unit to Display	Sets the default Ticket/Batch Area unit to display as either US Acres or ha (hectares). Select from the drop down menu.
Ticket/Batch Mass Per Area Unit to Display	Sets the default Ticket/Batch Mass Per Area unit to display as either g/ha, kg/ha, lb(US/acre, oz(US)/acre, t/ha, ton(US)/acre. Select from the drop down menu.
Ticket/Batch Volume Per Area Unit to Display	Sets the default Ticket/Batch Volume Per Area unit to display as cm ³ /hs, fl oz(US)/acre, gal(US)/acre, L/ha, m ³ /ha, mL/ha, pt (US)/acre, qt(US)/acre.
Ticket Expires After (days)	Sets a default number of days after which the Ticket will expire.

Setting (* Required Entry)	Description
Default Report Logo	Sets the default logo used on reports.
* Default Batch Request Quantity	Select to be able to adjust batch request quantity by weight or volume. If weight is selected, batches are adjusted by amount (weight or volume). If volume is selected, the user can adjust the volume of the batch, but not the amount.

3. Select **Save** to save setting changes.

21.3.4 Mandatory Ticket Information Settings

Mandatory Ticket Information settings are used to make specific ticket information fields mandatory when a user is creating a ticket.

Note

If imported tickets do not meet the mandatory ticket settings, the ticket cannot be exported or printed. Batches can also not be created unless all mandatory fields are completed. A system error message displays indicating the missing mandatory information:



To configure mandatory ticket information settings:

- 1. Go to Settings > Tickets.
- 2. Enter the Mandatory Ticket Information settings.

Mandatory Ticket Information	
Carrier	✓ Customer
Transport Vessel	Field
Transport Vessel Driver	
Application Vessel	Ship To Partner
Application Vessel Driver	Ship To Address
Expiration Date	Release Number

Setting	Description
Carrier	The Transport company, and transport details.
Customer	The customer for the Ticket.
Field	The field that the fertilizer is going to be applied.
Ship To	The transport destination for the Ticket, providing the options of selecting either the customer's Partner address (Ship to Partner), or a different location (Ship to Address).

Setting	Description
Expiration Date	An information field related to requirements of specific Agronomy systems, that is not required by all Agronomy systems or Plant Manager applications.
Release Number	An information field related to requirements of specific Agronomy systems, that is not required by all Agronomy systems or Plant Manager applications.

3. Click **Save** to save the settings.

21.3.5 Processing Settings

Processing settings are parameters that are applied to all Processes.

To configure processing settings:

- 1. Go to **Settings** > **Tickets**.
- 2. Enter the Processing settings.

Processing Settings	
% to Finish *	Weights Options
95	✓ Use Legal for Trade Weight
	Mode *
	• •
	Use Tank Weight
	Use Mass Meter
	Use Blender (Rotary Drum/Tapered Vertical)
	Print Truck Check In
	Print Truck Check Out

Setting (* Required Entry)	Description
* % to Finish	Marks batches as "Complete" at the configured percentage of process completion.
Use Legal for Trade Weight	Sets the Process batch weight validation method to Legal for Trade.
Scale Type	The communication method (serial or Ethernet) for a connected truck scale if Use Legal For Trade Weight is set.
* Mode	Select from: Original Formula. Use the amount recorded from the Legal for Trade as the total amount for the batch and do not update the product amount. Calculate with ratios. Use the amount recorded from the Legal for Trade as the total amount for the batch and update each product amount based on the ratio of the product. Advanced. Use the amount recorded from the Legal for Trade as the total amount for the batch and only update each product amount based on the ratio of the product if it is recorded as dispensed from a hopper that was filled during the blend or ran in volumetric mode.

Setting (* Required Entry)	Description
Use Tank Weight	Use Tank Weight instead of Truck Scales as the basis for Legal for Trade Batch weight validation. Used for overhead tank settings.
Use Mass Meter	Select this to use a Mass Meter scale.
Use Blender (Rotary Drum/ Tapered Vehicle)	Select this to use a blender.
Print Truck Check In/Out	If enabled (checked), a record is printed out when truck weight-in and weigh-out (using scales) is entered for a Batch.

3. Select Save to save settings.

21.3.6 Cook Settings

Cook settings are used to enable and disable the Cook function, and to configure Cook parameters.

To configure cook settings:

- 1. Go to **Settings** > **Tickets**.
- 2. Check Enable Cooking to enable the Cook function, and to toggle access to the Cook settings.
- 3. Configure the Cook settings.

Cook Settings		
Enable Cooking		
Default Cook Time (minutes)	Default Cook Temperature (°F)	Default Cool Temperature (°F)
0	0	0

Setting	Description
Enable Cooking	Click on the check box to enable/disable the cooking function.
Default Cook Time	The default cook time (minutes).
Default Cook Temperature	The default cook temperature (°F).
Default Cool Temperature	The default cool temperature in (°F).

4. Select **Save** to save the settings.

21.3.7 Product Settings

The Product Settings tab is used to set the Default Product Order setting.

To configure product settings:

- 1. Go to Settings > Tickets.
- 2. Configure the Default Product Order setting.

Product Settings			
Default Product Order *]		

Setting	Description
Default Product Order	The default dispensing queue position set for a new product (0 to 32767).

3. Select **Save** to save the setting.

21.4. Email Settings

In order to send Alerts and Daily Product Reports by email, the system must be configured with access to an email client (e.g. Microsoft Outlook) and be configured to send the emails.

Note

Following the initial set-up of Email Settings, the user is not usually required to take further settings action.

Manage Email Settings from the Settings menu.

=	Valves	Database	Printing	Touchscreen	Admin
-	Robot	Scales	Ticket	Agronomy	Email
🔳 Ticket Manager	Email Setup				
₩ Products	Use Anonyr	nous SMTP Authentication	1		<u>^</u>
I≡ Recipes	Email maintenanceal	ert@aggrowth.com			
E Formulation Groups	Updat	e Password			
Batch History	SMTP Server:	com			
Reports	Port:				
🛎 Partners	Email Maint	enance Alerts/Reminders			
🗙 Equipment	Email Daily	Product Report			
🖶 Vessels	 Before the 	ne program closes			
a Crops	○ At 10	* : 12 * AM *			
Application Types	Email Custo	mer Product Usage Report	t		
Le Staff	O Before t	ne program closes			
Settings	○ At 10	• : 12 • AM •			~
P Help				Save	e

21.4.1 Configuring Email Client Settings

Email client settings provide the system with the credentials required to send maintenance alerts and daily product report emails from a mail client. Setting should be set to the default settings in most situations.

- 1. Go to > Settings > Email > Email Setup.
- 2. Configure the email client settings:

mail Setup	
Use Anonymous SMTP Authentication	
nail	
naintenancealert@aggrowth.com	
Update Password	
ATP Server:	
mtp.office365.com	
vrt:	
87	

Setting	Description	Default Setting	
Use Anonymous SMTP Authentication	Select to use a maintained SMTP relay mail server on an internal network.	Enter sender's address and SMTP target.	
Email	System email account/address.	maintenancealert@aggrowth. com	
Update Password	Click to update password of the email account.	If required, contact AGI for this information.	
SMTP ServerEmail client outgoing SMTP server address.		smtp.office365.com	
Port	Email client outgoing SMTP server port. 587		

Note

Select **Use Anonymous SMTP Authentication** to use a maintained SMTP relay mail server on an internal network.

Email Setup	
✓ Use Anonymous SMTP Authentication	
ender Address:	
MTP Target:	_
ort:	

- a. Enter the sender's address.
- b. Enter the SMTP target.
- 3. Select Save to save settings.

21.4.2 Configuring Email Alerts and Reports

The system can be configured to send automatic email alerts and product reports to users.

The following automatic email alerts and product reports can be configured:

- Email Maintenance Alerts/Reminders for the Technician user assigned to the maintenance action.
- Daily Product Reports for all users that have roles of Plant Admin, Plant Manager, or Plant Operator.

Note

To receive an email alert or report, a user must have a valid email in their Partner profile.

To configure automatic email alerts and reports:

1. Go to Settings > Email > Email Setup.

Email Setup	
Use Anonymous SMTP Authentication	
Email	_
maintenancealert@aggrowth.com	
Update Password	
SMTP Server:	
smtp.office365.com	
Port:	
301	
Email Maintenance Alerts/Reminders	
Email Daily Product Report	
When the program starts	
O Before the program closes	
○ At 10 * : 12 * AM *	
Email Customer Product Usage Report	
O When the program starts	
Before the program closes	
○ At 10 · · : 12 · AM ·	
	Ŧ

Item	Description		
Email	The email address of the user.		
Update Password	The email password can be changed.		
SMTP Server	The email SMTP server details.		
Port	The email server port.		

Item	Description
Email Maintenance Alerts/Reminders	Sends maintenance alerts and reminders.
Email Daily Product Report	Sends daily product reports.
Email Customer Product Usage Report	Sends daily customer product usage reports.

- 2. Configure the email alerts settings.
 - Select **Email Maintenance Alerts/Reminders** check box to enable the system to send maintenance alerts and reminders by email.
 - Select **Email Daily Product Report** check box to enable the system to send a daily product report, according to the configured parameters.

 Email Maintenance Alerts/Reminders
Email Daily Product Report
When the program starts
O Before the program closes
◯ At • : 50 • AM •

Report Parameters	Description		
When the program starts	System sends a report once a day. During the first log in of the day, the report is sent.		
Before the program closes	System sends the report once a day. During the first log off of the day, the report is sent.		
At [time]	System sends the report at a specific time of day.		

3. Select **Save** to save settings.

21.5. Scales Settings

Scales settings are used to configure Serial, Ethernet, or Overhead tank communications settings for a connected truck scale. Multiple scales may be connected. The page is locked down for users outside of AGI technicians. Requests to update the scale information should be made via a support ticket request at **csr. commercial@aggrowth.com**.

Note

Truck scales are connected either by RS–232 serial interface or Ethernet.

Configuring Scales Settings

1. Go to Settings > Scales.

=	Valves	Database	Printing	Touchscreen	Admin
	Robot	Scales	Ticket	Agronomy	Email
Ticket Manager	Multi-Scale Settin	ıgs			
₩ Products	Add Scale				
I≡ Recipes	Scale Name				↑ Active
Eormulation Groups	New Scale 1				✓ Î
Formulation Groups					
Batch History	Scale Plugin Setti	ngs			
Reports	Scale New Scale 1				
🐣 Partners	Scale Plugin File Path	le Plugin Path			
🗙 Equipment	Scale Type				
	Overhead Tank				Ý
Search Vessels	Selected Scale Plugin				
a Crops	Overhead Tank Plug Scale Measurement Sys	gin tem	O Matria		~
Application Types	Overhead Tank Count	 Imperial-US 			
🍰 Staff	2 Default Position				
Settings		•			

- 2. Click Add Scale in the Multi-Scale Settings.
- 3. Enter a name for the scale in the **Scale Name** field.

Note

Check the **Active** box to make the scale active, or deselect to make it inactive. Click the trash icon to delete the scale.

4. In the Scale Plugin Settings section, make sure the name of the Scale is displaying in the Scale field.

Scale Plugin Settings	
Scale	
Scale Plugin File Path	
Use Custom Scale Plugin Path	
Scale Type	
Overhead Tank	v
Selected Scale Plugin	
Overhead Tank Plugin	~
Scale Measurement System	

- 5. Check the Use Custom Scale Plugin Path box to select a custom path for the scale.
- 6. In the Scale Type section, select from Ethernet Connection, Overhead tank, or Serial Communication options.

Note

See Section 21.5.1 – Overhead Tank Settings on page 211 to set up an Overhead Tank Scale.

Scale Type
·
Ethernet Communication
Overhead Tank
Serial Communication

7. Configure the Scales communications setting as required.

Serial Communication Settings	
Communcation Port	
	- C
Baud Rate	
	× •
Data Bits	
	-
Stop Bits	
	•
Parity Bits	
	-
Handshake	
	•
Received Bytes Threshold	
bytes	

Note

To verify Ethernet connection after setting changes, select Verify Connection before saving.

8. Select Save to save changes.

Serial Communication Settings

Serial Communication Settings	
Communcation Port	
	- C
Baud Rate	
	× •
Data Bits	
	•
Stop Bits	
	•
Parity Bits	
	•
Handshake	
	•
Received Bytes Threshold	
bytes	

Settings	Description
Communication Port	Used to select the computer serial port that the scale is connected to.
Baud Rate	300, 600, 1200, 2400, 4800, 9600, 19200, 2880, 38400, 57600, 115200
Data Bits	7, 8
Stop Bits	The number of stop bits: One (1), OnePointFive (1.5), Two (2)
Parity Bits	None, Even, Odd
Handshake	None, XOnXOff, RequestToSend
Received Bytes Threshold	The number of bytes before data is received.

Ethernet Communication Settings

Ethernet Communication Settings	
Scale Type	
•	
IP Address	
Port	
4000	
Timeout (ms)	
2000	
Verify Connection	

Settings	Description
Scale Type	Select the connected scale type from pull-down list.
IP Address	The IP address of the connected scale.
Port	The TCP port selected for communication with the connected scale.
Timeout	The Ethernet connection timeout value, in milliseconds.

21.5.1 Overhead Tank Settings

To set up an overhead tank, make sure the Use Legal for Trade Weights > Processing Settings > Use Tank Weights options are checked in Ticket Settings. See Section 21.3.5 – Configuring Processing Settings on page 201.

Processing Settings	
% to Finish *	Weights Options
95	✓ Use Legal for Trade Weight
	Mode *
	Advanced 👻
	✓ Use Tank Weight
	Use Mass Meter
	Use Blender (Rotary Drum/Tapered Vertical)
	Print Truck Check In
	Print Truck Check Out

To set up an overhead tank scale:

1. Go to Settings > Scales > Multi-Scale Settings.

Robot	Scales	Ticket	Agronomy	Agronomy Unit	t Mapping
Multi-Scale S	ettings				
Add Scale					
Scale Name				ŕ	Active
Scale Plugin S	Settings				
Scale					
Scale Plugin File P	ath				
Use Custom	n Scale Plugin Path				
Scale Type					
Selected Scale Plu	ain				Ť
					~
Scale Measuremen	nt System JK	IS Metric			
Not Connected	4				

2. Click Add Scale and give the new scale a name.

Multi-Scale Settings			
Add Scale			
Scale Name	ŕ	Active	
New Scale 1		~	Î

3. Go to Scale Plugin Settings and select Overhead Tank from the drop-down box.

cale Plugin Settings
tale
ew Scale 1
ale Plugin File Path
Use Custom Scale Plugin Path
cale Type
Overhead Tank
elected Scale Plugin
ale Measurement System Imperial-UK Imperial-US Metric verhead Tank Count
efault Position

Item	Description
Use Custom Scale Plugin Path	Select to customize the plugin path for the tank.
Scale Type	Select from Ethernet Communication, Overhead Tank, or Serial Communication.
Selected Scale Plugin	The scale plugin used for this tank.
Scale Measurement System	Sets the measurement system for the overhead tank.
Overhead Tank Count	The number of overhead tanks in the system.
Default Position	The position this tank will operate in — first, second, third etc. — in relation to the other tanks in the system.

- 4. Select **Use Custom Scale Plugin Path** for a customized plugin; select the **Browse Folder** button to find the plugin path on the computer.
- 5. Select Overhead Tank Plugin from the Selected Scale Plugin option.
- 6. Select the appropriate measurement from the Scale Measurement System options.
- 7. Enter the number of tanks to be set up in the **Overhead Tank Count**.

8. Select the **Default Position** for this tank.

Note

The default position is the order in which the tanks will be operated in relation to other tanks in the system.

9. Click Save.

21.6. Printing Settings

Setting up print settings allows batch documents to be customized, printed, and emailed to related partners. Printers must be linked to a batch print document **template** and to a **process**. Any printer connected to a computer running **Plant Manager** can be linked to a template and process for printing batch documents.

Manage Printing Settings from Settings > Printing.

Ticket	Email	Printing	Process	Scales	Agronomy	Touchscreen	Admin			
🖶 Te	emplat	tes								C
All Proce	sses		• 8	Manage Prin	nters				See Printed Files 🟲	
									Add Template 🕇	
Template	Name									ŕ
GenericB	OL									
Custome	er 1									
Template	e 5									

Item	Description
All Processes	Connected processes are listed and can be configured for reports.
Manage Printers	Manages the connection between processes and printers.
See Printed Files	Shows folders of all printed documents.
Add Template +	Creates a new printer template.

Note

Before setting up the **Printing Settings** and connecting templates to printers and processes, make sure that:

- all printers are connected and powered ON.
- all plant Processes have been fully configured.

Print Templates

There are two screens to view print templates:

- **Preview Screen**: Shows what the template looks like when printed. This is the first screen that shows when a template is selected.
- **Designer Screen**: Make changes to a new or existing template. The **Report Designer Analyzer** at the bottom of the screen shows any errors in the template.

Figure 4. Preview Screen

Ticket Email Printing	Process Scales Agronomy Touchscreen Admin				
🖶 Templates		Edit Template Edit Print Options	×		
All Processes	Name Logo J GenericBOL				
Template Name	Manual Print Copies 1 Print Manufactured Products Ca	Capture Operator Signature 🖌 Auto-Print Complete Batches 1			
GenericBOL Image: Group Like Products Print Products used to create a Manufactured Product Capture Driver Signature Image: Auto-Print Cancelled Batches 1 Customer 1 Image: Description Image: Description Image: Description					
Template 5	Preview Dispensing L Address Line Address Line Address Line Address Line Customer Name: Test Customer Address Line 1 Address Line Address Line 1 Address Line Address Line 2 Address Line Address Line Address Line 2 Address Line City/State/Zip Marshall, IL 62441 City/State/Zip Phone Number: 555-555 Ticket ID: 1234 Batch ID: 000 Release Number: DJR29883 Batch Name: Requested Amount: 4,500 lbs Batch Area: 19.40 Actual Amount: 4,505 lbs Actual Amount: 4,505 lbs Actual Amount: 4,505 lbs Actual Amount: 4,505 lbs Truck ID: example-id Truck ID: example-id Truck Gross Weight: 75000.00 Truck Gross V Comments: Comments: Comments from ticket	Location: Test Location e 1: Address Line 1 e 2: Address Line 2 p: Marshall, IL 62441 ne: Test Ship To e 1: Address Line 1 e 2: Address Line 2 p: Marshall, IL 62441 001 f: BatchName-0001 f2 acres Area: 0 acre Amount: 4,500 lbs unt: 4,505 lbs Time: 1/20/2020 11:12 AM example-id Neight: 75000.00 Weight: 75000.00			
	Page: 1 / 1	100% -	÷ +		

Figure 5. Designer Screen

AGI 🖉 PI	ant Manager				🚨 aarongorsuch 🗠	🖹 View Y 🛕 0 Alerts 🗕 🗗 💙
GenericBOL	×					
5 A						
Home Lay	out Page View					Designer
Cut	Arial • 9.75 •					
Paste	BIUS A.			Extract		
Clinhoard	Fort	Alignment	Bandara	Style 👻		
< Cipboard	FOR	Alignment			l ³	· · · · ·
				Address Line 1: [CustomerItem] [Address_Line_1	Address Line 1: [Customeritem].[Ship_To_Address	
				Address Line 2: [CustomerItem].[Address_Line_2	Address Line 2: [CustomerItem].[Ship_To_Address_	
				City/State/Zip: [CustomerItem].[City_State_Zip]	City/State/Zip: [CustomerItem].[Ship_To_City_State]	
A 🗹				Phone Number: [Customeritem].[Mobile_Phone]		
			-	Ticket ID: (TicketItem) (Ticket Id)	Batch ID: [Batch Item] [Batch Id]	
			E	Release Number: [TicketItem].[Release Number]	Batch Name: [Batch Item].[Batch Name]	
			=	Requested Amount: [TicketItem].	Batch Area: [BatchItem].[Requested_Batch_Area]	
			~-	Actual Amount: [TicketItem].[Actual_Total]	Remaining Area: [BatchItem].[Remaining_Area]	
				Area: [TicketItem].[Requested_Area]	Requested Amount [Batchitem].[Requested_Amo.]	
ab					Actual Amount: [Batchitem].[Actual_Amount]	
			-		Batch End Time: [BatchItem].[Batch_End_Date_Ti =	
N 70				Truck ID: [BatchItem].[Truck_Id]	Truck 2 ID [®] [Batchitem].[Truck_2_Id]	
			-	Truck Tare Weight: [BatchItem].[Tare_Truck_Weig	Truck Tare Weight: [BatchItem].[Tare_Truck_Weig]	
	4			Truck Gross Weight [Batchitem]. Gross Truck	Truck Gross Weight [Batchiltem] [Gross_Truck_W	► ►
	Report Design Analyzer					* ×
ΙΣ	Show all	3 0 Errors 🔺 7 Warnir	ngs 🕕 0 Messages	To	Se	arch

21.6.1 Creating a New Template

To create a new template:

1. Go to > Settings > Printing.



2. Select + Add Template; The Select Print Template field opens.

				Test Location	
				Address Line 1	
				Marshall, IL 62441	
Customer Info:	_				
Customer Name:	Test Customer				
Customer Id:	TC01				
Ship To:	Test Ship To				
Ticket Info:					
Ticket Id:	1234				
Requested Amount:	4,500 lbs				
Actual Amount:	4,505 lbs				
		Rec.	quested Amount: 4 500 I	DS .	
Batch Name: Analysis:	BatchName-0001 33-12-10-5S	Act	tual Amount: 4,500 I tual Amount: 4,505 I tual Area: 2.5 acr	bs bs es	
Batch Name: Analysis:	BatchName-0001 33-12-10-5S	Act	quested Amount: 4,500 II tual Amount: 4,505 II tual Area: 2.5 acr	55 55 85	
Batch Name: Analysis: Product Info:	BatchName-0001 33-12-10-5S	Act Act	ual Amount: 4,500 II tual Amount: 4,505 II tual Area: 2.5 acr	os os es	
Batch Name: Analysis: Product Info: Product Name Dao	BatchName-0001 33-12-10-5S Produ 46-20	Act Act Act	quested Amount: 4,500 II tual Amount: 4,505 II tual Area: 2.5 acr Request Amount 2,000 Ibs	Actual Amount	t
Batch Name: Analysis: Product Info: Product Name Dap Potash	BatchName-0001 33-12-10-5S Produ 46-20 0-0-0	Act Act Act 5-0 50	Quested Amount: 4,500 II tual Amount: 4,505 II tual Area: 2.5 acr Request Amount 2,000 Ibs 2,000 Ibs	Actual Amount 2,005 lbs 2,000 lbs	<u>t</u>
Batch Name: Analysis: Product Info: Product Name Dap Potash Sulfur	BatchName-0001 33-12-10-5S Produ 46-20 0-0-0 Su	Act Act Act 6-0 50	Request Amount: 4,500 II tual Amount: 4,505 II tual Area: 2.5 acr Request Amount 2,000 Ibs 2,000 Ibs 500 Ibs	Actual Amount 2,005 lbs 2,000 lbs 500 lbs	t
Batch Name: Analysis: Product Info: Product Name Dap Potash Sulfur	BatchName-0001 33-12-10-5S Produ 46-20 0-0-0 Su	Act Act Act 60 1	Request Amount: 4,500 II tual Amount: 4,505 II tual Area: 2.5 acr 2,000 Ibs 2,000 Ibs 500 Ibs	Actual Amount 2,005 lbs 2,000 lbs 500 lbs	

- 3. Use the < and > arrows to select a print template as a base for the new template.
- 4. Select **OK**; The Designer screen opens for that template.
- 5. Edit the template. See Section 21.6.2 Editing a Template on page 216 for full details.

6. Select **Save**; The **OPTIONS** screen displays.

[Name *	Logo	Change	Remove
	OPTIONS			
	Manual Print Copies 0 Print Manufactured Products	Capture Operator Signature	Auto-Print Complete	e Batches 0
	Group Like Products Print Products used to create a Manufactured Pr	roduct Capture Driver Signature	Auto-Print Cancelled	d Batches 0

Item (* Required Field)	Description
Name	The name for the template.
Change	Select to change the logo. Selecting opens the file explorer to search for the image file.
Remove	Select to remove the logo from the print template.
Manual Print Copies	Allows multiple copies of prints when the User manually prints.
Print Manufactured Products	Select to add a manufactured product as a product line item to the printout if a manufactured product was used.
Print Products used to create a Manufactured Product	Select to list each of the individual products that were used to make the manufactured product.
Capture Operator Signature	Enters a signature line on the print for the Batch Operator or Plant Manager's signature. Refer to Print Sections below for entering an E-signature field.
Capture Driver Signature	Enters a signature line on the print for the Driver's signature. Refer to Print Sections below for entering an E-signature field.
Auto-print Complete Batches and Auto-print Cancelled Batches	Allow an automatic print for completed or cancelled batches. The required number of copies can be entered.
Group Like Products	Select for similar products in the batch to be grouped on the template.

- 7. Update the print template options:
 - a. Enter a name for the template.
 - b. Update or remove the logo.
 - c. Enable Operator or Driver signature if required.
 - d. Select any other required options.
- 8. Select Save. Select X at the top of the page to return to the list of templates.

21.6.2 Editing a Template

Templates can be edited and customized in the **Designer Screen** using a range of tools similar to Word and Excel documents.
Table 1. Standard Editing Tools



To edit a template:

- 1. Go to **Settings > Printing**.
- 2. Select the template from the list of templates. If the template does not show in the list select **All Processes** from the drop-down box.
- 3. Select Edit Template to update the print template; The Designer Screen displays.



Note

To only update the template options select Edit Print Options.

- 4. Update the **Print Layout Template**.
- 5. Select **Save** then X to return to the list of templates.

Editing Tools

Adding a Label

A label can be either static or dynamic. A static label is text that will always be on the template and will not change. A dynamic label will change based on the data linked to it. For instance, if a label is linked to a customer name the label will update based on the customer's name on the ticket. A label can be either static or dynamic, not both.

To add a label:

- 1. Go to **Settings** > **Printing** and select the template.
- 2. Select Edit Template; the Designer template screen displays.
- 3. Select A from the tools menu on the left of the screen and draw the area where the label will be.



- 4. Decide if the label is static or dynamic:
 - If the label is static select and enter the label text.
 - If the label is dynamic select the $\frac{|f|}{|f|}$ to open the **Expression Editor** options, or select the **Expression** drop-down in the static **Labels Task**.

Label Tasks			
Text :			
lest Label 1			
Expression		• •	••
Format String		•	••
Summary Running	None	• •	
Angle		0	•
Auto Width			
 Can Grow 			
Can Shrink			
✓ Multiline			
✓ Word Wrap			

5. Use the text editing tools at the top of the screen to change the label text.

Home La	yout Page View Lay	yout				
📕 🖧 Cut	Arial • 9.75 •	= = =		1		<u>م</u>
Paste				Extract		~
С Сору	BIUS AT			Style		₹
Clipboard	Font	Alignment	Borders		Styles	E.

Note

Changes are automatically saved to the label. Click off the label or select is to make further changes.

Adding a Picture/Logo

Any picture or logo can be added to a template.

To add a picture or logo:

- 1. In the Designer screen select the $\boxed{}$ button.
- 2. Draw the area on the template where the picture will be.
- 3. Select 🔄; The **Picture Box Tasks** drop-down opens.
- 4. Select Expressions > Logo.
- 5. Select **Save** and exit the **Designer** screen.
- 6. Select Edit Print Options > Change; The computer navigation window opens.
- 7. Navigate to the required file and select **Open**.
- 8. To re-size the image go back to the **Designer screen** > **Picture Box Tasks** > **Sizing** > **Zoom Image**.

Adding a Signature Field

A Driver or Operator signature field can be added to the template.

To add a signature to a template:

- 1. In the **Designer screen** select the **L** button.
- 2. Draw the area on the template where the signature field will be.
- 3. Select 🔅 ; The **Picture Box Tasks** drop-down opens.
- 4. Select **Expressions** > **OperatorESign** for an Operator signature field or **DriverESign** for a Driver signature field.
- 5. Select Save; The template Options screen displays.
- 6. Select Edit Print Options and check the Capture Operator Signature and Capture Driver Signature as required.
- 7. Select Save.

Paper Size and Margins

Increase or decrease the template margins and page size.

To change margins and page sizes:

1. In the **Designer screen** go to the **Page** tab.



2. Us the **Margins** drop-down to select the margin size or select **Custom Margins** to customize the measurements.

	Paper				
	Size	Letter			•
	Units	Inch	•		
	Width				
	Height		11 "	Portrait	Landscape
	Dago Ma	raina			
	Page IVIa	argins			
	 Left:		1 "	Right:	1 "
L	Top:		1.05 "	Bottom:	0.8 "

3. Use the Size drop-down list to select a page size or select More Paper Sizes to customize the page size.

Tables, Lines, and Shapes

Add tables, shapes and lines to the template by selecting the editing options buttons on the right side menu. Select the button and draw on the template.



Products

Default items such as products are automatically added to templates. Data points are pulled into the template.

To add an additional line of product data:

1. In the Designer screen select and copy the original product row (Product Name, Product ID, Requested Amount, Actual Amount, Requested Rate, Actual Rate.

Product Name	Product Id	Requested Amo	Actual Amount	Requested Rate	Actual Rate	
[Product_Name	[Product_ld]	[Requested_Ar	[Actual_Amoun	[Requested_R	[Actual_Rate_P	*
						f

- 2. Paste the row under the original row.
- 3. Select Save.

21.6.3 Deleting a Template

Note

A template currently assigned to a process and printer cannot be deleted. A caution message displays when trying to delete an assigned template. A template can only be deleted after it is removed from all printers. A deleted template cannot be restored. To see if the print template is linked to a process select **Manage Printers**.

- 1. Go to **Settings** > **Printing**.
- 2. Select the template from the list.

Note

If the template does not show in the list select All Processes from the drop-down list.

- 3. Select **Delete** from the drop-down.
- 4. Confirm the delete at the prompt.

21.7. Database Settings

The database is an essential system component that contains records of system users, settings and activities. The database is set up during system installation, and does not require any configuration changes after initial setup. The page is locked down for users outside of AGI technicians. Requests to update the scale information should be made via a support ticket request at csr.commercial@aggrowth.com.

Database Connection settings allow a qualified IT specialist to change the database settings after the system is installed, if required.

Note

Customers are responsible for maintaining their system database and making the required periodic backups.

1. Go to Settings > Admin > Database Connection.

2. Configure the Database Connection settings.

Note

Select **Reset** to erase changes made to Database Connection settings since the last Save.

Database Connection	
Database Source*	
.\SQLEXPRESS	
Use Always Encrypted	
Sql Server Authentication	
Username*	-
SuperUser	
Password*	1
Confirm Password*	
	Verify Connection
Connected	
Reset	

Setting	Description
Database Source	Identifies the database source.
Always Use Encrypted	Sets SQL Server Always Use Encrypted mode, which ensures the data stored in a database remains encrypted at all times during SQL Server query processing.
Authentication	Toggles SQL Server Authentication modes between Windows Login authentication and SQL Server authentication modes.
User Name	The user name for SQL Server authentication mode.
Password	The password for SQL Server authentication mode.

- 3. Select Verify Connection; The system tests the database connection settings and displays Connected if the new settings allow a database connection. If no connection is established, Not Connected displays.
- 4. Select **Save** to save settings.

21.8. Touchscreen Settings

Configuring Touchscreen Functions and Settings

1. Go to Settings > Touchscreen.

A	🗗 😹 Plant Manag	jer 👘			Touchso	reen Mode	e 🚨 AGITec	:h 🗠 🖺 View	× 8 Alerts	– • ×
=		Process	Scales	Ticket	Agronomy	Email	Valves	Printing	Touchscreen	Admin
_		✓ Enable To	ouchscreen							í
8	Ticket Manager	Options								
<u>}</u> #	Products	Start in	Touchscreen	Mode	Use Junge	Remote Mo	onitor	Allow	Batch Over-Sizing	
.=	Pasinas	Unatter	nded		Allow Drive	ers to only s	see Tickets As	sociated with	Parent Partner	
=	Recipes	Defaults								
Ê	Formulation Groups	Timeout				Maxim	num Load Size		Maximum Load Units	
Ħ	Batch History	Every			Minu	tes				•
	,	Ticket Unit*				Touch	nscreen Process	×		
	Reports	lb(US)				• PO				•
-	Partners	Supported	d Ticket Info	ormation						
×	Equipment	✓ Custom	her		✓ Carrier			Comm	ents	
		Field	ł		Transpo	rt Vessel		✓ Valve I	nfo	
••	Vessels	Crop			✓ Transpo	rt Vessel D	river	Splits		
2	Crops	Applicat	tion Type		Applicat	tion Vessel	D.I.			
		Ship Io	To Address			tion vessei	Driver			
*	Application Types									
20	Staff	Supported	d Entry Met	hods *						
		✓ By Ticke	et Id		 By Recipe 			 Enter I 	Product Amounts F	'er Area
₽ ₽	Settings	 Enter Ar 	mounts Per F	Product						
0	Help							Ð	Save	

- 2. Select Enable Touchscreen to enable touchscreen functions and allow access to touchscreen settings.
- 3. Configure the settings as required.
- 4. Select **Save** to save changes.

Touchscreen Options

Use Touchscreen Options to set modes of touchscreen operation.

Options		
✓ Start in Touchscreen Mode	Use Junge Remote Monitor	Allow Batch Over-Sizing
Unattended	Allow Drivers to only see Tickets As	sociated with Parent Partner

Options	Description
Start in Touchscreen Mode	When enabled a Touchscreen option appears on the top menu bar; selecting Touchscreen switches to touchscreen mode menus, the system opens in touchscreen mode menus after every start.
Use Junge Remote Monitor	Enables use of Junge Remote Monitor.
Allow Batch Over-sizing	Receiver can request more product than ticket specified.
Unattended	Enable Unattended touchscreen mode.
Allow Drivers to Only see Tickets Associated with Parent Partner	Restricts access of drivers to specific tickets.

Touchscreen Defaults

Use Touchscreen Defaults to set default parameters for touchscreen operation.

Defaults			
Timeout		Maximum Load Size	Maximum Load Units
Every	Minutes		•
Ticket Unit *		Touchscreen Process *	
	Ψ.		•

Options	Description
Timeout	The system logs out the current user after a configured time of inactivity.
Maximum and Minimum Load Size/Units	The maximum and minimum load sizes that are allowable through the touchscreen.
Ticket Unit	The default units used for Ticket information.
Touchscreen Process	The default Process for touchscreen operations.

Supported Ticket Information

Use Supported Ticket Information to select which ticket information is displayed on the touchscreen.

Supported Ticket Information		
Customer	Carrier	Comments
Field	Transport Vessel	Valve Info
Сгор	Transport Vessel Driver	Splits
Application Type	Application Vessel	
Ship To Customer	Application Vessel Driver	
Ship To Address		

Supported Entry Methods

Use Supported Entry Methods to select which methods of ticket entry are allowed from the touchscreen.

Supported Entry Methods *	
By Ticket Id By F	Enter Product Amounts Per Area
Enter Amounts Per Product	
Options	Description
By Ticket ID	Processes batches based on existing tickets.
By Recipe	Processes batches based on recipes.
Enter Product Amounts Per Area	Processes batches based on amount of product per area.
Enter Amounts per Product	Processes batches based on amounts per product.

Supported Resize Options

Use Supported Resize Options to select which options are allowed from the touchscreen.

Supported Resize Options			
One Batch	Equal Batches	By Ton	
By Pound	By Gallon	By Area	
Wholesale Batches			

Options	Description
One Batch	Allows the operator to reset a ticket with multiple batches back to one batch.
By Pound	Resize using pounds as the unit of measurement.
Wholesale Batches	Note This is a batch quantity in Dispatcher
Equal Batches	Allows the operator to split the ticket into multiple batches by batch count.
By Gallon	Resize using gallons as the unit of measurement.
By Ton	Resize using tons as the unit of measurement.
By Area	Resize by field acre or hectare depending on system.

Supported Mix Options Selections

Use Mix Options Selections to select which of the standard **Mix Options** are available for use through the touchscreen.

Supported Mix Options Selections	
Fertilizer Process	Fertilizer Loadout
Applicable Fertilizer Processes	Chemical Process
All Process	Chemical Loadout
RETAIL MIXER	Sequence
	Mix Time
PERI MIAER	Batch Quantity

Options	Description
Fertilizer Process	Select to allow fertilizer mixer processes to be used.
All	Select to allow all fertilizer mix process to be used (Retail and Fert mixers). Selecting all will enable both Retail and Fert mixers.
Retail Mixer	Select to only enable Retail Mixers only.
Fert Mixer	Select to only enable Fert Mixers only.
Fertilizer Loadout	Select to enable fertilizer loadouts.
Chemical Process	Select to enable chemical processes.
Chemical Loadout	Select to enable chemical loadouts.
Sequence	Select to enable batch processing sequencing.
Mix Time	Select to enable mix time options.
Batch Quantity	Select to

21.9. Administrative Settings

Administrative settings are normally set during initial system configuration, and do not require ongoing changes. The page is locked down for users outside of AGI technicians. Requests to update the scale information should be made via a support ticket request at **csr.commercial@aggrowth.com**.

Viewing and Configuring Administrative Settings

- 1. Go to Settings > Admin
- 2. View or make changes to the settings below.
- 3. Click Save to save changes. To exit without saving changes, navigate to any other screen.

A	🖯 🔙 Plant Manag	jer			Touch	iscreen Mode	🗟 AGITech	~ 🖿 View ~	A 8 Alerts		×
\equiv		Process	Scales	Ticket	Agronomy	Email	Valves	Printing	Touchscreen	Admin	
	Ticket Manager	License Se	ttings								Î
	ncket Manager	License			Lisense Evoirat	ion Data					
<i>)</i> #	Products	33			12/31/2025	ion Date					
I	Recipes	Database	Connection								
Ê	Formulation Groups	Database Sour	ce*								
	Batch History	.\SQLEXPRE	ss iys Encrypted								
Ê	Reports	Sql	Server Authe	entication							
-	Partners	SuperUser									
×	Equipment	Password*									
	Vessels	Confirm Passw	ord*						Verify Copp	action	
,,	Crops	Connected					_		Verify Conn	ection	
۴	Application Types					Reset					
20	Staff	Language	Settings								
\$	Settings	Default Langu	age		•						
		Linglish									-
0	Help								ave		

License Settings

A Plant Manager license provided by AGI must be entered in **License Settings** for the system to function. When configured with a licence, the system contacts AGI via internet to validate the licence and set the **License Expiration Date**.

Note

Plant Manager will not receive updates without a valid license.

License Settings	
License	License Expiration Date
33	2/20/2021

Database Connection

See Section 21.7 – Database Settings on page 222.

Language

Select the language from the drop-down list.

Language Settings	
Default Language	
English	•

Robot Request Time-out Settings

The Robot Request Time-out settings are used to set the Modbus port and request timeout (in milliseconds) for any connected Process Robot.

Robot Request Timeout Settings		
Process Name	Modbus Port	Request Timeout
DW 4.2	502	600

Updater URL Setting

The Updater URL settings determine which software updates to load and update on start-up.

Updater URL Setting		
Release GA Hotfix	UPDATE URL	RUN UPDATE

Equipment Maintenance

Check the Update Equipment box to use maintenance Alerts.

Equipment Maintenance		
Update Equipment		
Poll Time (seconds)		

Developer Testing



PLANT MANAGER -

AGI is a leading provider of equipment solutions for agriculture bulk commodities including seed, fertilizer, grain, and feed systems with a growing platform in providing equipment and solutions for food processing facilities. AGI has manufacturing facilities in Canada, the United States, the United Kingdom, Brazil, South Africa, India and Italy and distributes its products globally.



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If you have any comments or questions on this manual, or find an error, email us at <u>comments@aggrowth.com</u>. Please include the part number listed on the cover page in your message.