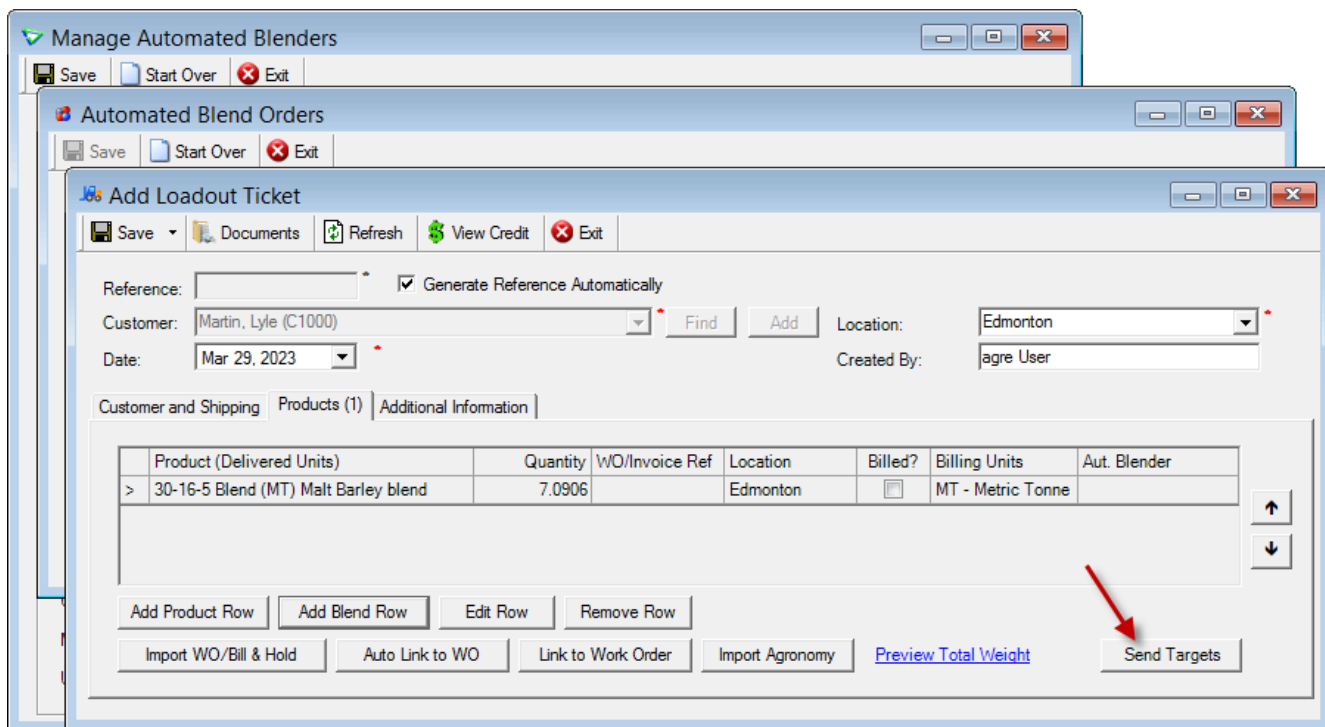


AUTOMATED BLENDER WORK FLOW



This is the process for using agrē with automated blending systems. The systems use similar controls, but not all features are available in each system.

What you'll find:

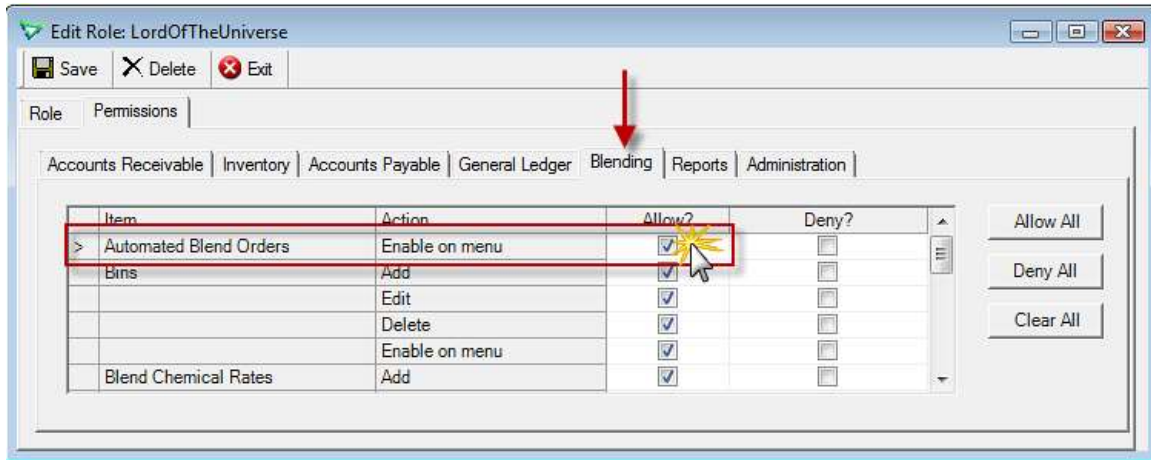
- Before You Blend (one time setup tasks) 2
 - Security Setup 2
 - Automated Blender Setup 3
 - AGI Yargus/Kahler/Stockdales 3
 - ICS/LV/Rancan/Ranco/Shift Innovation 5
 - Easy Automation 10
 - Optional* - Set Loadout Ticket Print Defaults (for all automated blender systems) 13
- Sending the Target Blend 14
- Receiving Actuals 18
 - Printing the Loadout Tickets 20
- Managing Automated Blender Orders 21
- Reporting 22

Before You Blend (one time setup tasks)

Security Setup

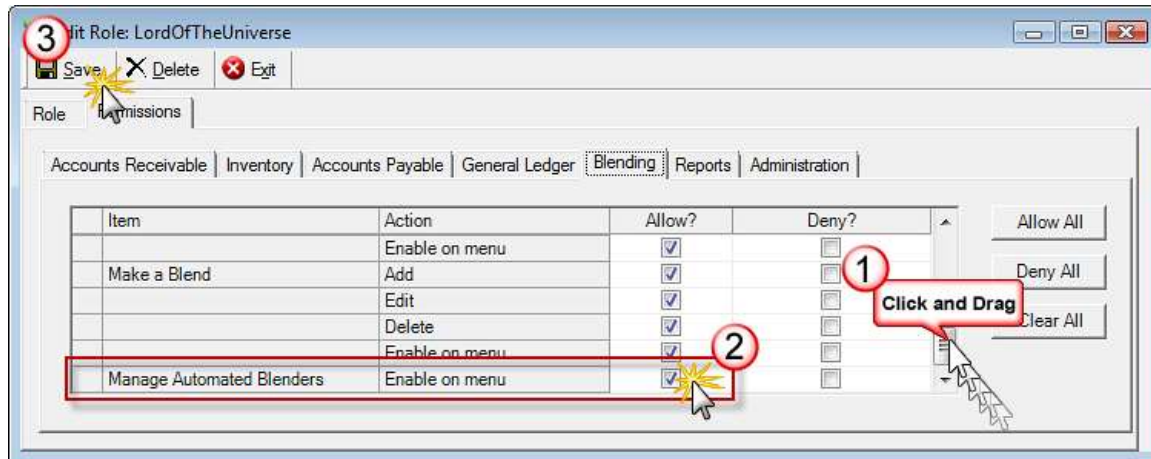
The first thing you'll need to do is give yourself security access to **Automated Blend Orders**.

Navigate to **File > Security > Manage Roles**. Select the appropriate role (e.g. Administrator) and **Edit** the role. Navigate to the **Blend tab**, click **Automated Blend Orders** and click **Allow**.



File > Security > Manage Roles – Blending tab

Still on the **Blending tab**, scroll down to the bottom of the list to **Manage Automated Blenders** and click **Allow**. Click **Save**.

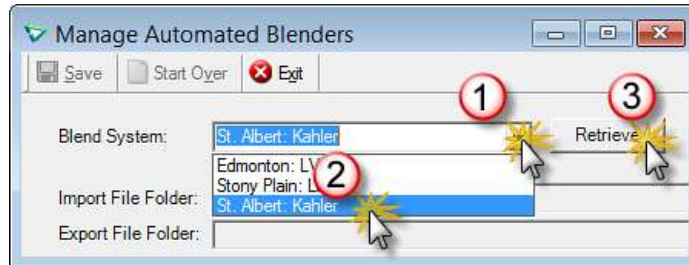


File > Security > Manage Roles – Blending tab

Automated Blender Setup

Before you can start sending blends to an automated blender, you need to let agrē know how it's setup.

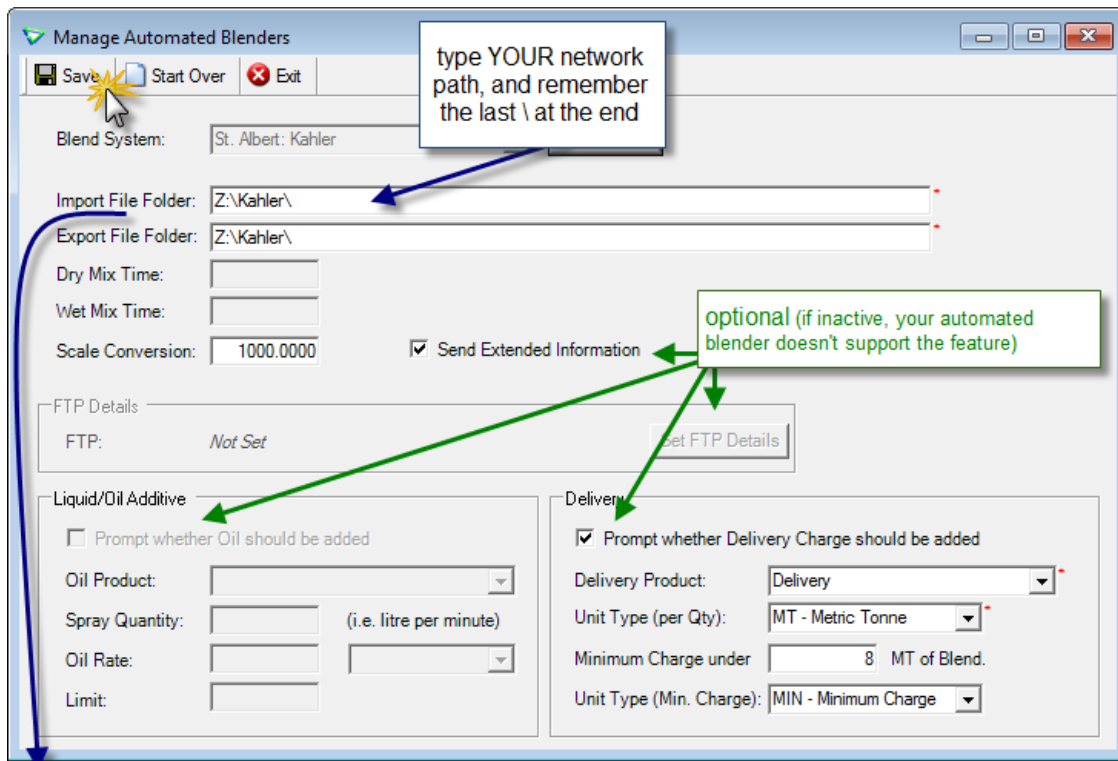
Navigate to **Manage Automated Blenders**. Click on the down arrow next to **Blend System** and choose [*location*]: [*automated blender type*]. Click **Retrieve**.



Blending > Manage > Automated Blenders

Note Not every automated feature is compatible with every automated blender.
If a feature is not displayed, or a value cannot be entered, it is not supported by that *Blend System*.

AGI Yargus/Kahler/Stockdales



Hosted retailers must use the format \\client\X\$\folder\subfolder\ (for both Import and Export folders)
Standalone retailers can use the format X:\folder\subfolder\ (for both Import and Export folders)

Specify the **Import** and **Export** file locations (these will be unique to your network, and will likely *not* match the path shown).

Important The **Import/Export folders** need to be setup on your network and shared out to all local machines and users. All users/workstations running agrē that will send to the automated blender need to have a mapped network drive pointing to these shared folders and the drive letter needs to be the same for each user/workstation. Please consult the documentation supplied with your automated blender for details.

Please contact your company's local IT Support for assistance with setting up the shares on your local network.

Specify the **Scale Conversion** (in this example agrē uses MT and the automated blender uses KG so the conversion is 1000).

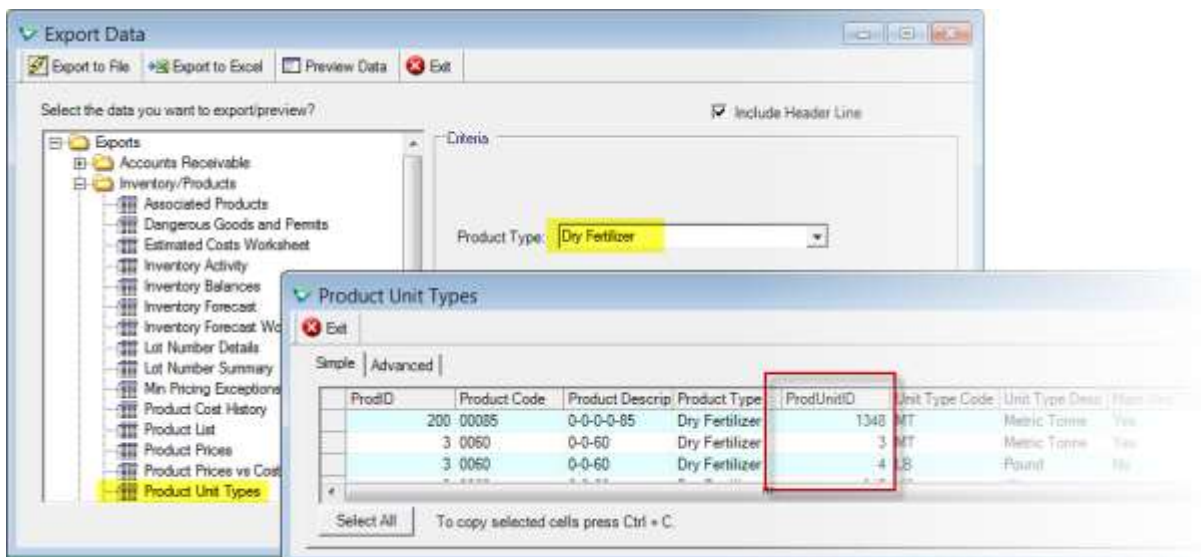
(optional) Check the **Send Extended Blend Information** box to send the blend name, blend description, application rate and acres in addition to the product information to the automated blender.

(optional) Check the **Prompt whether Delivery Charge should be added** box and fill in the details.

Click **Save**.

agrē Product Unit ID Codes

The automated blend system requires **agrē unit codes** (these are entered outside of agrē into the automated blender's software as part of its setup process); you can find these codes in the **Product Unit Types** data export.



File > Exports > Data

ICS/LV/Rancan/Ranco/Shift Innovation

The screenshot shows the 'Manage Automated Blenders' window with the following fields and callouts:

- Blend System:** Edmonton: LV (Callout: type YOUR network paths, and remember the last \ at the end)
- Import File Folder:** Z:\LV\EXPORT\ (Callout: agrē will Export its files to blender IMPORT folder)
- Export File Folder:** \\client\CS\Projects\LVS01150\data\IMPORT\ (Callout: agrē will Export its files to blender IMPORT folder)
- Dry Mix Time:** 15
- Wet Mix Time:** 15
- Scale Conversion:** 1000.0000
- Batch System:** Prompt (Callout: if you have only 1 System, select Primary (1) if you have multiple Systems, select Prompt)
- Blend Notes:** WO/Release Number (radio button) and Blend Description (radio button)
- Include Additional Products:**
- Delivery (optional):**
 - Prompt whether Delivery Charge should be added
 - Delivery Product: Delivery
 - Unit Type (per Qty): MT - Metric Tonne
 - Minimum Charge under: 8 MT of Blend.
 - Unit Type (Min. Charge): MIN - Minimum Charge
- Liquid/Oil Additive:**
 - Prompt whether Oil should be added
 - Oil Product: OILDryBlend - Fertilizer Blending Oil
 - Spray Quantity: 3.2 (i.e. litre per minute)
 - Oil Rate: 0.7 ml per acre
 - Limit: 3

Hosted retailers must use the format: \\client\X\$\folder\subfolder\ (for both Import and Export folders)
Standalone retailers can use the format: X:\folder\subfolder\ (for both Import and Export folders)

Note Not every automated feature is compatible with every automated blender.
 If a feature is not displayed, or a value cannot be entered, it is not supported by that *Blend System*.

Specify the **Import** and **Export** file locations (these will be unique to your network, and will likely *not* match the example path shown),

Important The **Import/Export folders** need to be setup on your network and shared out to all local machines and users. All users/workstations running agrē that will send to the automated blender need to have a mapped network drive pointing to these shared folders and the drive letter needs to be the same for each user/workstation. Please consult the documentation supplied with your automated blender for details.

Please contact your company's local IT Support for assistance with setting up the shares on your local network.

Specify the **Mix Times**, and the **Scale Conversion** (in this example, agrē uses MT and the automated blender uses KG so the conversion is 1000).

Blends will be sent to **Batch System 1** by default, but this can be changed. When **Prompt** is the default, you'll be asked to select the Batch System on the fly when the targets are sent to the automated blender.

(optional) **Include Additional Products** Check if **Additional Products in Blends** will be sent to the automated blender. [Additional product](#) setup will be required.

Depending on which **Blend Notes** option is selected, agrē will send to the automated blender either:

- the **WO Release/Reference Number** or
- the **Blend Description**

(optional) Check the **Prompt whether Delivery Charge should be added** box and fill in the details.

(optional) In the **Liquid/Oil Additive** section, check **Prompt whether Oil should be added** and fill in the details.

The **Spray Quantity** is the *rate* at which the oil is applied in L/Min.

Notes	Changing the Oil Rate (and/or Limit) will be the one task in this section that you will do more than once. This is where you'll go to change the quantity of oil sprayed depending on daily weather conditions, additives, etc.
--------------	--

The **Oil Rate** is how *much* to apply, in either L/MT or mL/acre.

- If **mL/acre** is selected, each blend sent must include acres (agrē will automatically convert mL/acre to L/MT using the blend acres [Oil Rate * Blend Acres / 1000]).

If entered, **Limit** will be the cap for the *maximum* L/MT of oil applied.

Click **Save**.

Customer Setup

Each grower will need their automated blender customer code/member account number added to their customer account.

Navigate to **Accounts Receivable > Manage > Customers**. Search for the customer and **Edit** their account. In the **IBC Member No.** field, add their Integrated Blender Customer Number/Code. **Save** your changes.

The screenshot shows a software window titled "Edit Customer: Carter, Alexander (C0874)". The window has a menu bar with "Save", "Refresh", "History", "Associations", and "Exit". Below the menu bar are tabs for "Customer", "Addresses", "Contacts", "Credit/Finance", "Tax Exceptions", "Permits", "Farm Info", "Notes", "Comments", "CRM", and "Grain". The "Customer" tab is selected. The form contains the following fields:

- Customer Code: C0874
- Last Name/Company: Carter
- First Name: Alexander
- Alias: (empty)
- Location: Dog River
- AR Account: 11210 - Accounts Receivable
- Price Level: Retail
- Sales Representative: Crop Input Sales Rep
- Customer is active: (checked)
- Primary Phone: +1.306.552.1903
- Secondary Phone: 1-306-552-1921
- Fax Number: 13062272246
- Mobile Number: 306.457.9963
- Company Email: alex@carterfams.ca
- Company Website: (empty)
- IBC Member No.: 0874 (highlighted with a red box)

Accounts Receivable > Manage > Customers

Repeat for all customers in locations with the automated blender.

Blend Product Setup

Each product will need a unique Controller Mapping Code.

Navigate to **Inventory > Manage > Products**. Search for the blend product and **Edit**. Fill in the **Controller Mapping Code** (must be a whole number). **Save** your changes.

The screenshot shows a software window titled "Edit Product: 4600 - 46-0-0". The window has a menu bar with "Save", "Refresh", "Delete", "Prices/Taxes", and "Exit". Below the menu bar are tabs for "Product", "Units", "Inventory", "Notes", "Associated Products", "Blending", "Manufacturing", "Dangerous Goods", and "Regulations". The "Blending" tab is selected. The form contains the following fields:

- Density: 45.0000
- Controller Mapping Code: 4600 (highlighted with a red box)
- Product Makeup table:

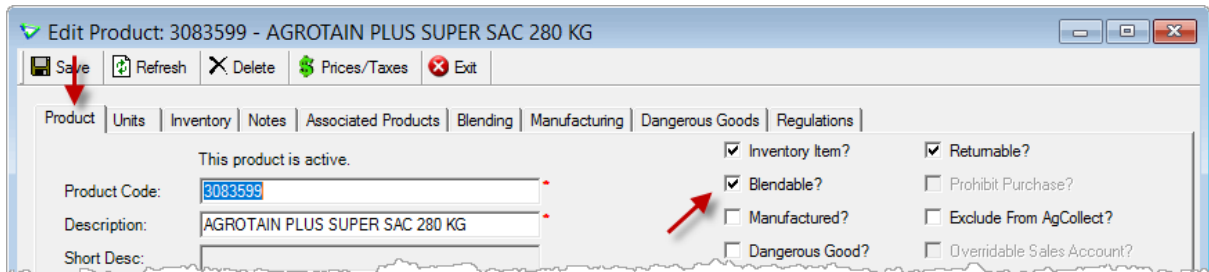
Nutrient	Percent
> N - Nitrogen	46%
*	

Inventory > Manage > Products

Repeat for all products that will be blended in the automated blender.

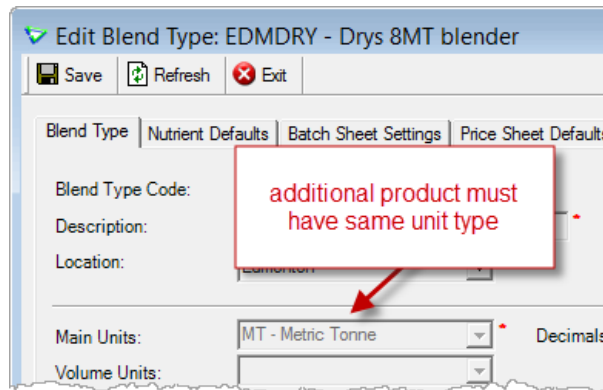
LV/Ranco/Shift Innovation Only: Additional Product in Blend Setup

Navigate to **Inventory > Manage > Products**. Search for the blend product and **Edit**. Check **Blendable**.



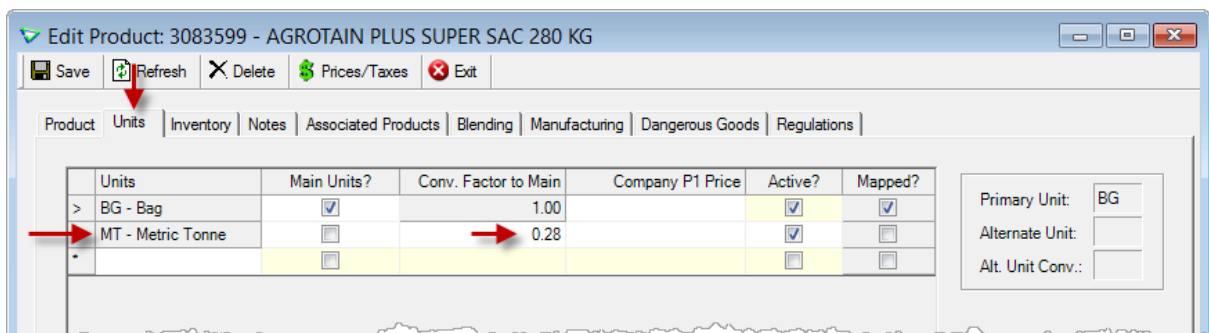
Inventory > Manage > Products

Ensure the Main Unit of the Blend Type ...



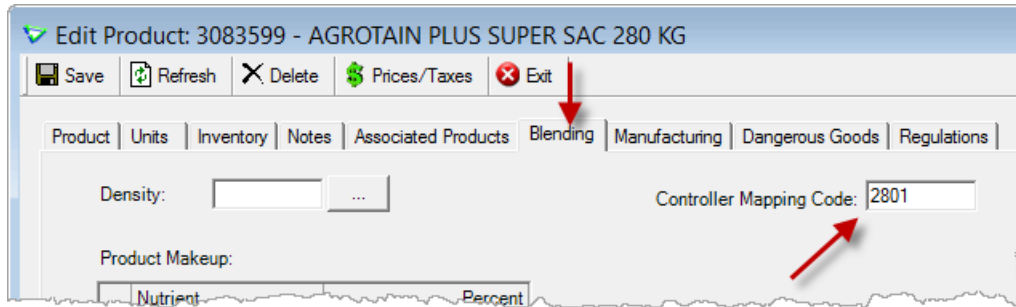
Blending > Manage > Blend Types

... is listed as a **Unit Type** with a **Conversion Factor**.



Inventory > Manage > Products

Fill in the **Controller Mapping Code** (must be a unique whole number).



Inventory > Manage > Products

Save your changes.

Repeat for all additional products that will be added to blends sent to the automated blender.

Easy Automation

Blend System: St. Albert: EasyAuto Retrieve

Import File Folder: Managed by Webservice

Export File Folder: Managed by Webservice

Dry Mix Time:

Wet Mix Time:

Scale Conversion: 1000.0000

Update Total Blend Qty

Include Additional Products

Delivery optional

Prompt whether Delivery Charge should be added

Delivery Product: Delivery

Unit Type (per Qty): MT - Metric Tonne

Minimum Charge under 8 MT of Blend.

Unit Type (Min. Charge): MT - Metric Tonne

Specify the **Scale Conversion** (in this example agrē uses MT and the automated blender uses KG so the conversion is 1000).

Update Total Blend Qty When **Receiving Actuals**, retrieve the actual Total Quantity instead of the actual quantities of each commodity.

(optional) **Include Additional Products** Check if **Additional Products in Blends** will be sent to the automated blender. [Additional product](#) setup will be required.

Note Additional Products are not included in the Total Blend Quantity.

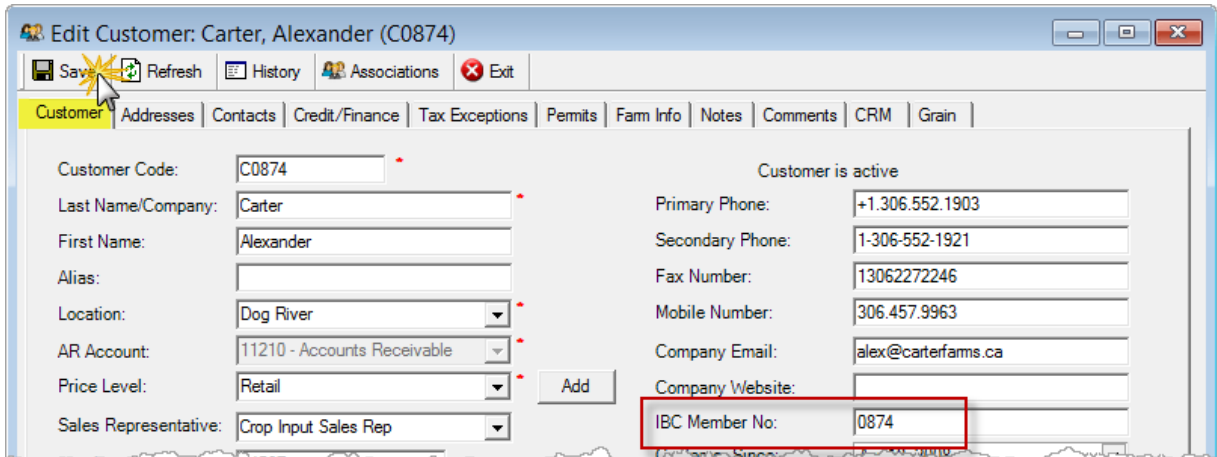
(optional) Check the **Prompt whether Delivery Charge should be added** box and fill in the details.

Easy Automation blenders are connected through a web service and require a **static IP address**. If this is your first Easy Automation blender you will need to purchase a static IP from your internet service provider and pass on this information to Tronia so we can setup a port forwarded to your blender's server. Please note that there may be setup of additional network infrastructure at the blender location.

Customer Setup

Each grower will need their automated blender customer code/member account number added to their customer account.

Navigate to **Accounts Receivable > Manage > Customers**. Search for the customer and **Edit** their account. In the **IBC Member No.** field, add their Integrated Blender Customer Number/Code. **Save** your changes.



The screenshot shows a software window titled "Edit Customer: Carter, Alexander (C0874)". The window has a menu bar with "Save", "Refresh", "History", "Associations", and "Exit". Below the menu bar are tabs for "Customer", "Addresses", "Contacts", "Credit/Finance", "Tax Exceptions", "Permits", "Farm Info", "Notes", "Comments", "CRM", and "Grain". The "Customer" tab is selected. The form contains the following fields:

- Customer Code: C0874
- Last Name/Company: Carter
- First Name: Alexander
- Alias: (empty)
- Location: Dog River
- AR Account: 11210 - Accounts Receivable
- Price Level: Retail
- Sales Representative: Crop Input Sales Rep
- Customer is active: (checked)
- Primary Phone: +1.306.552.1903
- Secondary Phone: 1-306-552-1921
- Fax Number: 13062272246
- Mobile Number: 306.457.9963
- Company Email: alex@carterfams.ca
- Company Website: (empty)
- IBC Member No.: 0874 (highlighted with a red box)

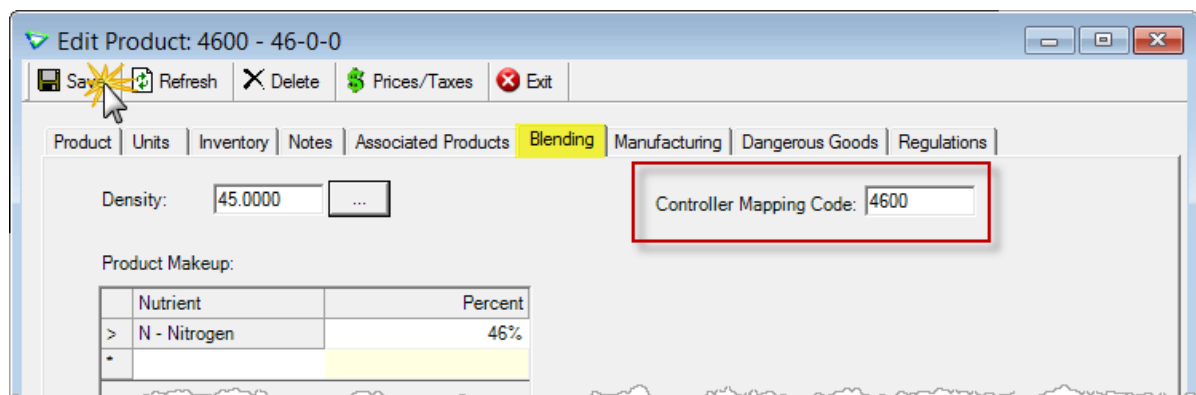
Accounts Receivable > Manage > Customers

Repeat for all customers in locations with the automated blender.

Blend Product Setup

Each product will need a unique numeric-only Controller Mapping Code.

Navigate to **Inventory > Manage > Products**. Search for the blend product and **Edit**. Fill in the **Controller Mapping Code** (must be a whole number). **Save** your changes.



The screenshot shows a software window titled "Edit Product: 4600 - 46-0-0". The window has a menu bar with "Save", "Refresh", "Delete", "Prices/Taxes", and "Exit". Below the menu bar are tabs for "Product", "Units", "Inventory", "Notes", "Associated Products", "Blending", "Manufacturing", "Dangerous Goods", and "Regulations". The "Blending" tab is selected. The form contains the following fields:

- Density: 45.0000
- Controller Mapping Code: 4600 (highlighted with a red box)
- Product Makeup table:

Nutrient	Percent
> N - Nitrogen	46%
*	

Inventory > Manage > Products

Repeat for all products that will be blended in the automated blender.

Additional Product in Blend Setup

Navigate to **Inventory > Manage > Products**. Search for the blend product and **Edit**. Check **Blendable**.

The screenshot shows the 'Edit Product' window for 'AGROTAIN PLUS SUPER SAC 280 KG'. The 'Product' tab is active. The 'Blendable?' checkbox is checked, and a red arrow points to it. Other checkboxes include 'Inventory Item?', 'Returnable?', 'Manufactured?', 'Dangerous Good?', 'Prohibit Purchase?', 'Exclude From AgCollect?', and 'Overridable Sales Account?'. The 'Product Code' is 3083599 and the 'Description' is AGROTAIN PLUS SUPER SAC 280 KG.

Inventory > Manage > Products

Ensure the Main Unit of the Blend Type ...

The screenshot shows the 'Edit Blend Type' window for 'EDMDRY - Dries 8MT blender'. The 'Blend Type' tab is active. The 'Main Units' field is set to 'MT - Metric Tonne'. A red box highlights this field with the text 'additional product must have same unit type' and a red arrow pointing to it. Other fields include 'Blend Type Code', 'Description', 'Location', and 'Volume Units'.

Blending > Manage > Blend Types

... is listed as a **Unit Type** with a **Conversion Factor**.

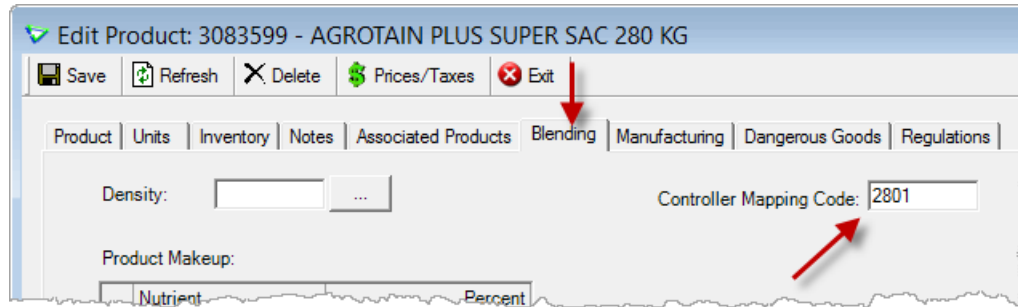
The screenshot shows the 'Edit Product' window for 'AGROTAIN PLUS SUPER SAC 280 KG' with the 'Units' tab active. A table lists units with their conversion factors. Red arrows point to the 'MT - Metric Tonne' row.

Units	Main Units?	Conv. Factor to Main	Company P1 Price	Active?	Mapped?
> BG - Bag	<input checked="" type="checkbox"/>	1.00		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
→ MT - Metric Tonne	<input type="checkbox"/>	→ 0.28		<input checked="" type="checkbox"/>	<input type="checkbox"/>
*	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>

Primary Unit: BG
Alternate Unit:
Alt. Unit Conv.:

Inventory > Manage > Products

Fill in the **Controller Mapping Code** (must be a unique whole number).



Inventory > Manage > Products

Save your changes.

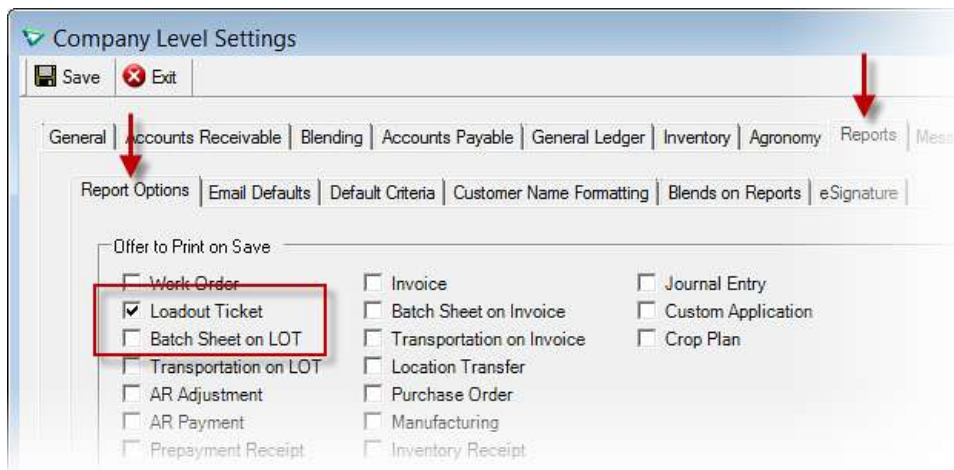
Repeat for all additional products that will be added to blends sent to the automated blender.

Optional - Set Loadout Ticket Print Defaults

(for all automated blender systems)

Let agrē know if you want to print each Loadout Ticket (or any other report) after you save it.

Navigate to **Company Level Settings**. Click on the **Reports tab**, then the **Report Options** subtab. In the **Offer to Print on Save** box, check the appropriate boxes. **Batch Sheets** are not normally needed for automated blenders.

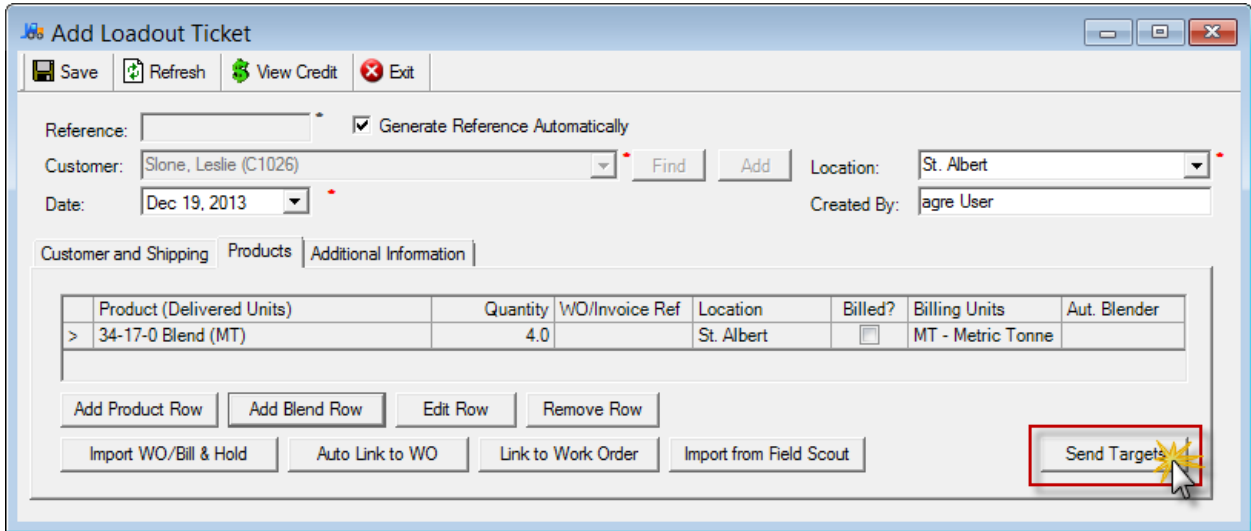


File > Config Options > Company / Reports / Printing Options

When you save a Loadout Ticket for the first time you'll be prompted to print only what you need.

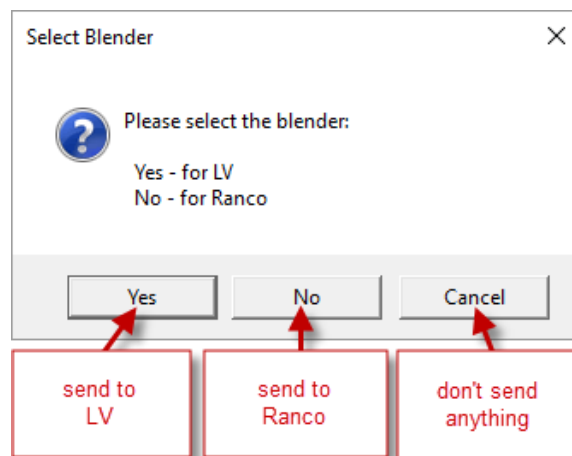
Sending the Target Blend

Targets are sent to automated blenders from a **Loadout Ticket**.
Add a blend to the LOT and click **Send Target**.



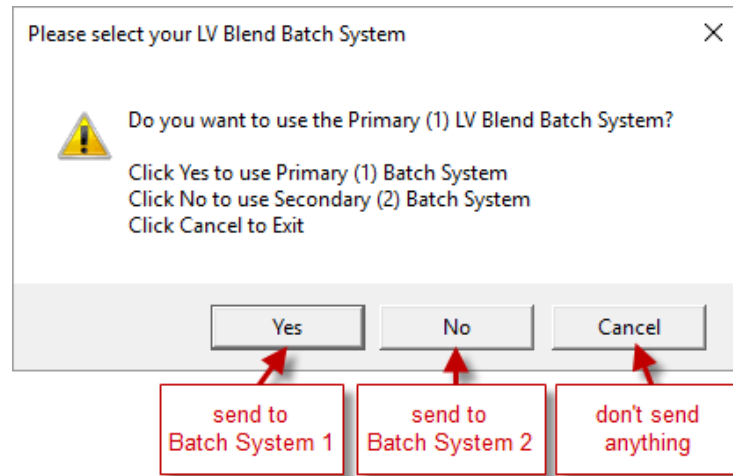
Caution If you are going to link this blend to work order(s) wait until AFTER you receive the actuals.

If you have more than one blender at a Location, you will be prompted to **Select Blender** for the targets.



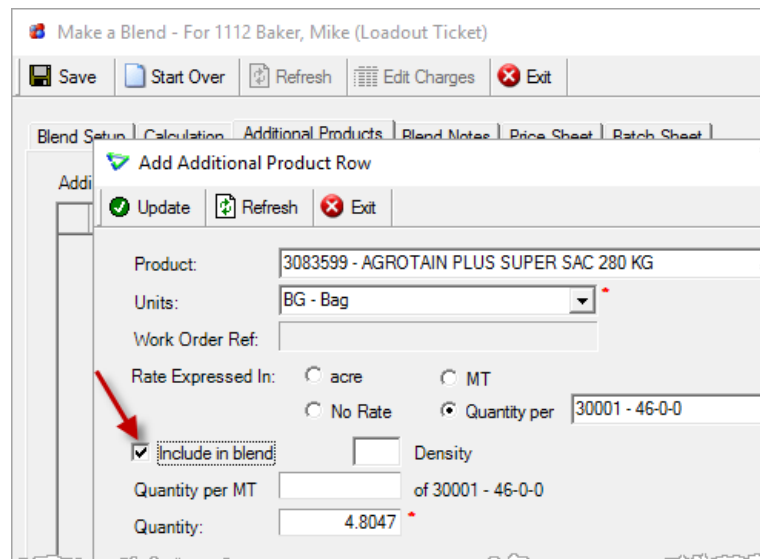
LV/Rancan/RANCO/Shift Innovation Blenders Only

Depending on the default **Batch System** selected in the **Automated Blender Setup**, you may be prompted to **Select your Batch System**.



Easy Auto/LV/Ranco/Shift Innovation Blenders Only

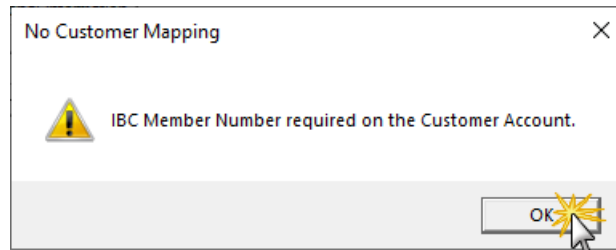
When Making a Blend, any **Additional Product** that will be blended must be flagged as **Include in Blend**.



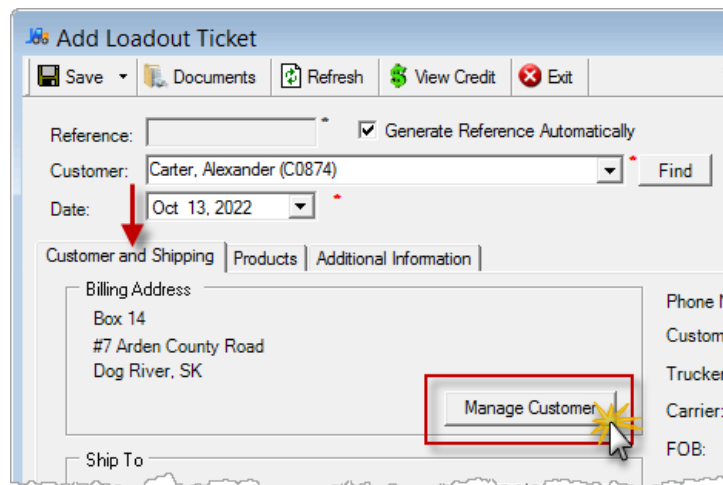
Accounts Receivable > Loadout Ticket > Add Blend

All Auto Blenders

If you receive the “**No Customer Mapping**” warning, it’s an indication that the IBC Member No (integrated blend control number) is missing from the customer’s account. You will need to edit the customer’s account and add the IBC customer code to the **IBC Member No.** field before you can send their blends to the automated blender.

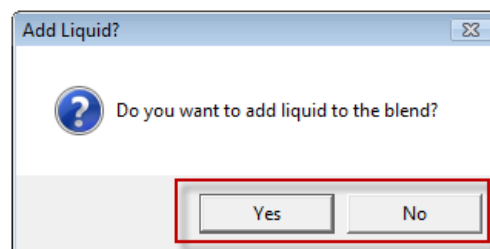


To add an **IBC Member No.** to the [customer account](#) on the fly from the LOT, navigate to the **Customer and Shipping tab** and click **Manage This Customer.**

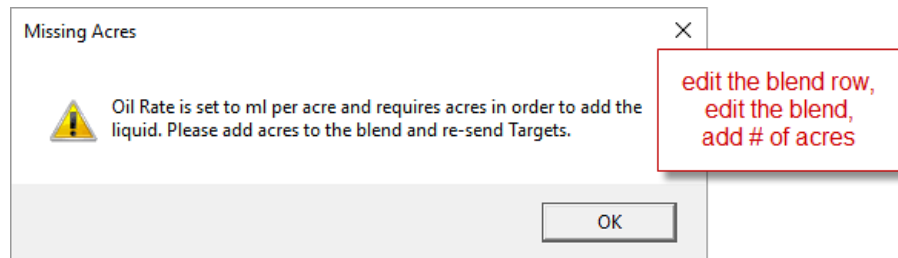


Accounts Receivable > Manage > Customers

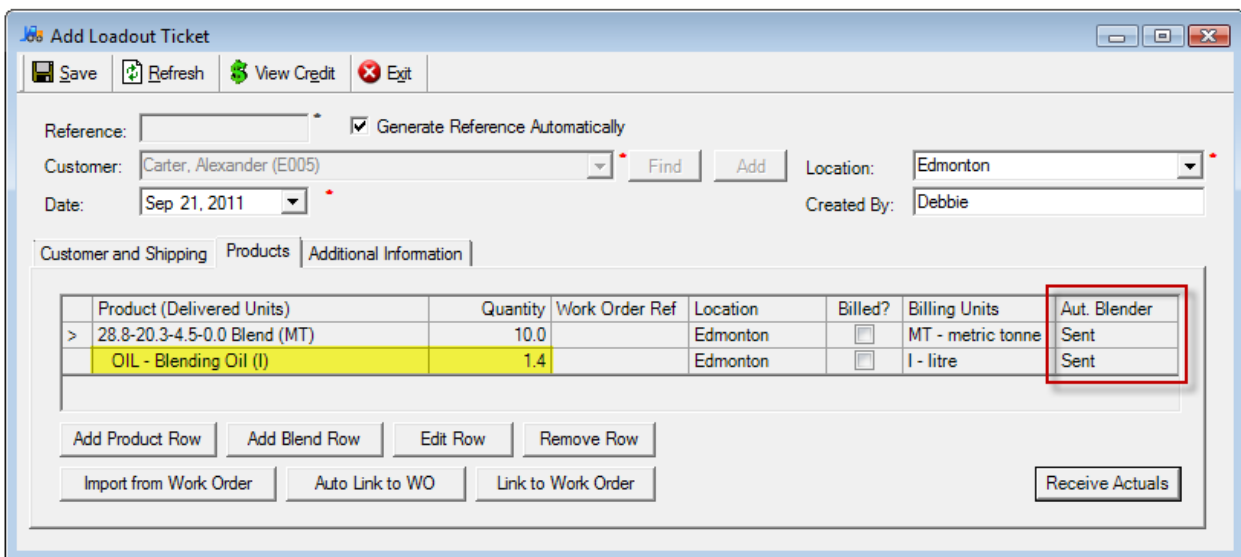
If you’ve specified to be [prompted for an oil product](#), you’ll be asked if you want to add liquid to the blend. Click **Yes** to add it, or **No** to leave it out.



If you've chosen an oil application rate based on **ml/acre**, and the blend sent has no acres (e.g. it was calculated based on Quantities instead of NPK), you will be prompted to edit the blend.

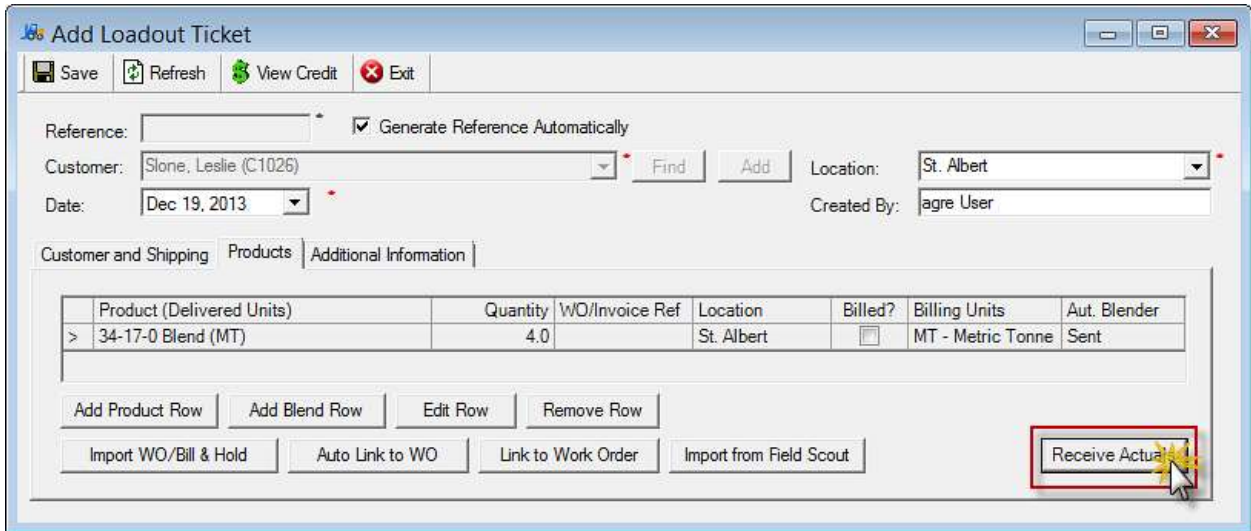


The **Automated Blender status** changes to **Sent**. If you chose to add oil, that product is added to the LOT in the quantity calculated by the rate specified.



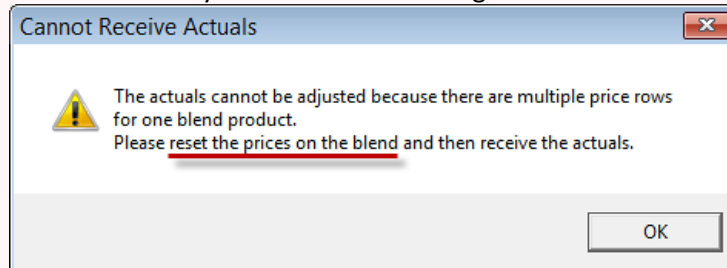
Receiving Actuals

After the blend is mixed, click **Receive Actuals**.



Caution If you are going to link this blend to work order(s) wait until AFTER you receive the actuals.

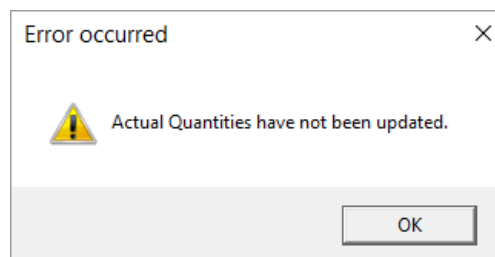
If you forgot and linked before, and any product row was split, when you Receive Actuals you will see this message:



You will need to edit the blend, **Reset Links**, and save the blend. Then you can receive the actuals, and re-link the blend.

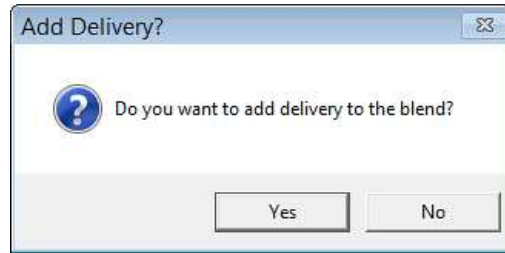
LV Blenders Only

LV blenders require approximately 2 minutes after the end of Batch/Accept Weight to generate the Actuals file agrē will import. You'll see an error if you don't wait quite long enough.

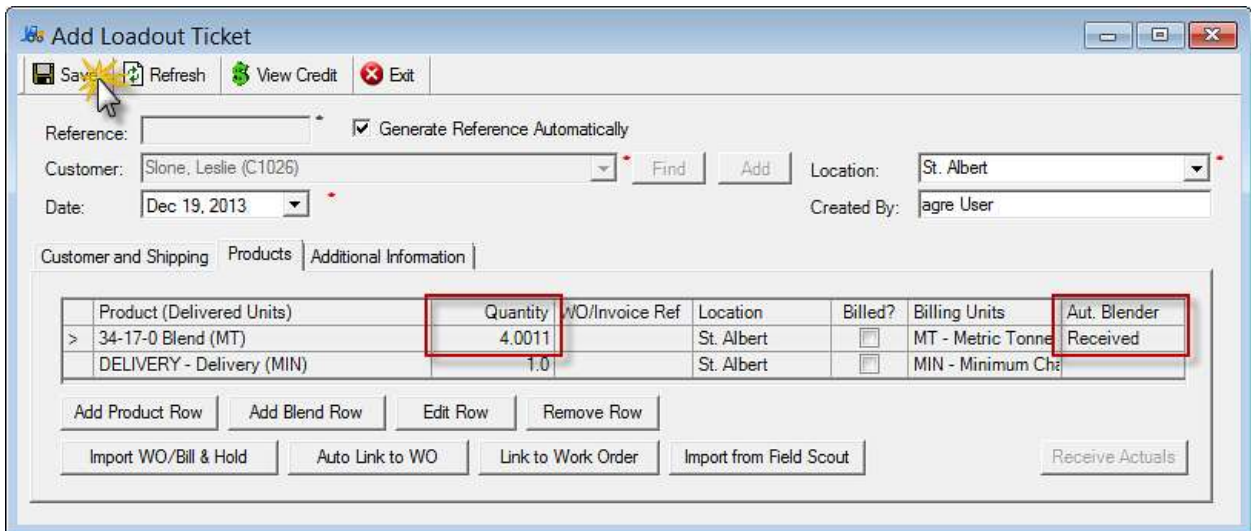


All Auto Blenders

If you've specified to be prompted for **delivery**, you'll be asked if you want to add delivery to the loadout ticket. Click **Yes** to add it, or **No** to leave it off.



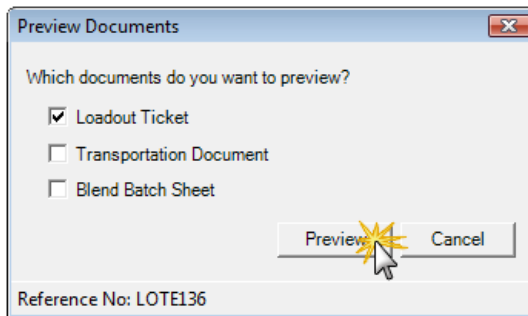
The **Automated Blender status** changes to **Received**, and the blend product quantities are the actual quantities used to make the blend. **Save** the Loadout Ticket.



Now that you've got the actuals back, you can link to a work order (if needed).

Printing the Loadout Tickets

If you've specified that you want to [print LOTs on Save](#), agrē will prompt you to print. Click **Preview** (pressing ALT+P is the keyboard shortcut).



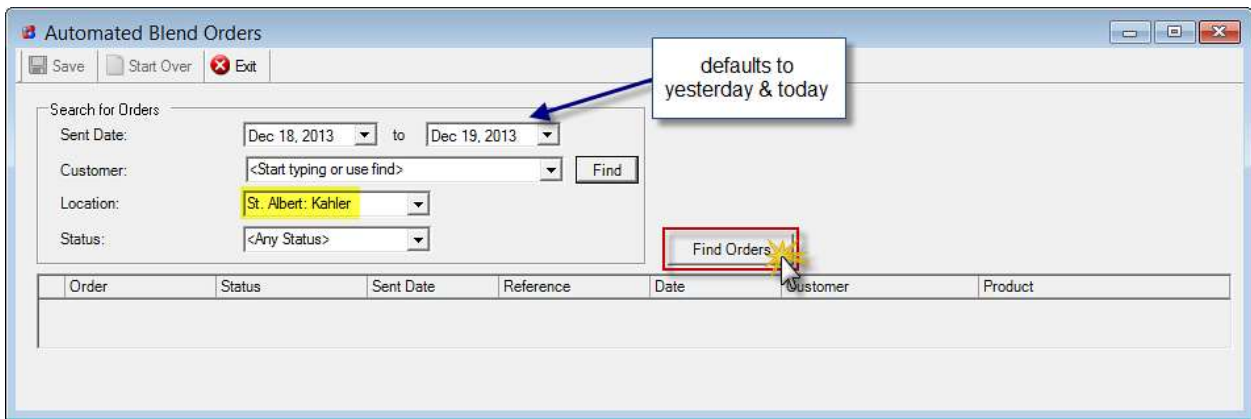
Managing Automated Blender Orders

The purpose of managing **Automated Blend Orders** is to allow you to change the Status of a Blend Order manually. This would only be needed if there was a deviation from the usual process. For example, an order was sent to the automated blend control system then it was realized that it could not (or should not) be loaded.

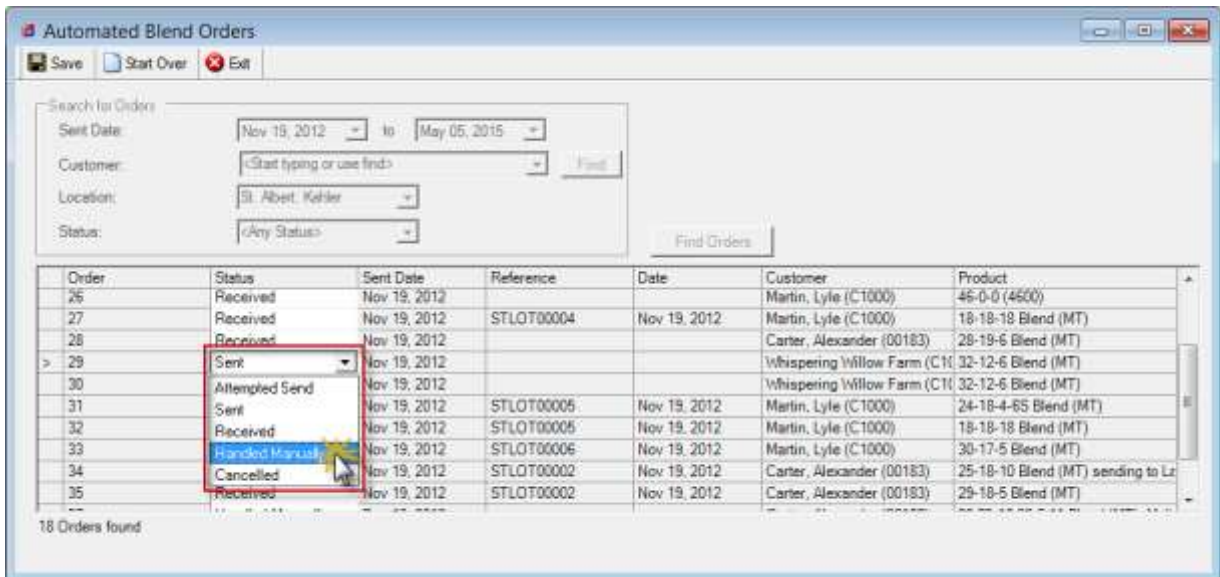
The only column that can be edited on this form is the **Status**, but you can change the status of any order to any status.

Navigate to **Blending > Automated Blend Orders**.

Select the relevant location and dates, then click **Find Orders**.



Click the dropdown arrow next to the order you want to change and select the new status. **Save** your changes.



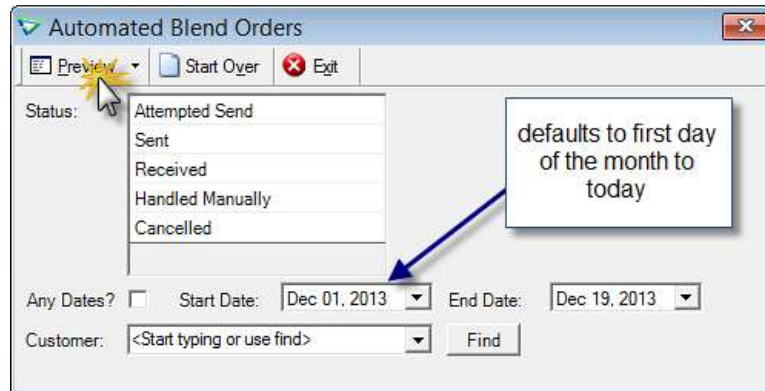
Tip

The **Automated Blend Orders** are sorted ascending by Order number by default, but you can click on any column header to change it.

Reporting

The **Automated Blend Orders report** provides you with the details about each order sent to the automated blending system.

Navigate to **Blending > Reports > Automated Blend Orders**.
Specify the criteria and click **Preview**.



Each order that has been sent to the system is listed, along with its details.

Order No.	Status	Release No.	Sent Date	Received Date	Customer
59	Received		Dec 19, 2013	Dec 19, 2013	Leslie Slone(C1026)
		SALOT34	34-17-0 Blend (MT)		
			Product		Target Qty Actual Qty
			11-52-0 - 1152 (MT)		1.3237 1.3242
			46-0-0 - 4600 (MT)		2.6763 2.6769