

Ranco / Agvance Interface for Agvance Blending

Last Modified on 05/18/2026 3:58 pm CDT

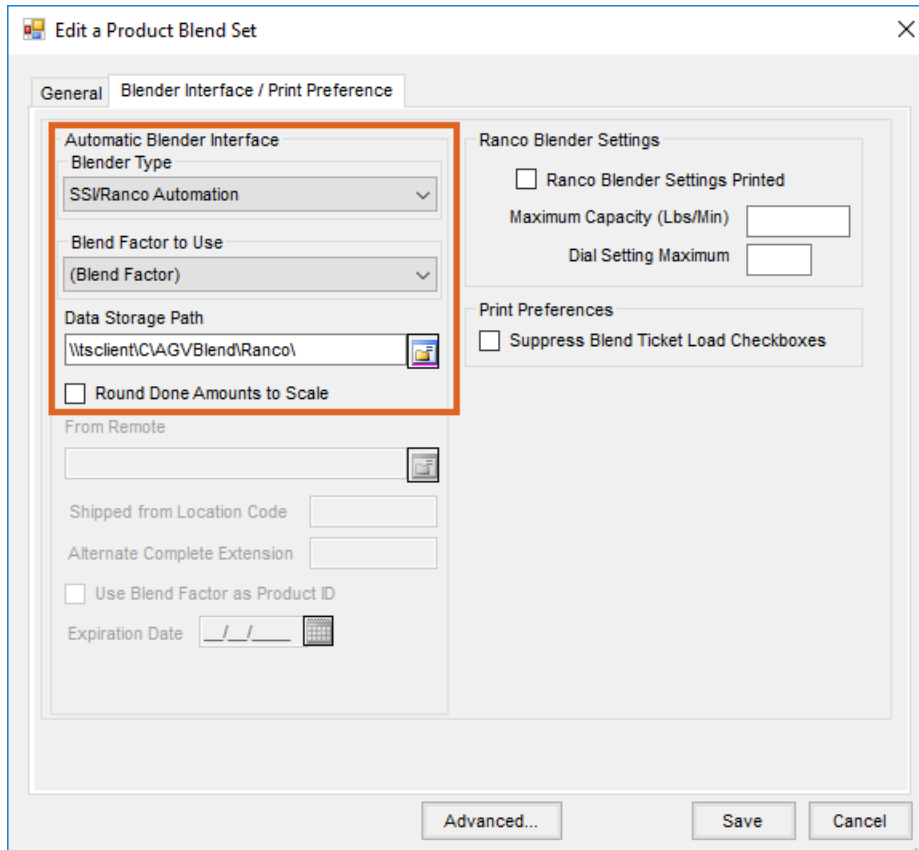
The Ranco™/Agvance interface may be set up and used with the Agvance Blending module.

Setup

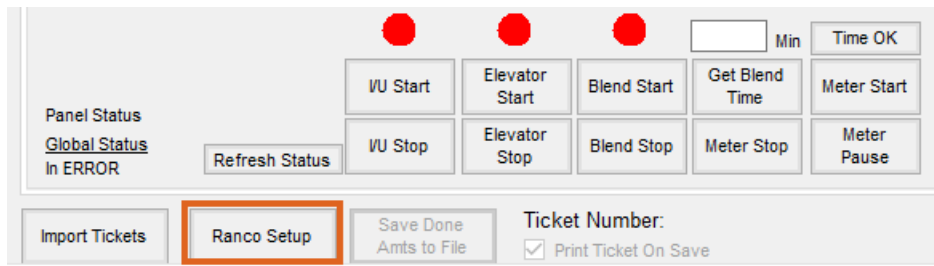
The following setup instructions should be completed before using the Ranco™/Agvance interface.

1. Navigate to *Blending / Setup / Product Sets*. Edit the necessary Product Set, and on the *Blender Interface / Print Preference* window, set the *Blender Type* to *SSI/Ranco Automation*. If captured scale weights will be read from Ranco™, establish the data storage path for each Product Set being used for the blender interface.

Note: Optionally select the *Round Done Amounts To Scale* option. This rounds the finished amount from Ranco to the Agvance scale settings on the Agvance blend when returning final amounts.



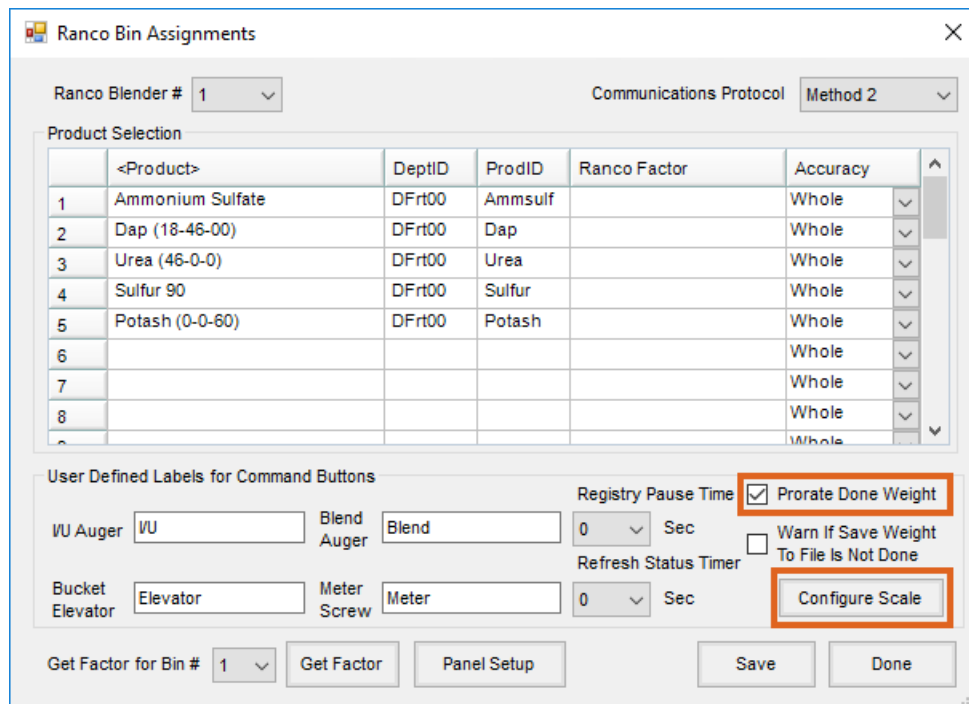
2. On the *Blending / Utilities / Automated Blender Interface* window, select the **Ranco Setup** button.



Double-click in each row of the *Ranco Bin Assignments* window to select the Agvance Product corresponding with each bin number assigned in the Ranco Panel. There are two options for prorating the weight of the mix after it is complete:

- a. Manually enter the weight from the scale head. If this is the desired process, select the *Prorate Done Weight* option.
- b. Capture the weight from the scale head. If this is the desired process, select the **Configure Scale** button, and set up the data to read from a scale head (in addition to selecting the *Prorate Done Weight* option).

Note: To configure the scale head, it is recommended to have a hardware person and/or representative from the scale company on site.



3. Select the **Panel Setup** button on the *Ranco Bin Assignments* window. If reading final weights back into the Blend Ticket, the *Data Storage Path* must be complete. The *Node Addresses* and *Com Port* must be set up correctly

Comm Port Setup

Master Node Panel

Pannel 1 Node Address: Node 1 16

Pannel 2 Node Address: Node 2 1

Pannel 3 Node Address: Node 3

Pannel 4 Node Address: Node 4

Pannel 5 Node Address: Node 5

Comm Port 3 Blank Node Address means that this port is not used.

Data Storage Path:

- In some cases, it may be necessary to enter the total weight leaving on a truck so it will be reflected on the Print Ticket (*Capture Weight* window) documents. This is necessary if a semi load had to be broken into multiple batches to accommodate the blender hopper capacity. To allow this, navigate to *Hub / Setup / Users*. Edit the User needing this ability, and select the *Allow Changing Printout Weight (Ranco)* option.

Edit a User Robert Ellis (1RE)

Profile General Restrictions Advance Apps

Restricted G/L Categories

	G/L Categories	Restricted
1	Asset (Current)	<input type="checkbox"/>
2	Asset (Inter.)	<input type="checkbox"/>
3	Asset (Long Ter...)	<input type="checkbox"/>
4	Liability (Current)	<input type="checkbox"/>
5	Liability (Inter.)	<input type="checkbox"/>
6	Liability (Long T...	<input type="checkbox"/>

Restricted Locations

	Location ID	Products	Customers	Login	Vendors
1	00MAIN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	01IND	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	02MISO	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	03MINN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	04STIN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Right Click on a Locations Restricted value to copy down to other locations

Restricted Profit Centers

	Profit Center	Restricted
1	00	<input type="checkbox"/>
2	01	<input type="checkbox"/>
3	02	<input type="checkbox"/>
4	03	<input type="checkbox"/>
5	04	<input type="checkbox"/>
6	05	<input type="checkbox"/>

Allow CRM Category/SubCategory edits
 Allow Access to Custom Reports Export
 Allow Changing Printout Weight (Ranco)
 Ignore NIST Handbook 44 Standards

Login Location Default: Current
 Customer Location Default: Current
 Applicator Location Default: Current
 Employee Dept Location Default: Current
 Profit Center Location Default: Current
 Product Location Default: Current
 Vendor Location Default: Current
 Vehicle Location Default: Current
 Dispatch Work Order Default: Agronomy
 Mobile Inventory - Disallow Quantity Entry:

View Cost Information

Restrict From Average Cost
 Restrict From Last Cost
 Restrict From Replacement Cost
 Restrict From Estimated Average Cost
 Restrict From Replacement 2 Cost
 Restrict From Replacement 3 Cost
 Restrict From Replacement 4 Cost

Require Apbills to be on Hold
 Allow access to user setup without a password
 Restrict from Settlement Paynames with Mortgagor
 Check Database Image while Logging in
 Allow Access To Administrative Passwords
 Disallow Invoice Column Edits On Product Sets
 Default to Edit button at File/Open/Product Select
 Display all Send Data to SSI Errors

Using the Interface

1. Create a Blend Ticket in Agvance Blending.

Customer ID: AndBa, Field ID: WireWest, Blend Type: Calculated Analysis, Crop Chemistry: [dropdown], Quantity: 65.590 Acres, Product Set: 00-BasicDry, Optimize By: Average Cost, Price By: Blended Analysis (Lbs/Acr), Time: 8:10:19 AM, Ordered Date: 06/01/2024, Loaded Date: [calendar icon]

<Billing Notes>: User Fertilizer Prepay

<N>: 50.00, <P>: 92.00, <K>: 60.00, <S>: [empty], UD: [empty], <Ca>: [empty], <Mg>: [empty], <Zn>: [empty], <Fe>: [empty], <Mn>: [empty], <Cu>: [empty], B: [empty]

Formulate By: Lbs of Plant Food, Guaranteed Analysis

Lbs of Analysis: 100, Gal of Analysis: [empty]

Buttons: View Analysis, Show Splits, Additional Info..., Edit to Actual, Capture Blender, Save, Cancel, Print on Save

2. In this example, Urea, DAP, and Potash are used with a service item. Any non-analysis items, such as application, will not be sent to the Ranco Panel.

Acres: 65.590, Set: 00-BasicDry, Target lbs of Analysis: 100, Reorder Products

	<Product Name>	Rate/Acre	Unit	Total Product	Unit	Blended	Blended Unit	Scale
1	Urea (46-0-0)	30.435	Lbs	1996.232	Lbs	2000.000	Lbs	1
2	Dap (18-46-00)	200.000	Lbs	13118.000	Lbs	13120.000	Lbs	1
3	Potash (0-0-60)	100.000	Lbs	6559.000	Lbs	6560.000	Lbs	1
4	Dry Spreading	1.000	Acre	65.590	Acre	65.590	Acre	5

Buttons: Recalc using Rate/Acre, Recalc using Total Product, Recalc using Blended, Recalc using Scale, Apply, <Ship From Location>, Density: 61.136, % Water: 0, % Clay: 0, CuFt/Acre: 5.405, Total CuFt: 354.514, Est Salt Out Temp: N/A, Lbs/Acre: 330.435, Total Lbs: 21680, Est Temp Change: 0

Buttons: View Analysis, Show Splits, Additional Info..., Edit to Actual, Capture Blender, Save, Cancel, Print on Save

3. On the *Blending / Utilities / Automated Blender Interface* window, select the **Import Tickets** button.

Batch Total Weight

Panel Status
Global Status
OK

Ticket Number: Print Ticket On Save

- Select the Blend Ticket to be mixed, and choose **OK**.

Select A Blend Ticket

Select a Customer

Customer Name	Customer ID
Altmann Michael	239789
Anderson Barry	AndBa
Anerton Telma	237501
Angleberger Ernest	238844
Angviano Mac	239542
Ankeny Thad	235763
Anslinger Alva	238027
Antonia Mitchell	239310
Arana Emerson	239112

Customer Name

Customer Location

Ticket # Location

Control #

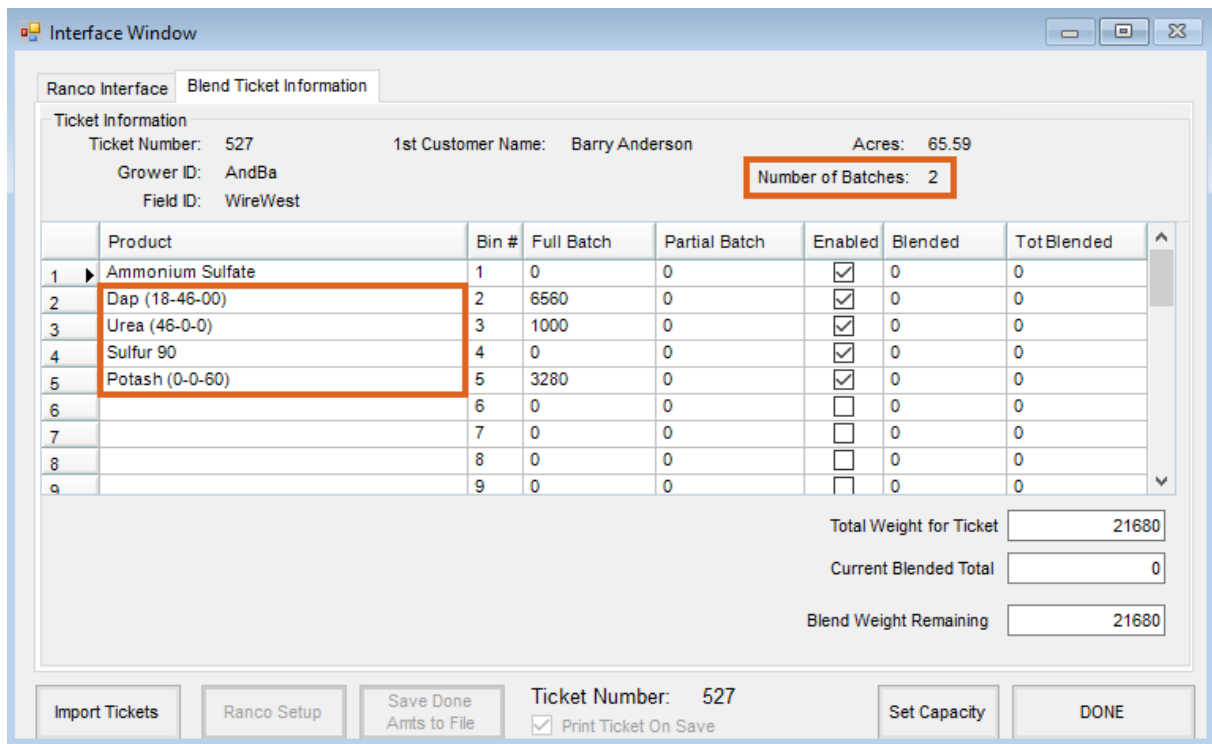
Select a Field For Anderson Barry

Field ID	Description	Field #
Long	Barrys East of lane	3
WireEast	Wire East	4
WireMid	Wire Middle	5
WireWest	Wire West	6

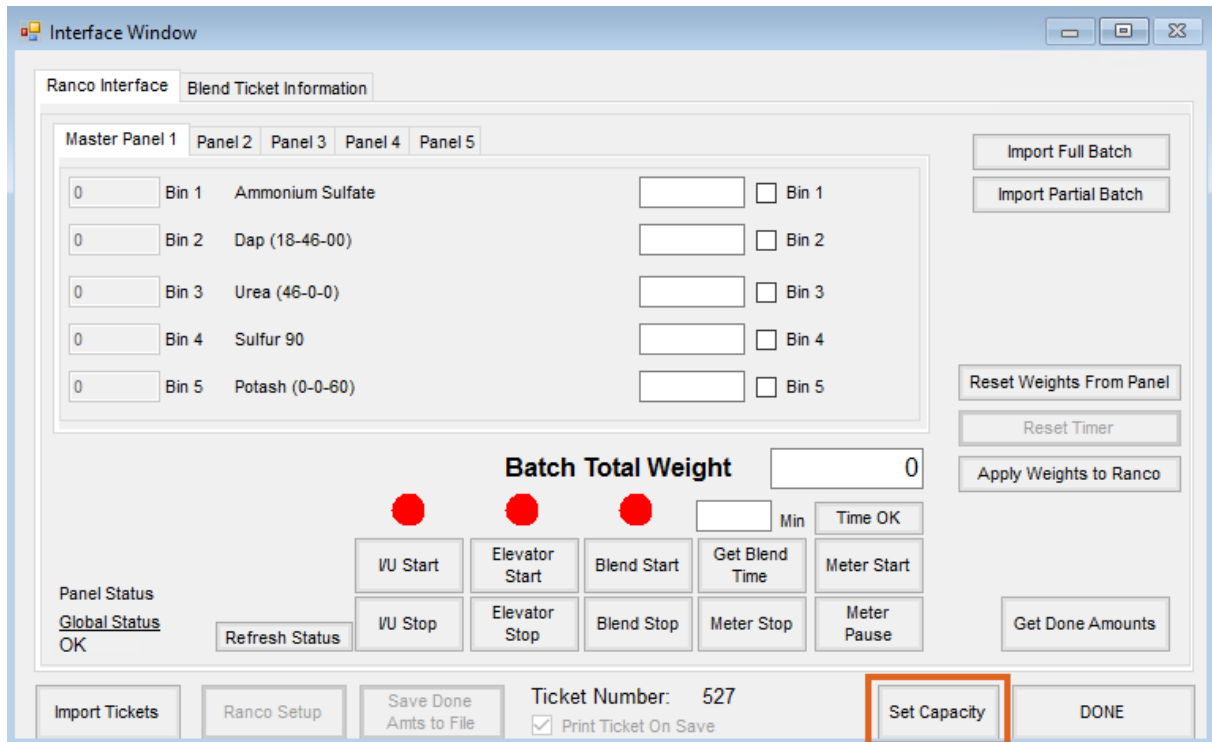
Field ID

Ticket #	Location	Zone	Plan	Comments	Status
526	00MAIN	All		User Fertilizer Pre...	Blend
527	00MAIN	All		User Fertilizer Pre...	Blend

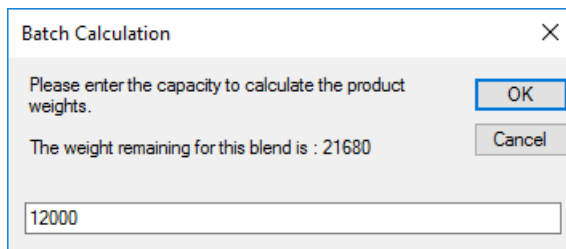
- The *Blend Ticket Information* tab displays various details of the Blend Ticket. In addition, the *Number of Batches* and weight for each Product per batch based on the batch breakdown determined on the *Blend* tab of the Blend Ticket appears on this tab.



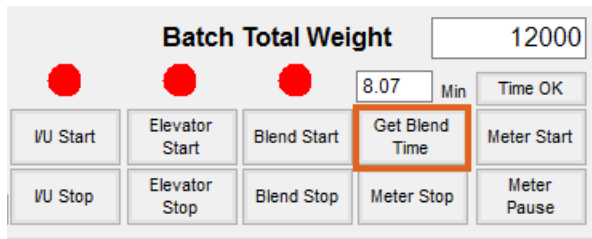
6. Select the **Set Capacity** button.



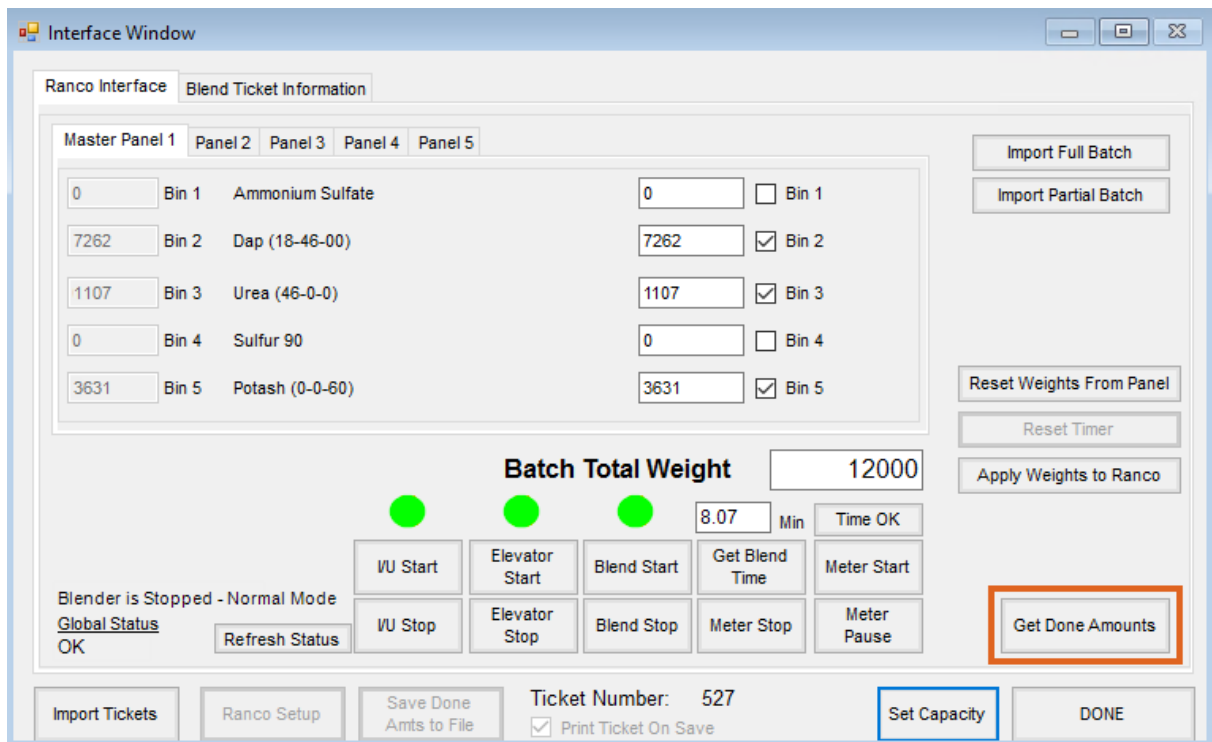
Note: The full amount of the blend defaults into the following *Batch Calculation* window. If this mix needs made in multiple batches, enter the full amount to be mixed in the first batch as shown below.



- After the Capacity has been entered, choose the **Get Blend Time** button on the *Ranco Interface* tab. Start mixing product by choosing the following buttons from left to right: **I/U Start**, **Elevator Start**, **Blend Start**, and **Meter Start**.

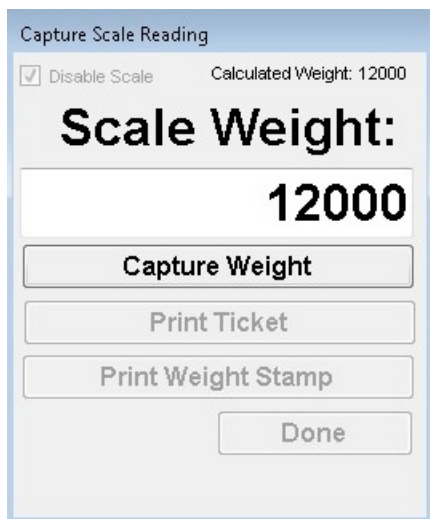


- The Ranco Panel is enabled when the product has run through. Verify the product is completely out of the screws and in the hopper. After the product has completely finished running into the hopper, select the **Get Done Amounts** button.

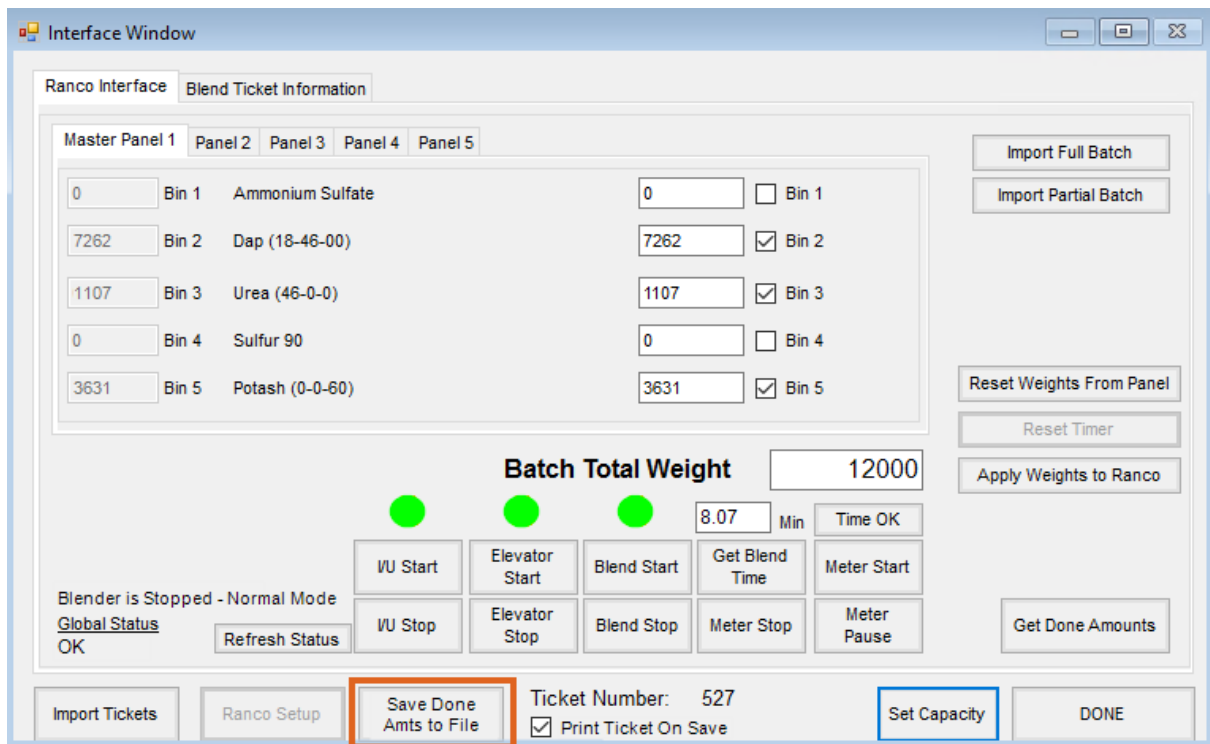


- On the *Capture Scale Reading* window, select the **Capture Weight** button. If a scale printer is connected, choose the **Print Weight Stamp** button. Otherwise, select **Done**.

Note: The **Print Ticket** button provides the option to print any of the blend documents (i.e., Blend Ticket, Consolidated Blend, Custom App Sheet, Haz Mat, etc., for the captured amount of that specific batch).



10. Choose the **Save Done Amts to File** button to create a file for the amount blended.



11. A message displays indicating where this file was saved. Select **OK**.

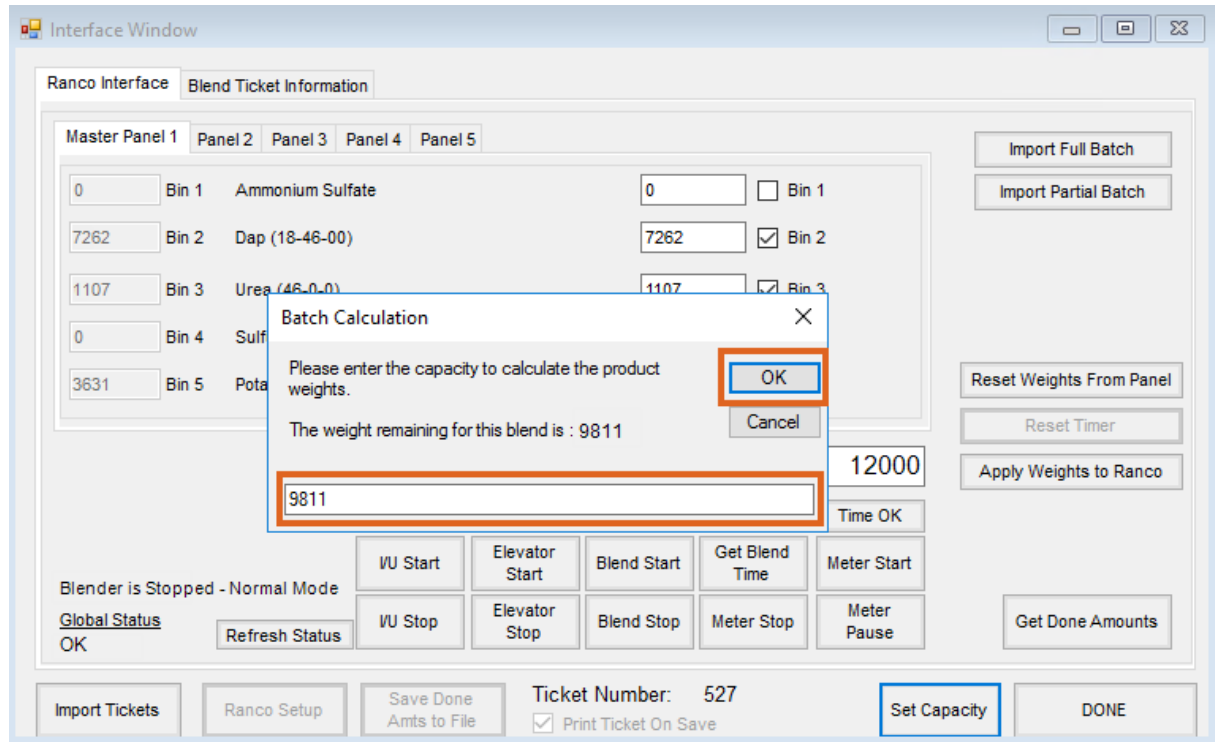


Note: At this point, other tickets can be mixed and the next batch for this ticket can be completed at a later time.

12. When the next batch for this ticket is ready to be mixed, choose the **Import Tickets** button and select the

desired ticket. If no other tickets have been mixed since the last batch for this ticket, indicated by the *Ticket Number* at the bottom of the *Interface* window, select the **Set Capacity** button.

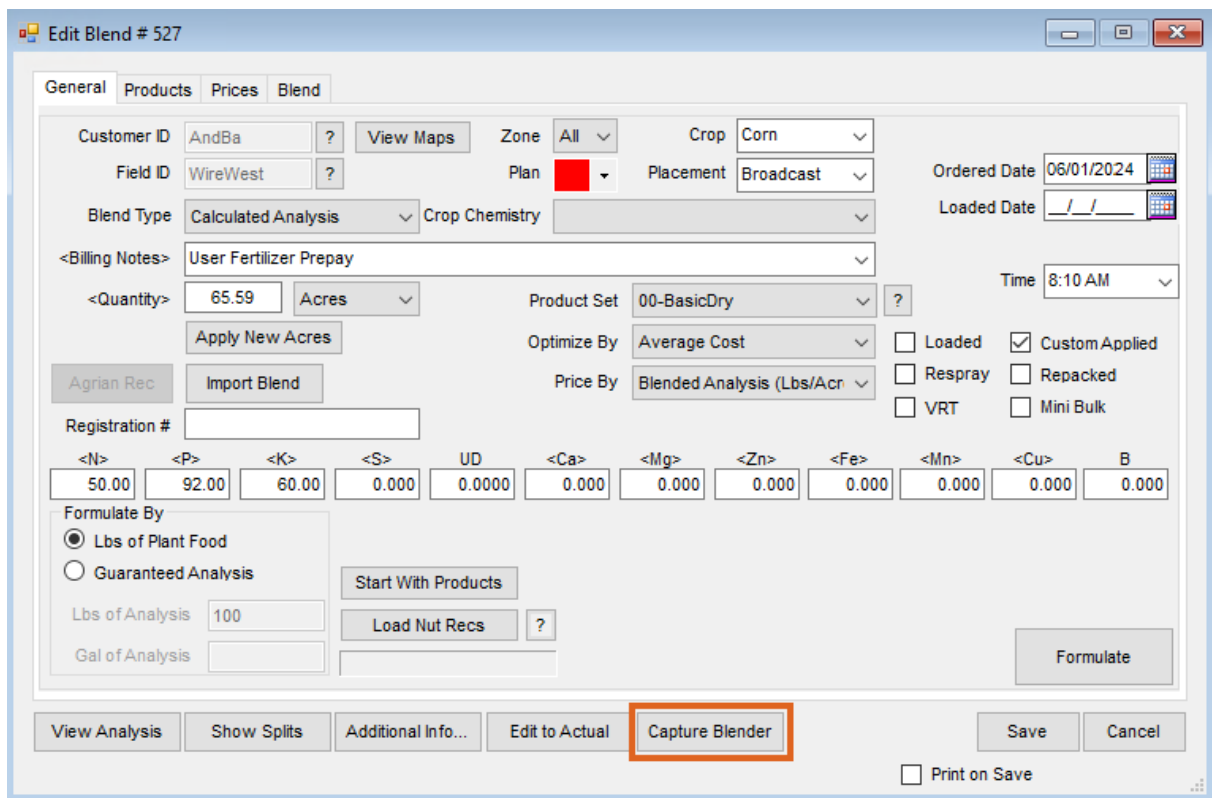
13. If the amount displayed on the *Batch Calculation* window is the amount that needs to be mixed, select **OK**. If this batch needs broken down, type over the amount in the textbox, entering the desired batch amount to be mixed. Select **OK**.



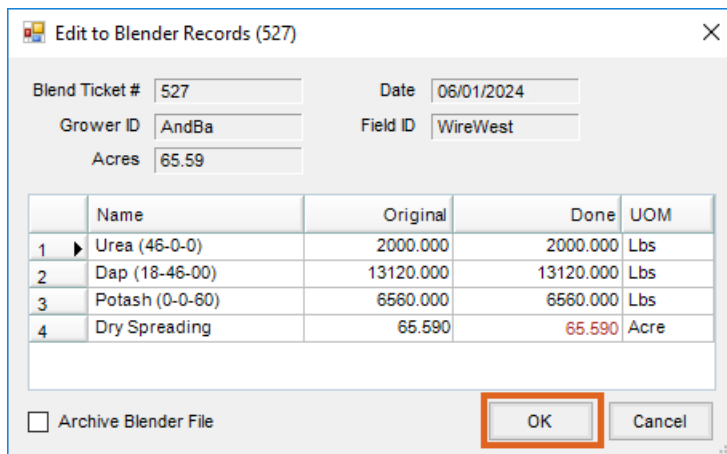
The rest of the procedure for this process is the same as when completing the first batch for the Blend Ticket. See Steps 7 - 13.

Edit Blend Ticket with Blender Information

1. After all batches for the blend are mixed, edit the Blend Ticket in the Agvance Blending module, and select the **Capture Blender** button at the bottom of the window.



2. If the weight was captured from a scale and pro-rated, those amounts will display in the *Edit to Blender Records* window. For items such as service items, the blended amount originally on the ticket defaults in the *Done* column. Any of the amounts, including the service item, can be changed on this screen. After the amounts have been confirmed, select **OK**.



3. The blended amounts will be updated on the *Product* tab of the Blend Ticket and the ticket will be marked as *Loaded*. Make any other necessary changes to the Blend Ticket and select the **Save** button.

Edit Blend # 527

General Products Prices Blend

Customer ID AndBa ? View Maps Zone All Crop Corn

Field ID WireWest ? Plan [Red] Placement Broadcast Ordered Date 06/01/2024

Blend Type Calculated Analysis Crop Chemistry Loaded Date [Calendar]

<Billing Notes> User Fertilizer Prepay Time 8:10 AM

<Quantity> 65.59 Acres Product Set 00-BasicDry ?

Apply New Acres Optimize By Average Cost Loaded Custom Applied

Agrian Rec Import Blend Price By Blended Analysis (Lbs/Acr Respray Repacked

Registration # VRT Mini Bulk

<N>	<P>	<K>	<S>	UD	<Ca>	<Mg>	<Zn>	<Fe>	<Mn>	<Cu>	B
50.00	92.00	60.00	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Formulate By

Lbs of Plant Food Guaranteed Analysis

Lbs of Analysis 100 Start With Products

Gal of Analysis Load Nut Recs ?

Formulate

View Analysis Show Splits Additional Info... Edit to Actual Capture Blender Save Cancel

Print on Save

Edit Blend # 527

General Products Prices Blend

Acres 65.59 Set 00-BasicDry Target lbs of Analysis 100 Reorder Products

	<Product Name>	Rate/Acre	Unit	Total Product	Unit	Blended	Blended Unit	Scale
1	Urea (46-0-0)	30.492	Lbs	2000.000	Lbs	2000.000	Lbs	1
2	Dap (18-46-00)	200.030	Lbs	13120.000	Lbs	13120.000	Lbs	1
3	Potash (0-0-60)	100.015	Lbs	6560.000	Lbs	6560.000	Lbs	1
4	Dry Spreading	1.000	Acre	65.590	Acre	65.590	Acre	5

Recalc using Rate/Acre Recalc using Total Product Recalc using Blended Recalc using Scale

Density 61.136 % Water 0 % Clay 0

CuFt/Acre 5.407 Total CuFt 354.645 Est Salt Out Temp N/A

Lbs/Acre 330.537 Total Lbs 21680 Est Temp Change 0

View Analysis Show Splits Additional Info... Edit to Actual Capture Blender Save Cancel

Print on Save

Multiple Rancos on Same Terminal Server

Companies working over terminal services can run multiple Ranco automated blenders using the Agvance Ranco interface.

Example: A company has multiple Locations each with their own Ranco automated blender. They use terminal services and have the Agvance db-activated Ranco interface.

There are two options:

- **Option 1** – Add a new blender number for each additional location so the products are setup correctly. It is a matter of correctly mapping the com port to the machine controlling the blender at each location. Locations can use the same com port number since they are mapped to different computers.
- **Option 2** – Use a serial over USB device. Call SSI Support for details.