Formulating a Percentage of Slow Release Nitrogen

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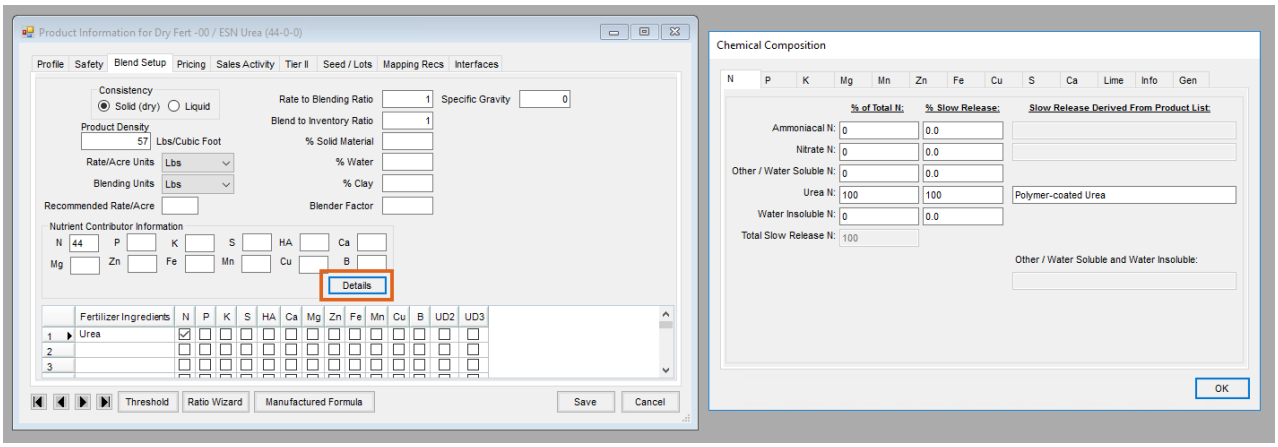
Agvance Blending has the tools built into the formulation process to calculate the desired quantity of Slow Release Nitrogen when formulating a blend.

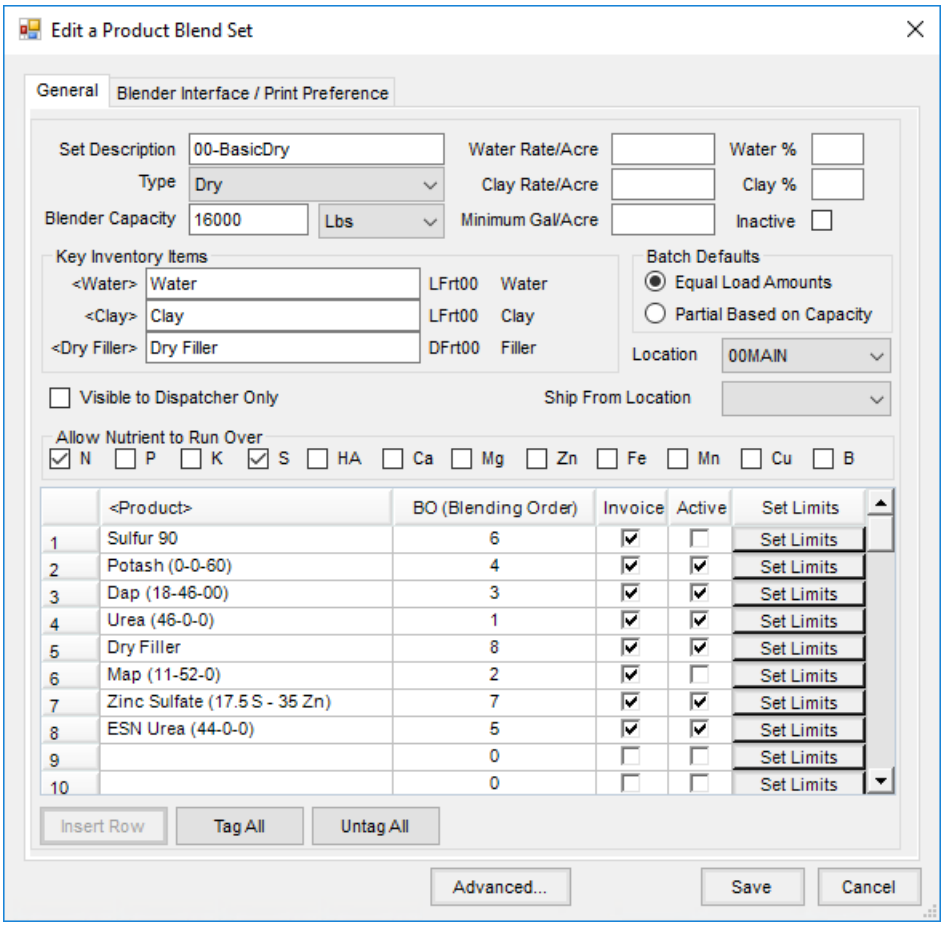
To begin the process, the percentage of Slow Release Nitrogen needs to be set up on the Product.

Edit the Product that will be used to fulfill the Slow Release request. On the *Blend Setup* tab, select **Details** in the *Nutrient Contributor Information* area to open the *Chemical Composition* window.

On the *N* tab, enter the percentage of Nitrogen for the product that is Slow Release. This example uses ESN Urea as 100% Slow Release Nitrogen.

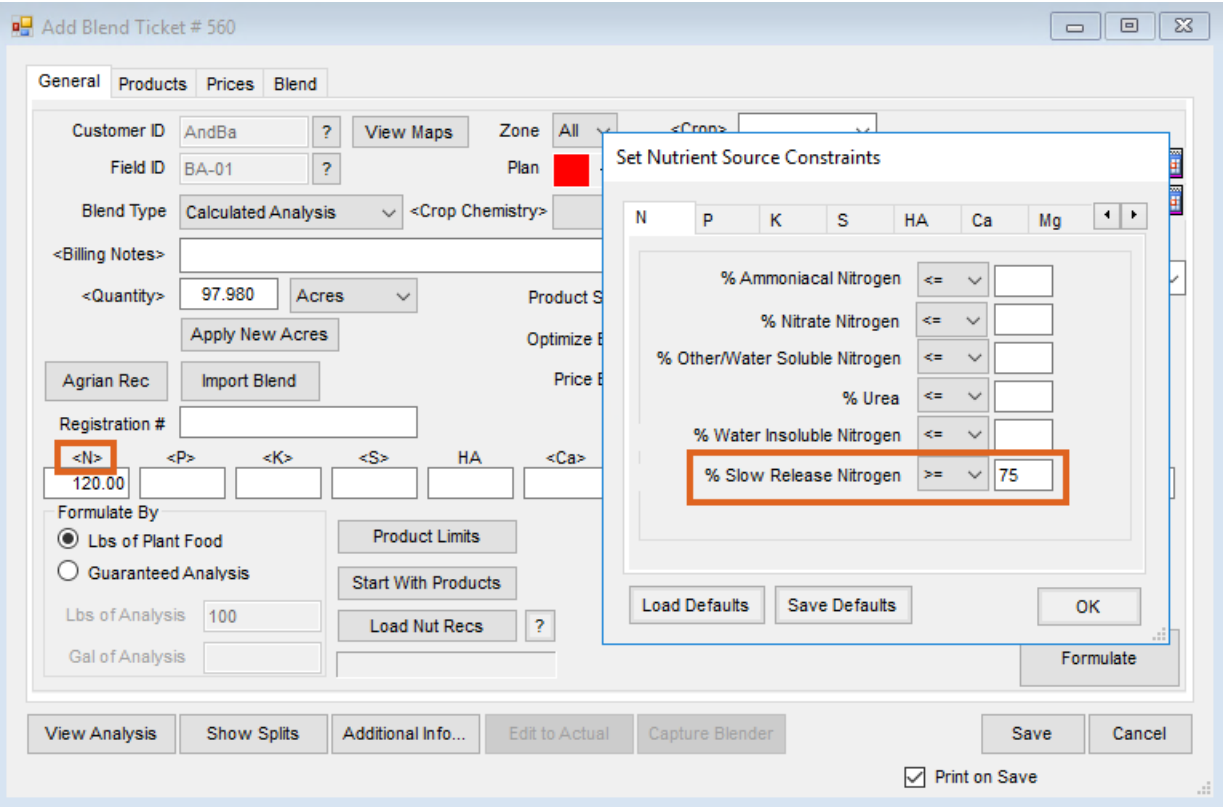


In the Blending module, verify the Slow Release Nitrogen Product and any other Products needed to formulate the desired analysis are in the Product Set. Navigate to *Blending / Setup / Product Sets*, and edit the Product Set that will be used to formulate. In this example, the Basic Dry Product Set is used with ESN and Urea available to fulfill the Nitrogen requested.



Add a new Blend Ticket utilizing the Product Set containing the Slow Release Nitrogen Product. Enter the desired analysis on the *General* tab, and double-click the *N* column heading to open the *Set Nutrient Source Constraints* window. Enter the percentage of Slow Release Nitrogen to be used in the blend, and set the drop-down to greater than or equal to (as ESN is more expensive than Urea in this example).

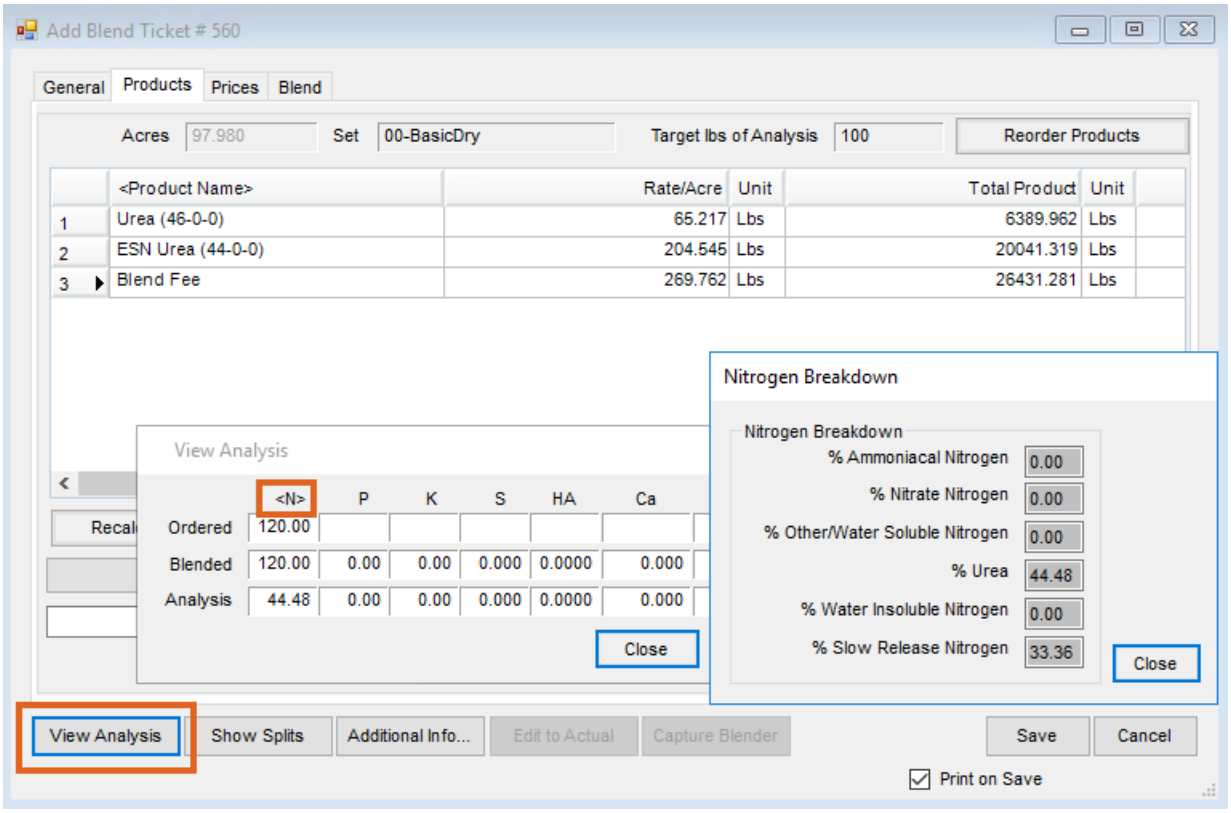
This example requests 120 pounds of Nitrogen per acre with at least 75% coming from Slow Release Nitrogen.



When the desired percentage of Slow Release Nitrogen has been entered, select **OK** on the *Set Nutrient Source Constraints* window. Select **Formulate** on the *General* tab of the Blend Ticket.

Verify the desired Products have been used to fulfill the request on the *Products* tab.

This blend requested 120 pounds of Nitrogen with a minimum of 75% being from Slow Release Nitrogen, which calculates to be 90 Lbs of N per acre (*120 * 0.75 = 90*). The blend required Urea at 65.217 pounds per acre (30 lbs of N per acre) and ESN Urea at 204.545 pounds per acre (90 lbs of N per acre), so the 90 pounds were fulfilled by ESN Urea, and the remaining 30 pounds were fulfilled by Urea.


Add Blend Ticket # 560
General
Products
Prices
Blend
Acres
97.980
Set
00-BasicDry
Target lbs of Analysis
100
Reorder Products
<Product Name>
Rate/Acre
Unit
Total Product
Unit
1 Urea (46-0-0) 65.217 Lbs 6389.962 Lbs
2 ESN Urea (44-0-0) 204.545 Lbs 20041.319 Lbs
3 Blend Fee 269.762 Lbs 26431.281 Lbs
View Analysis
<N>
P
K
S
HA
Ca
Ordered 120.00
Blended 120.00 0.00 0.00 0.000 0.0000 0.000
Analysis 44.48 0.00 0.00 0.000 0.0000 0.000
Close
Nitrogen Breakdown
Nitrogen Breakdown
% Ammoniacal Nitrogen 0.00
% Nitrate Nitrogen 0.00
% Other/Water Soluble Nitrogen 0.00
% Urea 44.48
% Water Insoluble Nitrogen 0.00
% Slow Release Nitrogen 33.36
Close
View Analysis
Show Splits
Additional Info...
Edit to Actual
Capture Blender
Save
Cancel
Print on Save