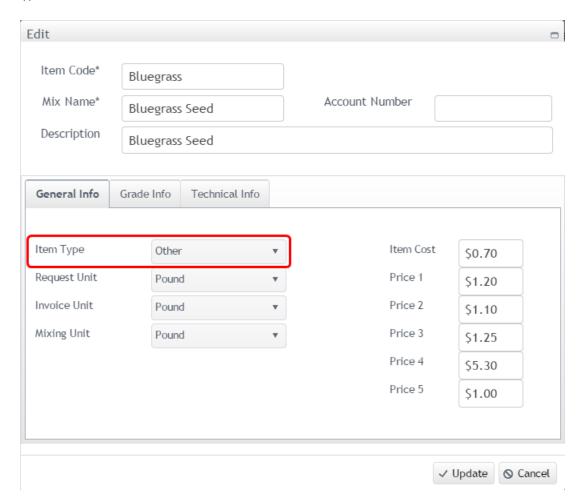
## Seed Blending with form-U-net

Last Modified on 01/10/2023 10:36 am CST

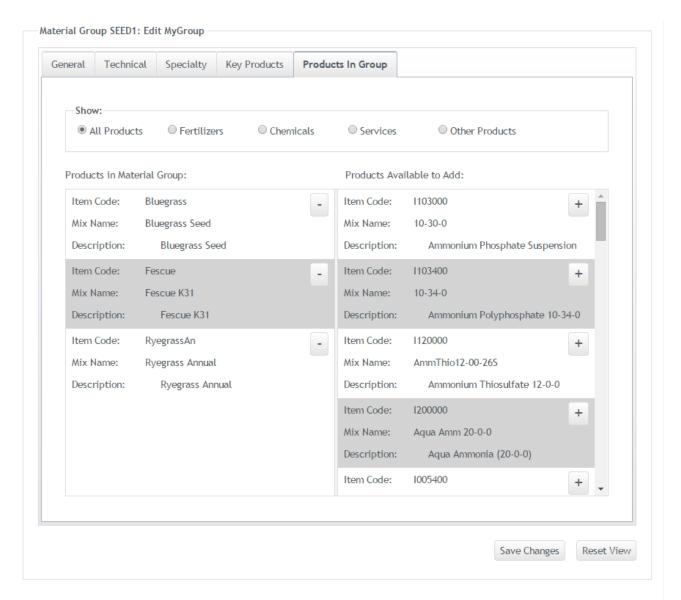
## Q. Can form-U-net be setup to blend seed or other non-fertilizer items?

A. Seed blending can be completed using custom columns in a Material Group. For example, a lawn and garden supplier wants to create different seed blends using bluegrass, K31 fescue, and annual ryegrass. These three seed items need to be created in *Item Information*. Below is an example for creating a Bluegrass Seed item. Set the *Item Type* to *Other* on the *General Info* tab.

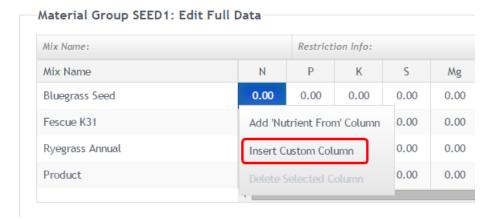


On the Technical Info tab, set the Density to 25 lbs/cu. Ft.

Next, create a new dry mixing Material Group with the new seed items added.

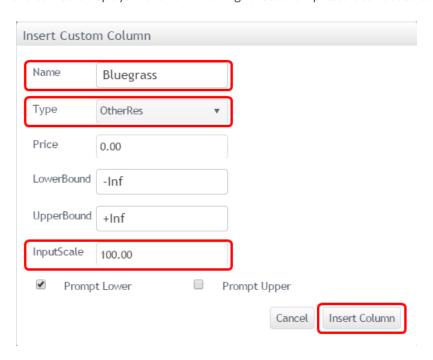


Custom restrictions need to be created for each item to specify quantities/rates of items to use in the blend. To add custom restrictions, navigate to the *Edit Selected Material Groups / Edit Data* window. Select the cell where the *N* column and the *Bluegrass Seed* row meet. Right-click in that cell, and select *Insert Custom Column*.

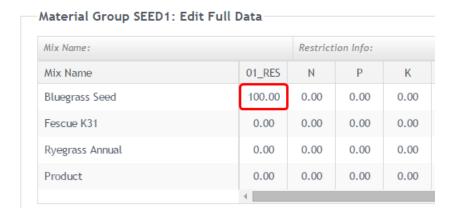


In the Insert Custom Column window, enter the name of the restriction in the Name field. Name indicates the name of

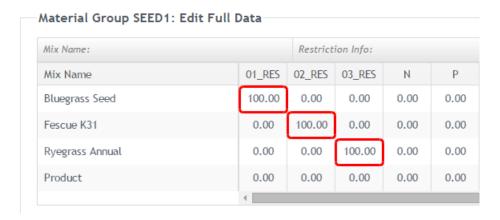
the item as it displays in the Formulation grid. Set the InputScale to 100. Select the Insert Column button.



Finally, enter 100 in the cell where the *Bluegrass Seed* row and the 01\_RES custom column meet. Press **Enter** on the keyboard, or select a different cell in the grid before selecting the **Save Changes** button. This indicates the Bluegrass item is 100% Bluegrass Seed.



Repeat those steps for the other seed items. The *Edit Data* grid should look as shown below. Each item is showing 100 in its respective custom column.

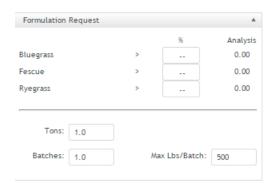


Finally, go to *Edit Selected Material Groups / Edit Restrictions* to view the new custom restrictions as established in *Edit Data*. The names entered in the *Restriction Name* field are shown here as well.

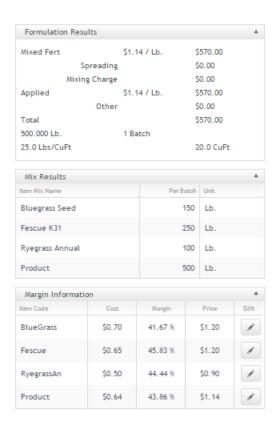


With the setup complete, formulations can now be created for this scenario.

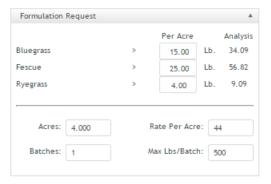
Below, the Formulation Request grid is shown in Grade mode.



In the following example, the *Max Lbs/Batch* is set to 500 lbs on the *Formulation* grid. The request will be entered as 30% Bluegrass, 50% Fescue, and 20% Ryegrass. Below are the results of this request.



Below is an example of request on an acre basis where a specific amount per acre of each product is entered. Based on a four acre request, the result is a total of 44 Lbs per Acre.





Formulation Resul	ts	
Mixed Fert	\$1.17 / Lb.	\$206.40
Spreading		\$0.00
Mixing Charge		\$0.00
Applied	\$1.17 / Lb.	\$206.40
	Other	\$0.00
Total		\$206.40
4.0 Acres	\$51.60 / Acre	
176.000 Lb.	1 Batch	
4.0 Acres/Batch		
44 Lbs/Acre		
1.76 CuFt /Acre		
25.0 Lbs/CuFt		7.0 CuFt

Mix Results		
Item Mix Name	Per Batoh	Unit
Bluegrass Seed	60	Lb.
Fescue K31	100	Lb.
Ryegrass Annual	16	Lb.
Product	176	Lb.

Margin Informat	ion			
Item Code	Cost	Margin	Price	Edit
BlueGrass	\$0.70	41.67 %	\$1.20	
Fescue	\$0.65	45.83 %	\$1.20	1
RyegrassAn	\$0.50	44.44 %	\$0.90	100
Product	\$0.65	44.44 %	\$1.17	1