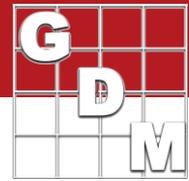
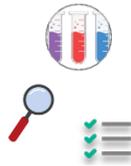


Filling in the Treatments List



Topics covered

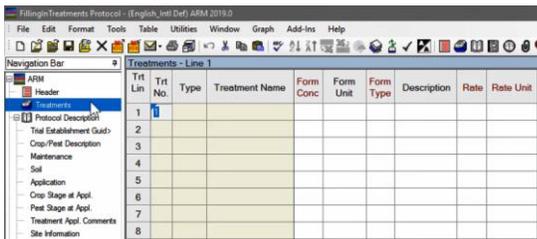
- Entering treatment information
 - Formulation concentration
 - Product rates
- Validation list introduction
 - Finding items in list
 - Building a personal list



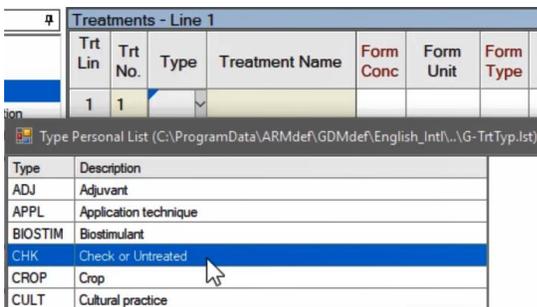
Follow along as we fill in a basic treatments list. We will create several treatments in ARM, demonstrating how to enter treatment information including formulation concentration and product rates. We introduce validation lists, including how to find items in the list and how to build a personal list.



We start by opening the tutorial protocol 'FillingInTreatments'. Note the option to switch from *your* study list to the *tutorial* list of example files, found at the bottom of the study list editor.

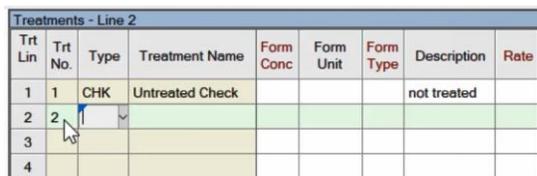


Next, open the Treatments editor. This is essentially a spreadsheet to enter treatment information in a clear and consistent way.



The first treatment will be the untreated check. To begin, click into the Type field in the first row of the table, then click the dropdown button to display a list of valid entries to choose from.

Select 'CHK' and click OK to define the type or category of treatment for this row.



You can also press the F9 key to display the list of valid entries for a field, called a *validation list*. Double-clicking an item in the list is another way to make a selection.

That's all the information needed for this first treatment, since no product is applied for the untreated check. To define the second treatment, in the next row enter a '2' in the Treatment Number field. Note that this row is now a different color to visually separate different treatments.



Our next treatment is a Herbicide called 'Stomper Plus'. Since we have not used this herbicide before, it is not in our treatment list. So simply type the name and we will add it to our list later.

Next, we enter the formulation concentration for this product: 480 grams active ingredient per Liter of formulated product. Type the letter 'g' to skip down to the first item in the list starting with this letter.

Filling in the Treatments List



Navigation Bar	Treatments - Line 2							
ARM	Trt Lin	Trt No.	Type	Treatment Name	Form Conc	Form Unit	Form Type	Description
Treatments	1	1	CHK	Untreated Check				not treated
Protocol Description	2	2	HERB	Stomper Plus	480	gA/L		
Trial Establishment Guide								
Form Type Master List (SART)								
Form Type	Term	Form State	Undiluted	Obsolete	Definition			
20	emulsifiable concentrate for seed treatment			Y				
20	microdispersion for seed treatment			Y				
AB	gran bait	Dry	Yes	Y	Special form of bait.			
AE	aerosol dispenser				A container-held formulation			
AL	any other liquid	Liquid			A liquid formulation designated for use			
AP	any other powder	Dry			A powder formulation designated for use			
BB	block bait	Dry			A bait formulation designated for use			
BR	briquette	Dry			A bait formulation designated for use			
CB	bait concentrate	Liquid			A bait formulation designated for use			
CC	colloidal concentrate							

The Formulation Type field is very important in ARM. This is used to determine whether a formulated product is a liquid or dry formulation, which is necessary to ensure product amount calculations are accurate. The list of available product rate units are also determined by the formulation type.

Rate	Rate Unit	Other Rate	Other Rate Unit
3	kg AI/ha	2.67	LB A/A

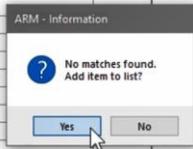
Next is the Rate, the amount or dosage to apply to a standard area. For this example enter 3 kilograms active ingredient per hectare. Note that this is not the amount of product for your plot size – ARM calculates that for us on the Spray/Seeding Plan report.

The 'Other Rate' provides a different view of the same rate or dosage information. ARM calculates the 'Other Rate' when a unit is chosen in the Other Rate Unit field.

This can be useful to view both an AI-based and a product-based dosage, or view the rate in metric and US standard.

Treatments - Line 2									
Trt Lin	Trt No.	Type	Treatment Name	Form Conc	Form Unit	Form Type	Description	Rate	Rate Unit
1	1	CHK	Untreated Check				not treated		
2	2	HERB	Stomper Plus	480	gA/L	EC		3	kg AI/ha

Treatment Name	Form Conc.	Form Unit	Form Type	Description	Active Ingredient	AI Conc.
Stomper Plus	480	gA/L	EC			
Stomper	2	LBA/GAL	EC			
Stomper Plus	480	gA/L	EC			
Stomper	2	LBA/GAL	EC			
Stomper Plus	480	gA/L	EC			
Stomper	2	LBA/GAL	EC			
Stomper Plus	480	gA/L	EC			
Stomper	2	LBA/GAL	EC			



After filling out a treatment line, we can add the product to our own *personal* validation list for future use. Click back to the Treatment Name field and display the list. Select Yes to add this product to the list. You can also enter Ingredient information for this product, if applicable.

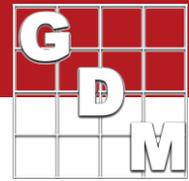
Treatments - Line 3								
Trt Lin	Trt No.	Type	Treatment Name	Form Conc	Form Unit	Form Type	Description	Rate
1	1	CHK	Untreated Check				not treated	
2	2	HERB	Stomper Plus	480	gA/L	EC		3
3	3	HERB	Stomper Plus					

Treatment Name	Form Conc.	Form Unit	Form Type	Description	Active Ingredient	AI Conc.
Stomper Plus	480	gA/L	EC			
Stomper	2	LBA/GAL	EC			

Now we can use this same product in the third treatment, just applying at a different rate. Select the herbicide type again, and now we see our Stomper Plus in the list as I start typing its name.

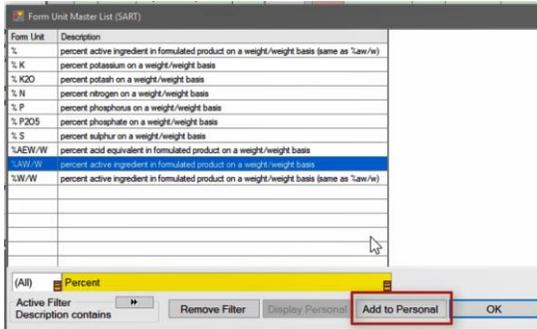
Select the product to fill in its name and formulation information saved in the list.

Filling in the Treatments List



Rate	Rate Unit	Other Rate	Other Rate Unit
3	kg AI/ha	2.67	LB A/A
3.5	kg AI/ha		

To duplicate the value from the cell directly above, type the single quote character and press enter.



The fourth treatment in this study is a different product called Super Stomp, applied with an adjuvant as well.

First, fill in the Super Stomp information on a new line, just like the previous lines.

For large lists, press 'Add to Personal' to create your own "favorites" list of your most common choices, so you do not need to search the entire list each time.

Trt Lin	Trt No.	Type	Treatment Name	Form Conc	Form Unit	Form Type	Description
1	1	CHK	Untreated Check				not treated
2	2	HERB	Stomper Plus	480	gA/L	EC	
3	3	HERB	Stomper Plus	480	gA/L	EC	
4	4	HERB	Super Stomp	75	%AW/W	DF	
5	4	ADJ	NIS	100	%	SL	
6							

On the next line, enter the same treatment number 4. This adds a second *component* to treatment 4. Each treatment in the study could have multiple components – whether it is a another product or adjuvant being applied, or to document an application technique or cultural practice that is being studied.

Now fill in the rest of the treatment line with the N-I-S adjuvant, with a rate of .5 percent volume-to-volume.