What's New in ARM?

Features & improvements in ARM during 2023

GDM Solutions, Inc.

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New Protocol Wizard

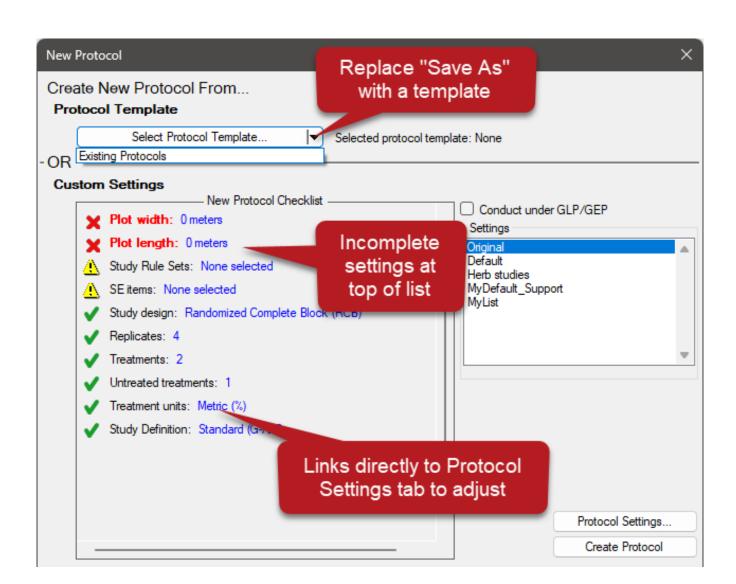
Streamlined process for creating new protocols

Protocol Template:

copy sections from existing protocol

New Protocol Checklist:

interactive overview of Settings

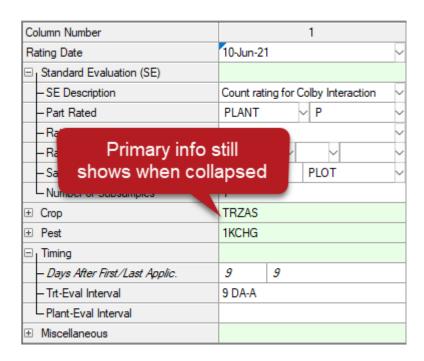




Updated Assessment View

Re-organized header fields into logical groups

Added ability to collapse and expand groups

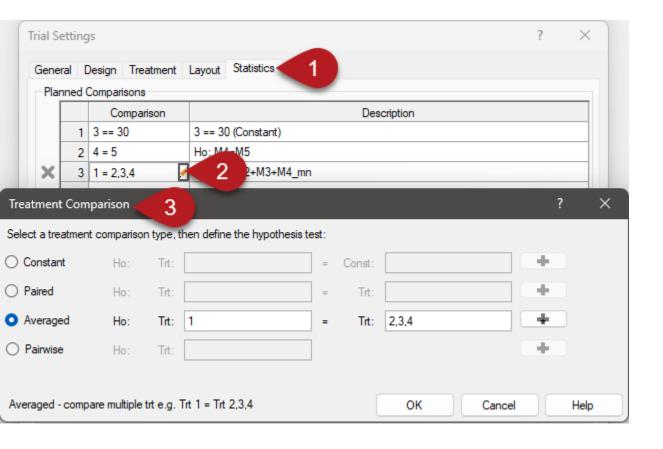




Column Number	1						
Rating Date	10-Jun-21						
Standard Evaluation (SE)							
- SE Description	Count rating for Colby Interaction	-					
-Part Rated	PLANT V P	1					
-Rating Type	COUNT	1					
-Rating Unit/Min/Max	NUMBER V	,					
- Sample Size	1 PLOT						
Number of Subsamples	1						
⊡ _I Crop							
-Crop Type, Code	C V TRZAS	1					
– BBCH Scale	BCER						
-Crop Scientific Name	Triticum aestivum						
-Crop Name	Spring wheat						
-Crop Variety							
-Crop Stage Scale		1					
Crop Stage Majority/Min/Max	V V						
⊟ <mark>Pest</mark>							
-Pest Type	W v Weed						
- Pest Code	1KCHG	Ī					
- Pest Scientific Name	Kochia						
- Pest Name	Kochia	Ī					
- Pest Density							
Pest Density Min/Max							
⊡ Timing							
– Days After First/Last Applic.	9 9						
- Trt-Eval Interval	9 DA-A						
Plant-Eval Interval							
Miscellaneous							
- Description		Ī					
- ARM Action Codes							
Number of Decimals		Í					

Planned Comparisons (Contrasts)

Define comparisons of specific treatments for a custom analysis



Common uses:

- Compare a treatment to 2+ checks or reference trt
- Avoid excluding data
- Multi-factor designs (e.g. Low vs. Med vs. High)

Planned Comparisons (Contrasts)

Analysis performed on AOV report. For each planned comparison:

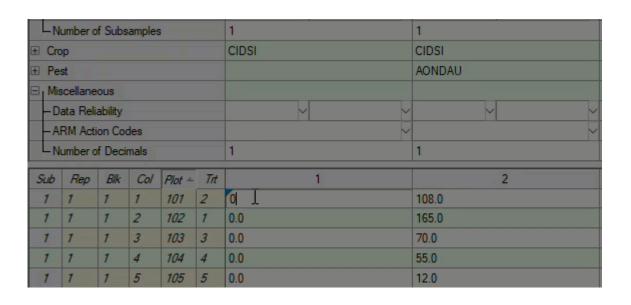
- Contrast value and test statistic
- P-value of comparison hypothesis

If significant (< 0.05), reject Ho and conclude there is a difference between compared treatments

For more examples and statistical details: gdmdata.com/media/documents/UserContrasts.pdf

Character Rated Rating Type		Cadence	SPEED	LENGTH		
Rating Unit/Min/Max			m/s, -, -	m, -, -		
Number of Subsample	s	14	14			
Trt No.	Treatment Name	±	*	*		
1	Fast 2	89.55 -	3.36 -	2.25 -		
6	Zoom Elite	90.03 -	3.36 -	2.23 -		
Planned Comparisons						
Traditional vs Fulcrum						
Estimate t Value		-0.151 -0.578	0.032 1.072	0.026 1.632		
		0.569	0.297	0.118		
Pr > t Traditional vs Newton		0.569	0.297	0.110		
Estimate		0.136	0.005	0.000		
t Value		0.130	0.148	-0.003		
Pr > t		0.424	0.884	0.998		
Excluding Zoom Elite		0.070	0.004	0.550		
Mean square		0.698	0.004	0.002		
F value		1.706	0.735	1.372		
Pr > F		0.175	0.735	0.267		
FIFT		0.175	0.575	0.201		

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Plot -	Trt	1
101	3	100
102	1	100
103	4	50
104	2	100 Animal damage to plot
105	5	100

Trial Location

Insert row with Shift+F7, Delete current row with Shift+F8



Country	State	Region	Trial Year		Responsible		GDM ID	Company ID		Company Name		Investigator	Number of Trials
~	~			Create Trial	Name	~		12	~	Comp1	~	~	1
~	~			EditTrialMap	Trialist2	~		345	V	2Cmpy	~	~	2
~	~			Make An Application	Trialist3	~		32	~	C3	~	~	1
~	V			RecordSiteInfo	Trialist4	V		1357	V	Fourth	~	~	1
~	V			EnterData	Trialist5	V		12	V	Comp1	V	~	1