

# **ARM Product Pulse**

Your source for the latest ARM updates and best practices

Issue #21

### Mark your calendars!

Catch up with GDM staff at several professional meetings this fall and winter. Want in-person training? Join us in San Antonio on January 16-17, 2024 in conjunction with NAICC. Watch your email for registration details later this fall!

Meeting	Meeting Date	Location		
Soil Science Society of America (SSSA), American Society of Agronomy (ASA), Crop Science Society of America (CSSA)	Oct 29 - Nov 1, 2023	St. Louis, Missouri		
Entomological Society of America (ESA)	November 5-8, 2023	National Harbor, MD		
National Alliance of Independent Crop Consultants (NAICC)	January 15-21, 2024	San Antonio, Texas		
Weed Science Society of America (WSSA)	January 22-25, 2024	San Antonio, Texas		



### **NAICC Makes marketing simple with Field Research Capability Poster Session**

The Field Research Capability Poster Session allows participants to showcase their capabilities to anyone interested in contracting work. The National Alliance of Independent Crop Consultants (NAICC) created this marketing opportunity for contract researchers, consultants, labs, and QAs offering field research or support services. The poster session is held in conjunction with the 2024 NAICC Annual Meeting & Ag Pro Expo. You can find more information (including registration) HERE.



### ARM 2023.3 Features and Enhancements

Run "Check for Updates" to take advantage of the latest developments! Find release notes on the website.

### **NEW** Data reliability shortcut buttons on assessment data column headers

Communicate what assessments to use in summaries:

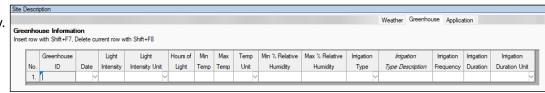
- Exclude = conclusions should not be made from this assessment column
- **Good** = conclusions can be made from this assessment column
- Best = conclusions can be made, prioritized over related assessments

Rep	Blk	Col	Plot -	Trt		1	0		2	1		3	<b>→</b>
1	1	1	101	2	68	Exclude		72	Good		24	Best	
1	1	2	102	4	55	_лога ао		73	Coou		19	Door	

## **NEW** Site Description tab: Greenhouse

Use to document environmental conditions daily throughout the study.

*Note:* field trials should still use the Weather tab.





Follow GDM Solutions on <u>LinkedIn</u> or <u>Facebook</u> for time-saving tips!

A few minutes a day will expand your ARM knowledge.





# ARM Product Pulse

Your source for the latest ARM updates and best practices

General Design Treatment Layout Statistics

ect a treatment comparison type, then define the hypothesis test

3 == 30 (Constant)

2+M3+M4 mn

Trt: 234

2

Student-Newman-Keuls

Character Rated

Rating Type Rating Unit/Min/Max Number of Subsamples

Comparison
1 3 == 30

Averaged - compare multiple trt e.g. Trt 1 = Trt 2,3,4

Report Options | Descriptive Statistics | General Summary | Report Preview |

lanned Comparisons

2 4 = 5 3 1 = 2.3.4

Averaged

Mean comparison test

Treatment comparisons
Include planned comparisons

Exclude untreated treatment(s) from analysis

Test

### **Custom Analysis Tool: Planned Comparisons (Contrasts)**

Define comparisons of specific treatments for custom analysis using contrasts (statistical tests on linear combinations of values derived from data).

#### Common uses:

- Compare a treatment to more than 1 check or standard products
- Multi-factor designs (e.g. compare treatments 1-3 vs. treatments 4-6 vs. treatments 7-9)
- Focus analysis on specific treatments without excluding data

Include in **AOV Means Table Report** by selecting "Include planned comparisons" in Report Options.

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.

### Types of comparisons:

- Constant compare one treatment to a specified value/constant
- Paired a 1:1 comparison of one treatment to another
- Averaged compare a treatment against the average of >1 other treatment
- Pairwise compare all treatments to each other
- Mulitple comparisons logical AND to combine 2+ comparisons into a single test

Zoom Elite 90.03 -3.36 -2.23 -Estimate 0.026 t Value raditional vs Newton 0.136 0.005 0.000 t Value xcluding Zoom Elite 0.698 0.004 Mean square 0.002

89.55 -

Treatment

Fast 2

Steps to define comparisons:

1. Settings > Statistics Tab

2. Pencil icon opens wizard

3. Select type of comparison, then

define components to compare

Stride Leng LENGTH

2.25 -

Speed SPEE D

3.36 -

For more examples and statistical details, click HERE.



### **GDM Representative Spotlight: Bernd Stratmann**

With clients in nearly 100 countries worldwide, we depend on our representatives to provide local training, sales, and technical support. Bernd Stratmann joined our team in 2001 and serves several European countries. With 30+ years of ARM experience, Bernd utilizes his industry knowledge to help his clients maximize efficiency with ARM software.

Learn more about Bernd HERE.



Register for FREE training through our <u>ARM Academy</u>! Earn ARM Beginner Certification - great for new and veteran users!



