

ARM Product Pulse

Your source for the latest ARM updates and best practices

Issue #6

NEW Non-Parametric Analysis Available in ARM!

ANOVA analysis has assumptions that must be met. Non-Parametric statistics do not have these same restrictions.

Use this analysis when data cannot be corrected to fit ANOVA and for data such as counts or indexes.

How does it work?

- Calculates ranks to analyze data instead of means
- New ARM Action Code: **AR** (*automatic rank transformation*)
 - Rank the data points (Kruskal-Wallis or Friedman's test)
 - Perform LSD mean comparison test on rank means
- Analysis included with other AOV columns. Simply integrates with current AOV reports. [Check out the video here!](#)

Pest Type	W Weed	W Weed		
Pest Name	Oxeye	Oxeye		
Rating Date	Sep-4-2016	Sep-4-2016		
Rating Type	STAOBJ	STAOBJ		
Rating Unit	PLANT	PLANT		
Number of Subsamples	1	1		
ARM Action Codes		AR		
Trt No.	Treatment Name	Appl Code		
			34	35
1	Bum	A	0.0 c	3.8 b
2	Bum	A	0.1 c	4.7 b
3	Bum	A	0.0 c	4.5 b
4	Mow	A	0.0 c	3.8 b
5	Mow	A	0.0 c	3.8 b
			0 c	3.8 b
			0 c	3.8 b
			7 a	8.9 a
			8 b	7.9 a
			1.66	1.13
			2.794	2.40
			0.016*	0.035*
				34.526
				0.00
			2.1418*	0.4492
			2.6057*	4.7736
			Levene's Prob(F)	
			Friedman's X2	
			P(Friedman's X2)	
			Ske wness	
			Kurtosis	



Reporting Basics Video Tutorial

Learn about ARM reporting and analysis in an online video series:

Reporting Basics, located [HERE](#). Learn how to customize reports and the most important tools to use.

Our tutorial courses are broken out by sections so you can review when you have time.

- Generating an ARM Report
- Create an ARM Report Set
- Custom Labels with ARM
- Repeated Measures Analysis

ONLINE TRAINING

Have You Updated to the Latest ARM Version?

When you close ARM, you will notice a "Check for Updates" window. It is important to run these updates to get the latest features and most current version of ARM.

Please visit Products/ARM/Updates on our website for more information!



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NEW Column Diagnostics

ARM has new tools for reviewing assessment data columns. The assumptions of AOV are **now** tested on the residuals. Improve your analysis with the suggested actions from ARM. Recommendations are based on the distribution of the data.

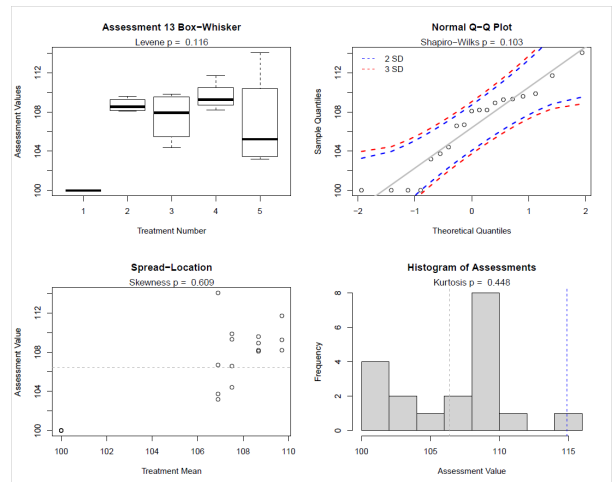
Recommended actions include:

- Data correction transformations
- Non-parametric analysis

Statistics (P)	Raw	IID	AL	AS	AA	AR
N	19	19	19	19	19	19
Unique	17	19	19	19	19	19
Missing	1	1	1	1	1	1
MinRep	3	3	3	3	3	3
MaxRep	4	4	4	4	4	4
Treatments	5	5	5	5	5	5
Levenes	0.343	0.0	0.0	0.0	0.0	0.0
Shapiro Wilks	0.525	1.0	0.999	0.998	0.999	0.999

Action Code	Test Statistic	Value	Comments
1 AR	Levenes	12.1345542218118	Homogeneity of variances not stable
2 IID	ShapiroWilks	0.3919907105615	Does not fall general test of normality
3 IID	Skewness	0.0582921385618707	Does not fall test of skewness of res
4 IID	Kurtosis	0.154701344550031	Does not fall test of excess kurtosis

View diagnostic plots on the raw data, residuals or transformed residuals.



NEW Trial Location GPS

ARM 2019.8 displays trial GPS coordinates on a satellite map. Simply open from the Tool icon in the GPS field, or Trial Location button.

This new view allows verification of GPS coordinates to prevent errors. This feature also auto-fills Time Zone and Angle y-axis to North (Orientation) based on GPS coordinates.



ARM Training Available

Did you know that GDM offers multiple options to help you with questions and training? Please visit www.gdmdata.com/Support for a list of tutorials or ask us about training your team, students and staff!

