

ARM Product Pulse

Your source for the latest ARM updates and best practices

Issue #7

NEW Dynamic Weather Graphs now Available in ARM!

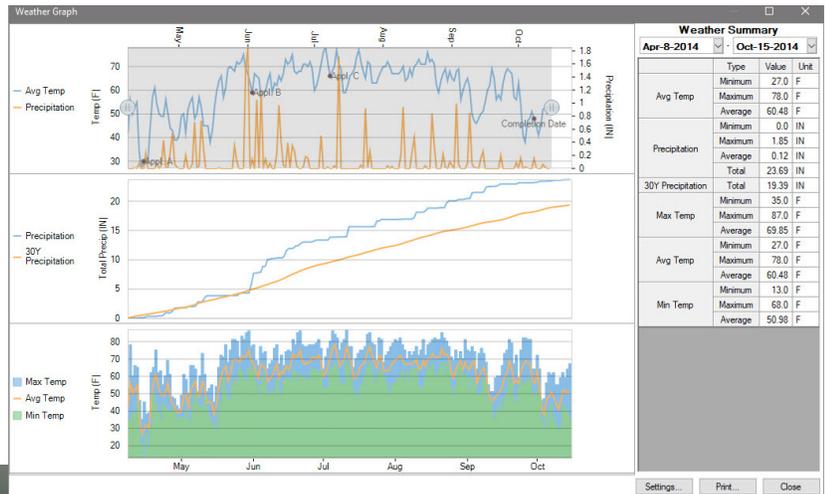
With our ARM 2020 release, ARM now offers dynamic weather graphing.

What can you do?

- Visualize daily weather in a trial
- Plot up to 3 columns of weather data per graph, up to four graphs at once.
- Summarize data in a date range
- Plot cumulative data or individual values
- Use left and right Y axis for mixed units

[Check out the video here!](#)

Need weather data? Contact ClearAg, [HERE](#), to learn about their available services!



Conducting a Trial Video Tutorials Available

Learn about conducting a trial in ARM and best practices to consider [HERE](#). Our tutorial courses are broken out by sections so you can easily review at your own pace.

Sections include:

- Creating a Trial (4:15)
- Editor Basics (2:10)
- Components of Trial (4:24)
- Editing the Trial Map Randomization (4:15)
- Making an Application with ARM (6:53)
- Recording Site Information (7:43)
- Entering Trial Data into ARM (8:12)
- Validate your ARM Trial (7:50)
- Generate a Trial Report (5:14)



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 Spatial Analysis in Column Diagnostics

New ARM Action Codes apply a spatial model to individual data columns. This is a great tool to use when the blocking design fails.

What are you able to do?

Spatial models adjust the mean estimates to attempt to recover unexplained error in a field.

- Trend analysis: Analyze effects across an entire field
- Nearest neighbor: Analyze effects in the space adjacent to individual plots

ARM Action Codes	Description 1
*****	*** Following Identify Spatial Models ***
LST	Linear spatial trend
QST	Quadratic spatial trend
CST	Cubic spatial trend
NRN	Nearest row neighbor
NCN	Nearest column neighbor
NRNC	Nearest row and column neighbor (Papadakis)
NRNC	Nearest row neighbor and column neighbor

Recommendations			
Basis		Assessment Values	
	Code	Test Statistic	Value
1	IID	Levene's	2.361
2	AR	ShapiroWilks	0.863
3	IID	Skewness	1.383
4	AS	Kurtosis	3.953
5	LST	AIC	0.565
6	LST	BIC	1.561

Diagnostics						
<input checked="" type="checkbox"/> Include spatial models						
Raw Graphs						
Show... Layout: 4 X 2						
Statistics (P)	Raw	IID	LST	QST	NCN	
MaxStdRes	.	2.37	2.613	2.092	2.908	
logLik	.	-70.946	-71.664	-70.548	-73.842	
ModelDF	.	7	6	9	5	
ResDF	.	12	13	10	14	
AIC	.	159.892	159.327	163.096	161.684	
BIC	.	168.854	167.293	174.049	168.655	
MoranI	.	-0.295	-0.323	-0.251	-0.436	0.022
Tukey1DF	.	0.0

Where is this located?

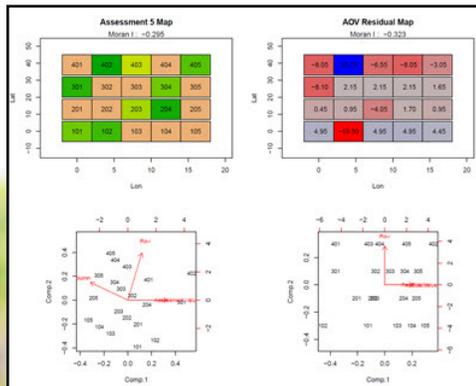
On the Column Diagnostics panel, determine which spatial model to use with new descriptive statistics and recommendations. To learn more about the column diagnostics panel, check out our video: [HERE](#)

NEW Spatial Diagnostic Graphs Available!

With ARM 2020 release, there are two new spatial diagnostic plots available. You can also change the number of diagnostic graphs per page, to improve readability.

Customize graph layout:

IID Graphs
Show... Layout: 4 X 2
4 X 2
2 X 2
1 X 1
Custom...



Two new graphs available:

- Residuals Heat Map
- Spatial Bi-Plot



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!

