

ARM Product Pulse

Your source for the latest ARM updates and best practices
Issue #32

ARM 2026.1 Features and Enhancements

Run "Check for Updates" to take advantage of the latest developments! Find release notes on the [website](#).

NEW: Preview icon for SE Definitions

Added a shortcut button on the SE Definitions table to preview the selected SE.

SE Definitions
Insert SE Definition with Shift+F7, Delete current SE Definition with Shift+F8

	1.	2.	3.
Rating Timing			
SE Name	CF001	CF148_C7	
	% disease on surface of stored fruit (post-harvest)	% Pest severity index and % Incidence of SCLESC	

Preview SE CF148_C7

Column Number	1	2	3	4	5
SE Name	CF148A	CF148B	CF148C	CF148D	CF148E
SE Description	Pest severity 1-4 (subsamples entry)	Plant %CLASS 1	Plant %CLASS 2	Plant %CLASS 3	Plant %CLASS 4
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT
Rating Type	PESSEV	PESINC	PESINC	PESINC	PESINC
Rating Unit	1-4	%	%	%	%
Sample Size	PLANT	1 PLOT	1 PLOT	1 PLOT	1 PLOT



NEW: Added RTF field for calibration information

- Added rich text fields for documenting calibration reports.
- Simply paste entire calibration report into this field.
- Available on both Equipment and Appl Equipment sections.

Application Equipment

	A	B
Equipment Name		
Application Amount	200 L/ha	200 L/ha
Mix Overage	100 mL	100 mL
Mix Size	2.98 L	2.98 L

[Normal] Calibri 11 B I U

PRECISION PLOT SPRAYER CALIBRATION PROFORMA

Relevant Sop (S): EQU/03

SPRAYER TYPE: BKPCKAIR TARGET PRESSURE (kpA):350

SPRAYER NUM: BRE-BPS-001 PROPELLANT Gas: AIR mix

Equipment Calibration:

Nozzle Manufacturer: TEE-JET

Reference Number: XR1100015VK

Nozzle Spacing (cm): 50

No. of nozzles/boom: 8

Calibration	NOZZLE (numbered from L to R from rear of the boom)				
Run	1	2	3	4	5
Run 1	125	126	127	129	127
Run 2	125	125	125	127	129

NEW: Safety Statement

- Added Safety Statement long text field to Protocol Instructions.
- Document safety protocols for chemical handling, PPE, spray drift mitigation, re-entry intervals (REI), and the disposal of treated trial crops.
- Note: this field is read-only in a trial, like other protocol instruction fields.

Protocol Description

Instructions

Safety Statement: Safety protocols for chemical handling, PPE, spray drift mitigation, re-entry intervals (REI), and the disposal of treated trial crops.



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A few minutes a day will expand your ARM knowledge.



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Mixed Models Analysis: Added for AOV Means Table report

Why use Mixed Models analysis?

- Missing data: calculates a less biased, more conservative estimate of treatment means.
- Blocking failure: better analysis in situations where replicate effect is not estimable [Replicate P(F) is not significant].

In cases where neither of the above applies, Mixed Models is identical to Least Squares estimation; thus, it is always better to run Mixed Models!

AOV Means Table Report Options

Report Options | Descriptive Statistics

Mean comparison test

☐ Pairwise mean

☐ Minimum and maximum

☐ Standard deviation

☐ Median

☐ Adjusted mean (when available)

Mean sorting

Analysis method

☒ Mixed Models

☐ Least square estimation

☐ Traditional AOV

Number of Decimals		No missing data	Same data w/missing plots
Data Entry Date			
Trt No.	Treatment Name	Rate Appl Rate Unit Code	
1	S		54.5 c
2	S		75.8 a
3	S		66.0 b
4	U		0.0 d
LSD P=.05			5.46
Standard Deviation			3.41
CV			7.01
Grand Mean			49.06
Treatment F (mixed)			393.3649
Treatment Prob(F) (mixed)			0.0001
Replicate F			0.934
Replicate Prob(F)			0.4634
Treatment F			386.905
Treatment Prob(F)			0.0001

Better estimate of means
Mixed Model supplements least squares analysis

ARM Mobile Updates: New features added!

Box Whisker Graph

- Access the graph through the Assessment Review page > Box Plot tab.
- Review the distribution of each treatment individually.
- Includes all subsample values, making it easier to identify potentially incorrect entries even with hundreds of data points!

ARM Mobile

Settings and Help

Data Cleanup

☐ Select All

☐ AM_AUDPC

☐ AM_Fung

☐ AM_Herb

☐ AM_Seeds-Variety

Delete all trials to start a new season

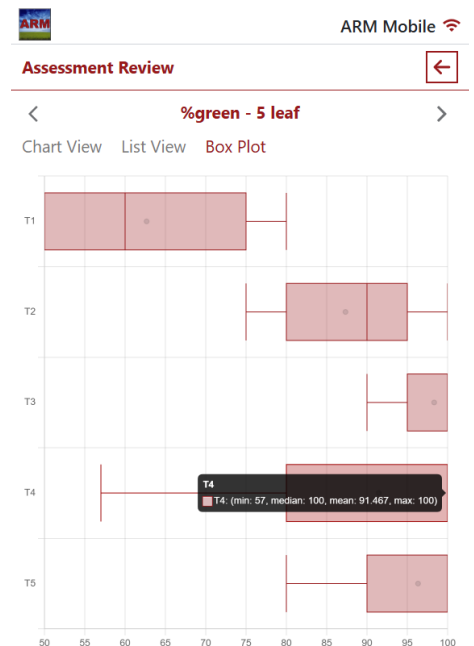
Delete Selected

Cannot delete trials with data in-progress

Data Cleanup

- Select multiple trials to delete from the device at one time.
- Trials with any in-progress data cannot be removed.

Perfect for starting a new season or research project instead of removing them individually!



GDM Employee Spotlight: Peter Claussen

At GDM Solutions, our employees drive the innovation and quality our customers depend on. This issue's spotlight introduces you to Peter, our Biometrician. Peter works closely with the GDM development and support teams to enhance ARM's statistical capabilities and provide guidance on research methodologies. Learn more about Peter [HERE](#).



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