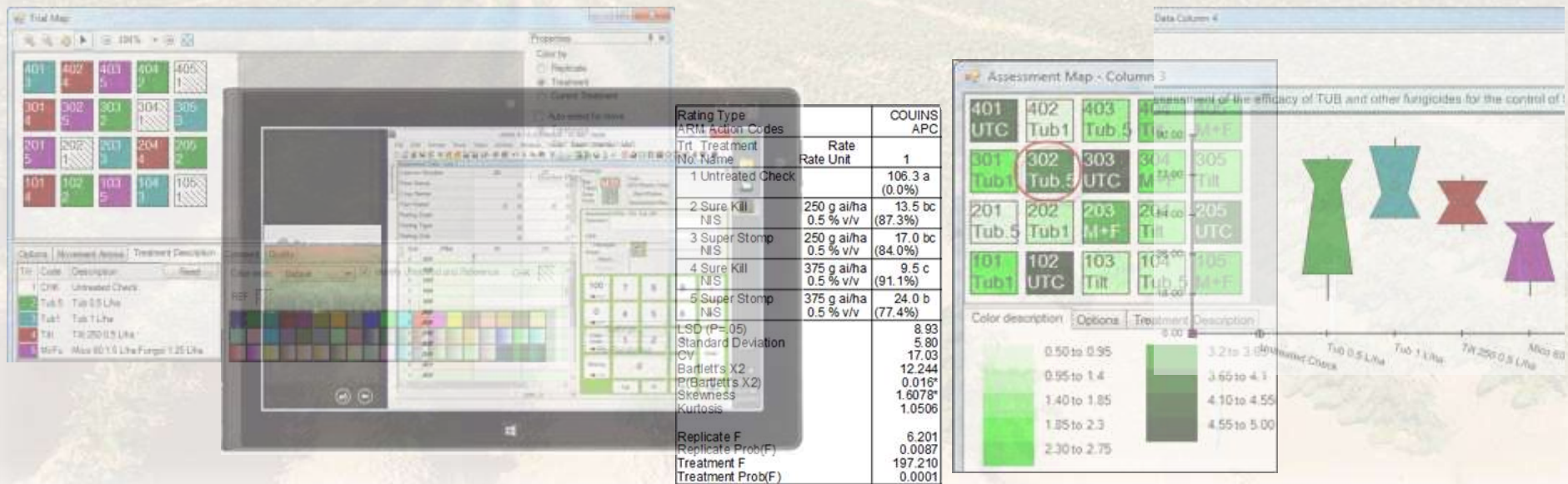




ARM

Software to plan, create, manage, capture data, analyze, and report information for planned field, greenhouse, and laboratory efficacy experiments.



Means followed by same letter do not significantly differ (P=05, Student-Newman-Keuls)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL



Products Overview

- **ARM**

ARM is a very flexible program for managing replicated and non-replicated efficacy experiments throughout the entire research season. It is designed to enter protocols, randomize and create trials according to the selected experimental design, capture trial assessments and other information, summarize, report, and graph on a single-trial basis. ARM is most beneficial for field and greenhouse researchers. Ongoing enhancements make ARM a useful tool for a broad range of agricultural and non-agricultural disciplines.

- **ARM TDC**

A Windows 10 touch tablet computer plus the Tablet Data Collector add-in running within ARM. Use TDC to record all trial information at the trial site directly into the actual ARM trial. TDC is optimized for:

- Touch data entry of assessment data.
- Taking pictures that are directly linked to the current plot.
- Directly recording GPS coordinates of trial corners using built-in GPS unit.

- **ARM ST**

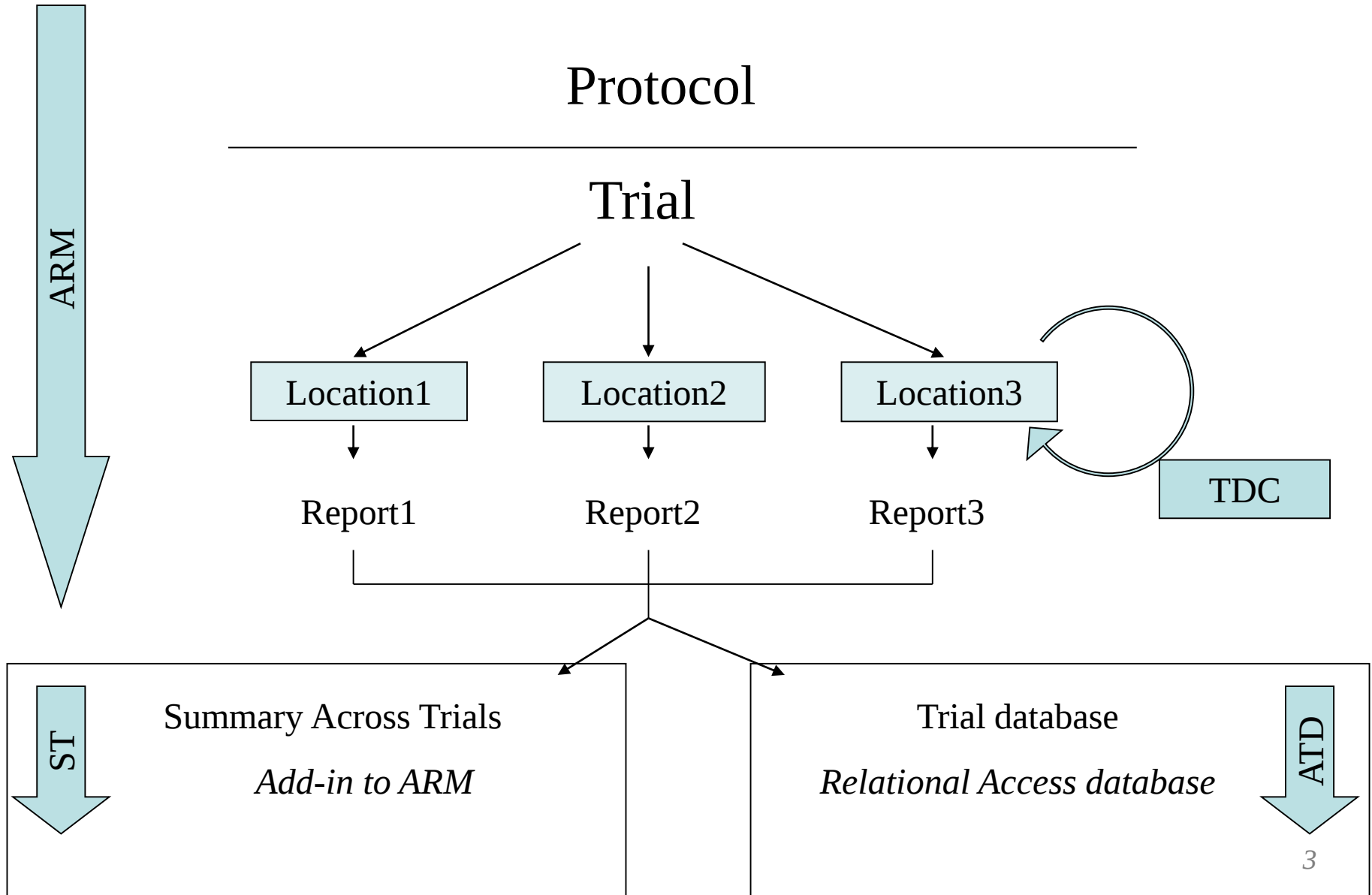
ARM Summary Across Trials software summarizes ARM trials across locations and years. Researchers, product managers and information technology groups use it to produce summaries of research trials. The resulting information can improve planning of future trials, and can help quantify the consistency of research results.

- **ARM ATD**

ARM Trial Database is an add-in option to store and maintain trials in a relational database. ARM directly exports and imports trials in the database, and Microsoft Office™ products can be used to build customized reports for trials extracted from the database.



Information flow in ARM



Sections

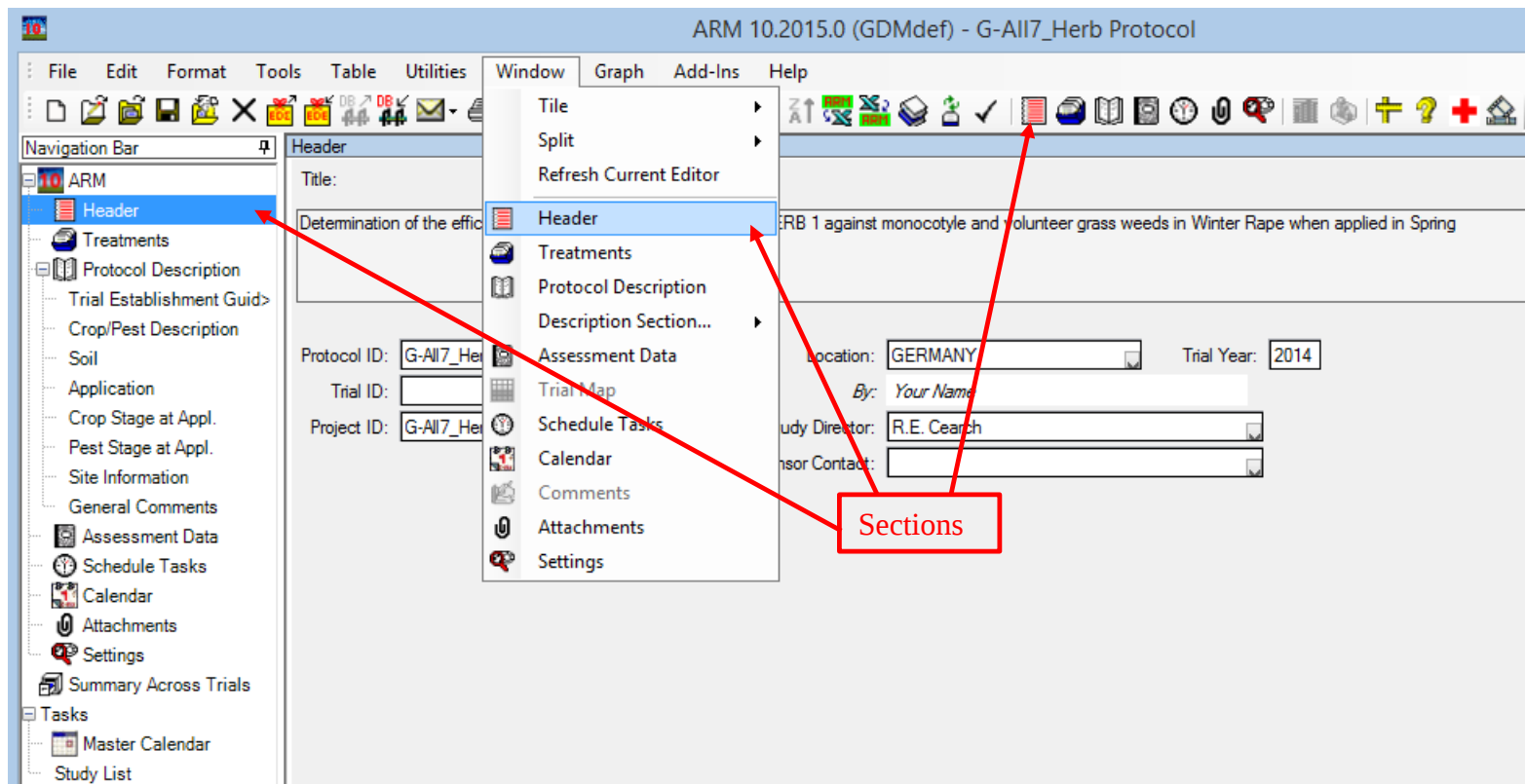
(click link to go directly to a section)



- [Protocols](#)
- [Study List](#)
- [Trial](#)
- [Print Reports](#)
- [Help](#)
- [Benefits](#)
- [Utilities](#)
- [Appendix A – TDC \(Tablet Data Collector\)](#)
- [Appendix B – ARM ST \(ARM Summary Across Trials\)](#)
- [Appendix C – Supported Languages](#)
- [Appendix D – Data Flow with ARM and ATD](#)

Protocol

- A well-written protocol contains all information needed to run trials



Protocol settings – General Tab

Set parameters for replications and experimental unit size

Settings

ARM 10.2015.0 (GDMdef) - G-All7_Herb Protocol

File Edit Format Tools Table Utilities Window Graph Add-Ins Help

Navigation Bar

ARM

Header

Treatments

Protocol Description

Trial Establishment Guid>

Crop/Pest Description

Soil

Application

Crop Stage at Appl.

Pest Stage at Appl.

Site Information

General Comments

Assessment Data

Schedule Tasks

Calendar

Attachments

Settings

Summary Across Trials

Tasks

Master Calendar

Study List

Trt Line	Trt No.	Type	Treatment Name	Form Conc	Form Unit	Form Type	Lot Code	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	Comment 1	Comment 2
1	1	CHK	Untreated Check											
2	2	HERB	Herb 1	100	GA/L	EC		50	g Al/ha	0.5	L/HA	A	early post appli	
3	3	HERB	Herb 1	100	GA/L	EC		80	g Al/ha	0.8	L/HA	A	early post appli	
4	4	HERB	Herb 1	100	GA/L	EC		100	g Al/ha	1.0	L/HA	A	early post appli	
5	5	HERB	Standard											
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														
25														
26														
27														
28														

Protocol Settings

General Design Treatment Application Layout

Replications: 4

Treated 'Plot' experimental unit size

Width: 2.5 meters

Length: 10

Orientation (degrees):

Format definitions

Site description: G-All7.fm8

Study: G-All7.def8

Change FRM...

Change DEF...

☐ Conduct under GLP/GEP

☐ Confidential

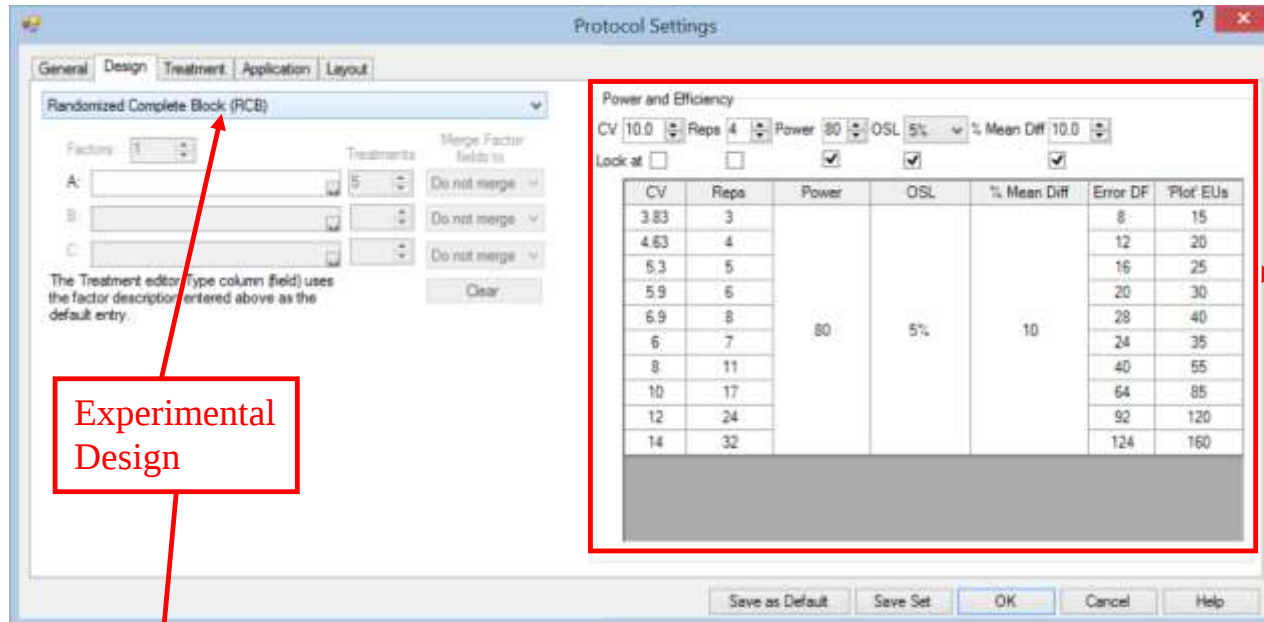
Other protocol owners

Settings: Original

Save as Default Save Set OK Cancel Help

Protocol settings – Design Tab

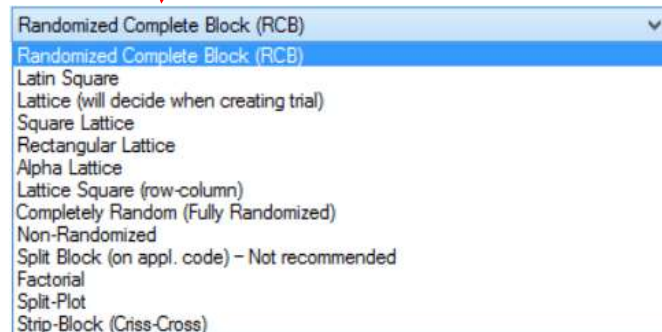
Select experimental design and plan number of replicates using Power and Efficiency calculator



The screenshot shows the 'Protocol Settings' dialog box, specifically the 'Design' tab. The 'Randomized Complete Block (RCB)' design is selected. The 'Power and Efficiency' section is highlighted with a red box and contains a table with the following data:

CV	Reps	Power	OSL	% Mean Diff	Error DF	Plot EUs
3.83	3				8	15
4.63	4				12	20
5.3	5				16	25
5.9	6				20	30
6.9	8				28	40
6	7	80	5%	10	24	35
8	11				40	55
10	17				64	85
12	24				92	120
14	32				124	160

Below the table, there is a red box labeled 'Experimental Design' with an arrow pointing to the 'Randomized Complete Block (RCB)' dropdown menu. Another red arrow points from the 'Power and Efficiency' section to the text block on the right.



The dropdown menu shows the following options:

- Randomized Complete Block (RCB)
- Randomized Complete Block (RCB)
- Latin Square
- Lattice (will decide when creating trial)
- Square Lattice
- Rectangular Lattice
- Alpha Lattice
- Lattice Square (row-column)
- Completely Random (Fully Randomized)
- Non-Randomized
- Split Block (on appl. code) - Not recommended
- Factorial
- Split-Plot
- Strip-Block (Criss-Cross)

Plan appropriate number of replicates based on CV, significance level, statistical power by using the Power and Efficiency calculator

Protocol settings – Treatments Tab

Select Untreated treatment, treatment units and fields to display

ARM 10.2015.0 (GDMdef) - G-All7_Herb Protocol

File Edit Format Tools Table Utilities Window Graph Add-Ins Help

Navigation Bar

- ARM
- Header
- Treatments
- Protocol Description
- Trial Establishment Guid>
- Crop/Pest Description
- Soil
- Application
- Crop Stage at Appl.
- Pest Stage at Appl.
- Site Information

Treatments - Line 1

Trt Line	Trt No.	Type	Treatment Name	Form Conc	Form Unit	Form Type	Lot Code	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	Comment 1	Comment 2
1	1	CHK	Untreated Check											
2	2	HERB	Herb 1	100	GA/L	EC		50	g AI/ha	0.5	L/HA	A	early post appli	
3	3	HERB	Herb 1	100	GA/L								post appli	
4	4	HERB	Herb 1	100	GA/L								post appli	
5	5	HERB	Standard	125	GA/L								post appli	
6														
7														
8														

Protocol Settings

General Design Treatment Application Layout

Paired Checks: None

Untreated treatments: 1

Reference treatment number: 1

Treatment units

☒ Metric ☐ US standard

Settings...

Treatment Fields

Treatment View Options...

Save as Default Save Set OK Cancel Help



Protocol settings – Application Tab

Set Application volume, mix size and overage amounts.

ARM 2015.0 (GDMdef) - G-All7_Herb Protoc

File Edit Format Tools Table Utilities Window Graph Add-Ins Help

Navigation Bar

Treatments - Line 1

Trt Line	Trt No.	Type	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	Spray Volume	Volume Unit	Comment 1
1	1	CHK	Untreated Check											
2	2	HERB	Herb 1	100	GA/L	EC	50	g AI/ha	0.5	L/HA	A	300	L/HA	early post appli
3	3	HERB	Herb 1	100	GA/L	EC	80	g AI/ha	0.8	L/HA	A	300	L/HA	early post appli
4	4										A	300	L/HA	early post appli
5	5										A	300	L/HA	early post appli
6														
7														

Protocol Settings

General Design Treatment Application Layout

Application volume: 300 L/ha

Mix size

Treatments	1
Replications	4
Plot EU size	25 m2
Application volume	140 L/ha
Mix size unit	liters
Minimum	3 liters
Overage	250 mL
Calculated mix size	3.25 liters
User-defined mix size	3.25 liters

3 liters based on 1 trts; 4 reps; 25 m2
Plot experimental unit size: 300 L/ha volume

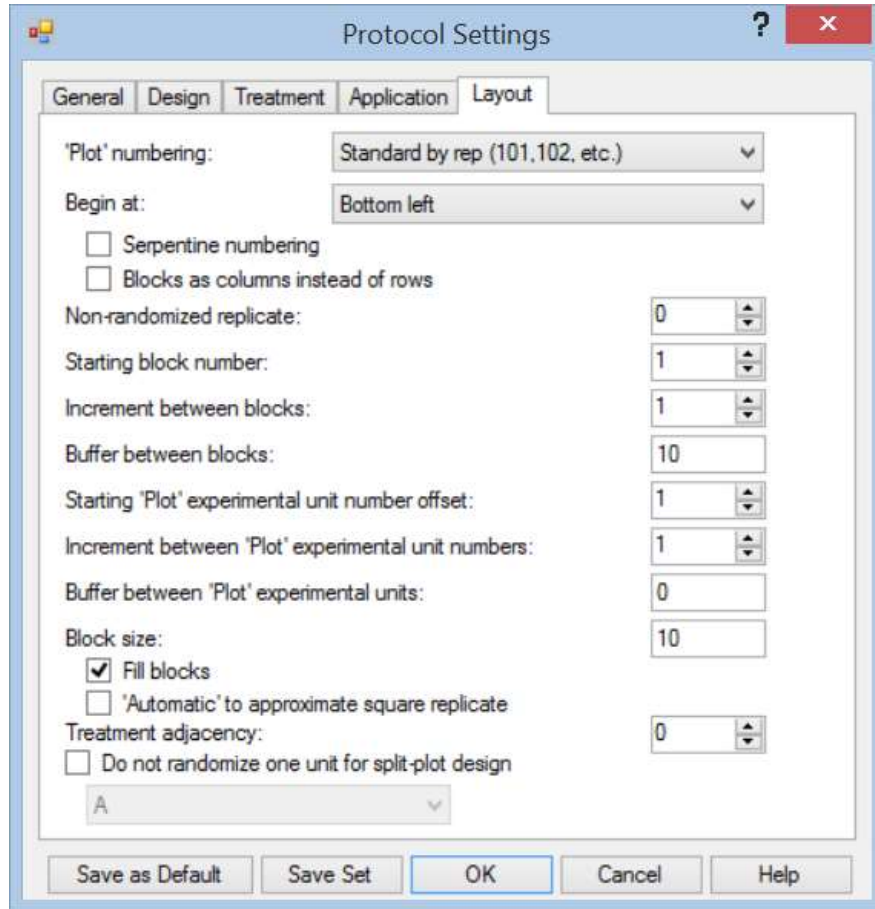
In-Furrow
Rows per plot for in-furrow: 0

Save as Default Save Set OK Cancel Help

ARM uses information entered here when calculating product amounts for spray/seeding plans, labels, and product amount summary reports.

Protocol settings – Layout tab

Set layout for field, including plot numbering and block size to accommodate field size.



Protocol Settings

General Design Treatment Application Layout

'Plot' numbering: Standard by rep (101,102, etc.)

Begin at: Bottom left

☐ Serpentine numbering

☐ Blocks as columns instead of rows

Non-randomized replicate: 0

Starting block number: 1

Increment between blocks: 1

Buffer between blocks: 10

Starting 'Plot' experimental unit number offset: 1

Increment between 'Plot' experimental unit numbers: 1

Buffer between 'Plot' experimental units: 0

Block size: 10

☒ Fill blocks

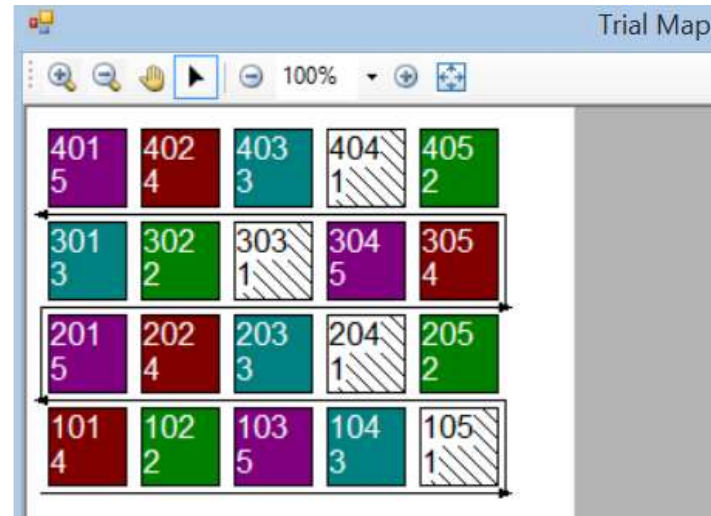
☐ 'Automatic' to approximate square replicate

Treatment adjacency: 0

☐ Do not randomize one unit for split-plot design

A

Save as Default Save Set OK Cancel Help



Block size = 10. Option to fill blocks selected.



Protocol - Header

General protocol information, printed on page heading of reports

Header

ARM 10.2015.0 (GDMdef) - G-All7_Herb Protocol

File Edit Format Tools Table Utilities Window Graph Add-Ins Help

Navigation Bar

- ARM
- Header
- Treatments
- Protocol Description
- Trial Establishment Guid>
- Crop/Pest Description
- Soil
- Application
- Crop Stage at Appl.
- Pest Stage at Appl.

Header

Title:
Determination of the efficacy and lowest effective dose rate of HERB 1 against monocotyle and volunteer grass weeds in Winter Rape when applied in Spring

Protocol ID: G-All7_Herb Location: GERMANY Trial Year: 2014

Trial ID: By: Your Name

Project ID: G-All7_Herb Study Director: R.E. Cearch

Sponsor Contact:

Your screen might be different.

Some fields are hidden by default

Header

Title:
Determination of the efficacy and lowest effective dose rate of HERB 1 against monocotyle and volunteer grass weeds in Winter Rape when applied in Spring

Protocol ID: G-AII7_Herb Location: GERMANY

Trial ID: By: Your Name

Project ID: G-AII7_Herb Study Director: R.E. Cearch

Sponsor Contact:

Undo
Cut
Copy
Paste
Hide Current Field
Display All Fields
Display Hidden Fields with Information
Set As Default
Header View Options...

Hidden fields

Properties

View Options...

Hidden Fields

☐ Title No. 2

☐ Official Trial ID

Views

Original
All fields
Hidden fields with informatic
Hide empty fields
Default - All Visible.TRL

Some fields in the Header and in the Site description are hidden by default.

To display, right-click anywhere and select

Display all fields or from the Properties bar (right side of screen), select a view



Protocol – Treatments list

Complete details of all treatments to test in trials created from a protocol.

Treatments

Trt Line	Trt No.	Type	Treatment Name	Form Conc	Form Unit	Form Type	Lot Code	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	Comment 1	Comment 2
1	1	CHK	Untreated Check											
2	2	HERB	Herb 1	100	GA/L	EC		50	g AI/ha	0.5	L/HA	A	early post appli	
3	3	HERB	Herb 1	100	GA/L	EC		80	g AI/ha	0.8	L/HA	A	early post appli	
4	4	HERB	Herb 1	100	GA/L	EC		100	g AI/ha	1.0	L/HA	A	early post appli	
5	5	HERB	Standard	125	GA/L	EC		125	g AI/ha	1.0	L/HA	A	early post appli	
6														
7														
8														

Protocol – Protocol description



Additional details on how, when where, and why to conduct trials created from a protocol.

Description:
Protocol description in Protocol
Site description in Trial

ARM 10.2015.0 (GDMdef) New_G-All7_Herb Protocol

File Edit Format Tools Table Utilities Window Graph Add-Ins Help

Navigation Bar: ARM, Header, Treatments, Protocol Description, Trial Establishment Guidelines, Crop/Pest Description, Soil, Application, Crop Stage at Appl., Pest Stage at Appl., Site Information, General Comments

Trial Establishment Guidelines

Enter below required settings to use in trial

Project ID: Dicamba
Revision Number: 0.0
Revision Date: 09/25/2014
Research Stage: SC
Treated Plot Width:
Treated Plot Length:
Treated Plot Area: 10 m2
Replications: 4
Trial Usage/Type: SCR Screening/Exploratory
Product Type: Research

Developer: A.N. Other
Revision Status: F Final
Issue Date: 03/26/2014
Site Type: FIELD field
Country: FRA France
Climate Zone: EPOMED EPPO Mediterranean
Experimental Unit: 1 PLOT plot
Tillage Type: CONTIL conventional/dif
Study Design: COMRAN Completely Randomized (CRD)
Untreated Arrangement: INCLUDED single control randomized in each block

Background:
Keywords:

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

Trial ID	Responsible	Number of Trials	Site Requirements
123 a 1-5	R.E. Search	5	

Total Trials: 5 Trial Cost:

Conduct Under GLP: ☐ Study Rules:
Conduct Under GEP: ☐ Officially Recognized Organization:

Some information is copied from General Lab of Settings - make changes there

No.	Guideline	Description
1.	PP 1/45(3)	Weeds in brassica oil crops
2.	PP 1/135(3)	Phytotoxicity assessment
3.	PP 1/152(3)	Design and analysis of efficacy evaluation trials



Protocol – Assessment data

Description of required or recommended assessments to perform in trials created from a protocol.

Assessment data:
Only Assessment data
headers in Protocol

ARM 10.2015.0 (GDMdef) - G-All7_Herb Protocol

File Edit Format Tools Table Utilities Window Graph Add-Ins Help

Navigation Bar

- ARM
- Header
- Treatments
- Protocol Description
- Trial Establishment Guide
- Crop/Pest Description
- Soil
- Application
- Crop Stage at Appl.
- Pest Stage at Appl.
- Site Information
- General Comments
- Assessment Data**
- Schedule Tasks
- Calendar
- Attachments
- Settings
- Summary Across Trials
- Tasks
- Master Calendar
- Study List

Column Number	1	2	3	4	5	6
Pest Type	☐	☐	☐	☐	W ☐ Weed	W ☐ Weed
Pest Code					GGGAN ☐	GGGAN ☐
Pest Scientific Name					Annual grasses ☐	Annual grasses ☐
Pest Name					Annual grasses ☐	Annual grasses ☐
Crop Code	BRNN ☐	BRNN ☐	BRNN ☐	BRNN ☐	BRNN ☐	BRNN ☐
BBCH Scale	BRAP ☐	BRAP ☐	BRAP ☐	BRAP ☐	BRAP ☐	BRAP ☐
Crop Scientific Name	Brassica napus ☐	Brassica napus ☐	Brassica napus ☐	Brassica napus ☐	Brassica napus ☐	Brassica napus ☐
Crop Name	Rapeseed ☐	Rapeseed ☐	Rapeseed ☐	Rapeseed ☐	Rapeseed ☐	Rapeseed ☐
Description						
Part Rated	PLANT ☐ C ☐	PLANT ☐ C ☐	PLANT ☐ C ☐	PLANT ☐ C ☐	PLAGRA ☐ P ☐	PLAGRA ☐ P ☐
Rating Date						
Rating Type	PHYGEN ☐	PHYGEN ☐	PHYGEN ☐	PHYGEN ☐	GROUND ☐	GROUND ☐
Rating Unit	% ☐	% ☐	% ☐	% ☐	% ☐	% ☐
Sample Size, Unit						
Number of Subsamples	1 ☐	1 ☐	1 ☐	1 ☐	1 ☐	1 ☐
Crop Stage Majority						
Crop Stage Scale	BBCH ☐	BBCH ☐	BBCH ☐	BBCH ☐	BBCH ☐	BBCH ☐
Pest Stage Majority						
Pest Density, Unit					PERCEN ☐	PERCEN ☐
Footnote Number					1 ☐	1 ☐
Assessed By						
SE Description						
Rating Timing						
Days After First/Last Applic.						
Tri-Eval Interval	3 ☐	7 ☐	14 ☐	21 ☐	0 ☐	3 ☐
Plant-Eval Interval						
ARM Action Codes	P ☐	P ☐	P ☐	P ☐	P ES ☐	P ES ☐
Number of Decimals	2 ☐	2 ☐	2 ☐	2 ☐	2 ☐	2 ☐



Protocol – Study Rules

Purpose is to inform trialist of requirements for a study

ARM 2015.0 (GDMdef) - New_G-All7_Herb Protocol

File Edit Format Tools Table Utilities Window Graph Add-Ins Help

Navigation Bar

- ARM
- Header
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 - Soil
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 - Pest Stage at Appl.
 - Site Information
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- Assessment Data
- Schedule Tasks
- Calendar
- Attachments
- Settings
- Summary Across Trials
- Tasks
 - Master Calendar
 - Study List

Treatments - Line 1

Trt Line	Trt No.	Type	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	Spray Volume	Volume Unit	Comment 1	Comment 2
1		CHK	Untreated Check												
2	2	HERB	Barvel 720	2.9	LBA/GAL	L	72.5	g Al/ha	0.208	L/HA	A	300	L/HA	early post appli	
3	3	HERB	FallowMaster	2.1	LBA/GAL	SC	87.5	g Al/ha	0.347	L/HA	A	300	L/HA	early post appli	
4	4	HERB	Marksman	3.2	LBA/GAL	F	73	g Al/ha	0.19	L/HA	A	300	L/HA	early post appli	
5	5	HERB	Clarity	58.1	%	SC	25	g Al/ha	0.043	L/HA	A	300	L/HA	early post appli	
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															

Properties

Study Rules

Rule	Rule ID	Editor	Field	Condition	Columns	Permissions	Owner ID
1	Required	Assessment Data	Rating Type	Lock field to prevent edits	1-4	Everyone in my company	GYSTRE
2	Required	Assessment Data	Rating Type	Lock field to prevent edits	5	Everyone in my company	GYSTRE
3	Required	Site Description	General Trial - Latitude of LL Corner *	established		Everyone in my company	GYSTRE
4	Required	Site Description	General Trial - Longitude Direction Description	established		Everyone in my company	GYSTRE
5	Recommended	Site Description	Soil - Soil Texture	setup		Everyone in my company	GYSTRE

Load Rule Set... Save Rule Set... Delete Rule Show all rules Print

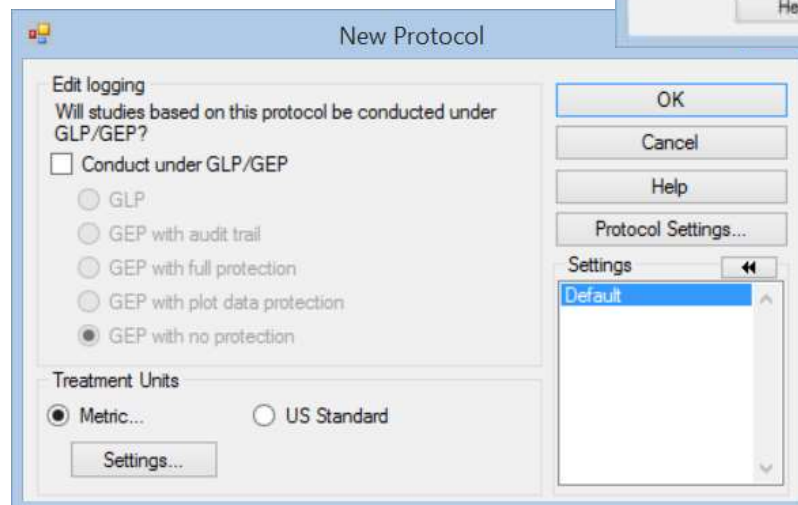
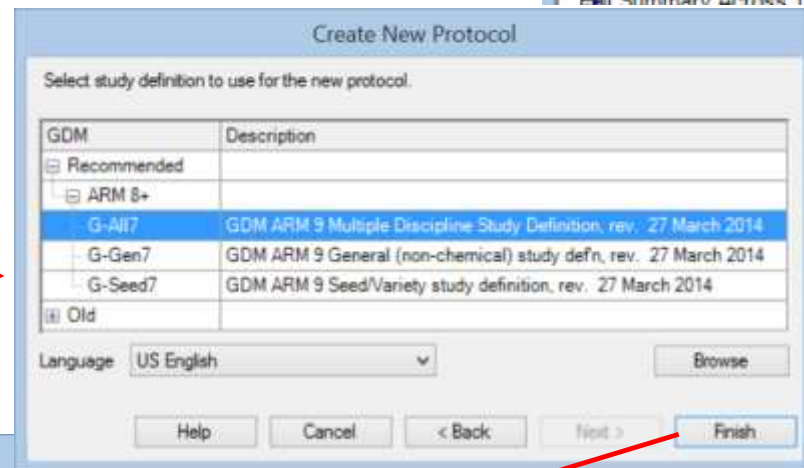
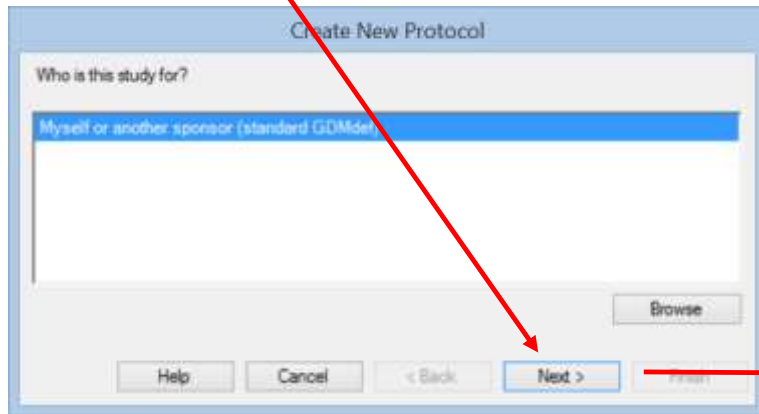
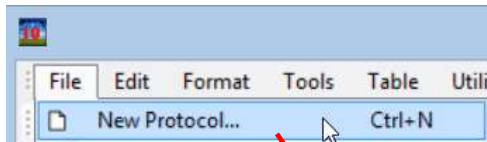
Required or Recommended

Identify key site description entry fields

Save rule sets for easy portability and re-use

Create one Protocol

Sequence of steps used to create a new protocol.





Navigation: File | Open | from Study List

Sort or filter on
several key fields
to limit choices

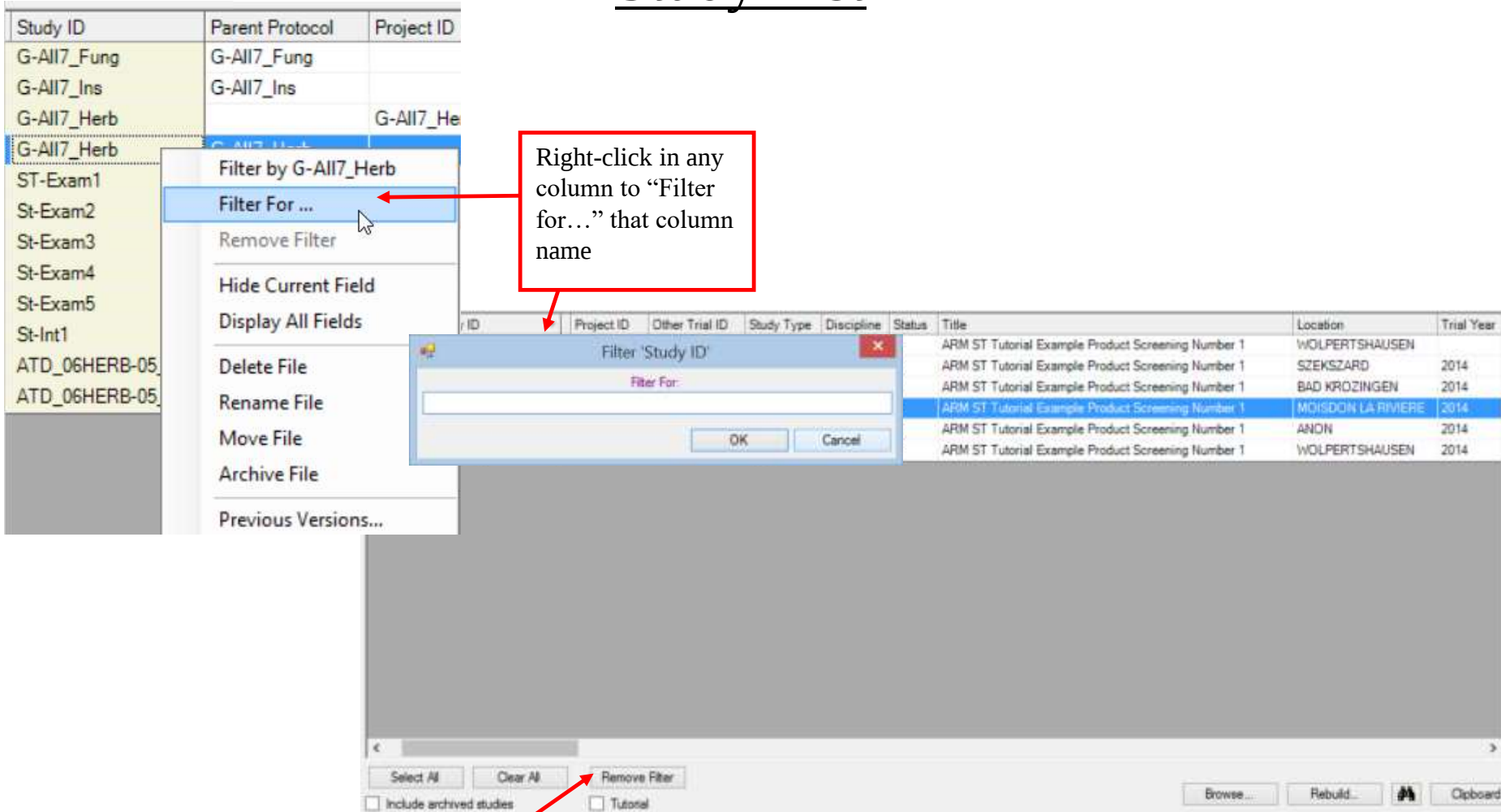
The screenshot shows the ARM Study List application. At the top, there's a header with fields like Study ID, Title, Study Type, and Trial Year. Below this is a table of studies with columns: Study ID, Location, Trial Year, Investigator, Study Director, Sponsor Contact, Other Study Director, Other Study Director Organization, Other Investigator, and Other. A context menu is open over the table, showing options: Filter by St-Exam3, Filter For..., Remove Filter, Hide Current Field (highlighted), Display All Fields, Delete File, Rename File, Move File, Archive File, and Previous Versions... A red arrow points from the text 'Sort or filter on several key fields to limit choices' to the filter options in the header. Another red arrow points from the text 'Right-click to hide one or multiple fields; display all fields' to the 'Hide Current Field' option in the context menu.

Study ID	Location	Trial Year	Investigator	Study Director	Sponsor Contact	Other Study Director	Other Study Director Organization	Other Investigator	Other
G-487_Fung	Gendreau	2014	Your Name	R.E. Cech	R.E. Cech	Rory Degenhardt	Dow AgroSciences	ARM Demonstration	
PPD14082	MOISSON LA RIVIERE	2014	Fred Vaughn	Rory Degenhardt	Rory Degenhardt	Rory Degenhardt	Dow AgroSciences	ARM Demonstration	
St-Exam3	WOLPERTSHAUSEN	2014	Your Name	R.E. Cech	R.E. Cech	Rory Degenhardt	Dow AgroSciences	ARM Demonstration	
St-Exam2	ANON	2014	Your Name	R.E. Cech	R.E. Cech	Rory Degenhardt	Dow AgroSciences	ARM Demonstration	
G-487_1st	Loon	2014	Your Name	R.E. Cech	Rory Degenhardt	Rory Degenhardt	Dow AgroSciences	ARM Demonstration	
G-487_2nd	Loon	2014	Your Name	R.E. Cech	Rory Degenhardt	Rory Degenhardt	Dow AgroSciences	ARM Demonstration	
New G-487_Herb_01	Dijk, FRA	2014	Rebecca Standish	R.E. Cech	Rory Degenhardt	Rory Degenhardt	Dow AgroSciences	ARM Demonstration	
New G-487_Herb_02	Seemans-Vla FRA	2014	Rebecca Standish	R.E. Cech	Rory Degenhardt	Rory Degenhardt	Dow AgroSciences	ARM Demonstration	
ALOPC_1	Brookings, SD 57008	2014	Rebecca Standish	Rory Degenhardt	Rory Degenhardt	Rory Degenhardt	Dow AgroSciences	ARM Demonstration	
Seed_Vir_Strip_01	Anywhere, MO, USA	2018	Rebecca Standish	Rory Degenhardt	Rory Degenhardt	Rory Degenhardt	Dow AgroSciences	ARM Demonstration	
New G-487_Herb	GERMANY	2014	Your Name	R.E. Cech	Rory Degenhardt	Rory Degenhardt	Dow AgroSciences	ARM Demonstration	
ST4-SCGDS-1001 (2)	GTH Office	2014	Patricia Maguire	Rory Degenhardt	Rory Degenhardt	Rory Degenhardt	Dow AgroSciences	ARM Demonstration	
Seed_Vir_Strip_02	Anywhere, MO, USA	2018	Rebecca Standish	Rory Degenhardt	Rory Degenhardt	Rory Degenhardt	Dow AgroSciences	ARM Demonstration	
G-487_NDR_1st	SEKISZARD	2014	Your Name	R.E. Cech	Rory Degenhardt	Rory Degenhardt	Dow AgroSciences	ARM Demonstration	
St-Exam2	SEKISZARD	2014	Your Name	R.E. Cech	Rory Degenhardt	Rory Degenhardt	Dow AgroSciences	ARM Demonstration	

- Open Trial or Protocol via Study List
- Tracks all ARM files
- ARM defaults to study list view upon open
- Perform searches or sorts on columns

Right-click to hide
one or multiple
fields; display all
fields

Study List



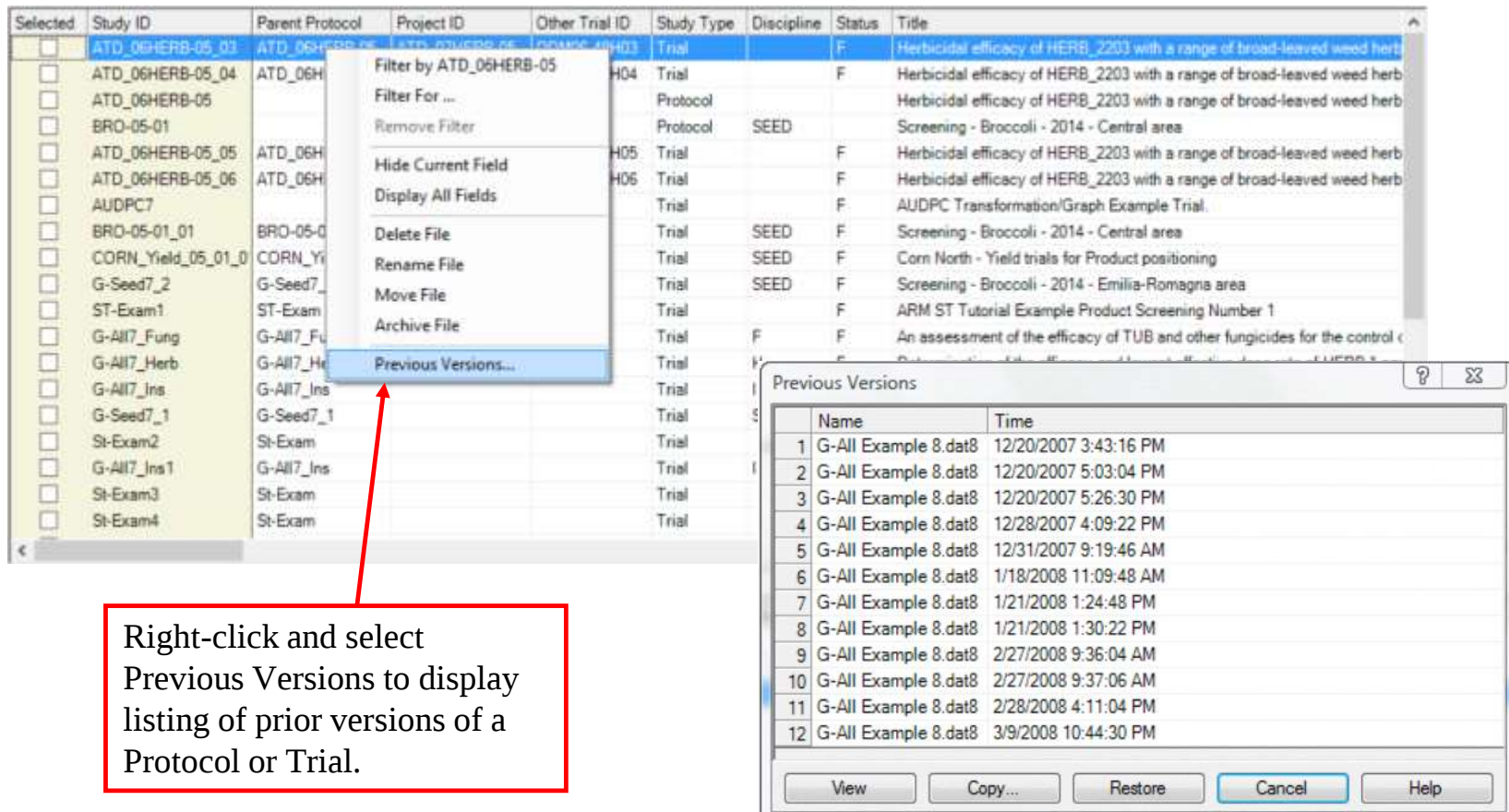
The screenshot shows the 'Study List' application interface. On the left, a list of study entries is displayed, including 'G-AII7_Fung', 'G-AII7_Ins', 'G-AII7_Herb', and 'ST-Exam1' through 'ST-Exam5'. A right-click context menu is open over the 'G-AII7_Herb' entry, with the 'Filter For ...' option highlighted. A red arrow points from a text box to this option. Below the context menu, a 'Filter 'Study ID'' dialog box is open, showing a 'Filter For:' input field and 'OK' and 'Cancel' buttons. Another red arrow points from a text box to the 'Remove Filter' button at the bottom of the application window. The main table on the right displays columns for 'Study ID', 'Project ID', 'Other Trial ID', 'Study Type', 'Discipline', 'Status', 'Title', 'Location', and 'Trial Year'. The table contains several rows of data, with one row highlighted in blue.

Study ID	Parent Protocol	Project ID
G-AII7_Fung	G-AII7_Fung	
G-AII7_Ins	G-AII7_Ins	
G-AII7_Herb		G-AII7_He
G-AII7_Herb		
ST-Exam1		
ST-Exam2		
ST-Exam3		
ST-Exam4		
ST-Exam5		
ST-Int1		
ATD_06HERB-05		
ATD_06HERB-05		

Study ID	Project ID	Other Trial ID	Study Type	Discipline	Status	Title	Location	Trial Year
						ARM ST Tutorial Example Product Screening Number 1	WOLPERTSHAUSEN	
						ARM ST Tutorial Example Product Screening Number 1	SZEKSZARD	2014
						ARM ST Tutorial Example Product Screening Number 1	BAD KROZINGEN	2014
						ARM ST Tutorial Example Product Screening Number 1	MOISDON LA RIVIERE	2014
						ARM ST Tutorial Example Product Screening Number 1	ANDN	2014
						ARM ST Tutorial Example Product Screening Number 1	WOLPERTSHAUSEN	2014

Click to clear filter

Study List – Previous Versions



Right-click and select Previous Versions to display listing of prior versions of a Protocol or Trial.

Use Previous Versions dialog to view or restore a previous saved version of the study from the backup folder.

Selected	Study ID	Parent Protocol	Project ID	Other Trial ID	Study Type	Discipline	Status	Title
☐	ATD_06HERB-05_03	ATD_06HERB-05	ATD_06HERB-05	ATD_06HERB-05_03	Trial		F	Herbicidal efficacy of HERB_2203 with a range of broad-leaved weed herb
☐	ATD_06HERB-05_04	ATD_06HERB-05	ATD_06HERB-05	ATD_06HERB-05_04	Trial		F	Herbicidal efficacy of HERB_2203 with a range of broad-leaved weed herb
☐	ATD_06HERB-05	ATD_06HERB-05	ATD_06HERB-05	ATD_06HERB-05	Protocol		F	Herbicidal efficacy of HERB_2203 with a range of broad-leaved weed herb
☐	BRO-05-01	BRO-05-01	BRO-05-01	BRO-05-01	Protocol	SEED		Screening - Broccoli - 2014 - Central area
☐	ATD_06HERB-05_05	ATD_06HERB-05	ATD_06HERB-05	ATD_06HERB-05_05	Trial		F	Herbicidal efficacy of HERB_2203 with a range of broad-leaved weed herb
☐	ATD_06HERB-05_06	ATD_06HERB-05	ATD_06HERB-05	ATD_06HERB-05_06	Trial		F	Herbicidal efficacy of HERB_2203 with a range of broad-leaved weed herb
☐	AUDPC7	AUDPC7	AUDPC7	AUDPC7	Trial		F	AUDPC Transformation/Graph Example Trial.
☐	BRO-05-01_01	BRO-05-01	BRO-05-01	BRO-05-01_01	Trial	SEED	F	Screening - Broccoli - 2014 - Central area
☐	CORN_Yield_05_01_0	CORN_Yield_05_01_0	CORN_Yield_05_01_0	CORN_Yield_05_01_0	Trial	SEED	F	Corn North - Yield trials for Product positioning
☐	G-Seed7_2	G-Seed7_2	G-Seed7_2	G-Seed7_2	Trial	SEED	F	Screening - Broccoli - 2014 - Emilia-Romagna area
☐	ST-Exam1	ST-Exam1	ST-Exam1	ST-Exam1	Trial		F	ARM ST Tutorial Example Product Screening Number 1
☐	G-Ail7_Fung	G-Ail7_Fung	G-Ail7_Fung	G-Ail7_Fung	Trial	F	F	An assessment of the efficacy of TUB and other fungicides for the control of
☐	G-Ail7_Herb	G-Ail7_Herb	G-Ail7_Herb	G-Ail7_Herb	Trial			
☐	G-Ail7_Ins	G-Ail7_Ins	G-Ail7_Ins	G-Ail7_Ins	Trial			
☐	G-Seed7_1	G-Seed7_1	G-Seed7_1	G-Seed7_1	Trial			
☐	St-Exam2	St-Exam2	St-Exam2	St-Exam2	Trial			
☐	G-Ail7_Ins1	G-Ail7_Ins1	G-Ail7_Ins1	G-Ail7_Ins1	Trial			
☐	St-Exam3	St-Exam3	St-Exam3	St-Exam3	Trial			
☐	St-Exam4	St-Exam4	St-Exam4	St-Exam4	Trial			

	Name	Time
1	G-Ail Example 8.dat8	12/20/2007 3:43:16 PM
2	G-Ail Example 8.dat8	12/20/2007 5:03:04 PM
3	G-Ail Example 8.dat8	12/20/2007 5:26:30 PM
4	G-Ail Example 8.dat8	12/28/2007 4:09:22 PM
5	G-Ail Example 8.dat8	12/31/2007 9:19:46 AM
6	G-Ail Example 8.dat8	1/18/2008 11:09:48 AM
7	G-Ail Example 8.dat8	1/21/2008 1:24:48 PM
8	G-Ail Example 8.dat8	1/21/2008 1:30:22 PM
9	G-Ail Example 8.dat8	2/27/2008 9:36:04 AM
10	G-Ail Example 8.dat8	2/27/2008 9:37:06 AM
11	G-Ail Example 8.dat8	2/28/2008 4:11:04 PM
12	G-Ail Example 8.dat8	3/9/2008 10:44:30 PM



Backup

The image shows the 'ARM Options' dialog box with the 'General' tab selected. The 'Backup' field is highlighted with a blue selection box, indicating it is the current focus. The 'Backup' field contains the path 'D:\ARMbackup\'. The 'Backup interval (minutes)' is set to 60. The 'Attachments and EDE/EDP same as Study data' checkbox is checked. The 'Local same as Study definition' checkbox is unchecked. The 'R program' field is empty.

Field	Value	Action
Study data:	C:\Users\Rebecca\Documents\ARM Data\	Browse...
Backup:	D:\ARMbackup\	Browse...
Backup interval (minutes)	60	
Study attachments	C:\Users\Rebecca\Documents\ARM Data\	Browse...
EDE/EDP	C:\Users\Rebecca\Documents\ARM Data\	Browse...
Attachments and EDE/EDP same as Study data	☒	
Images:		Browse...
Print:	C:\Users\Rebecca\Documents\ARM Data\	Browse...
Print same as Study data	☐	
Data collector:	C:\Users\Rebecca\Documents\ARM Data\	Browse...
Rating sheet:	C:\Users\Rebecca\Documents\ARM Data\	Browse...
Synonym:		Browse...
Study definitions:	C:\ProgramData\ARMdef\GDMdef\	Browse...
Set as default	☐	
Local:	C:\ProgramData\ARMdef\GDMdef\	Browse...
Local same as Study definition	☐	
Program:	C:\Program Files (x86)\ARM\	Browse...
Work:	C:\Users\Rebecca\AppData\Local\Temp\ARM\16336\	Browse...
Settings:	C:\Users\Rebecca\AppData\Roaming\Gyfling Data Management\ARM\9.0\	Browse...
R program:		Browse...

Buttons: Reset, OK, Cancel, Help

- Select a backup location to create backup copies of all ARM work; then determine the backup interval.
- Do NOT store to the same hard drive, even if drive is partitioned
- Stores automatic backup and histories of all changed studies.
- See [Previous Versions](#)



ARM Basic Options

- **Tools|Options**
- **Languages**
- **Settings:**
 - *Measurement units*
 - *Date formats*

The image shows the 'ARM Options' dialog box with the 'General' tab selected. The 'Date and time' section includes 'Date format' set to 'Mon-DD-YY', 'Separator' set to '- Hyphen', '4 digit year (YYYY)' checked, 'Add leading zero' unchecked, and 'Time format' set to '12 Hour'. The 'GPS format' is set to 'Degrees Decimal Degree (44.1649)'. The 'Colors' section shows 'Screen element' set to 'Messages', 'ForeColor' set to red, and 'BackColor' set to gray. A preview of the selected colors is shown with the text 'Sample'. The 'Reset Colors' button is at the bottom left.

The image shows the 'ARM Options' dialog box with the 'Other', 'Save', and 'Assistance' tabs visible. The 'Other' tab includes 'Measurement unit' set to 'Metric', 'Language' set to 'US English', 'Check for updates' set to 'Weekly', and 'Install updates without prompting for confirmation' unchecked. The 'Save' tab includes 'Auto-save study changes' unchecked, 'Save report-related settings in study' unchecked, and 'Save studies in ARM 9 format' unchecked. The 'Assistance' tab includes 'Show tooltips' checked, 'Show startup wizard' unchecked, and 'Auto-display a list of upcoming tasks at startup' unchecked. The 'Reset', 'OK', 'Cancel', and 'Help' buttons are at the bottom.

Create a trial



Sequence of steps used to create a new trial.

The sequence of steps to create a new trial is as follows:

- Create Trial...** (Ctrl+R) from the File menu.
- Trial Map** window: A grid of plots (e.g., 401, 402, 403, 404, 405) is shown. The **Properties** panel allows selecting **Treatment** or **Replicate**. The **Options** panel shows a list of treatments (e.g., 'Untreated Check', 'HERB 1 50 g AI/ha', 'HERB 1 80 g AI/ha', 'HERB 1 100 g AI/ha', 'STANDARD 125 g AI/ha') and a **Color order** palette.
- Header** window: The trial title is entered (e.g., 'Determination of the efficacy and lowest effective dose rate of HERB 1 against monocotyle and volunteer grass weeds in Winter Rape when applied in Spring'). The trial ID is set to 'G-All7_Herb', the location is 'GERMANY', the trial year is '2014', and the investigator is 'Your Name'.

Trial - Settings

The screenshot shows the 'Trial Settings' dialog box with the 'General' tab selected. The 'Replications' field is set to 4. The 'Treated Plot experimental unit size' section includes 'Width' (2.5 meters) and 'Length' (10). The 'Orientation (degrees)' field is empty. The 'Format definitions' section shows 'Site description' as 'G-A117.fm8' and 'Study' as 'G-A117.def8', both with 'Change' buttons. There are checkboxes for 'Conduct under GLP/GEP' and 'Confidential'. The 'Other protocol owners' section has three empty dropdown menus. At the bottom are buttons for 'Save as Default', 'OK', 'Cancel', and 'Help'.

Trial Settings

General Design Treatment Application Layout

Replications: 4

Treated Plot experimental unit size

Width: 2.5 meters

Length: 10

Orientation (degrees):

Format definitions

Site description: G-A117.fm8 Change FRM...

Study: G-A117.def8 Change DEF...

☐ Conduct under GLP/GEP

☐ Confidential

Other protocol owners

Save as Default OK Cancel Help

- Some information can no longer be edited
- If changes are necessary, often easier
 - to change at Protocol level
 - or before entering any data



Trial – Header

ARM 10.2015.0 (GDMdef) - G-All7_Herb Trial

File Edit Format Tools Table Utilities Window Graph Add-Ins Help

Navigation Bar

- ARM
 - Header
 - Treatments
 - Site Description
 - General Trial
 - Objectives/Conclusions
 - Contacts
 - Crop Description
 - Pest Description
 - Site and Design
 - Maintenance

Header

Title:

Determination of the efficacy and lowest effective dose rate of HERB 1 against monocotyle and volunteer grass weeds in Winter Rape when applied in Spring

Trial ID: G-All7_Herb Location: GERMANY Trial Year: 2014

Protocol ID: G-All7_Herb Investigator: Your Name

Project ID: Study Director: R.E. Cearch

Sponsor Contact:

Trial - Treatments

ARM 10.2015.0 (GDMdef) - G-All7_Herb Protocol

File Edit Format Tools Table Utilities Window Graph Add-Ins Help

Navigation Bar

ARM

- Header
- Treatments**
- Protocol Description
- Trial Establishment Guid>
- Crop/Pest Description
- Soil
- Application
- Crop Stage at Appl.
- Pest Stage at Appl.
- Site Information

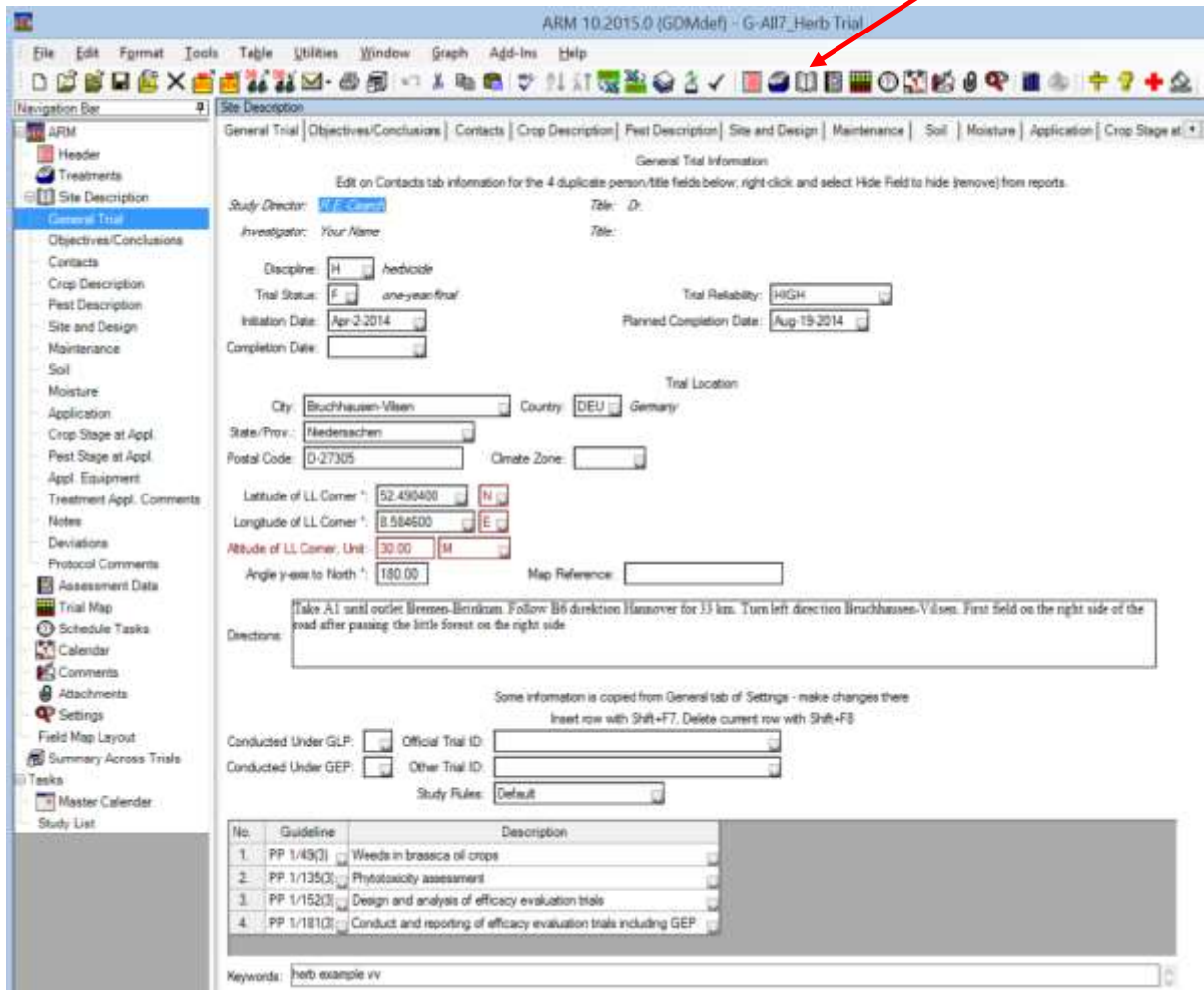
Trt Line	Trt No.	Type	Treatment Name	Form Conc	Form Unit	Form Type	Lot Code	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	Comment 1	Comment 2
1	1	CHK	Untreated Check											
2	2	HERB	Herb 1	100	GA/L	EC		50	g AI/ha	0.5	L/HA	A	early post appli	
3	3	HERB	Herb 1	100	GA/L	EC		80	g AI/ha	0.8	L/HA	A	early post appli	
4	4	HERB	Herb 1	100	GA/L	EC		100	g AI/ha	1.0	L/HA	A	early post appli	
5	5	HERB	Standard	125	GA/L	EC		125	g AI/ha	1.0	L/HA	A	early post appli	
6														
7														
8														

- No need to type again
- Information can be edited, for example:
 - Standard replaced by commercial name
 - Add lot codes, etc..

Trial – Site description

Use to completely describe people, site, crop, pests, maintenance, weather, and treatment applications of one experiment

Site description



ARM 10.2015.0 (GOMdef) - G-AIT7_Herb Trial

File Edit Format Tools Table Utilities Window Graph Add-Ins Help

Navigation Bar: ARM, Header, Treatments, Site Description, General Trial, Objectives/Conclusions, Contacts, Crop Description, Pest Description, Site and Design, Maintenance, Soil, Moisture, Application, Crop Stage at Appl.

General Trial Information

Study Director: Table:

Investigator: Title:

Discipline: herbicide

Trial Status: one-year-trial

Initiation Date: Apr-2-2014

Completion Date:

Total Reliability: HIGH

Planned Completion Date: Aug-15-2014

Trial Location

City: Bruchhausen-Vilsen Country: DEU Germany

State/Prov.: Niedersachsen

Postal Code: D-27305 Climate Zone:

Latitude of LL Corner: 52.490400 N

Longitude of LL Corner: 8.584500 E

Altitude of LL Corner, Unit: 30.00 M

Angle y-axis to North: 180.00 Map Reference:

Directions: Take A1 until outlet Bremen-Bücksum. Follow B6 direction Hannover for 33 km. Turn left direction Bruchhausen-Vilsen. First field on the right side of the road after passing the little forest on the right side

Some information is copied from General tab of Settings - make changes there
Insert row with Shift+F7, Delete current row with Shift+F8

Conducted Under GLP: ☐ Official Trial ID:

Conducted Under GEP: ☐ Other Trial ID:

Study Rules: Default

No.	Guideline	Description
1.	PP 1/49(3)	Weeds in brassica of crops
2.	PP 1/135(3)	Phytotoxicity assessment
3.	PP 1/152(3)	Design and analysis of efficacy evaluation trials
4.	PP 1/181(3)	Conduct and reporting of efficacy evaluation trials including GEP

Keywords: herb example vv

Enter status details, location, and guidelines followed while conducting one trial.



Site description – Contacts tab

Site Description	
General Trial	Objectives/Conclusions
Contacts	Crop Description
Pest Description	Site and Design
Maintenance	Soil
Moisture	Application

Contacts

Study Director: Title:

Organization:

Address: Phone No.:

City+State/Prov: Mobile No.:

Postal Code: E-mail:

Country: *United States*

Investigator: Title:

Organization:

Address: Phone No.:

City+State/Prov: Mobile No.:

Postal Code: E-mail:

Country: *United States*

Sponsor: Title:

Organization:

Address: Phone No.:

City+State/Prov: Mobile No.:

Postal Code: E-mail:

Country: *United States*

Cooperator/Landowner

Cooperator:

Role:

Organization:

Org. Type:

Address 1:

Address 2:

City:

Phone No.:

State/Prov:

Fax No.:

Postal Code:

Mobile No.:

Country: *France*

E-mail:

All people involved in planning conducting one trial.



Site description – Crop description tab

Site Description									
General Trial	Objectives/Conclusions	Contacts	Crop Description	Pest Description	Site and Design	Maintenance	Soil	Moisture	Application
Crop Description									
Insert Crop with Shift+F7. Delete current Crop with Shift+F8									
Crop 1:	BRSNW	Brassica napus (winter)	Winter rape						
Variety:	Hyola 50	BBCH Scale:	BRAP	Crop Group:	20A				
Description:		Maturity Group:	early-heading						
Seed Size, Unit:	2	mm	Nursery Date:						
Seed Shape:	SMALL	Planting Date:	03/16/2014						
Planting Rate, Unit:	5	LB/A	Planting Method:	DRILLE	drilled				
Depth, Unit:	0.75	IN	Planting Equipment:	DD	Disc Drill				
Row Spacing, Unit:	12	IN	Emergence Date:	03/31/2014					
Spacing Within Row, Unit:			Harvest Date:	07/08/2014					
Planting Density, Unit:	14	S/FT2	Harvested Width, Unit:	2	m				
Soil Temperature, Unit:	35	F	Harvested Length, Unit:	8	m				
Soil Moisture:	DAMP	damp	Harvest Equipment:	Case IH Harvester					
Seed Bed:	SMOOTH	smooth	% Standard Moisture:	8.0					
Perennial Age, Unit:			Moisture Meter:	NTEP Moisture Tester GAC2100B					
Rootstock:			Weighing Equipment:	Weigh Tronix XLR-12					
Scion:									

Crop identification, planting/transplanting, seedbed, and harvest information.

Site description – Pest description tab

Site Description

General Trial | Objectives/Conclusions | Contacts | Crop Description | **Pest Description** | Site and Design | Maintenance | Soil | Moisture | Application | Crop Stage at

Pest Description

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

Pest 1 Type: Code:

Common Name:

Description:

Artificial Population: ☐ Establishment Date:

Establishment Rate, Unit:

Concentration, Unit:

Establishment Method/Description:

Pest 2 Type: Code:

Common Name:

Description:

Artificial Population: ☐ Establishment Date:

Establishment Rate, Unit:

Concentration, Unit:

Establishment Method/Description:

Identify pests plus a description of any artificial infestation used to establish the pests.

Repeating section

Site description – Site and Design tab

Trial site and experimental unit description

Site Description

General Trial
Objectives/Conclusions
Contacts
Crop Description
Pest Description
Site and Design
Maintenance
Soil
Moisture
Application
Crop Stage at Appl.

Site and Design

Some information is copied from General and Design tab of Settings - make changes there

Treated Plot Width: 2.5 m
Treated Plot Length: 10 m
Treated Plot Area: 25 m²
Replications: 4
% Slope: 0.3

Total Plot Width: 2.5 m
Total Plot Length: 10 m
Treatments: 5
Trial Cost:

Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: CONTIL conventional-till
Study Design: RACOB Randomized Complete Block (RCB)
Exposure:

Untreated Arrangement: INCLUDED single control randomized in each block
Block Arrangement:
Distance between Blocks, Unit:

Trial Initiation Comments:
Minimal rain in the 2 weeks prior to seeding. Cold temperatures the day of seeding (30 F)

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

No.	Previous Crop	Previous Pesticides	Year
1.	BRSNW		2013
2.	TRZAW		2012

From Settings



Site description – Application tab

Application description of applied treatments

Site Description									
General Trial	Objectives/Conclusions	Contacts	Crop Description	Pest Description	Site and Design	Maintenance	Soil	Moisture	Application
Application Description									
Insert Application with Shift+F7, Delete current Application with Shift+F8									
Appl. Code in Treatments links with Application Codes (A,B, ...) below									
	A		B						
Application Date:	04/28/2014		05/17/2014						
Appl. Start Time:	10:45 am		3:00 pm						
Application Method:	SPRAY		SPRAY						
Application Timing:	PREPLA		POSPOS						
Application Placement:	BROSOI		SURFAC						
Applied By:	EMJ		Jenkins, B.						
Air Temperature, Unit:	8	C	22	C					
% Relative Humidity:	60		48						
Wind Velocity, Unit:	1	KPH	7	KPH					
Wind Direction:	SW		W						
Dew Presence (Y/N):	N	no	N	no					
Soil Temperature, Unit:	7	C	17	C					
Soil Moisture:	ADEQUATE		ADEQUATE						
% Cloud Cover:	80		20						

Trial – Assessment data



Assessment Data - Line 33												
Column Number	1		2		3		4		5		6	
Pest Type	☐		☐		☐		☐		W ☐ Weed		W ☐ Weed	
Pest Code			☐		☐		☐		ALOMY		☐ BROST	
Pest Scientific Name			☐		☐		☐		Alopecurus myo		☐ Bromus sterilis	
Pest Name			☐		☐		☐		Blackgrass		☐ Poverty brome	
Crop Code	BRSNW		☐ BRSNW		☐ BRSNW		☐ BRSNW		☐ BRSNW		☐ BRSNW	
BBCH Scale	BRAP		☐ BRAP		☐ BRAP		☐ BRAP		☐ BRAP		☐ BRAP	
Crop Scientific Name	Brassica napus		☐ Brassica napus		☐ Brassica napus		☐ Brassica napus		☐ Brassica napus		☐ Brassica napus	
Crop Name	Winter rape		☐ Winter rape		☐ Winter rape		☐ Winter rape		☐ Winter rape		☐ Winter rape	
Part Rated	PLANT ☐ C		☐ PLANT ☐ C		☐ PLANT ☐ C		☐ PLANT ☐ C		PLAGRA ☐ P		☐ PLAGRA ☐ P	
Rating Date	Apr-18-2014		☐ Apr-24-2014		☐ May-10-2014		☐ Jul-8-2014		☐ Apr-11-2014		☐ Apr-11-2014	
Rating Type	PHYGEN		☐ PHYGEN		☐ PHYGEN		☐ PHYGEN		GROUND		☐ GROUND	
Rating Unit	%		☐ %		☐ %		☐ %		☐ %		☐ %	
Number of Subsamples	1		☐ 1		☐ 1		☐ 1		☐ 1		☐ 1	
Crop Stage Scale	BBCH		☐ BBCH		☐ BBCH		☐ BBCH		☐ BBCH		☐ BBCH	
Pest Stage Majority			☐		☐		☐		28/29		☐ 25/26	
Pest Density, Unit			☐		☐		☐		7.25 PERCENT		☐ 11.5 PERCENT	
Assessed By	techn 1		☐ techn 1		☐ techn 1		☐ techn 1		☐ techn 1		☐ techn 1	
Days After First/Last Applic.	7 7		☐ 13 13		☐ 29 1		☐ 88 60		☐ 0 0		☐ 0 0	
Tit-Eval Interval	7 DA-A		☐ 13 DA-A		☐ 29 DA-A		☐ 95 DA-A		☐ 0 DA-A		☐ 0 DA-A	
Plant-Eval Interval	229 DP-1		☐ 235 DP-1		☐ 251 DP-1		☐ 310 DP-1		☐ 222 DP-1		☐ 222 DP-1	
ARM Action Codes	P		☐ P		☐ P		☐ P		P ES		☐ P ES	
Number of Decimals	2		☐ 2		☐ 2		☐ 2		☐ 2		☐ 2	

+	Sub	Rep	Blk	Col	Plot	Tit	1	2	3	4	5	6
1	1	1	1	1	101	4	0.00	0.00	0.00	0.00		
1	1	1	2	1	102	2	0.00	0.00	0.00	0.00		
1	1	1	3	1	103	5	0.00	0.00	0.00	0.00		
1	1	1	4	1	104	3	0.00	0.00	0.00	0.00		
1	1	1	5	1	105	1	0.00	0.00	0.00	0.00	6.00	8.00
1	2	2	1	2	201	5	0.00	0.00	0.00	0.00		
1	2	2	2	2	202	4	0.00	0.00	0.00	0.00		
1	2	2	3	2	203	3	0.00	0.00	0.00	0.00		
1	2	2	4	2	204	1	0.00	0.00	0.00	0.00	8.00	12.00
1	2	2	5	2	205	2	0.00	0.00	0.00	0.00		
1	3	3	1	3	301	3	0.00	0.00	0.00	0.00		
1	3	3	2	3	302	2	0.00	0.00	0.00	0.00		

Description of all measurements for every plot experimental unit

Trial – Assessment data – Headers from Protocol

Assessment Data - Line 1						
Column Number	1	2	3	4	5	6
Pest Type	☐	☐	☐	☐	W ☐ Weed	W ☐ Weed
Pest Code					GGGAN	GGGAN
Pest Scientific Name					Annual grasses	Annual grasses
Pest Name					Annual grasses	Annual grasses
Crop Code	BRSNN	BRSNN	BRSNN	BRSNN	BRSNN	BRSNN
BBCH Scale	BRAP	BRAP	BRAP	BRAP	BRAP	BRAP
Crop Scientific Name	Brassica napus	Brassica napus	Brassica napus	Brassica napus	Brassica napus	Brassica napus
Crop Name	Rapeseed	Rapeseed	Rapeseed	Rapeseed	Rapeseed	Rapeseed
Part Rated	PLANT ☐ C	PLANT ☐ C	PLANT ☐ C	PLANT ☐ C	PLAGRA ☐ P	PLAGRA ☐ P
Rating Date						
Rating Type	PHYGEN	PHYGEN	PHYGEN	PHYGEN	GROUND	GROUND
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Crop Stage Scale	BBCH	BBCH	BBCH	BBCH	BBCH	BBCH
Pest Stage Majority						
Pest Density, Unit					PERCEN	PERCEN
Assessed By						
Days After First/Last Applic.						
Tri-Eval Interval	3	7	14	21	0	3
Plant-Eval Interval						
ARM Action Codes	P	P	P	P	P ES	P ES
Number of Decimals	2	2	2	2	2	2

- If Protocol contains Assessment data headers, these are automatically included
- Add new columns

Trial – Assessment data – Data



ARM 10.2015.0 (GDMdef) - G-AI17_Herb Trial

File Edit Format Tools Table Utilities Window Graph Add-Ins Help

Assessment Data - Line 1

Column Number 1 2 3 4 5 6 7

Pest Type W Weed W Weed W Weed W

Pest Code ALOMY BROST TR2AX ALOMY

Pest Scientific Name Alopecurus myosuroides Bromus sterilis Triticum aestivum Alopecurus myosuroides

Pest Name Blackgrass Poverty bromus Soft wheat Blackgrass

Crop Code RSNW BRSNW BRSNW BRSNW BRSNW

BBCH Scale RAP BRAP BRAP BRAP BRAP

Crop Scientific Name Brassica napus Brassica napus Brassica napus Brassica napus Brassica napus

Crop Name Winter rape Winter rape Winter rape Winter rape Winter rape

Part Rated LANT C PLAGRA P PLAGRA P PLAGRA P PLAGRA

Rating Date 4-8-2014 Apr-11-2014 Apr-11-2014 Apr-11-2014 Apr-24-2014

Rating Type HYGEN GROUND GROUND GROUND GROUND

Rating Unit % % % % %

Number of Subsamples 1 1 1 1 1

Crop Stage Scale BBCH BBCH BBCH BBCH BBCH

Pest Stage Majority 20/29 25/26 20/29 38

Pest Density, Unit 7.25 PERCENT 11.5 PERCENT 20 PERCENT 10.5

Assessed By techn 1 techn 1 techn 1 techn 1

Days After First/Last Applic. 0 0 0 0 0

Sub Rep Blk Col Plot Tot

1 1 1 1 101 4

1 1 1 2 102 2

1 1 1 3 103 5

1 1 1 4 104 3

1 1 1 5 105 1

1 2 2 1 201 5

1 2 2 2 202 4

1 2 2 3 203 3

1 2 2 4 204 1

1 2 2 5 205 2

1 3 3 1 301 3

1 3 3 2 302 2

1 3 3 3 303 1

1 3 3 4 304 5

1 3 3 5 305 4

1 4 4 1 401 5

1 4 4 2 402 4

1 4 4 3 403 3

1 4 4 4 404 1

1 4 4 5 405 2

Undo Cut Copy Copy Current Data Column Paste Paste Special... Insert Data Column... Delete Data Column... Insert Subsamples... Delete Subsamples... Insert DCF from Data Col Insert DCF from File Insert SE from File Export SE... Hide Current Field Display All Fields Display Hidden Fields with Information Assessment Data View Options... Sort by (Ascending)... Sort by (Descending)... Transform... Recalc Transformations Convert Yield... Assessment Data Column Tools... Push Trial Rating Shell to Excel Pull Data from Excel Rating Shell Show Validation List... Show Tooltip Remove Split

Replicate Block Column 'Plot' Experimental Unit Treatment Alt Plot ID Barcode/RFID Latitude Longitude Assessment Order Harvest Order

Trial Map

Color by

☐ Replicate

☒ Treatment

☐ Current Treatment

☐ Auto select for move

☒ Treatment

☐ Plot Experimental Unit

☐ Replicate

Options Movement Arrows Treatment Description Comment Quality

☐ No arrows

☒ Assessment order

Serpentine within blocks

☐ Harvest order

Serpentine across blocks

Settings

Re Randomize

Go Number Plot

Print

Accept Current

Cancel

Help

- Data can be sorted ascending or descending by Replicate, Block, Column, Plot, Treatment, etc.
- Assessment and Harvest order are defined in the plot map

Trial – Assessment data – Attach pictures



ARM 9.2014.4 (GDMdef) - G-All7_Fung Trial

File Edit Format Tools Table Utilities Window Graph Add-Ins Help

Assessment Data - Line 1

Column Number	1	2	3	4 (Calculated)	5	6 (Calculated)	7	8 (Calculated)
Pest Type			D	Disease	D	Disease	D	Disease
Pest Code			SEPTTR	SEPTTR	SEPTTR	SEPTTR	SEPTTR	SEPTTR
Pest Scientific Name			Mycosphaerella	Mycosphaerella	Mycosphaerella	Mycosphaerella	Mycosphaerella	Mycosphaerella
Pest Name								
Crop Code	TRZAW	TR						
BBCH Scale	BCER	BC						
Crop Scientific Name	Triticum aestivum	Tr						
Crop Name	Winter wheat	W						
Crop Variety								
Plot Rated	LEAF	C	P					
Rating Date	071514	07						
Rating Type	PHYGEN	VM						
Rating Unit	%							
Sample Size, Unit								

Open - Select image to attach

Image Import Preview

Decision

☒ By column across 'Plot' experimental unit.

☐ Across columns within 'Plot' experimental unit.

Columns: 1

Sort order

☐ 'Plot' experimental unit

☒ Assessment

☐ Treatment

☐ Harvest

Number of images per 'Plot' experimental unit within an assessment column: 1

Sub Req Col Plot Trn 2

Sub	Req	Col	Plot	Trn	2
1	2	4	204	1	
1	2	3	203	2	

Drag an image to a new cell to change the 'Plot' and data column linkage.

OK Cancel Help

Preview allows user to determine direction, sort order and name

Use Attach to attach images to plots

Alternatively, drag/drop picture directly to plot/column

Trial – Assessment data – Attach pictures continued

+	Sub	Rep	Blk	Col	Plot	Trt	1	2	3	4	5	6 (Calculated)
1	1	1	2	102	1		0.0	165.0	0.0	135.0	93.0	0.0
1	2	2	4	204	1		0.0	205.0	0.0	139.0	118.0	0.0
1	3	3	1	301	1		0.0	209.0	0.0	148.0	107.0	0.0
1	4	4	2	402	1		0.0	161.0	0.0	153.0	151.0	0.0
1	1	1	1	101	2		0.0	100.0	0.0	15.0	13.0	34.5
1	2	2	3	203	2		0.0	103.0	0.0	15.0	8.0	49.8
1	3	3	4	304	2		0.0	101.0	0.0	34.0	13.0	51.7
1	4	4	5	405	2		0.0	142.0	0.0	26.0	18.0	11.8
1	1	1	3	103	3		0.0	70.0	0.0	0.0	0.0	57.6
1	2	2	5	205	3		0.0	51.0	0.0	0.0	0.0	
1	3	3	2	302	3		0.0	45.0	0.0	1.0		
1	4	4	1	401	3		0.0	40.0	0.0	2.0		
1	1	1	4	104	4		0.0	55.0	0.0	1.0		
1	2	2	2	202	4		0.0	64.0	0.0	3.0		
1	3	3	3	303	4		0.0	50.0	0.0	0.0		
1	4	4	4	404	4		0.0	54.0	0.0	0.0		
1	1	1	5	105	5		0.0	12.0	0.0	0.0		
1	2	2	1	201	5		0.0	14.0	0.0	1.0		

Red triangle in the corner indicates a picture has been attached

Click in plot data to view picture

Mark plots as damaged to remove assessment from statistical analysis. Red line drawn through assessment as well.

Attach additional files, or Remove or Rename

Assessment (Plot 104, Col 2)

Comment: Plot was mis-planted

Barcode:

GPS:

☒ Damaged

Image: 

Attach

Remove

Rename

☐ Display by treatment

Subsamples

- Subsamples
 - Collect more than one data point by plot
 - Organize subsamples to make data entry and use easier.

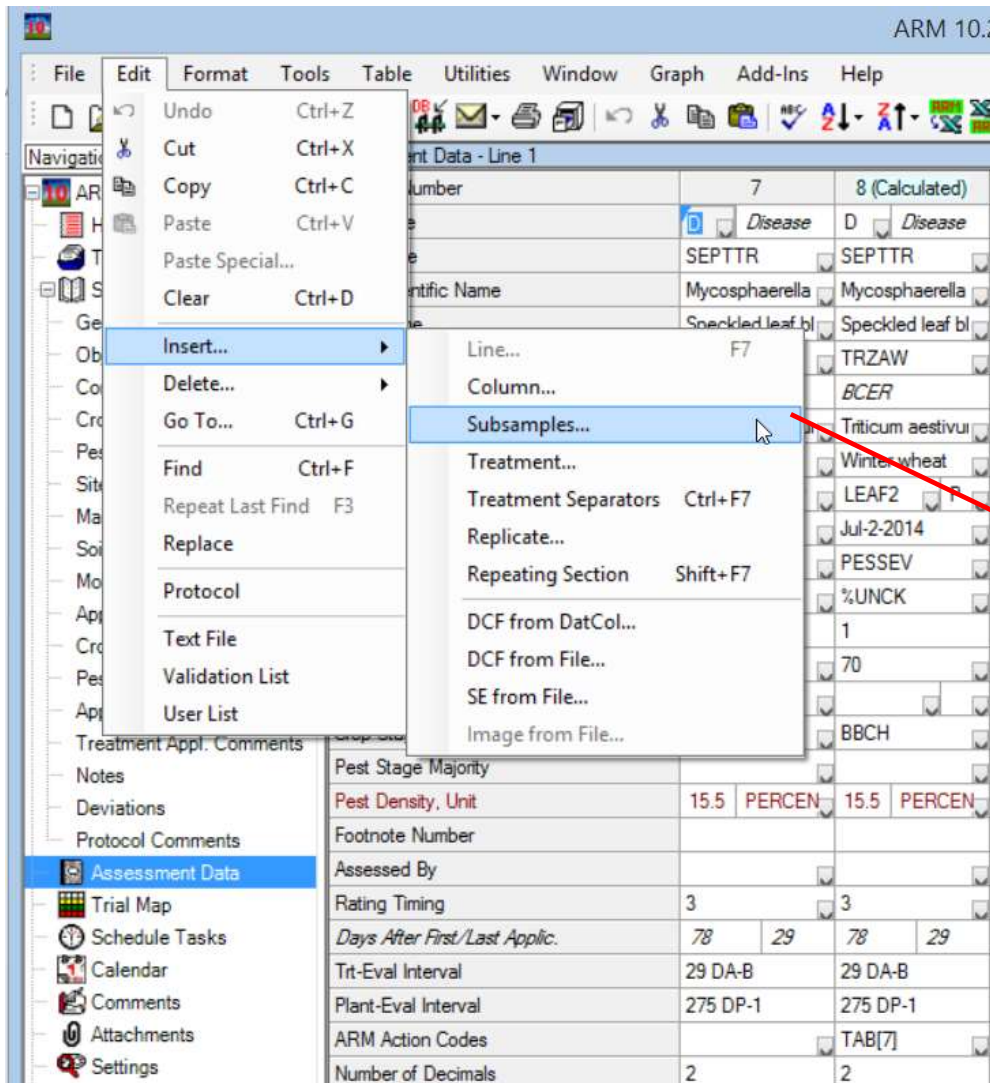
Assessment Data - Line 1									
Column Number	7		8 (Calculated)		9				
Pest Type	Disease		Disease		Disease				
Pest Code	SEPTTR		SEPTTR		ZZYYFY				
Pest Scientific Name	Mycosphaerella		Mycosphaerella		Complex, diff. fu				
Pest Name	Speckled leaf bl		Speckled leaf bl		Complex, dif. fur				
Crop Code	TRZAW		TRZAW		TRZAW				
BBCH Scale	BCER		BCER		BCER				
Crop Scientific Name	Triticum aestivu		Triticum aestivu		Triticum aestivu				
Crop Name	Winter wheat		Winter wheat		Winter wheat				
Part Rated	LEAF2 P		LEAF2 P		LEAGRE P				
Rating Date	Jul-2-2014		Jul-2-2014		Jul-15-2014				
Rating Type	PESSEV		PESSEV		AREA				
Rating Unit	%		%UNCK		%AREA				
Number of Subsamples	10		1		5				
Crop Stage Majority	70		70		84				
Crop Stage Minimum/Maximum									
Crop Stage Scale	BBCH		BBCH		BBCH				
Pest Stage Majority									
Pest Density, Unit	15.5 PERCEN		15.5 PERCEN		1.75 PERCEN				
Footnote Number					2				
Assessed By									
Rating Timing	3		3		4				
Days After First/Last Applic.	78 29		78 29		91 7				
Tri-Eval Interval	29 DA-B		29 DA-B		11 DA-C				
Plant-Eval Interval	275 DP-1		275 DP-1		288 DP-1				
ARM Action Codes			TAB[7]						
Number of Decimals	2		2		2				

+	Sub	Rep	Blk	Col	Plot	Tri	7	8 (Calculated)	9
	1	1	1	2	102	1	9.90	0.00	10.00
	2	1	1	2	102	1	10.00		5.00
	3	1	1	2	102	1	11.00		0.00
	4	1	1	2	102	1	8.00		0.00
	5	1	1	2	102	1	8.90		0.00
	6	1	1	2	102	1	11.00		
	7	1	1	2	102	1	11.50		
	8	1	1	2	102	1	12.00		
	9	1	1	2	102	1	10.20		
	10	1	1	2	102	1	9.80		
	1	2	2	5	205	1	16.00	0.00	0.00
	2	2	2	5	205	1	11.00		0.00

10 subsamples in this trial

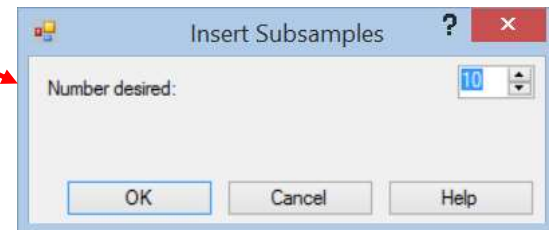
- 10 in column 7
- 5 in column 9
- 1 in column 8

Subsamples



The screenshot shows the ARM 10.2 software interface. The 'Insert' menu is open, and 'Subsamples...' is highlighted. The background shows a data table with various fields like 'Disease', 'Scientific Name', and 'Pest Stage Majority'.

Assessment Data - Line 1			
Number	7	8 (Calculated)	
Disease	SEPTTR	Disease	
Scientific Name	Mycosphaerella	Mycosphaerella	
	Speckled leaf bl	Speckled leaf bl	
	TRZAW	TRZAW	
	BCER	BCER	
	Triticum aestivu	Triticum aestivu	
	Winter wheat	Winter wheat	
	LEAF2	LEAF2	
	Jul-2-2014	Jul-2-2014	
	PESSEV	PESSEV	
	%UNCK	%UNCK	
	1	1	
	70	70	
	BBCH	BBCH	
Pest Stage Majority			
Pest Density, Unit	15.5 PERCEN	15.5 PERCEN	
Footnote Number			
Assessed By			
Rating Timing	3	3	
Days After First/Last Applic.	78 29	78 29	
Trt-Eval Interval	29 DA-B	29 DA-B	
Plant-Eval Interval	275 DP-1	275 DP-1	
ARM Action Codes		TAB[7]	
Number of Decimals	2	2	



The 'Insert Subsamples' dialog box is shown. It has a title bar with a question mark and a close button. The main area contains the text 'Number desired:' followed by a text input field containing the number '10'. At the bottom, there are three buttons: 'OK', 'Cancel', and 'Help'.

Transform data

ARM 10.2015.0 (GOMder) v1

File Edit Format Tools Table Utilities Window Graph Add-Ins Help

Assessment Data: List 38

Column Number	Create Trial	1	2	3	4	5	6 (Calculated)
Crop Scientific Name	Citrus sinensis	Citrus sinensis	Citrus sinensis	Citrus sinensis	Citrus sinensis	Citrus sinensis	Citrus sinensis
Crop Name	Sweet orange	Sweet orange	Sweet orange	Sweet orange	Sweet orange	Sweet orange	Sweet orange
Crop Variety	Valencia	Valencia	Valencia	Valencia	Valencia	Valencia	Valencia
Part Rated	FRUIT	FRUIT	FRUIT	FRUIT	FRUIT	FRUIT	FRUIT
Rating Date	May-17-2014	May-17-2014	Jun-5-2014	Jun-5-2014	Jun-12-2014	May-17-2014	
Rating Type	PHYGEN	COLINS	PHYGEN	COLINS	COLINS	COLINS	COLINS
Rating Unit	%	NUMBER	%	NUMBER	NUMBER	NUMBER	NUMBER
Sample Size, Unit		50	FRU	50	FRU	50	FRU
Number of Subsamples	1	1	1	1	1	1	1
Crop Stage Majority	71	71	76	76	77	71	
Crop Stage Scale	BBCH	BBCH	BBCH	BBCH	BBCH	BBCH	
Plant Density, Unit		3.7	FRUIT	3.88	FRUIT	3.75	FRUIT
Assessed By	Pancho D.	Pancho D.	Pancho D.	Pancho D.	Pancho D.	Pancho D.	
SE Group Ab	7	2	3	4	8		
Days After First Last Applic	3	3	20	20	29	11	3
Tst Eval Interval	3 DAA	3 DAA	3 DAA	3 DAA	10 DAA	3 DAA	
Plant Eval Interval							
ARM Action Codes							
Number of Decimals	1	1	1	1	1	1	

+	Sub	Rep	BN	Col	Plot	Tst	1	2	3	4	5	6 (Calculated)
1	1	1	1	101	2	0.0	108.0	0.0	15.0	13.0		34.5
1	1	1	2	102	1	0.0	165.0	0.0	135.0	93.0		0.0
1	1	1	3	103	3	0.0	70.0	0.0	9.0	0.0		57.6
1	1	1	4	104	4	0.0	55.0	0.0	1.0	0.0		66.7
1	1	1	5	105	5	0.0	12.0	0.0	0.0	0.0		92.7
1	2	2	1	201	5	0.0	14.0	0.0	1.0	0.0		93.2
1	2	2	2	202	4	0.0	64.0	0.0	3.0	0.0		68.8
1	2	2	3	203	2	0.0	103.0	0.0	15.0	0.0		49.8
1	2	2	4	204	1	0.0	265.0	0.0	139.0	118.0		0.0
1	2	2	5	205	3	0.0	51.0	0.0	0.0	0.0		75.1
1	3	3	1	301	1	0.0	269.0	0.0	148.0	107.0		0.0
1	3	3	2	302	3	0.0	45.0	0.0	1.0	0.0		79.8
1	3	3	3	303	4	0.0	50.0	0.0	0.0	0.0		76.1
1	3	3	4	304	2	0.0	101.0	0.0	34.0	13.0		51.7
1	3	3	5	305	5	0.0	21.0	0.0	0.0	0.0		90.0
1	4	4	1	401	3	0.0	40.0	0.0	2.0	0.0		75.2
1	4	4	2	402	1	0.0	161.0	0.0	153.0	151.0		0.0
1	4	4	3	403	5	0.0	14.0	0.0	0.0	2.0		91.3

Data Transformations

Transformations

☐ Square root $\text{SQR}(X+.5)$ ☐ Arcsine square root percent

☐ Log $\text{LOG}(X+1)$

☐ Average subsamples ☐ % Incidence (0 = none)

☐ Sum subsamples ☐ % Incidence (1 = none)

☒ Abbott (% of Untreated) ☐ Schneider-Orelli

☐ Henderson-Tilton

☐ AUDPC (or AUAPC)

☐ Standardized AUDPC (SAUDPC=average AUDPC per day)

☐ User formula

Formula

Options

☐ Limit calculated values to positive

☐ Calculate one value per 'Plot' experimental unit if subsamples are present

Convert data column number: 2

Store in data column number: 6

Number of decimals accuracy: 1

OK Cancel Help

- Menu **Tools|Transform**
- Standard transformations available
- User-defined formula, eventually stored in a list (F9)
- Relative or Absolute column number



Convert Yield

Menu | Tools | Convert Yield

Assessment Data - Line 1									
Column Number	10		11		12 (Calculated)		13 (Calculated)		
Pest Type									
Pest Code									
Pest Scientific Name									
Pest Name									
Crop Code	TRZAW		TRZAW		TRZAW		TRZAW		
BBCH Scale	BCER		BCER		BCER		BCER		
Crop Scientific Name	Triticum aestivum		Triticum aestivum		Triticum aestivum		Triticum aestivum		
Crop Name	Winter wheat		Winter wheat		Winter wheat		Winter wheat		
Part Rated	GRAIN ☐ C		GRAIN ☐ C		GRAIN ☐ C		GRAIN ☐ C		
Rating Date	Aug-7-2014		Aug-7-2014		Aug-7-2014		Aug-7-2014		
Rating Type	YIELD		MOICOM		YIELD		YIELD		
Rating Unit	KG		%		T-MET		%UNCK		
Number of Subsamples	1		1		1		1		
Crop Stage Majority	99		99		99		99		
Pest Density, Unit									
Days After First/Last Applic.	114 30		114 30		114 30		114 30		
Tri-Eval Interval	30 DAC		30 DAC		30 DAC		30 DAC		
Plant-Eval Interval	311 DP-1		311 DP-1		311 DP-1		311 DP-1		
ARM Action Codes					TY1		@UPOCR		
Number of Decimals	2		1		2		2		

	+	Sub	Rep	Blk	Col	Plot #	Tri	10	11	12 (Calculated)	13 (Calculated)
		1	1	1	1	101	3	8.70	13.0	8.99	104.37
		1	1	1	2	102	1	8.25	12.1	8.62	100.00
		1	1	1	3	103	4	8.50	11.7	8.92	103.50
		1	1	1	4	104	2	8.95	11.2	9.44	109.60
		1	1	1	5	105	5	9.10	15.0	9.19	106.66
		1	2	2	1	201	2	8.15	11.6	8.56	108.07
		1	2	2	2	202	3	8.10	12.3	8.44	106.56
		1	2	2	3	203	5	8.55	11.1	9.03	114.01
		1	2	2	4	204	4	8.40	13.3	8.65	109.24
		1	2	2	5	205	1	7.55	11.7	7.92	100.00
		1	3	3	1	301	3	8.10	12.2	8.45	109.83
		1	3	3	2	302	2	7.95	11.3	8.38	108.90
		1	3	3	3	303	1	7.30	11.3	7.69	100.00
		1	3	3	4	304	5	7.60	11.6	7.98	103.76
		1	3	3	5	305	4	8.20	11.8	8.59	111.70

Yield Conversion

Yield units

Current:

Desired:

For Bu/Ac only:

Test weight (pounds/bushel):

Crop:

Moisture adjustment

☒ Adjust to dry moisture percent =

Average moisture percent at harvest

☐ Use whole trial average percent =

☒ Use percent in data column number

Harvested plot size (m2)

Width:

☐ Use width in data column number

Length:

☐ Use length in data column number

Unit:

Yield conversion factor

Convert data column number:

Store in data column number:

Number of decimals accuracy:

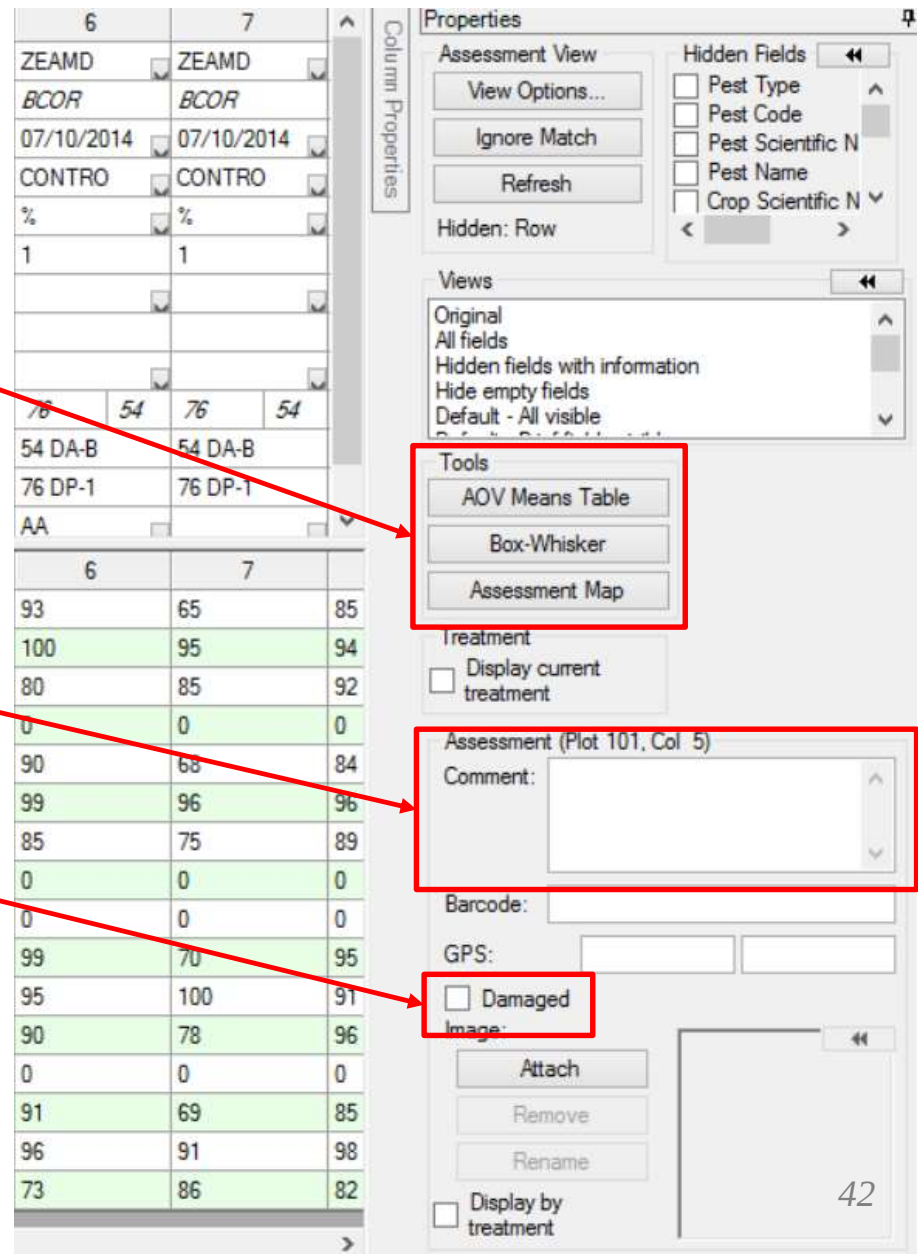
OK

Cancel

Help

Quality Control your data

- Quality Control data from Assessment screen
 - AOV Means Table
 - Box-Whisker
 - Assessment map
- Comment on individual plots
- Mark a plot as damaged



Column Properties

6	7
ZEAMD	ZEAMD
BCOR	BCOR
07/10/2014	07/10/2014
CONTRO	CONTRO
%	%
1	1
76	54
54 DA-B	54 DA-B
76 DP-1	76 DP-1
AA	

6	7	
93	65	85
100	95	94
80	85	92
0	0	0
90	68	84
99	96	96
85	75	89
0	0	0
0	0	0
99	70	95
95	100	91
90	78	96
0	0	0
91	69	85
96	91	98
73	86	82

Properties

Assessment View

View Options...

Ignore Match

Refresh

Hidden: Row

Hidden Fields

☐ Pest Type

☐ Pest Code

☐ Pest Scientific N

☐ Pest Name

☐ Crop Scientific N

Views

Original

All fields

Hidden fields with information

Hide empty fields

Default - All visible

Tools

AOV Means Table

Box-Whisker

Assessment Map

Treatment

☐ Display current treatment

Assessment (Plot 101, Col 5)

Comment:

Barcode:

GPS:

☐ Damaged

Image:

Attach

Remove

Rename

☐ Display by treatment

42

Graph

+ Menu *Graph*

New graph

View graph

Specify treatment numbers to graph

OK Cancel Help

Which assessment column number(s) should display on the graph?

3-4

OK Cancel Help

Graph Options

General Fonts Labels Legends Titles Axis Colors Error Bar

Graph type

☒ Bar

☐ Line

☐ Box-Whisker

☐ Other

Graph style

☒ Color

☐ 3D

Orientation

☒ Vertical

☐ Horizontal

Group

☒ By treatments

☐ By data columns

Grouping style

☒ Simple

☐ Stacked

☐ Stacked %

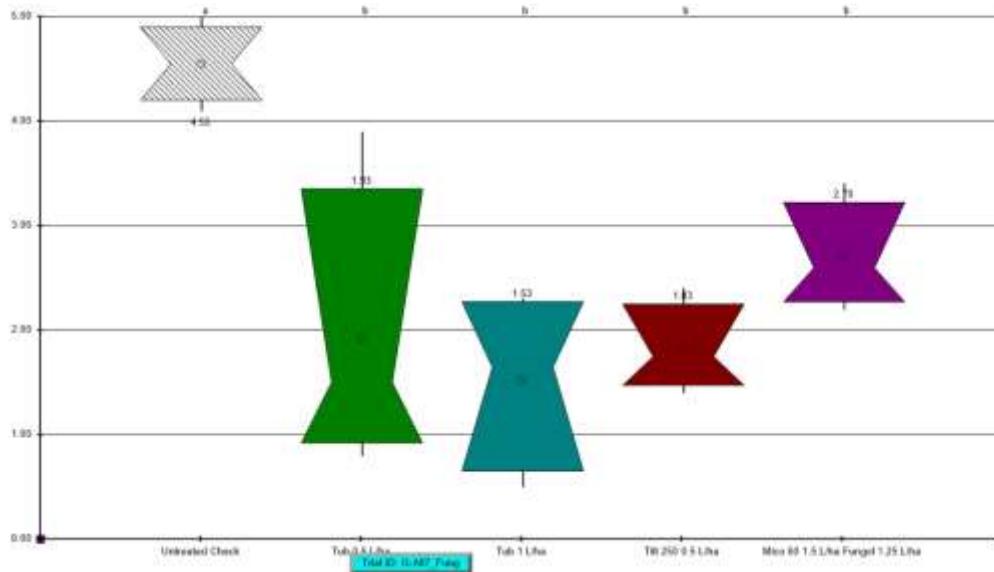
☐ Z-Clustered

Bar gap 46

Reselect Data.... Load Default... Save Default...

OK Cancel Apply Now Help

An assessment of the efficacy of TLR and other fungicides for the control of Septoria Diseases in winter wheat



Graph- Box-Whisker

Box-whisker: indication of

- the treatment mean
- the assessment variability

It requires 3 or more replicates.

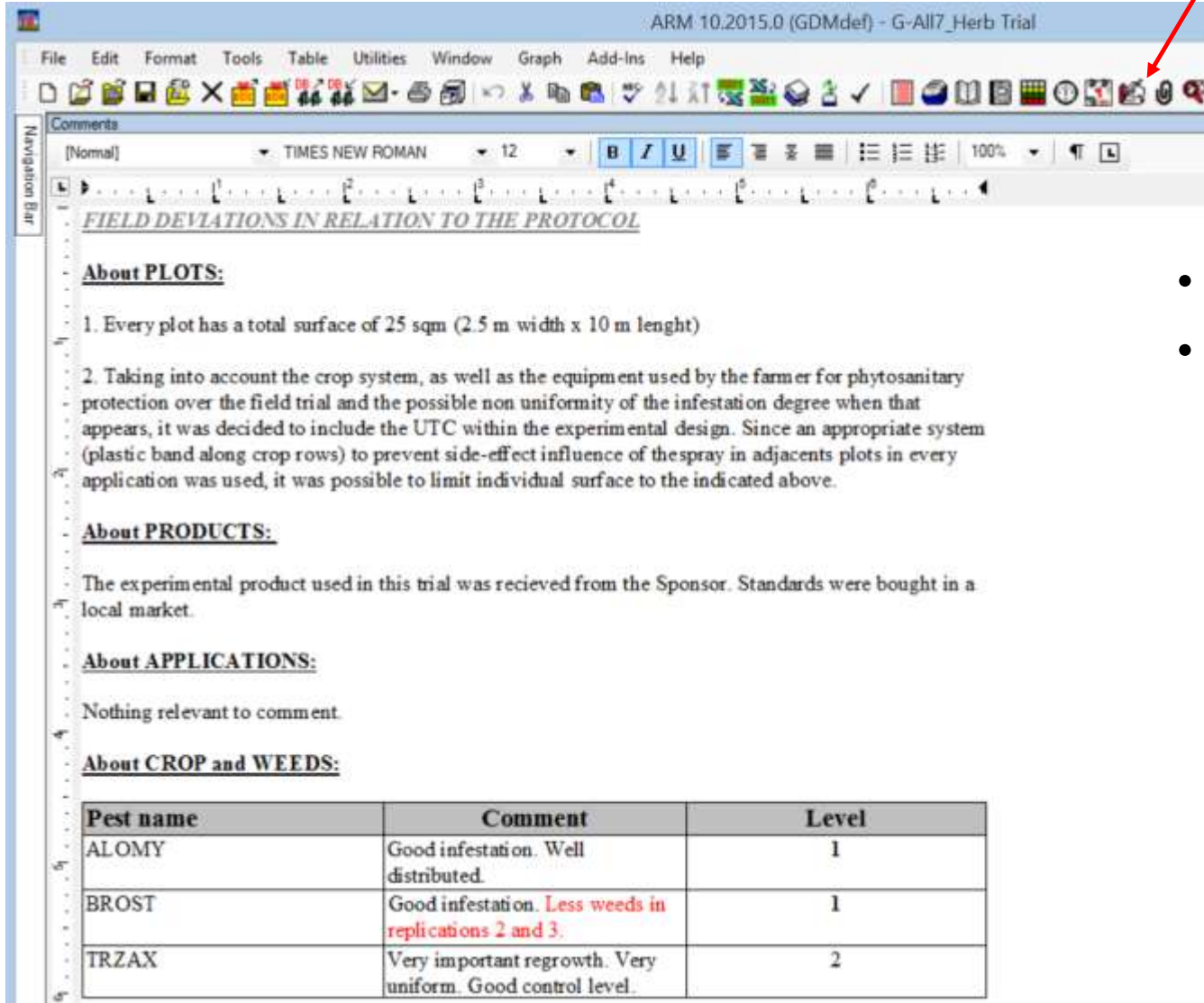
Options:

- Check for outliers
- Review all data by columns
- Export to clipboard and then paste into PowerPoint® to transfer graphs.



Trial – Comments

Comments



ARM 10.2015.0 (GDMdef) - G-All7_Herb Trial

File Edit Format Tools Table Utilities Window Graph Add-Ins Help

Comments

[Normal] TIMES NEW ROMAN 12 B I U

FIELD DEVIATIONS IN RELATION TO THE PROTOCOL

About PLOTS:

1. Every plot has a total surface of 25 sqm (2.5 m width x 10 m lenght)
2. Taking into account the crop system, as well as the equipment used by the farmer for phytosanitary protection over the field trial and the possible non uniformity of the infestation degree when that appears, it was decided to include the UTC within the experimental design. Since an appropriate system (plastic band along crop rows) to prevent side-effect influence of the spray in adjacents plots in every application was used, it was possible to limit individual surface to the indicated above.

About PRODUCTS:

The experimental product used in this trial was recieved from the Sponsor. Standards were bought in a local market.

About APPLICATIONS:

Nothing relevant to comment.

About CROP and WEEDS:

Pest name	Comment	Level
ALOMY	Good infestation. Well distributed.	1
BROST	Good infestation. Less weeds in replications 2 and 3.	1
TRZAX	Very important regrowth. Very uniform. Good control level.	2

- Rich Text Format
- Tables or enhanced font options

Trial – Schedule



Schedule tasks

List of tasks, planned and actual task timing, and task assignments

File Edit Format Tools Table Utilities Window Graph Add-Ins Help

Navigation Bar

Schedule Tasks

Type

☐ Treatment application - for Appl Code:

☐ Assessment - for Rating Timing:

☐ Other

Description:

Assigned to:

Duration Length: Hours per day

☐ Multiple days

Duration: Days

Timing

☐ Date:

☐ Interval: Hours

Application Date

☐ Completed

Timing deviation allowed: - +

Previous

Next

New

Delete

	Completed	Type	Description	Timing	-	Planned	+	Completed	Assigned to	Length (h)	Duration (d)	Outlook Profile
1	☒	Treatn	Application B	Apr-15-2008	3	Apr-15-2008	3	Apr-15-2014		1		
2	☒	Asses	Assessment 1 - 1 MAT A	1 Months After A	5	May-15-2014	5	May-13-2014	Study leader	1		
3	☒	Treatn	Application B	Jun-1-2008	3	Jun-1-2008	3	Jun-3-2014	Technician 1	3		
4	☒	Asses	Assessment 2 - 2 WAT B	2 Weeks After B	7	Jun-17-2014	7	Jun-18-2014	Technician 1	1		
5	☒	Treatn	Application C	Jul-3-2008	4	Jul-3-2008	7	Jul-8-2014	Technician 1	3		
6	☒	Asses	Assessment 3 - 2 WAT C + vigor	2 Weeks After C	3	Jul-22-2014	3	Jul-2-2014	Technician 1	2		
7	☒	Asses	Harvest	Jul-14-2008	3	Jul-14-2008	15	Jul-15-2014	Harvest repor	4		
8	☐	Other	Draft report to Sponsor	Aug-31-2008		Aug-31-2008			Data Manage	1	1	
-	☐											

Trial – Schedule



Schedule Tasks

Type

☐ Treatment application - for Appl Code:

☐ Assessment - for Rating Timing:

☐ Other

Description:

Assigned to:

Duration Length: Hours per day

☐ Multiple days

Duration: Days

Timing

☐ Date:

☐ Interval: Hours

Application Date

Completed ☐

Timing deviation allowed: - +

Buttons: Previous, Next, New, Delete

	Completed	Type	Description	Timing	-	Planned	+	Completed	Assigned to
1	☒	Treatn	Application B	Apr-15-2008	3	Apr-15-2008	3	Apr-15-2014	
2	☒	Asses	Assessment 1 - 1 MAT A	1 Months After A	5	May-15-2014	5	May-13-2014	Study leader
3	☒	Treatn	Application B	Jun-1-2008	3	Jun-1-2008	3	Jun-3-2014	Technician 1
4	☒	Asses	Assessment 2 - 2 WAT B	2 Weeks After B	7	Jun-17-2014	7	Jun-18-2014	Technician 1
5	☒	Treatn	Application C	Jul-3-2008	4	Jul-3-2008	7	Jul-8-2014	Technician 1
6	☒	Asses	Assessment 3 - 2 WAT C + vigor	2 Weeks After C	3	Jul-22-2014	3	Jul-2-2014	Technician 1
7	☒	Asses	Harvest	Jul-14-2008	3	Jul-14-2008	15	Jul-15-2014	Harvest responsible
8	☐	Other	Draft report to Sponsor	Aug-31-2008		Aug-31-2008			Data Manager

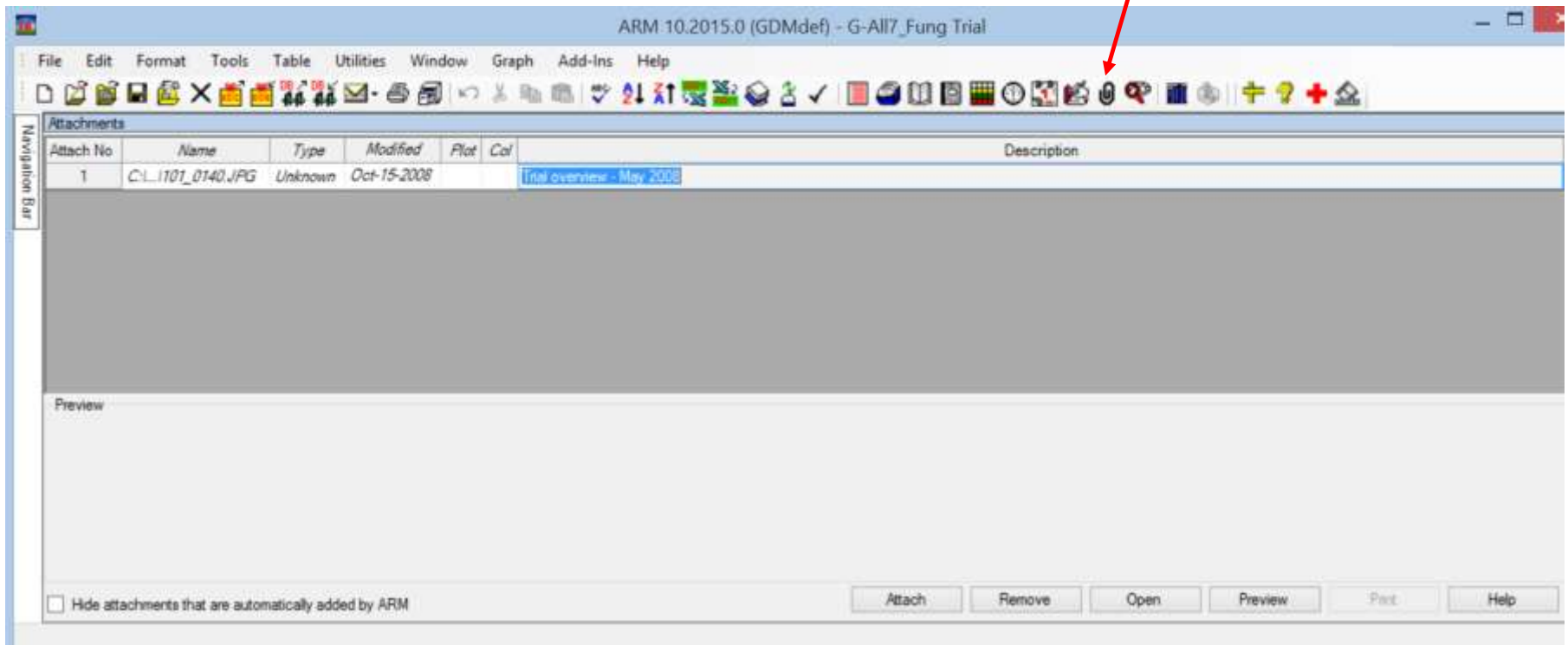
- Schedule
 - Application
 - Assessment based on date or on application
 - Print or export in batch
- Tasks can be set up in Protocol or merged from one trial to another.

Trial – Attachments



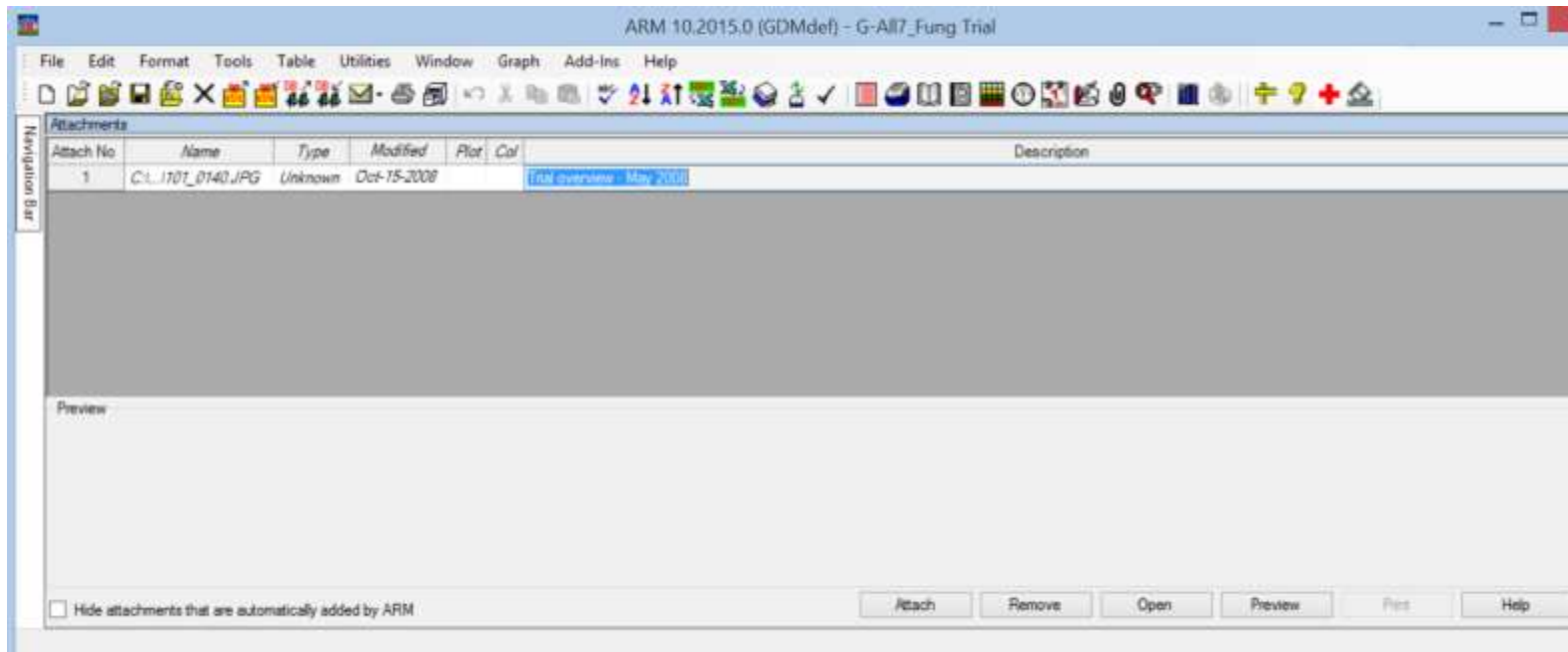
Index of all related documents that are associated with one trial

Attachments





Trial – Attachments



- Only hyperlinks are stored
 - No duplication or risk of errors
- Files can be open from the attachments screen.
- With the menu **File|Send to**, ARM file + selected attachments are automatically added in a new message. Different options available.



Trial - Study Rules Panel

Always displays in trial, optionally show as tab

ARM 2015.0 (GDMdef) - New G-All7_Herb_01 Trial

File Edit Format Tools Table Utilities Window Graph Add-Ins Help

Navigation Bar: ARM, Header, Treatments, Site Description, General Trial, Objectives/Conclusions, Contacts, Crop Description, Pest Description, Site and Design, Maintenance, Soil, Moisture, Application, Crop Stage at Appl., Pest Stage at Appl., Appl. Equipment, Treatment Appl., Notes, Deviations, Protocol Comments, Assessment Data, Trial Map, Schedule Tasks, Calendar, Comments, Attachments, Settings, Field Map Layout, Summary Across Trials

Site Description

General Trial

Trial Status: one-year final Trial Reliability:

Initiation Date: Planned Completion Date:

Completion Date: GEP Accreditation Number:

Trial Location

City: Country: France

State/Prov.:

Postal Code: Climate Zone: EPPO Mediterranean

Upper Left: Upper Right:

Latitude of LL Corner *: Lower Right:

Longitude of LL Corner *: FRAD 48.4117050 - 46.1708297

Altitude of LL Corner, Unit:

Angle y-axis to North *:

Directions:

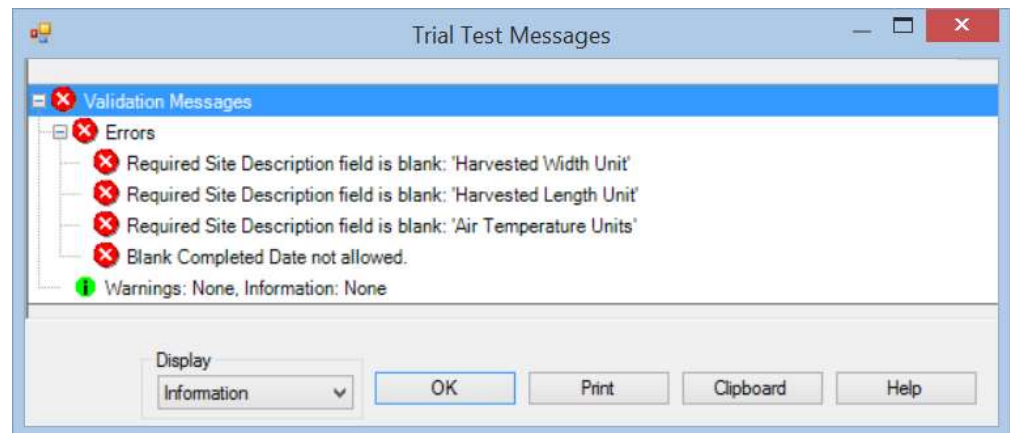
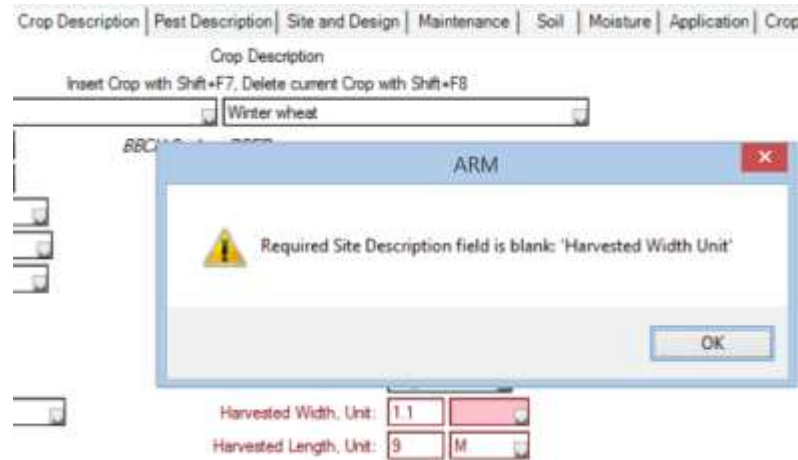
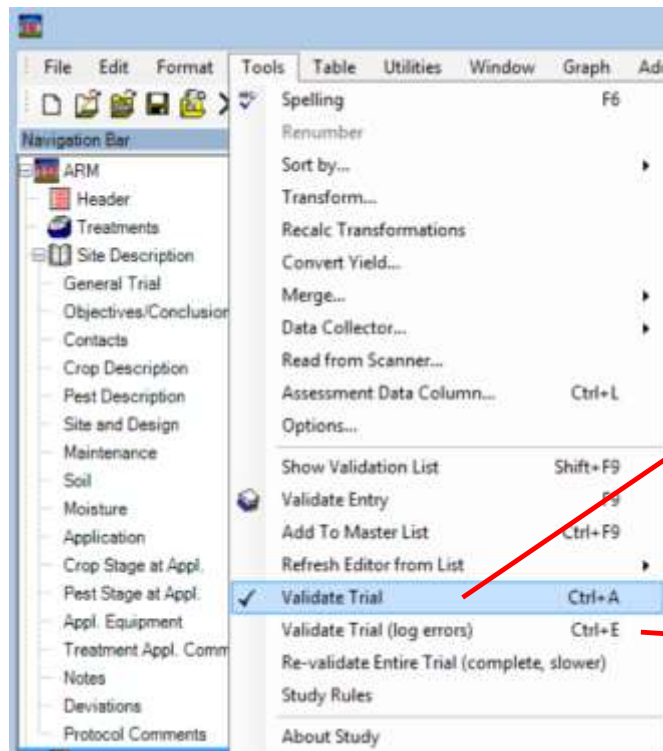
Study Rules

Rule	Rule ID	Editor	Field	Condition	Columns	Permissions	Owner ID
1	Required	Assessment Data	Rating Type	Lock field to prevent edits	1	Everyone in my company	GYSTRE
2	Required	Site Description	General Trial - Latitude of LL Corner *	established		Everyone in my company	GYSTRE
3	Required	Site Description	General Trial - Longitude of LL Corner *	established		Everyone in my company	GYSTRE
4	Required	Site Description	Soil - Soil Texture	established		Everyone in my company	GYSTRE
5							

Load Rule Set... Save Rule Set... Delete Rule ☒ Show all rules Print

Indicates required fields that are still empty

Validation



ARM checks for errors, missing units and inconsistencies
Files must be valid to be exported as .EDE
More validation rules might exist in customized formats



List – Personal list



Your personal dictionary, used to quickly fill a series of linked data entry fields

Table Utilities Window Graph Add-ins Help

Site Description

General Trial | Objectives/Conclusions | Contacts

Study Director: R.E. Search

Investigator: ARM Demonstration

Discipline: F fungicide

Trial Status: F one-year/final

Initiation Date:

Completion Date:

City: GEMBLOUX Country: BEL Belgium

State/Prov.: NAMUR

Postal Code: 5030 Climate Zone:

Latitude of LL Corner °: 50.5667 N

Longitude of LL Corner °: 4.6833 E

Altitude of LL Corner, Unit: 152.00 M

Angle y-axis to North °: 60.00 Map Reference:

City Personal List (C:\ProgramData\ARMdef\GDMdef\G-TrLoc.lst8)

City	Country	Country	State/Prov.	Postal Code	Climate Zone	Climate Zone
GEMBLOUX	BEL	Belgium	NAMUR	5030		
Ladue	USA	United States	Missouri	63124	USWARM	US Warm Continental
Sauviate-sur-Vige	FRA	France	Limousin	87400	EPOMED	EPPO Mediterranean
Shipman	USA	United States	Illinois	62685	USWARM	US Warm Continental
Tulle	FRA	France	Corse	19015	EPOMED	EPPO Mediterranean

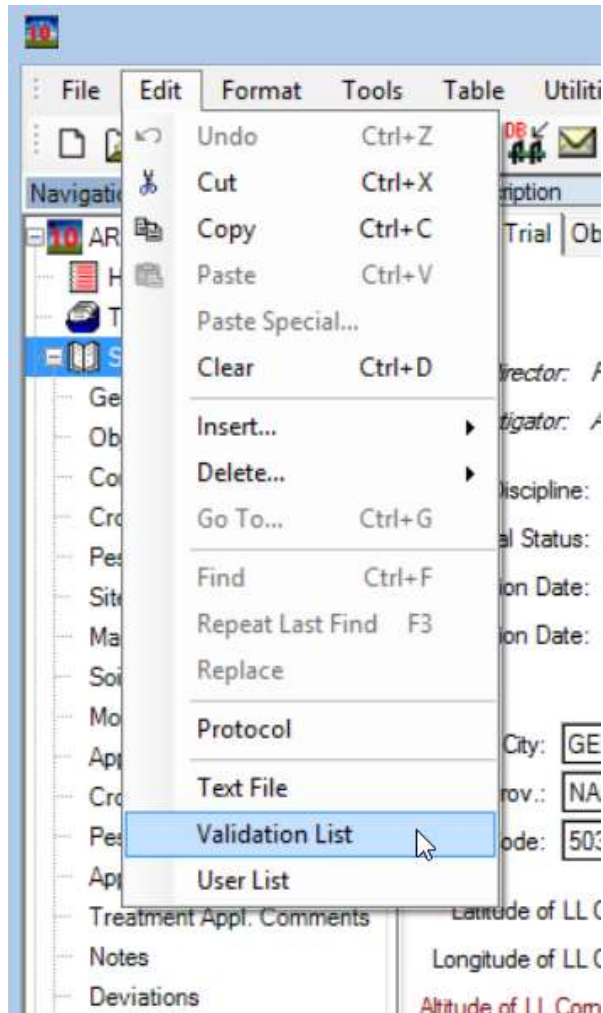
(All) (All) (All) (All) (All) (All) (All)

Active Filter Remove Filter New Delete OK Cancel

Select F9

List – Edit Personal list

One method to make changes to a personal list



Validation List C:\ProgramData\ARMdef\GDMdef\G-Fung.lst

	Treatment Name	Form Conc	Form Unit	Form Type	Lot Code	Density	Registration Number	Re-Entry
1	Amistar	250	GAL	SC				
2	APRON	25	%WW	W				
3	BANROT	40	%WW	WP				
4	BANROT	8	%WW	G				
5	BAYLETON	1	%WW	G				
6	BAYLETON	25	%WW	DF				
7	BAYLETON	50	%WW	DF				
8	BENLATE	50	%WW	DF				
9	BENOMYL	50	%WW	WP				
10	BRAVO	6	LBA/GAL	F				
11	BRAVO	90	%WW	WG				
12	CAPTAN	4	LBA/GAL	L				
13	CAPTAN	50	%WW	WP				
14	CAPTAN	80	%WW	WP				
15	DACONIL	4	LBA/GAL	F				
16	DACONIL	6	LBA/GAL	F				
17	DELAN	4.2	LBA/GAL	SC				
18	DITHANE DF	75	%WW	DF				
19	DUOSAN	75	%WW	WP				
20	FUNGO	50	%WW	WP				
21	Jockey *	198.2	GAL	FS				
22	KOBAN	1.3	%WW	G				
23	KOBAN	30	%WW	WP				
24	Latitude	125	GAL	FS				
25	MANEB	80	%WW	W				
26	MESSENGER	3	%WW	WDG				
27	MONTUT	50	%WW	WP				

Open... Settings... Save Close Print Help

List – Master List

ARM 10.2015.0

File Edit Format Tools Table Utilities Window Graph Add-Ins Help

Navigation Bar

ARM

- Header
- Treatments
- Site Description
 - General Trial
 - Objectives/Conclusions
 - Contacts
 - Crop Description
 - Pest Description
 - Site and Design
 - Maintenance
 - Soil
 - Moisture
 - Application
 - Crop Stage at Appl.
 - Pest Stage at Appl.
 - Appl. Equipment
 - Treatment Appl. Comments
 - Notes
 - Deviations
 - Protocol Comments
- Assessment Data
- Trial Map
- Schedule Tasks
- Calendar

Assessment Data - Line 2

Column Number	4 (Calculated)	5
Pest Type	D Disease	D Disease
Pest Code	SEPTTR	SEPTTR
Pest Scientific Name	Mycosphaerella	Mycosphaerella
Pest Name	Speckled leaf bl	Speckled leaf bl
Crop Code	TRZAW	TRZAW
BBCH Scale	BCER	BCER
Crop Scientific Name	Triticum aestivum	Triticum aestivum
Crop Name	Winter whe	
Part Rated	LEAF3	
Rating Date	May-13-20	
Rating Type	PESSEV	
Rating Unit	%UNCK	
Sample Size, Unit	10	
Reporting Basis, Unit		
Number of Subsamples	1	
Crop Stage Majority	32	
Crop Stage Minimum/Maximum		
Crop Stage Scale	BBCH	

Sub	Rep	Blk	Col	Plot	Tit	4 (Calculated)
1	1	1	1	101	3	54.00
1	1	1	2	102	1	0.00
1	1	1	3	103	4	72.00
1	1	1	4	104	2	74.00

Select F9

Pest Code Master List (EPPO_CODES)

Pest Code	Pest Scientific Name	Pest Name	Language
SEPTTR	Mycosphaerella graminicola	Speckled leaf blotch of wheat	US
SEPTUR	Septoria urticae	Biological control of nettle	US
SEPTVE	Septoria verbascoicola	Septoria verbascoicola	US
SEPTVI	Septoria vignae	Septoria vignae	US
SERPLA	Serpula lacrymans	House fungus	US
SERREN	Serratia entomophila	Biocontrol of grass grub	US
SERRMA	Serratia marcescens	Cucurbit yellow vine agent	US
SERRSP	Serratia sp.	Serratia sp.	US
SETOHO	Setosphaeria holmii	Leaf blight	US
SETOMO	Setosphaeria monoceras	Setosphaeria monoceras	US
SETOPR	Setosphaeria prolata	Setosphaeria prolata	US
SETOTU	Setosphaeria turcica	Leaf blight of maize	US
SETSV0	Setaria streak virus	Setaria streak virus	US
SEURCO	Seuratia coffeicola	Seuratia coffeicola	US
SEURSP	Seuratia sp.	Seuratia sp.	US
SGCST0	Sugarcane chlorotic streak ag.	Chlorotic streak of sugarcane	US

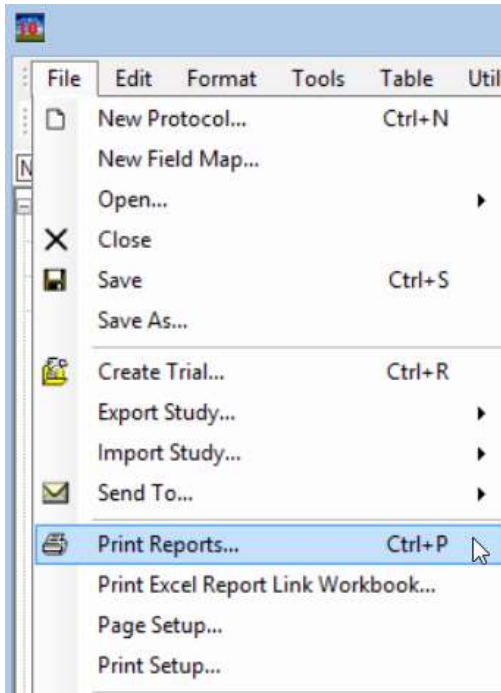
(All) (All) (All) (All)

Active Filter

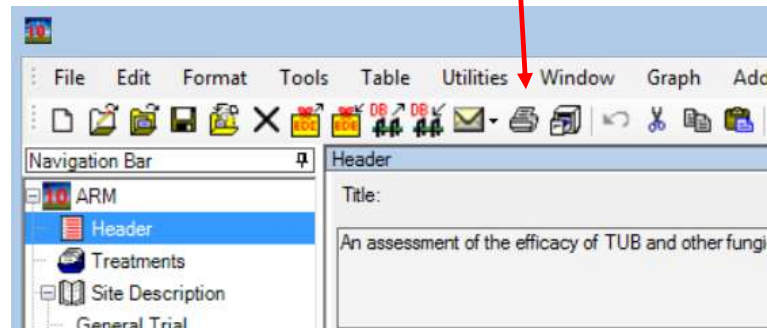
Display Personal Add to Personal OK Cancel

Search

Print reports



Print reports



- Some reports are linked to Protocol, some to Trial.
- It is not possible to print with a demo version.

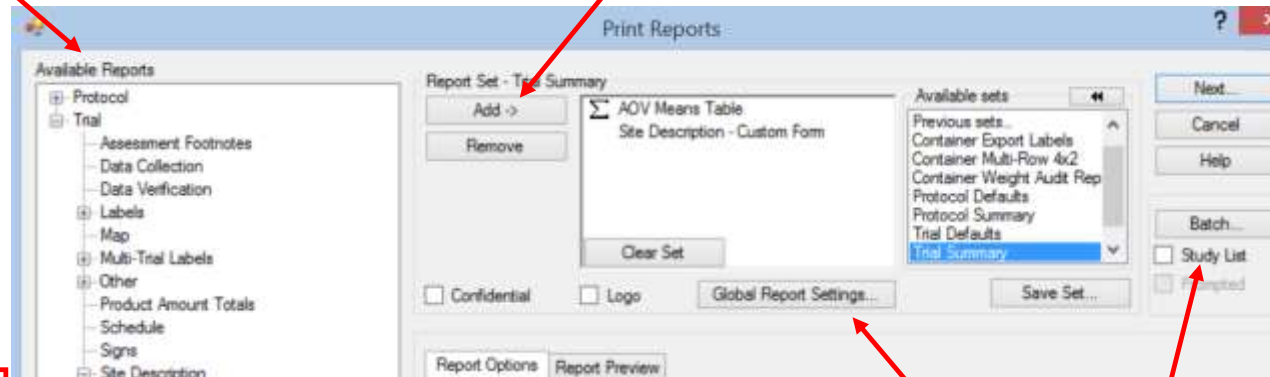
Print reports – Main screen

Available reports

- Protocol or Trial
- Subcategories
- Double Click to include
- Right Click to select options

Report set

- = customised reports selected and printed together
- Can be saved, reloaded, emailed



Options

- Are specific for each report
- Display current options (report spec.)
- To modify, select report within the set and Right Click

Preview

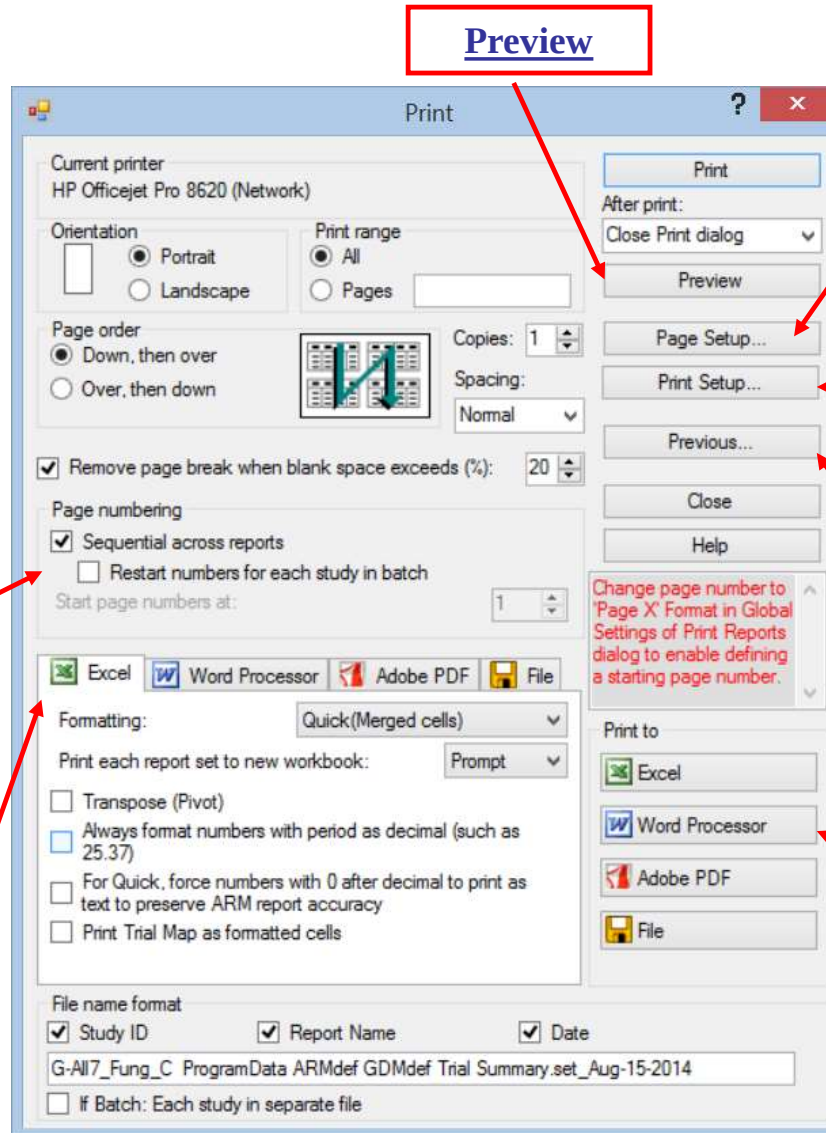
- Report specific

Batch = possibility to select several files

Global settings

- = all settings related to
- Headers and Footer
- Date to be printed
- Page number
- Borders

Print reports – Setup



The screenshot shows the 'Print' dialog box with the following sections:

- Current printer:** HP Officejet Pro 8620 (Network)
- Orientation:** Portrait (selected), Landscape
- Print range:** All (selected), Pages
- Page order:** Down, then over (selected), Over, then down
- Copies:** 1
- Spacing:** Normal
- Remove page break when blank space exceeds (%):** 20
- Page numbering:** Sequential across reports (checked), Restart numbers for each study in batch (unchecked), Start page numbers at: 1
- Formatting:** Quick(Merged cells), Print each report set to new workbook: Prompt
- File name format:** Study ID, Report Name, Date (all checked), G-A117_Fung_C ProgramData ARMdef GDMdef Trial Summary.set_Aug-15-2014
- Buttons:** Print, After print: Close Print dialog, Preview, Page Setup..., Print Setup..., Previous..., Close, Help
- Print to:** Excel, Word Processor, Adobe PDF, File

Preview

Page Setup

- Margins
- Labels format
- Primary Font

Print Setup

- Paper size
- Portrait or Landscape
- Select printer
- Printer Properties

Previous

Back to Main screen

Page numbering

ARM will automatically Print to [Excel](#)

- One sheet by report
- More or less formatting available to allow fast export.

ARM will automatically print to [Word](#) and launch one document with similar name.



Global report settings

“Global Options” apply to all reports

The image displays three overlapping screenshots of the 'Global Report Settings' dialog box, illustrating different configuration tabs:

- Global - General:** This tab contains settings for report output. Key options include:
 - Treatments:** Radio buttons for 'Print all' (selected) and 'Print selected'. A checkbox for 'Identify when selected treatments are summarized' is present.
 - Print options:** Checkboxes for 'Print rate units in lower case', 'Print active ingredient rate units as 'AI'', and 'Force Form Conc to %AW/W basis (requires density)'. A 'Synonym number' field is set to 0.
 - Treatment fields (columns):** Radio buttons for 'Use treatment 'Fields to Print' from options for each report' (selected) and 'Allow hidden fields on report'. Checkboxes for 'Use visible treatment fields (current view) on all printed reports', 'Hide empty treatment fields', and 'Wrap treatment entries longer than field width defined in report options' are shown.
 - Data headers:** A checkbox for 'Clip scrolling fields' is checked.
- Global - Page Heading:** This tab shows settings for page headers. It includes a dropdown for 'Full on all pages', checkboxes for 'Use enhanced print' and 'Use fixed-width Font', and alignment options (Left, Centered, Right) for 'First heading line', 'Date printed', 'File name', 'Confidential', 'Logo', 'Report name', and 'Page number'. A 'Format' dropdown is set to 'Page X of Y'.
- Global - Borders:** This tab configures report borders. It includes a 'Print borders' checkbox, 'Optional borders' settings, and a dropdown for 'Secondary lines between treatments'. Spacing settings (in points) are provided for 'Before vertical line', 'After vertical line', 'Before horizontal line', and 'After horizontal line'. Width settings (in twips) are provided for 'Primary lines' and 'Secondary lines'.

Each screenshot shows a preview of a report page at the bottom, featuring the Gylling Data Management, Inc. logo and a sample report header. A red text box at the bottom of each dialog states: 'Options on this tab apply for all reports.'

Print – Page Setup (Labels)

Page Setup

Current printer
HP Officejet Pro 8620 (Network)

Margins

Left: 1.5cm Right: 0.99cm

Top: 0.99cm Bottom: 1.5cm

Labels...
Primary Font...
Fixed-Width Font...
Bar Code Font...

OK Cancel Help

Label Sheet Report Options

Label Sheet | Label Sheet Page Setup | Global - General | Global - Page Heading | Global - Borders

Label sheet description

Columns per sheet: 5

Rows per sheet: 10

Label height: 2.49cm

Label width: 7.01cm

Save New Default

☒ Tractor feed labels

Margins

Before left label column: 0.0cm

Above top label: 1.27cm

Application code

☐ Print selected

Use default

- A4 Laser
- Avery 3451
- Avery 4013 Tractor Feed
- Avery 5160 (Laser)
- Avery 5161 (Laser)
- Avery 5163 (Laser)
- Avery 5197 (Laser)
- Avery L6103
- Avery L6105

OK Cancel Help

Font

Font: Times New Roman

Font style: Regular

Size: 10

OK Cancel

Effects

☐ Strikeout

☐ Underline

Sample

AaBbYyZz

Script: Western

Print – Print Setup

×

Print

Printer

Name: HP Officejet Pro 8620 (Network)

▼

Properties...

Status: Ready

Type: HP Officejet Pro 8620

Where: WSD-2690709-9b97-44f4-b6c3-8e1e87a46d28.0030

Comment: This is a web services printer

☐ Print to file

Print range

☒ All

☐ Pages from: to:

☐ Selection

Copies

Number of copies: 1

▲▼

1 2 3

1 2 3

☒ Collate

OK

Cancel

Print - Preview



Print Preview

100% Page 1 of 2

Pages Outline

Page 1 of 2 (1)

Page 2 of 2 (2)

Aug-15-2014 (G-AJ7 Fung)

ARM 2015.0 Site Description Page 1 of 2

Gylling Data Management, Inc.

An assessment of the efficacy of TUB and other fungicides for the control of Septoria Diseases in winter wheat

Trial ID: G-AJ7 Fung Location: Gembloux Trial Year: 2014
Protocol ID: G-AJ7_Fung Investigator: Your Name
Project ID: Study Director: R.E. Ceardh
Sponsor Contact:

General Trial Information

Study Director: R.E. Ceardh Title: Study Leader
Investigator: ARM Demonstration

Discipline: F fungicide
Trial Status: F one-year/final Trial Reliability: HIGH

Trial Location

City: GEMBLOUX Country: BEL Belgium
State/Prov.: NAMUR
Postal Code: 5030

Latitude of LL Corner °: 50.5667 N
Longitude of LL Corner °: 4.6833 E
Altitude of LL Corner, Unit: 152.00 M
Angle y-axis to North °: 60.00

Official Trial ID: B2007RTJ02N25

No.	Guideline	Description
1.	PP 1/152(3)	Design and analysis of efficacy evaluation trials
2.	CEB 189	F : Maladies des céréales
3.	PP 1/26(3)	Foliar diseases on cereals

Contacts

Study Director: R.E. Ceardh Title: Study Leader
Investigator: ARM Demonstration

Cooperator: NORTH FARM
City: GEMBLOUX Phone No.: 04 73 23 62 89
State/Prov.: NAMUR
Postal Code: 5030
Country: BLG Belgium

Print – Print to Word



Aug-15-2014 (G-AII7_Fung) ARM 2015.0 Site Description Page 1 of 2

Gylling Data Management, Inc.

An assessment of the efficacy of TUB and other fungicides for the control of Septoria Diseases in winter wheat

Trial ID: G-AII7_Fung Location: Gembloux Trial Year: 2014
Protocol ID: G-AII7_Fung Investigator: Your Name
Project ID: Study Director: R.E. Cearch
Sponsor Contact:

General Trial Information

Study Director: R.E. Cearch Title: Study Leader
Investigator: ARM Demonstration

Discipline: F fungicide
Trial Status: F one-year/final Trial Reliability: HIGH

Trial Location

City: GEMBLOUX Country: BEL Belgium
State/Prov.: NAMUR
Postal Code: 5030

Latitude of LL Corner °: 50.5667 N
Longitude of LL Corner °: 4.6833 E
Altitude of LL Corner, Unit: 152.00 M
Angle y-axis to North °: 60.00

Official Trial ID: B2007RTJ02N25

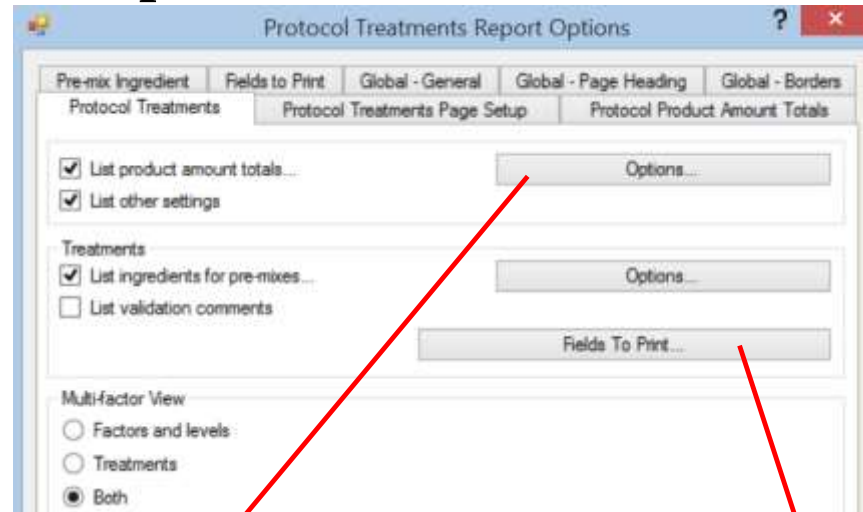
No.	Guideline	Description
1.	PP 1/152(3)	Design and analysis of efficacy evaluation trials
2.	CEB 189	F Maladies des céréales
3.	PP 1/26(3)	Foliar diseases on cereals

Contacts

Study Director: R.E. Cearch Title: Study Leader
Investigator: ARM Demonstration

PAGE 1 OF 2 522 WORDS

Print reports - Protocol Treatments



Protocol Treatments Report Options

Pre-mix Ingredient | Fields to Print | Global - General | Global - Page Heading | Global - Borders

Protocol Treatments | Protocol Treatments Page Setup | Protocol Product Amount Totals

☒ List product amount totals... Options...

☒ List other settings

Treatments

☒ List ingredients for pre-mixes... Options...

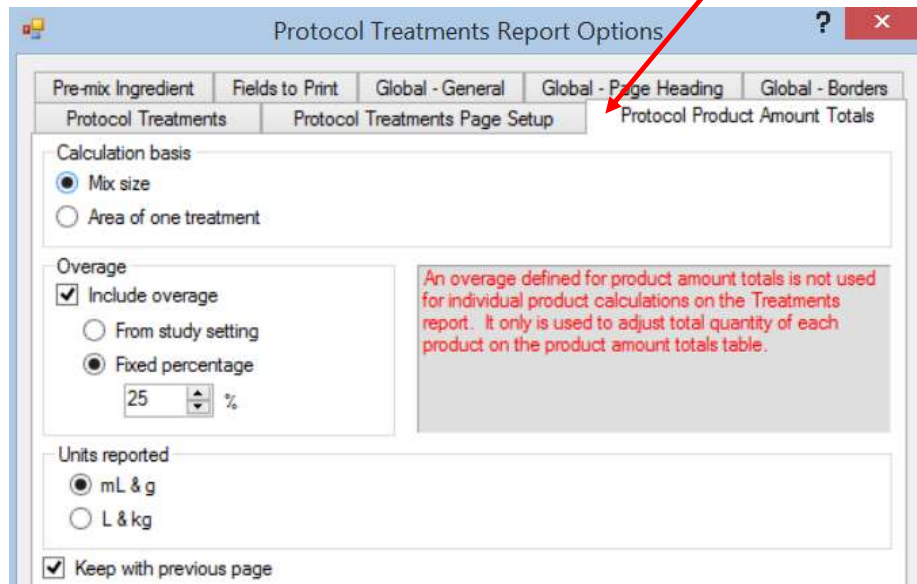
☐ List validation comments Fields To Print...

Multi-factor View

☐ Factors and levels

☐ Treatments

☒ Both



Protocol Treatments Report Options

Pre-mix Ingredient | Fields to Print | Global - General | Global - Page Heading | Global - Borders

Protocol Treatments | Protocol Treatments Page Setup | Protocol Product Amount Totals

Calculation basis

☒ Mix size

☐ Area of one treatment

Overage

☒ Include overage

☐ From study setting

☒ Fixed percentage

25 %

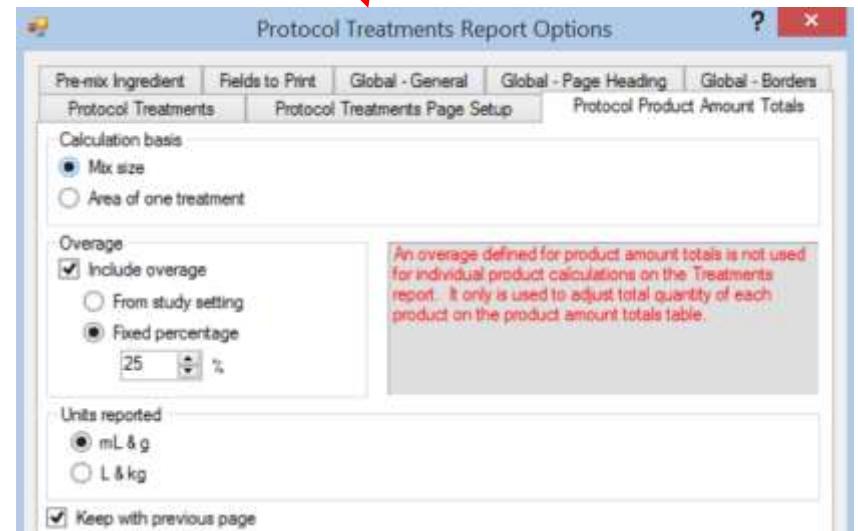
Units reported

☒ mL & g

☐ L & kg

☒ Keep with previous page

An overage defined for product amount totals is not used for individual product calculations on the Treatments report. It only is used to adjust total quantity of each product on the product amount totals table.



Protocol Treatments Report Options

Pre-mix Ingredient | Fields to Print | Global - General | Global - Page Heading | Global - Borders

Protocol Treatments | Protocol Treatments Page Setup | Protocol Product Amount Totals

Calculation basis

☒ Mix size

☐ Area of one treatment

Overage

☒ Include overage

☐ From study setting

☒ Fixed percentage

25 %

Units reported

☒ mL & g

☐ L & kg

☒ Keep with previous page

An overage defined for product amount totals is not used for individual product calculations on the Treatments report. It only is used to adjust total quantity of each product on the product amount totals table.



Print reports - Protocol Treatments

Print Preview

Page 1 of 1

Aug-15-2014 (G-A17 Herb prt9)

ARM 2015.0 Protocol Treatments Page 1 of 1

Gylling Data Management, Inc.

Determination of the efficacy and lowest effective dose rate of HERB 1 against monocotyle and volunteer grass weeds in Winter Rape when applied in Spring

Protocol ID: G-A17 Herb Location: GERMANY Trial Year: 2014
Trial ID: By: Your Name
Project ID: G-A17_Herb Study Director: R.E. Cech
Sponsor Contact:

Trt No.	Type	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	Spray Volume	Volume Unit	Comment
1	CHK	Untreated Check											
2	HERB	Herb 1	100	GAL	EC	50	g a/ha	0.5	l/ha	A	300	L/HA	early post application
3	HERB	Herb 1	100	GAL	EC	80	g a/ha	0.8	l/ha	A	300	L/HA	early post application
4	HERB	Herb 1	100	GAL	EC	100	g a/ha	1.0	l/ha	A	300	L/HA	early post application
5	HERB	Standard	125	GAL	EC	125	g a/ha	1.0	l/ha	A	300	L/HA	early post application

Replications: 4, Untreated treatments: 1, Design: Randomized Complete Block (RCB), Treatment units: Treated 'Plot' experimental unit size, Dry Form Unit: g/kg, Treated 'Plot' experimental unit size Width: 2.5 meters, Treated 'Plot' experimental unit size Length: 10 meters, Application volume: 300 L/ha, Mix size: 3.25 liters, Mix coverage: 250 mL, Format definitions: G-A17 def, G-A17 frm

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
155.729	ml	Herb 1	100	EC	
67.708	ml	Standard	125	EC	

* 'Per area' calculations based on spray volume= 300 L/ha, mix size= 3.25 liters (mix size basis).
* Product amount calculations increased 25 % for overage adjustment.
* Product amounts adjusted for the 5 trials planned for this protocol.

Print reports - Protocol Description

Protocol Description Report Options

Global - General Global - Page Heading Global - Borders

Protocol Description Protocol Description Page Setup

Empty fields

☐ Print blanks

☒ Print nothing

Field prompts

☒ Bold print

☒ Skip for empty fields

Compression

☒ Compress report

Compresses out blank lines only when set to "Print Nothing" and "Skip for Empty Fields."

☐ Print selected sections

List validation comments

None

☐ Keep with previous page

☐ Print study rules

☐ Use fixed-width font

"Use fixed-width font" is ignored when formats or tables are used.

Tip: Open a study to enable all report options, since some report options are study-dependent.

Cancel Help

Sections to print

Sections	Print
Trial Establishment Guidelines	☒
Crop/Pest Description	☒
Soil	☒
Application	☒
Crop Stage at Appl.	☒
Pest Stage at Appl.	☒
Site Information	☒
General Comments	☒

Show All

Hide All



Print reports - Protocol Description

Print Preview

100% Page 1 of 6

Pages Outline

Page 1 of 6 (1)

Page 2 of 6 (2)

Page 3 of 6 (3)

Page 4 of 6 (4)

Aug-15-2014 (G-A17_Fung) ARM 2014.4 Site Description Page 1 of 6

Gylling Data Management, Inc.

An assessment of the efficacy of TUB and other fungicides for the control of Septoria Diseases in winter wheat

Trial ID: G-A17_Fung Location: Gembloux Trial Year: 2014
Protocol ID: G-A17_Fung Investigator: Your Name
Project ID: Study Director: R.E. Ceardh
Sponsor Contact:

General Trial Information

Study Director: R.E. Ceardh Title: Study Leader
Investigator: ARM Demonstration

Discipline: F fungicide
Trial Status: F one-year/final Trial Reliability: HIGH

Trial Location

City: GEMBLOUX Country: BEL Belgium
State/Prov.: NAMUR
Postal Code: 5030

Latitude of LL Corner °: 50.5667 N
Longitude of LL Corner °: 4.6833 E
Altitude of LL Corner, Unit: 152.00 M
Angle v-axis to North °: 60.00

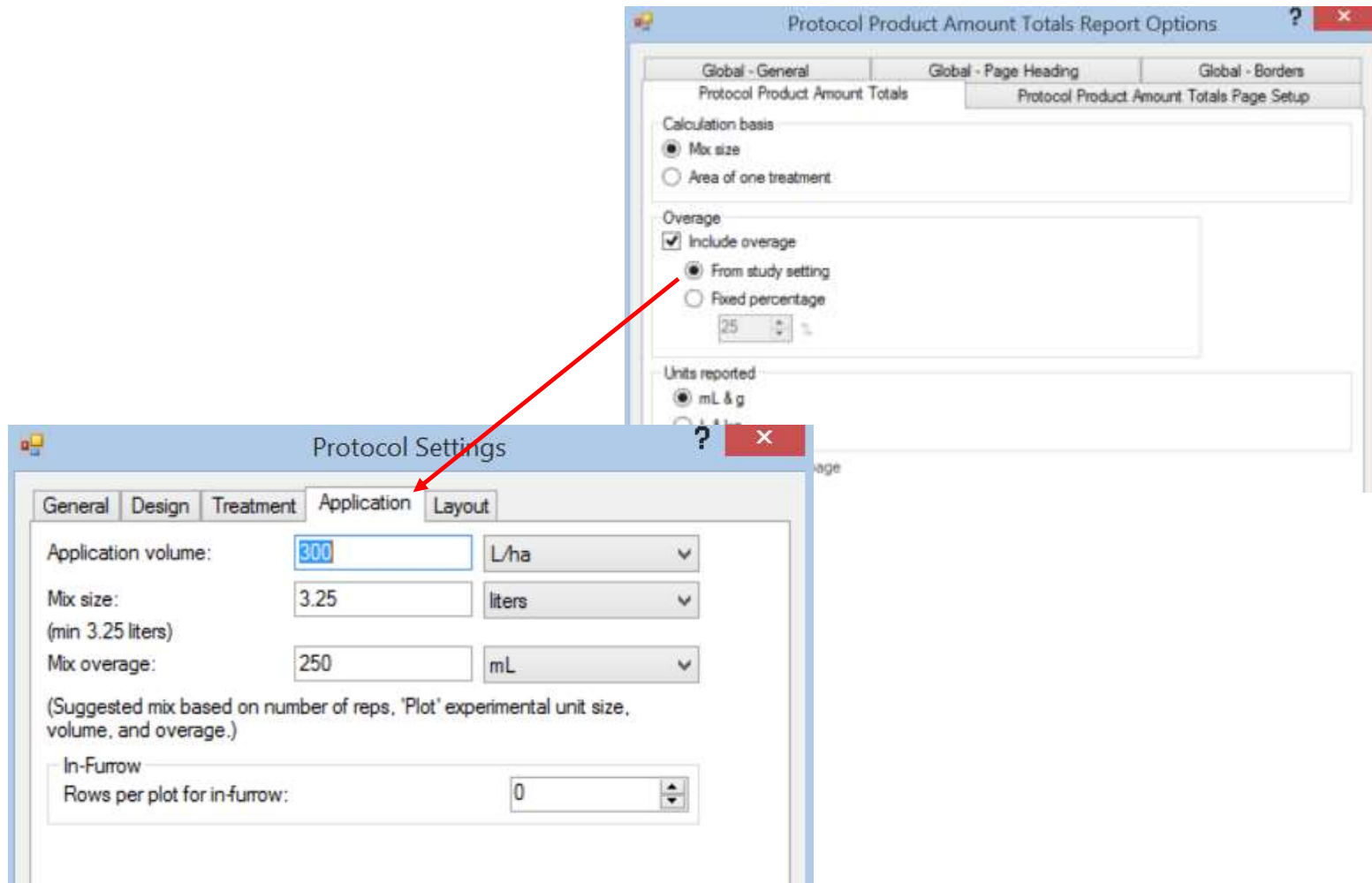
Official Trial ID: B2007RTJ02H25

No.	Guideline	Description
1.	PP 1/152(3)	Design and analysis of efficacy evaluation trials
2.	CEB 189	F : Maladies des céréales
3.	PP 1/26(3)	Foliar diseases on cereals

Contacts

Study Director: R.E. Ceardh Title: Study Leader
Investigator: ARM Demonstration

Print reports - Protocol Product Amount Total



The image shows two overlapping software windows. The top window, titled "Protocol Product Amount Totals Report Options", has tabs for "Global - General", "Global - Page Heading", and "Global - Borders". The "Global - General" tab is active, showing options for "Calculation basis" (radio buttons for "Mix size" and "Area of one treatment"), "Overage" (checkbox for "Include overage" and radio buttons for "From study setting" and "Fixed percentage" with a value of 25), and "Units reported" (radio buttons for "mL & g" and "kg & t"). The bottom window, titled "Protocol Settings", has tabs for "General", "Design", "Treatment", "Application", and "Layout". The "Application" tab is active, showing fields for "Application volume:" (300), "Mix size:" (3.25), "Mix overage:" (250), and "In-Furrow Rows per plot for in-furrow:" (0). A red arrow points from the "From study setting" radio button in the top window to the "Application" tab in the bottom window.

Protocol Product Amount Totals Report Options

Global - General Global - Page Heading Global - Borders

Protocol Product Amount Totals Protocol Product Amount Totals Page Setup

Calculation basis

☒ Mix size

☐ Area of one treatment

Overage

☒ Include overage

☒ From study setting

☐ Fixed percentage

25

Units reported

☒ mL & g

☐ kg & t

Protocol Settings

General Design Treatment Application Layout

Application volume: 300 L/ha

Mix size: 3.25 liters

(min 3.25 liters)

Mix overage: 250 mL

(Suggested mix based on number of reps, 'Plot' experimental unit size, volume, and overage.)

In-Furrow

Rows per plot for in-furrow: 0



Print reports - Protocol Product Amount Total

Print Preview

Page 1 of 1

Aug-15-2014

ARM 2015.0 Protocol Product Amount Totals Report Page 1 of 1

Gylling Data Management, Inc.

Product quantities required for listed treatments and applications across multiple studies:

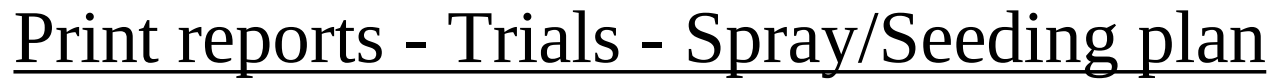
Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
134.167	ml	Herb 1	100	EC	
58.333	ml	Standard	125	EC	

c:\users\rebecca\documents\slarm_data\tutorial\G-A17_Herb.prt

* 'Per area' calculations based on spray volume= 300 L/ha, mix size= 3.25 liters (mix size basis).

* Mix size increased 250 ml for overage adjustment.

* Product amounts adjusted for the 5 trials planned for this protocol.



Spray/Seeding Plan Report Options

Spray/Seeding Plan Spray/Seeding Plan Page Setup Product Amount Totals

Pre-mix Ingredient Fields to Print Sort Global - General Global - Page Heading Global - Borders

Sort by

☐ Treatment

☒ Replicate

Number:

☐ Reverse order

Print reports - Trials - Spray/Seeding plan

Print Preview

Page 1 of 1

Aug-15-2014 (G-A17_Fung)

ARM 2015.0 Spray/Seeding Plan Page 1 of 1

Gylling Data Management, Inc.

An assessment of the efficacy of TUB and other fungicides for the control of Septoria Diseases in winter wheat

Trial ID: G-A17_Fung Location: Gembloux Trial Year: 2014
 Protocol ID: G-A17_Fung Investigator: Your Name
 Project ID: Study Director: R.E. Cearch
 Sponsor Contact:

Reps: 4 Appl Code: A Plots: 2.5 by 10 meters
 Spray vol: 200 L/ha Mix size: 2.15 liters (min 2.15)

Tt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Rate Unit	Appl Code	Spray Volume Unit	Mix Mix	Mix Size Unit	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
3	Tub	250 G/L	EC	1 l/ha	ABC						10.75 ml/mx	101	202	301	402
1	Untreated Check				ABC							102	205	303	401
4	Tit 250	250 G/L	EC	0.5 l/ha	ABC						5.375 ml/mx	103	204	305	404
2	Tub	250 G/L	EC	0.5 l/ha	ABC						5.375 ml/mx	104	201	302	403
5	Mico 60	600 G/L	EC	1.5 l/ha	AB			250 L/HA	2.65 Liters		15.9 ml/mx	105	203	304	405

Reps: 4 Appl Code: B Plots: 2.5 by 10 meters
 Spray vol: 200 L/ha Mix size: 2.15 liters (min 2.15)

Tt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Rate Unit	Appl Code	Spray Volume Unit	Mix Mix	Mix Size Unit	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
3	Tub	250 G/L	EC	1 l/ha	ABC						10.75 ml/mx	101	202	301	402
1	Untreated Check				ABC							102	205	303	401
4	Tit 250	250 G/L	EC	0.5 l/ha	ABC						5.375 ml/mx	103	204	305	404
2	Tub	250 G/L	EC	0.5 l/ha	ABC						5.375 ml/mx	104	201	302	403
5	Mico 60	600 G/L	EC	1.5 l/ha	AB			250 L/HA	2.65 Liters		15.9 ml/mx	105	203	304	405

Reps: 4 Appl Code: C Plots: 2.5 by 10 meters
 Spray vol: 200 L/ha Mix size: 2.15 liters (min 2.15)

Tt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Rate Unit	Appl Code	Spray Volume Unit	Mix Mix	Mix Size Unit	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
3	Tub	250 G/L	EC	1 l/ha	ABC						10.75 ml/mx	101	202	301	402
1	Untreated Check				ABC							102	205	303	401
4	Tit 250	250 G/L	EC	0.5 l/ha	ABC						5.375 ml/mx	103	204	305	404
2	Tub	250 G/L	EC	0.5 l/ha	ABC						5.375 ml/mx	104	201	302	403
5	Fungoi	200 G/L	SC	1.25 l/ha	C						13.44 ml/mx	105	203	304	405

Sort Order: Application Code, Replicate 1

Print reports - Trials - Spray/Seeding plan

Print Preview

Page 1 of 1

Aug-15-2014 (G-A17 Fung)

ARM 2015.0 Spray/Seeding Plan Page 1 of 1

Gylling Data Management, Inc.

An assessment of the efficacy of TUB and other fungicides for the control of Septoria Diseases in winter wheat

Trial ID: G-A17 Fung Location: Gembloux Trial Year: 2014
 Protocol ID: G-A17_Fung Investigator: Your Name
 Project ID: Study Director: R.E. Cech
 Sponsor Contact:

Reps: 4 Appl Code: A Plots: 2.5 by 10 meters
 Spray vol: 200 L/ha Mix size: 2.15 liters (min 2.15)

Trt No	Treatment	Form	Conc Unit	Type	Rate Unit	Code	Volume Unit	Mix Size Unit	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
3	Tub	250 G/L	EC	1 Vha	ABC				10.75 ml/mx	101	202	301	402
1	Untreated Check				ABC					102	205	303	401
4	Tilt 250	250 G/L	EC	0.5 Vha	ABC				5.375 ml/mx	103	204	305	404
2	Tub	250 G/L	EC	0.5 Vha	ABC				5.375 ml/mx	104	201	302	403
5	Mico 60	600 G/L	EC	1.5 Vha	AB	250 L/ha	2.65 Liters		15.9 ml/mx	105	203	304	405

Reps: 4 Appl Code: B Plots: 2.5 by 10 meters
 Spray vol: 200 L/ha Mix size: 2.15 liters (min 2.15)

Trt No	Treatment	Form	Conc Unit	Type	Rate Unit	Code	Volume Unit	Mix Size Unit	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
3	Tub	250 G/L	EC	1 Vha	ABC				10.75 ml/mx	101	202	301	402
1	Untreated Check				ABC					102	205	303	401
4	Tilt 250	250 G/L	EC	0.5 Vha	ABC				5.375 ml/mx	103	204	305	404
2	Tub	250 G/L	EC	0.5 Vha	ABC				5.375 ml/mx	104	201	302	403
5	Mico 60	600 G/L	EC	1.5 Vha	AB	250 L/ha	2.65 Liters		15.9 ml/mx	105	203	304	405

Spray/Seeding Plan Report Options

Spray/Seeding Plan | Spray/Seeding Plan Page Setup | Product Amount Totals

Pre-mix Ingredient | Fields to Print | Sort | Global - General | Global - Page Heading | Global - Borders

Sort by

☐ Treatment

☒ Replicate

Number: 4

☐ Reverse order

Print reports - Trials - Site Description

Site Description Report Options

Global - General Global - Page Heading Global - Borders

Site Description Site Description Page Setup

Empty fields:

☐ Print blanks

☒ Print nothing

Field prompts:

☒ Bold print

☒ Skip for empty fields

Compression:

☒ Compress report

Compresses out blank lines only when set to "Print Nothing" and "Skip for Empty Fields."

☒ Print selected sections

List validation comments:

None

☐ Keep with previous page

☐ Print study rules

☒ Use fixed-width font

all report options, since some report options are study-dependent.

OK Cancel Help

Sections to print

Sections	Print
General Trial	☒
Objectives/Conclusions	☒
Contacts	☒
Crop Description	☒
Pest Description	☒
Site and Design	☒
Maintenance	☒
Soil	☒
Moisture	☒

Show All

Hide All



Print reports - Trials - Site Description

Print Preview

Page 1 of 2

Aug-15-2014 (G-AIT Fung)

ARM 2014.4 Site Description Page 1 of 2

Gyilling Data Management, Inc.

An assessment of the efficacy of TUB and other fungicides for the control of Septoria Diseases in winter wheat

Trial ID: G-AE7_Fung Location: Gembloux Trial Year: 2014
Protocol ID: G-AE7_Fung Investigator: Your Name
Project ID: Study Director: R.E. Search
Sponsor Contact:

General Trial Information

Study Director: R.E. Search Title: Study Leader
Investigator: ARM Demonstration

Discipline: Fungicide
Trial Status: Fone-year/final Trial Reliability: HIGH

Trial Location

City: GEMBLoux Country: BEL Belgium
State/Prov.: NAMUR
Postal Code: 5030

Latitude of LL Corner *: 50.5667 N
Longitude of LL Corner *: 4.6833 E
Altitude of LL Corner, Unit: 152.00M
Angle y-axis to North *: 60.00

Official Trial ID: B2007RIJ02N25

No.	Guideline	Description
1.	FP 1/152(3)	Design and analysis of efficacy evaluation trials
2.	CEB 189	F : Maladies des céréales
3.	FP 1/26(3)	Foliar diseases on cereals

Contacts

Study Director: R.E. Search Title: Study Leader
Investigator: ARM Demonstration

Cooperator/Landowner
Cooperator: NORTH FARM
City: GEMBLoux Phone No.: 04 73 23 62 89
State/Prov.: NAMUR
Postal Code: 5030



Print reports - Trials - Site Description

Aug-15-2014 (G-A17 Fung)

ARM 2014.4 Site Description Page 1 of 5

Gylling Data Management, Inc.

An assessment of the efficacy of TUB and other fungicides for the control of Septoria Diseases in winter wheat

Trial ID: Q-A17 Fung Location: Gembloux Trial Year: 2014
Protocol ID: Q-A17_Fung Investigator: Your Name
Project ID: Study Director: R.E. Search
Sponsor Contact:

Study Director: R.E. Search Title: Study Leader
Investigator: ARM Demonstration Title:

Discipline: Fungicide
Trial Status: Fone-year/final Trial Reliability: HIGH
Initiation Date: Planned Completion Date:
Completion Date:

City: GEMBOUX Country: BEL Belgium
State/Prov: NAMUR
Postal Code: 5030 Climate Zone:

Latitude of LL Corner *: 50.5667 N
Longitude of LL Corner *: 4.6833 E
Altitude of LL Corner, Unit: 162.00M
Angle y-axis to North *: 60.00 Map Reference:

Directions:

Conducted Under GLP: Official Trial ID: B2007HTJ02N25
Conducted Under GEP: Other Trial ID:

Study Rules:

Contacts Title: Study Leader

Printed: 10/15/2014

Site Description Report Options

Global - General

Global - Page Heading

Global - Borders

Site Description

Site Description Page Setup

Empty fields

☒ Print blanks

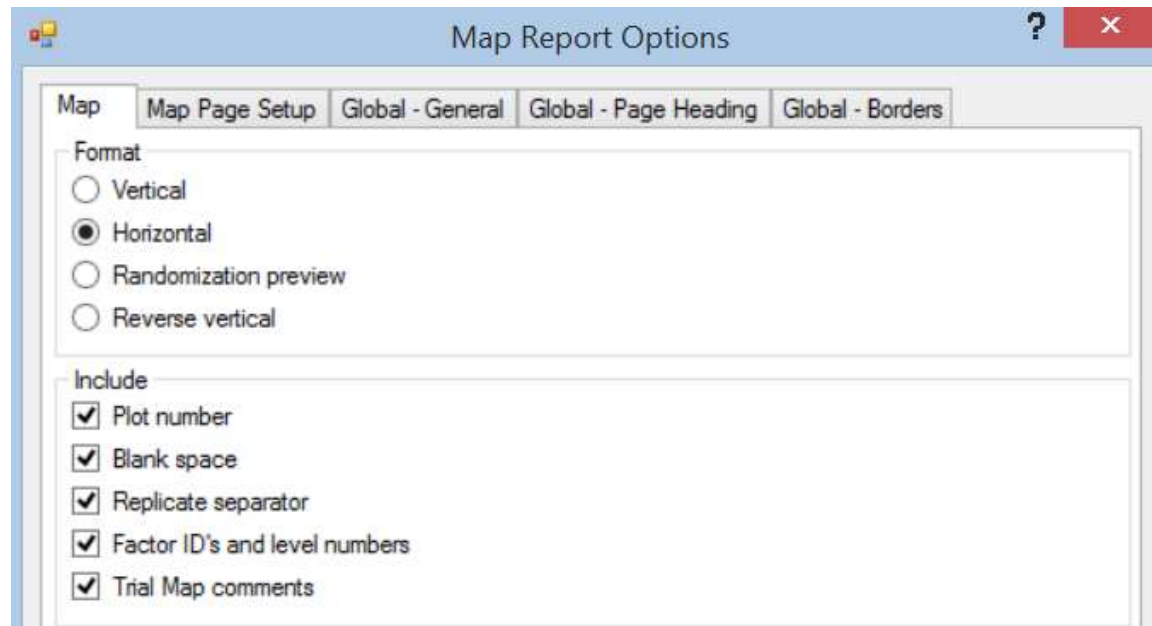
☐ Print nothing

Field prompts

☒ Bold print

☒ Skip for empty fields

Print reports - Trials - Plot Map



Map Report Options

Map | Map Page Setup | Global - General | Global - Page Heading | Global - Borders

Format

- ☐ Vertical
- ☒ Horizontal
- ☐ Randomization preview
- ☐ Reverse vertical

Include

- ☒ Plot number
- ☒ Blank space
- ☒ Replicate separator
- ☒ Factor ID's and level numbers
- ☒ Trial Map comments

Print reports - Trials - Plot Map

Print Preview

100% Page 1 of 1

Pages Outline

Page 1 of 1 (1)

Aug-15-2014 (G-A17 Fung)

ARM 2014 4 Map Page 1 of 1

Gylling Data Management, Inc.

An assessment of the efficacy of TUB and other fungicides for the control of Septoria Diseases in winter wheat

Trial ID: G-A17 Fung Location: Gembloux Trial Year: 2014
 Protocol ID: G-A17_Fung Investigator: Your Name
 Project ID: Study Director: R.E. Cechin
 Sponsor Contact:

Rep Bk									
4 4	401	1	402	3	403	2	404	4	405
3 3	301	3	302	2	303	1	304	5	305
2 2	201	2	202	3	203	5	204	4	205
1 1	101	3	102	1	103	4	104	2	105

Print reports - Trials - Data Collection

Data headers

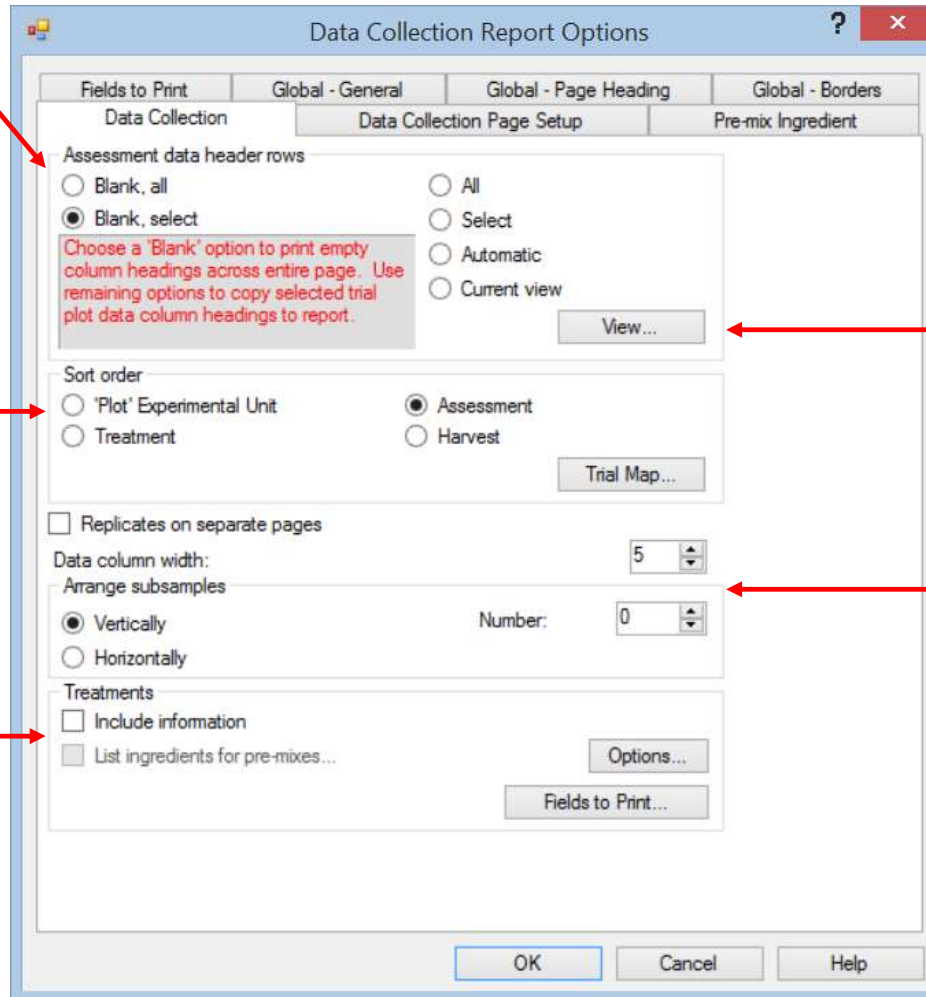
- Blank = place to enter the info
- All lines (SE)
- Selected = Prompt

Sort order

- Defined in Settings

Treatments

- Blind Assessment
- Active ingredients



The dialog box 'Data Collection Report Options' has tabs for 'Fields to Print', 'Global - General', 'Global - Page Heading', and 'Global - Borders'. The 'Fields to Print' tab is active, showing sub-tabs for 'Data Collection', 'Data Collection Page Setup', and 'Pre-mix Ingredient'. Under 'Data Collection', there are sections for 'Assessment data header rows' (with radio buttons for 'Blank, all', 'Blank, select', 'All', 'Select', 'Automatic', and 'Current view'), 'Sort order' (with radio buttons for 'Plot' Experimental Unit, Treatment, Assessment, and Harvest), 'Replicates on separate pages' (checkbox), 'Data column width' (spinner set to 5), 'Arrange subsamples' (radio buttons for 'Vertically' and 'Horizontally', with a 'Number' spinner set to 0), and 'Treatments' (checkboxes for 'Include information' and 'List ingredients for pre-mixes...'). Buttons for 'View...', 'Trial Map...', 'Options...', and 'Fields to Print...' are present. At the bottom are 'OK', 'Cancel', and 'Help' buttons.

View

More on Plot data view

Subsamples

More on Subsamples

Print reports - Trials - Data Collection

Print Preview

Page 1 of 2

Aug-16-2014 (G-A07_Fung)

Gylling Data Management, Inc.

An assessment of the efficacy of TUB and other fungicides for the control of Septoria

Trial ID: G-A07_Fung Location: Gembloux Trial Year: 2014
 Protocol ID: G-A07_Fung Investigator: Your Name
 Project ID: Study Director: R.E. Ceardh Sponsor Contact:

Pest Type				
Pest Code				
Pest Scientific Name				
Pest Name				
Crop Code				
BBCN Scale				
Crop Scientific Name				
Crop Name				
Crop Variety				
Description				
Part Rated				
Rating Date				
Rating Type				
Rating Unit				
Sample Size, Unit				
Collection Basis, Unit				
Reporting Basis, Unit				
Number of Subsamples				
Crop Stage Majority				
Crop Stage Minimum/Maximum				
Crop Stage Scale				
Crop Density, Unit				
Pest Stage Majority				
Pest Stage Minimum/Maximum				
Pest Density, Unit				
Footnote Number				
Assessed By				
SE Name				
SE Description				
Rating Timing				
Days After First/Last Applic.				
Tri-Eval Interval				
Plant-Eval Interval				
Days After Emergence				
ARM Action Codes				
Sort Order for View				
Number of Decimals				
Plot				
	101			
	102			
	103			
	104			

Data Collection Report Options

Fields to Print: Global - General | Global - Page Heading | Global - Borders

Data Collection | Data Collection Page Setup | Pre-mix Ingredient

Assessment data header rows

☒ Blank, all ☐ All

☐ Blank, select ☐ Select

☐ Automatic ☐ Current view

Choose a 'Blank' option to print empty column headings across entire page. Use remaining options to copy selected trial plot data column headings to report.

View...

Sort order

☐ Plot Experimental Unit ☒ Assessment

☐ Treatment ☐ Harvest

Trial Map...

☐ Replicates on separate pages

Data column width: 5

Arrange subsamples

☒ Vertically ☐ Horizontally

Number: 0

Treatments

☐ Include information

☐ List ingredients for pre-mixes...

Options...

Fields to Print...

OK Cancel Help

Print reports - Trials - Data Collection

Specify assessment column numbers to include in report

2 4 8-12 18 20-22 24

OK Cancel Help

Aug-17-2014 (G-A17 Fung)

Gylling Data Manager

An assessment of the efficacy of TUB and other fungicides for the co

Trial ID: G-A17 Fung Location: Gembloux Trial Year: 2014
 Protocol ID: G-A17_Fung Investigator: Your Name
 Project ID: Study Director: R.E. Ceardh
 Sponsor Contact:

Pest Code	Pest Name	Crop Name	Crop Variety	Description	Part Rated	Rating Date	Reporting Basis, Unit	Crop Stage Majority	Crop Stage Minimum/Maximum	Crop Stage Scale	Pest Stage Majority	Trt No.	Treatment Name	Plot
												3	Tub	101
												1	Untreated Check	102
												4	Tilt 250	103
												2	Tub	104
												5	Mico 60 Fungol	105
												2	Tub	201
												3	Tub	202
												5	Mico 60 Fungol	203
												4	Tilt 250	204

Data Collection Report Options

Fields to Print Global - General Global - Page Heading Global - Borders

Data Collection Data Collection Page Setup Pre-mix Ingredient

Assessment data header rows

☐ Blank, all ☒ Blank, select

Choose a 'Blank' option to print empty column headings across entire page. Use remaining options to copy selected trial plot data column headings to report.

Sort order

☒ Plot Experimental Unit ☐ Assessment ☐ Treatment ☐ Harvest

Replicates on separate pages

Data column width: 5

Arrange subsamples

☒ Vertically ☐ Horizontally

Number: 0

Treatments

☒ Include information ☐ List ingredients for pre-mixes

Options... Fields to Print...

OK Cancel Help

Assessment data - View

- Assessment Data View options control how plot subsamples and data columns display on the Assessment Data editor
- Right-Click on the Assessment Data editor or Properties panel on right

ARM 10.2015.0 (GDMdef) - G-All7_Fung Trial

File Edit Format Tools Table Utilities Window Graph Add-Ins Help

Navigation Bar

ARM

- Header
- Treatments
- Site Description
- General Trial
- Objectives/Conclusions
- Contacts
- Crop Description
- Pest Description
- Site and Design
- Maintenance
- Soil
- Moisture
- Application
- Crop Stage at Appl.
- Pest Stage at Appl.
- Appl. Equipment
- Treatment Appl. Comments
- Notes
- Deviations
- Protocol Comments
- Assessment Data**
- Trial Map
- Schedule Tasks
- Calendar
- Comments
- Attachments
- Settings
- Field Map Layout
- Summary Across Trials
- Tasks
- Master Calendar
- Study List

Assessment Data - Line 1

Column Number	1	2	3
Pest Type			D / Disease
Pest Code			SEPTTR
Pest Scientific Name			Mycosphaerella
Pest Name			Speckled leaf bl
Crop Code	TRZAW	TRZAW	TRZAW
BRCN Scale	UGER	UGER	UGER
Crop Scientific Name	Triticum		
Crop Name	Winter w		
Part Rated	LEAF		
Rating Date	Jul-15-20		
Rating Type	PHYGEN		
Rating Unit	%		
Sample Size, Unit			
Reporting Basis, Unit			
Number of Subsamples	1		
Crop Stage Majority			
Crop Stage Minimum/Maximum			
Crop Stage Scale			

Sub Rep Blk Col Plot Tot

1	1	1	1	101	3	0
1	1	1	2	102	1	0
1	1	1	3	103	4	0
1	1	1	4	104	2	0
1	1	1	5	105	5	0
1	2	2	1	201	2	0
1	2	2	2	202	3	0
1	2	2	3	203	5	0
1	2	2	4	204	4	0
1	2	2	5	205	1	0
1	3	3	1	301	3	0
1	3	3	2	302	2	0
1	3	3	3	303	1	0
1	3	3	4	304	5	0
1	3	3	5	305	4	0
1	4	4	1	401	1	0
1	4	4	2	402	3	0

Restricted View (Row)

Properties

Assessment View

View Options...

Ignore Match

Refresh

Hidden Fields

Hidden Flow

Views

Original

All fields

Hidden fields with information

Hide empty fields

Default - All visible

Default - Bst fields visible

Default - Fertilizer fields visible

Default - Non pest fields visible

Default - Tablet Data Entry

Tools

AOV Means Table

Box/Whisker

Assessment Map

Assessment Comment

Barcode

GPS

Damaged Image

Attach

Remove

Reimage

Display by treatment

Sort by (Ascending)...

Sort by (Descending)...

Transform...

Recalc Transformations

Convert Yield...

Assessment Data Column Tools...

Push Trial Rating Shell to Excel

Pull Data from Excel Rating Shell

Show Validation List...

Show Tooltip

Remove Cells



Assessment data - View

View Subsamples

- By columns
- All
- Plot means

Match

- Filter

Prompt	Match	Sort	Visible
Pest Type	(All)		☒
Pest Code	(All)		☒
Pest Scientific Name	(All)		☒
Pest Name	(All)		☒
Crop Code	(All)		☒
BBCH Scale	(All)		☒
Crop Scientific Name	(All)		☒
Crop Name	(All)		☒

Sort

- Put 1 for first key, etc...
- Tabs based on first key

View

- Ability to Save and re-load view

Assessment data – View - Match

Assessment Data - Line 19			
Column Number	5	8	9
Pest Type	W ☐ Weed	W ☐ Weed	W ☐ Weed
Pest Code	ALOMY ☐	ALOMY ☐	ALOMY ☐
Pest Scientific Name	Alopecurus myo ☐	Alopecurus myo ☐	Alopecurus myo ☐
Pest Name	Blackgrass ☐	Blackgrass ☐	Blackgrass ☐
Crop Code	BRSNW ☐	BRSNW ☐	
BBCH Scale	BRAP ☐	BRAP ☐	
Crop Scientific Name	Brassica napus ☐	Brassica napus ☐	
Crop Name	Winter rape ☐	Winter rape ☐	
Part Rated	PLAGRA ☐ P	PLAGRA ☐ P	
Rating Date	Apr-11-2014 ☐	Apr-24-2014 ☐	
Rating Type	GROUND ☐	GROUND ☐	
Rating Unit	% ☐	% ☐	
Number of Subsamples	1 ☐	1 ☐	
Crop Stage Majority	39 ☐	54 ☐	
Crop Stage Minimum/Maximum	☐ ☐	53 ☐ 55 ☐	
Crop Stage Scale	BBCH ☐	BBCH ☐	
Pest Stage Majority	28/29 ☐	38 ☐	
Pest Density, Unit	7.25 PERCEN ☐	10.5 PERCEN ☐	
Footnote Number			
Assessed By	techn 1 ☐	techn 1 ☐	
Rating Timing	☐	2 ☐	
Days After First/Last Applic.	0 ☐ 0 ☐	13 ☐ 13 ☐	
Trt-Eval Interval	0 DA-A ☐	13 DA-A ☐	
Plant-Eval Interval	222 DP-1 ☐	235 DP-1 ☐	
ARM Action Codes	P ES ☐	P ES ☐	
Number of Decimals	2 ☐	2 ☐	

ARM Options

General Study List File Display Editor Toolbar Send To Treatment View Site Description View

Assessment Data View Data Collector GDMdef Studies

View subsamples

By column

Data origin

Both

Entry status

Both

Cursor order

By column across 'Plot'

Columns: 1

Use color bands

By 'Plot' experimental unit

Plain lines: 1 Colored lines: 0

☒ Display using decimals accuracy
☐ Restore assessment data sort order
☐ Auto-hide Properties panel
☐ Display treatment information for current treatment
☒ Automatically recalculate after edits
☐ Display Treatment Name as 'Tit'
☐ Do not ask whether to delete entire SE column group
☐ Ask whether to add new data column into existing SE group
☒ Beep at end of subsample
☒ Automatically rename images

Save as Default

Clear Default

Load View

Save View

Reset

OK

Cancel

Help

Prompt Match Sort Visible

Pest Type (All) ☒

Pest Code (All) ☒

Pest Scientific Name (All) ☒

Pest Name (All) ☒

Crop Code (All) ☒

BBCH Scale (All) ☒

Crop Scientific Name (All) ☒

Crop Name (All) ☒

Clear

Clear

Show All

Hide All

☐ Ignore match
☐ Display sort as tabs

Assessment data – View - Sort

Assessment Data - Line 5						
Column Number	9	11	13	15	17	19
Pest Type	W 	W 	W 	W 	W 	W 
Pest Code	ALOMY 	BROST 	TRZAX 	ALOMY 	BROST 	TRZAX 
Pest Scientific Name	Alopecurus myo 	Bromus sterilis 	Triticum aestivus 	Alopecurus myo 	Bromus sterilis 	Triticum aestivus 
Pest Name	Blackgrass 	Poverty brome 	Soft wheat 	Blackgrass 	Poverty brome 	Soft wheat 
Crop Code	BRSNW 	BRSNW 	BRSNW 	BRSNW 	BRSNW 	BRSNW 
BBCH Scale	BRAP 	BRAP 	BRAP 	BRAP 	BRAP 	BRAP 
Crop Scientific Name	Brassica napus 	Brassica napus 	Brassica napus 	Brassica napus 	Brassica napus 	Brassica napus 
Crop Name	Winter rape 	Winter rape 	Winter rape 	Winter rape 	Winter rape 	Winter rape 
Part Rated	PLAGRA  P	PLAGRA  P	PLAGRA  P	PLAGRA  P	PLAGRA  P	PLAGRA  P
Rating Date	Apr-24-2014 	Apr-24-2014 	Apr-24-2014 	May-10-2014 	May-10-2014 	May-10-2014 
Rating Type	CONTRO 	CONTRO 	CONTRO 	CO 		
Rating Unit	% 	% 	% 	% 		
Number of Subsamples	1	1	1	1		
Crop Stage Majority	54 	54 	54 	52 		
Crop Stage Minimum/Maximum	53  55 	53  55 	53  55 			
Crop Stage Scale	BBCH 	BBCH 	BBCH 	BB 		
Pest Stage Majority	38 	31 	36 	65 		
Pest Density, Unit	10.5 PERCEN 	14.5 PERCEN 	24.0 PERCEN 	40 		
Footnote Number						
Assessed By	techn 1 	techn 1 	techn 1 	ted 		
Rating Timing	2 	2 	2 	3 		
Days After First/Last Applic.	13 13 	13 13 	13 13 	29 		
Tit-Eval Interval	13 DA-A 	13 DA-A 	13 DA-A 	29 		
Plant-Eval Interval	235 DP-1 	235 DP-1 	235 DP-1 	25 		
ARM Action Codes	P 	P 	P 	P 		
Number of Decimals	2	2	2	2		

	Sub	Rep	Blk	Col	Plot	Tit	9	11	13	
	1	1	1	1	101	4	75.00	70.00	75.00	98.
	1	1	1	2	102	2	60.00	55.00	65.00	85.
	1	1	1	3	103	5	70.00	60.00	70.00	95.
	1	1	1	4	104	3	65.00	65.00	75.00	95.
	1	1	1	5	105	1	0.00	0.00	0.00	0.0

ARM Options

General Study List File Display Editor Toolbar Send To Treatment View Site Description View

Assessment Data View Data Collector GOMdef Studies

By column

Data origin

Both

Entry status

Both

Cursor order

By column across 'Plot'

Columns: 1

Use color bands

By 'Plot' experimental unit

Plain lines: 1 Colored lines: 0

Prompt

Crop Name

(All)

Match

Sort

Visible

Crop Variety

(All)

Description

(All)

Part Rated

(All)

Rating Date

(All)

2

Rating Time

(All)

Rating Type

(All)

1

Rating Unit

(All)

Clear

Clear

Show All

Hide All

☒ Display using decimals accuracy
 ☐ Restore assessment data sort order
 ☐ Auto-hide Properties panel
 ☐ Display treatment information for current treatment
 ☒ Automatically recalculate after edits
 ☐ Display Treatment Name as 'Tit'
 ☐ Do not ask whether to delete entire SE column group
 ☐ Ask whether to add new data column into existing SE group
 ☒ Beep at end of subsample
 ☒ Automatically rename images

Prompt

Save as Default

Clear Default

Load View

Save View

Reset

OK

Cancel

Help



Assessment data – View – Sort – Display Sort as Tabs

Assessment Data - Line 1									
Column Number	9					11			
Pest Type	Weed					Weed			
Pest Code	ALOMY					BROST			
Pest Scientific Name	Alopecurus myo					Bromus sterilis			
Pest Name	Blackgrass					Poverty brone			
Crop Code	BRSNW					BRSNW			
BBCH Scale	BRAP					BRAP			
Crop Scientific Name	Brassica napus					Brassica napus			
Crop Name	Winter rape					Winter rape			
Part Rated	PLAGRA					PLAGRA			
Rating Date	Apr-24-2014					Apr-24-2014			
Rating Type	CONTRO					CONTRO			
Rating Unit	%					%			
Number of Subsamples	1					1			
Crop Stage Majority	54					54			
Crop Stage Minimum/Maximum	53 55					53 55			
Crop Stage Scale	BBCH					BBCH			
Pest Stage Majority	38					31			
Pest Density, Unit	10.5 PERCEN					14.5 PERCEN			
Footnote Number									
Assessed By	techn 1					techn 1			
Rating Timing	2					2			
Days After First/Last Applic.	13 13					13 13			
Tit-Eval Interval	13 DA-A					13 DA-A			
Plant-Eval Interval	235 DP-1					235 DP-1			
ARM Action Codes	P					P			

	Sub	Rep	Blk	Col	Plot	Tit	9	11
	1	1	1	1	101	4	75.00	70.00
	1	1	1	2	102	2	60.00	55.00
	1	1	1	3	103	5	70.00	60.00
	1	1	1	4	104	3	65.00	65.00
	1	1	1	5	105	1	0.00	0.00
	1	2	2	1	201	5	65.00	55.00
	1	2	2	2	202	4	70.00	65.00
	1	2	2	3	203	3	70.00	60.00
	1	2	2	4	204	1	0.00	0.00
	1	2	2	5	205	2	55.00	50.00
	1	3	3	1	301	3	65.00	60.00
	1	3	3	2	302	2	60.00	60.00

<

CONTRO COUPLA GROUND PHYGEN

ARM Options

General Study List File Display Editor Toolbar Send To Treatment View Site Description View

Assessment Data View Data Collector GDMdef Studies

View subsamples
By column

Data origin
Both

Entry status
Both

Cursor order
By column across 'Plot'

Columns: 1

Use color bands
By 'Plot' experimental unit

Plain lines: 1 Colored lines: 0

☒ Display using decimals accuracy
☐ Restore assessment data sort order
☐ Auto-hide Properties panel
☐ Display treatment information for current treatment
☒ Automatically recalculate after edits
☐ Display Treatment Name as 'Tit'
☐ Do not ask whether to delete entire SE column group
☐ Ask whether to add new data column into existing SE group
☒ Bend at end of subsample
☒ Automatically rename images

Prompt Match Sort Visible

Crop Name	All		☒
Crop Variety	(All)		☐
Description	(All)		☐
Part Rated	(All)		☒
Rating Date	(All)		☒
Rating Timing	(All)		☐
Rating Type	(All)	1	☒
Rating Unit	(All)		☒

Clear Clear Show All Hide All

☐ Ignore match
☒ Display sort as tabs

Save as Default Clear Default Load View Save View

Reset OK Cancel Help

Print reports - Trials – Summary – Assessment data summary

The image shows a screenshot of the 'Assessment Data Summary Report Options' dialog box. The dialog has several tabs: 'Pre-mix Ingredient', 'Fields to Print', 'Global - General', 'Global - Page Heading', and 'Global - Borders'. The 'Global - General' tab is selected. Within this tab, there are three sub-sections: 'Assessment Data Summary', 'General Summary', and 'General Summary Page Setup'. The 'Assessment Data Summary' section contains options for 'Missing data estimates' (Yates, Average), 'Assessment data columns' (All, Select, Automatic, Current view), and a 'View...' button. The 'General Summary' section contains options for 'Assessment data header rows' (List, Automatic, Current view), 'List validation comments' (None), and several checkboxes for 'List comments in table format', 'Include transformation equations', 'Include footnotes', 'Include column number', and 'Print data headers once per column'. The 'General Summary Page Setup' section contains checkboxes for 'De-Transform means', 'Force number of decimals accuracy to:', 'Treatments' (Drop blank line between, List ingredients for pre-mixes..., List validation comments, Identify when selected treatments are summarized), 'Apply automatic transformations or treatment exclusions to data columns that violate assumptions of AOV', and 'Print selected replicates'. There are also buttons for 'Options...', 'Fields To Print...', and 'Prompt'. At the bottom, there is a tip: 'Tip: Open a study to enable all report options, since some report options are study-dependent.' and buttons for 'OK', 'Cancel', and 'Help'.

Method for missing data

Assessment columns

Way to present Treatments

Data Headers

Miscellaneous

Print reports - Trials – Summary – Assessment data summary



Aug-17-2014 (G-AI7 Fung)

ARM 2015.0 Assessment Data Summary Page 1 of 1

Gylling Data Management, Inc.

An assessment of the efficacy of TUB and other fungicides for the control of Septoria Diseases in winter wheat

Trial ID: G-AI7 Fung Location: Gembloux Trial Year: 2014
 Protocol ID: G-AI7_Fung Investigator: Your Name
 Project ID: Study Director: R.E. Search
 Sponsor Contact:

Pest Type	D Disease	D Disease	D Disease	D Disease
Pest Code	SEPTTR	SEPTTR	SEPTTR	SEPTTR
Pest Scientific Name	Mycosphaerella	Mycosphaerella	Mycosphaerella	Mycosphaerella
Pest Name	Speckled leaf	Speckled leaf	Speckled leaf	Speckled leaf
Crop Code	TRZAW	TRZAW	TRZAW	TRZAW
BBCH Scale	BCER	BCER	BCER	BCER
Crop Scientific Name	Triticum aestivum	Triticum aestivum	Triticum aestivum	Triticum aestivum
Crop Name	Winter wheat	Winter wheat	Winter wheat	Winter wheat
Part Rated	LEAF3 P	LEAF3 P	LEAF3 P	LEAF3 P
Rating Date	May-13-2014	May-13-2014	Jun-18-2014	Jun-18-2014
Rating Type	PESSEV	PESSEV	PESSEV	PESSEV
Rating Unit	%	%UNCK	%	%UNCK
Number of Subsamples	10	1	10	1
Crop Stage Majority	32	32	59	59
Crop Stage Scale	BBCH	BBCH	BBCH	BBCH
Pest Density Unit	4.42PERCENT	4.42PERCENT	8.25PERCENT	8.25PERCENT
Footnote Number				
Rating Timing	1	1	2	2
Days After First/Last Applic.	28 28	28 28	64 15	64 15
Tri-Eval Interval	28 DA-A	28 DA-A	15 DA-B	15 DA-B
Plant-Eval Interval	225 DP-1	225 DP-1	261 DP-1	261 DP-1
ARM Action Codes		TAB[3]	AL	TAB[5]
Number of Decimals	2	2	2	2
Tri Treatment	Rate Appl			
No. Name	Rate Unit Code Plot			
		3	4	5
1 Untreated Check	ABC 102	5.00	0.00	7.53
	205	4.10	0.00	9.79
	303	4.60	0.00	4.34
	401	4.50	0.00	11.33
Mean =		4.55	0.00	0.90
2 Tub	0.5 l/ha ABC 104	1.30	74.00	1.82
	201	0.80	80.49	0.94
	302	3.90	15.22	2.77
	403	1.70	62.22	1.79
Mean =		1.93	57.98	0.36
3 Tub	1 l/ha ABC 101	2.30	54.00	1.28
	202	1.10	73.17	1.69
	301	2.20	52.17	1.41
	402	0.50	88.89	1.47
Mean =		1.53	67.06	0.31
4 Tit 250	0.5 l/ha ABC 103	1.40	72.00	0.71
	204	1.70	58.54	2.27
	305	1.80	60.87	2.13
	404	2.40	46.67	4.07
Mean =		1.83	59.52	0.42

Assessment Data Summary Report Options

Pre-mix Ingredient Fields to Print Global - General Global - Page Heading Global - Borders

Assessment Data Summary General Summary General Summary Page Setup

Missing data estimates

☒ Yales

☐ Average

Assessment data columns

☐ All

☒ Select

☐ Automatic

☐ Current view

☒ Paginate to keep together each sort section

View...

Assessment data header rows

List

☐ All

☒ Automatic

☐ Select

☐ Current view

List validation comments

Comment 2

☒ List comments in table format

☒ Include transformation equations

☒ Include footnotes

☒ Include column number

☒ Print data headers once per column

☐ De-Transform means

Force number of decimals accuracy to:

Treatments

☒ Drop blank line between

☐ List ingredients for pre-mixes

☐ List validation comments

☐ Identify when selected treatments are summarized

Fields To Print...

Options...

Apply automatic transformations or treatment exclusions to data columns that violate assumptions of ANOVA

☐ Print selected replicates

Tip: Open a study to enable all report options, since some report options are study-dependent.

OK Cancel Help

Print reports - Trials – Summary – AOV Means Table

Main tests

- LSD
- Duncan
- Student-Newman-Keuls

Display min Max, Std deviation

Various Statistical tests

AOV Means Table Report Options

Pre-mix Ingredient Fields to Print Global - General Global - Page Heading Global - Borders

AOV Means Table Report Options General Summary General Summary Page Setup

Mean comparison test

Test: Student-Newman-Keuls

Significance level: 5%

☒ Use FADV complete error for split-plot trials

☒ Only when significant AOV treatment P(F)

Symbol indicating no significant difference between treatment means: s

Adjusted treatment mean

☐ Use adjusted mean as primary mean

☐ Calculate adjusted mean only when justified by AOV

Mean descriptions

☐ Minimum and maximum

☐ Standard deviation

☐ Adjusted mean (when available)

Arranged

☐ Beside mean ☒ Under mean

Descriptive statistics

☒ LSD (or HSD if Tukey's)

☒ Coefficient of variation (CV)

☒ Standard deviation

☐ Grand mean

☒ Bartlett's homogeneity of variance

☐ Friedman's method for randomized blocks

☒ Skewness

☒ Kurtosis

☐ Post-hoc power analysis

Mean sorting

☒ None

☐ Ascending

☐ Descending

☐ Print one sorted mean column per page

Calculated %s

Reported decimals

☐ 0 (95%)

☒ 1 (95.3%)

☐ 2 (95.37%)

☐ Print untreated value from original data column for calculated % relative (Abbott) values

Analysis method

☒ Traditional AOV

☐ Least square estimation

AOV Table

☐ None

☒ Brief

☐ Full

☐ Report both adjusted and unadjusted terms

☒ Exclude untreated treatment(s) from analysis

OK Cancel Help

Exclude the
Untreated
treatments defined
in Settings

Print reports - Trials – Summary – AOV Means Table

ARM - SPECIAL CONFIRMATION

Apply automatic data correction transformation 'Log(n+1)' to data column 7 to correct skewness?
 Apply automatic data correction transformation 'Arcsine square root percent' to data column 8 to correct skewness/kurtosis?

Should ARM automatically apply the suggested correction?

Select 'Yes' to apply the correction for column 7. ARM will prompt individually for other columns.

Select 'Yes to All' to apply the corrections for all columns.

Select 'No' to not apply the correction for column 7. ARM will prompt individually for other columns.

Select 'No to All' if you do not wish to apply any corrections.

Yes Yes To All No No To All Help

ARM

Exclude treatment 5 from data column 6 to correct skewness?
 Exclude treatment 5 from data column 11 to correct skewness/kurtosis?

Should ARM automatically exclude the suggested treatment?

Select 'Yes' to exclude the suggested treatment for column 6. ARM will prompt individually for other columns.

Select 'Yes to All' to exclude suggested treatments for all columns.

Select 'No' to not exclude the suggested treatment for column 6. ARM will prompt individually for other columns.

Select 'No to All' if you do not wish to exclude any treatments.

Yes Yes To All No No To All Help

Report Messages

Print Messages for G-Alt7_Fung

Warnings

Could not calculate LSD (% mean diff) for columns 1,2 because error mean square = 0.

Information

Applied automatic data correction transformation 'Log(n+1)' to data column 7 to correct skewness.

Applied automatic data correction transformation 'Arcsine square root percent' to data column 8 to correct skewness/kurtosis.

Excluded treatment 5 from data column 6 to correct skewness.

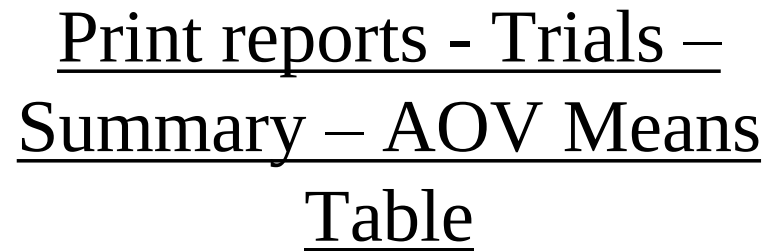
Excluded treatment 5 from data column 11 to correct skewness/kurtosis.

Errors: None

Display
 Information

OK Print Clipboard Help

- ARM indicates if data need to be transformed to correct skewness/kurtosis.



Gylling Data Management, Inc.

An assessment of the efficacy of TUB and other fungicides for the control of Septoria Diseases in winter wheat

Trial ID: G-AIF_Fung Location: Genibus: Trial Year: 2014
Protocol ID: G-AIF_Fung Investigator: Your Name
Project ID: Study Director: R.E. Carson
Sponsor Contact:

Test Type	D Disease		D Disease		D Disease		D Disease	
Pest Code	SEPTTR		SEPTTR		SEPTTR		SEPTTR	
Pest Scientific Name	Mycoaphanella		Mycoaphanella		Mycoaphanella		Mycoaphanella	
Pest Name	Specabilis		Specabilis		Specabilis		Specabilis	
Crop Code	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW
BCH Scale	BCR	BCR	BCR	BCR	BCR	BCR	BCR	BCR
Crop Scientific Name	Triticum aestiv.	Triticum aestiv.	Triticum aestiv.	Triticum aestiv.	Triticum aestiv.	Triticum aestiv.	Triticum aestiv.	Triticum aestiv.
Crop Name	Winter wheat	Winter wheat	Winter wheat	Winter wheat	Winter wheat	Winter wheat	Winter wheat	Winter wheat
Part Rate	LEAF C	PLANT C	LEAF3 P	LEAF3 P	LEAF3 P	LEAF3 P	LEAF3 P	LEAF3 P
Rating Date	Jun-15-2014	Jun-15-2014	May-13-2014	May-13-2014	Jun-18-2014	Jun-18-2014	Jun-18-2014	Jun-18-2014
Rating Type	PHYGEN	VIGOR	PESSEV	PESSEV	PESSEV	PESSEV	PESSEV	PESSEV
Rating Unit	%	%	%	% UNCK	%	% UNCK	%	% UNCK
Number of Subsamples	1	10	32	32	59	59	59	59
Crop Stage Majority	1	3	3	3	5	5	5	5
Crop Stage Scale	BBCH	BBCH	BBCH	BBCH	BBCH	BBCH	BBCH	BBCH
Pest Density - Unit	4.42PERCENT	4.42PERCENT	8.25PERCENT	8.25PERCENT	6.25PERCENT	6.25PERCENT	6.25PERCENT	6.25PERCENT
PlotSide Number								
Rating Time	7 DA-C	7 DA-C	28 DA-A	28 DA-A	15 DA-B	15 DA-B	15 DA-B	15 DA-B
Days After First Last Applic.	81 Z	91 Z	28 DP-I	28 DP-I	261 DP-I	261 DP-I	261 DP-I	261 DP-I
Tri-Eval Interval	7 DA-C	7 DA-C	28 DA-A	28 DA-A	15 DA-B	15 DA-B	15 DA-B	15 DA-B
Plant-Eval Interval	285 DP-I	285 DP-I	225 DP-I	225 DP-I	261 DP-I	261 DP-I	261 DP-I	261 DP-I
ARM Action Codes			TAS(3)	TAS(3)	AL	AL	ET3 TABS	ET3 TABS
Number of Decimals			2	2	2	2	2	2
Tri Treatment No.	1	2	3	4	5	6	7	8
Treatment Name	Rate Unit	Code						
1 Untreated Check	ABC	0.0	100.0	0.00	8.25	7.00		
2 Trt	0.5 lbs ABC	0.0	100.0	1.93	57.95	0.36	71.65	
3 Trt	1 lme ABC	0.0	100.0	1.53	67.06	0.51	80.07	
4 Trt	0.5 lme ABC	0.0	100.0	1.83	59.52	0.42	70.60	
5 Hilo 50 Fungil	1.5 lms AB 1.25 lms C	0.0	100.0	3.79	39.92	0.34	71.49	
LSD P=05				1.472	33.227	0.243	19.863	
Standard Deviation	0.00	0.00	0.920	20.774	0.152	11.479		
CV	0.0	0.0	48.91	37.02	42.73	16.49		
F Statistics X2	0.0	0.0	4.6367	3.029	2.8467	2.8467		
P(Bartlett's X2)			0.209	0.387	0.054	0.277		
(Bartlett's)			0.4102	-0.6129	1.0648	-1.2727		
Kurtosis			0.1243	0.3026	0.9899	1.0997		
Replicate P	0.000	0.000	0.620	0.829	1.150	9.271		
Replicate Prob(P)	0.0000	0.0000	0.6193	0.8282	0.3858	0.0000		
Treatment R	0.000	0.000	1.382	1.382	0.816	0.816		
Treatment Prob(P)	1.0000	1.0000	0.3987	0.3555	0.7928	0.0000		

Means followed by same letter do not significantly differ ($P > 0.5$, Student-Newman-Keuls). Mean comparisons performed only when ADV treatment P is significant at mean comparison OSL. Unreated treatments 1 excluded from analysis. Could not calculate LSO % mean diff for columns 1,2 because error mean square = 0.

AOV Means Table Report Options

Pre-mix Ingredient Fields to Print Global - General Global - Page Heading Global - Borders

AOV Means Table Report Options General Summary Mean sorting General Summary Page Setup

Mean comparison test

Test: Student-Newman-Keuls

Significance level: 5%

☒ Use FAOV complete error for split-plot trials

☒ Only when significant AOV treatment P(F)

Symbol indicating no significant difference between treatment means: a

Adjusted treatment mean

☐ Use adjusted mean as primary mean

☐ Calculate adjusted mean only when justified by AOV

Mean descriptions

☐ Minimum and maximum

☐ Standard deviation

☐ Adjusted mean (when available)

Arranged

☐ Beside mean ☒ Under mean

Descriptive statistics

☒ LSD (or HSD if Tukey's)

☒ Coefficient of variation (CV)

☒ Standard deviation

☐ Grand mean

☒ Bartlett's homogeneity of variance

☐ Friedman's method for randomized blocks

☒ Skewness

☒ Kurtosis

☐ Post-hoc power analysis

Mean sorting

☒ None

☐ Ascending

☐ Descending

☐ Print one sorted mean column per page

Calculated %s

Reported decimals

☐ 0 (95%)

☒ 1 (95.3%)

☐ 2 (95.37%)

☐ Print untreated value from original data column for calculated %s relative (Abbott) values

Analysis method

☒ Traditional AOV

☐ Least square estimation

AOV Table

☐ None

☒ Brief

☐ Full

☐ Report both adjusted and unadjusted terms

☒ Exclude untreated treatment(s) from analysis

OK Cancel Help



Print reports - Trials – Summary – AOV Means Table

Print Preview

Page 1

of 1

Aug-17-2014 (G-A07 Fung)

ARM 20

Gylling Data Management, Inc.

An assessment of the efficacy of TUB and other fungicides for the control of Septoria Disease

Trial ID: G-A07 Fung Location: Gembloux Trial Year: 2014
Protocol ID: G-A07_Fung Investigator: Your Name
Project ID: Study Director: R.E. Cecher
Sponsor Contact:

Pest Type	D Disease	D Disease	D Disease	D Disease
Pest Code	SEPTTR	SEPTTR	SEPTTR	SEPTTR
Pest Scientific Name	Mycoasphaerella	Mycoasphaerella	Mycoasphaerella	Mycoasphaerella
Pest Name	Speckled leaf	Speckled leaf	Speckled leaf	Speckled leaf
Crop Code	TRZAW	TRZAW	TRZAW	TRZAW
BBCH Scale	BCER	BCER	BCER	BCER
Crop Scientific Name	Triticum aestivum	Triticum aestivum	Triticum aestivum	Triticum aestivum
Crop Name	Winter wheat	Winter wheat	Winter wheat	Winter wheat
Part Rated	LEAF3 P	LEAF3 P	LEAF3 P	LEAF3 P
Rating Date	May-13-2014	May-13-2014	Jun-18-2014	Jun-18-2014
Rating Type	PESSEV	PESSEV	PESSEV	PESSEV
Rating Unit	%	%	%	%
Number of Subsamples	10	10	10	10
Crop Stage Majority	32	32	59	59
Crop Stage Scale	BBCH	BBCH	BBCH	BBCH
Pest Density Unit	4.42PERCENT	4.42PERCENT	8.25PERCENT	8.25PERCENT
Footnote Number				
Rating Timing	1	1	2	2
Days After First/Last Applic.	28 28	28 28	64 15	64 15
Tri-Eval Interval	28 DA-A	28 DA-A	15 DA-B	15 DA-B
Plant-Eval Interval	225 DP-1	225 DP-1	261 DP-1	261 DP-1
ARM Action Codes		TAB[3]	AL	ETS TAB[5]
Number of Decimals	2	2	2	2
Tri Treatment	Rate Appl			
No. Name	Rate Unit	Code		
1 Untreated Check	ABC			
		3	4	5
		4.55	0.00	8.25
		0.00 Min	0.00 Min	0.00 Min
		12.00 Max	0.00 Max	15.00 Max
		3.86 StDev	0.00 StDev	3.93 StDev
2 Tub	0.5 l/ha	ABC		
		1.93 a	57.98 a	0.38 a
		0.00 Min	15.22 Min	0.00 Min
		12.00 Max	80.49 Max	7.00 Max
		2.80 StDev	29.50 StDev	0.29 StDev
3 Tub	1 l/ha	ABC		
		1.53 a	67.06 a	0.31 a
		0.00 Min	52.17 Min	0.00 Min
		6.00 Max	88.89 Max	8.00 Max
		1.75 StDev	17.36 StDev	0.27 StDev
4 Tri 250	0.5 l/ha	ABC		
		1.83 a	59.52 a	0.42 a
		0.00 Min	46.67 Min	0.00 Min
		10.00 Max	72.00 Max	6.20 Max
		2.41 StDev	10.39 StDev	0.32 StDev
5 Mico 60 Fungol	1.5 l/ha	AB		
	1.25 l/ha	C		
		2.70 a	39.92 a	0.34 a
		0.00 Min	17.07 Min	0.00 Min
		10.00 Max	52.17 Max	6.20 Max
		2.80 StDev	15.59 StDev	0.28 StDev

AOV Means Table Report Options

Pre-mix Ingredient Fields to Print Global - General Global - Page Heading Global - Borders

AOV Means Table Report Options

General Summary General Summary Page Setup

Mean comparison test

Test: Student-Newman-Keuls

Significance level: 5%

☒ Use FAOV complete error for split plot trials

☒ Only when significant AOV treatment P(F)

Symbol indicating no significant difference between treatment means: a

Adjusted treatment mean

☐ Use adjusted mean as primary mean

☐ Calculate adjusted mean only when justified by AOV

Mean descriptions

☒ Minimum and maximum

☒ Standard deviation

☐ Adjusted mean (when available)

Arranged

☐ Beside mean ☒ Under mean

Descriptive statistics

☒ LSD (or HSD if Tukey's)

☒ Coefficient of variation (CV)

☒ Standard deviation

☐ Grand mean

☒ Bartlett's homogeneity of variance

☐ Friedman's method for randomized blocks

☐ Skewness

☐ Kurtosis

☐ Post-hoc power analysis

Mean sorting

☒ None

☐ Ascending

☐ Descending

☐ Print one sorted mean column per page

Calculated %s

Reported decimals

☐ 0 (95%)

☒ 1 (95.3%)

☐ 2 (95.37%)

☐ Print untreated value from original data column for calculated % relative (Abbott) values

Analysis method

☒ Traditional AOV

☐ Least square estimation

AOV Table

☐ None

☒ Brief

☐ Full

☐ Report both adjusted and unadjusted terms

☒ Exclude untreated treatment(s) from analysis

OK Cancel Help

Print reports - Trials – Summary – AOV Means Table

Print Preview

Page 1 of 1

Aug-18-2014 (G-AIT Fung)

ARM 2015.0 AOV Means Table Page 1 of 1

Gylling Data Management, Inc.

An assessment of the efficacy of TUB and other fungicides for the control of Septoria Diseases in winter wheat

Trial ID: G-AIT Fung Location: Gembloux Trial Year: 2014
Protocol ID: G-AIT Fung Investigator: Your Name
Project ID: Study Director: R.E. Cech
Sponsor Contact:

Pest Type	D Disease
Pest Code	SEPTTR
Pest Scientific Name	Myzopharella
Pest Name	Speckled leaf
Crop Code	TRZAW
BBCH Scale	BCER
Crop Scientific Name	Triticum aestiv
Crop Name	Winter wheat
Part Rated	LEAF3 9
Rating Date	May-13-2014
Rating Type	PESSEV
Rating Unit	%
Number of Subsamples	10
Crop Stage Majority	32
Crop Stage Scale	BBCH
Pest Density Unit	4.42PERCENT
Postnote Number	
Rating Timing	1
Days After First/Last Applic.	28 28
Trit-Eval Interval	28 DAA
Plant-Eval Interval	225 DP-1
ARM Action Codes	
Number of Decimals	2

Trit Treatment	Rate Appl	Rate Unit	Code	
1 Untreated Check	ABC			4.55
3 TUB	1 vha	ABC		1.53 a
4 Trit 250	0.5 vha	ABC		1.83 a
2 TUB	0.5 vha	ABC		1.93 a
5 Mico 60 Fungol	1.5 vha	AB		2.70 a
LSD P= .05				1.472
Standard Deviation				0.920
CV				46.17
Replicate F				0.620
Replicate Prob(F)				0.6193
Treatment F				1.183
Treatment Prob(F)				0.3697
Crop Stage Majority				32 = BCER

AOV Means Table Report Options

Pre-mix Ingredient Fields to Print Global - General Global - Page Heading Global - Borders

General Summary General Summary Page Setup

Mean comparison test

Test: Student-Newman-Keuls

Significance level: 5%

☒ Use FAOV complete error for split plot tests

☒ Only when significant AOV treatment P(F)

Symbol indicating no significant difference between treatment means: a

Adjusted treatment mean

☐ Use adjusted mean as primary mean

☐ Calculate adjusted mean only when justified by AOV

Mean descriptions

☐ Minimum and maximum

☐ Standard deviation

☐ Adjusted mean (when available)

Arranged

☐ Beside mean ☒ Under mean

Descriptive statistics

☒ LSD (or HSD if Tukey's)

☒ Coefficient of variation (CV)

☒ Standard deviation

☐ Grand mean

☐ Bartlett's homogeneity of variance

☐ Friedman's method for randomized blocks

☐ Skewness

☐ Kurtosis

☐ Post-hoc power analysis

Mean sorting

☐ None

☒ Ascending

☐ Descending

☐ Print one sorted mean column per page

Calculated %s

Reported decimals

☐ 0 (95%)

☒ 1 (95.3%)

☐ 2 (95.37%)

☐ Print untreated value from original data column for calculated % relative (Abbott) values

Analysis method

☒ Traditional AOV

☐ Least square estimation

AOV Table

☐ None

☒ Brief

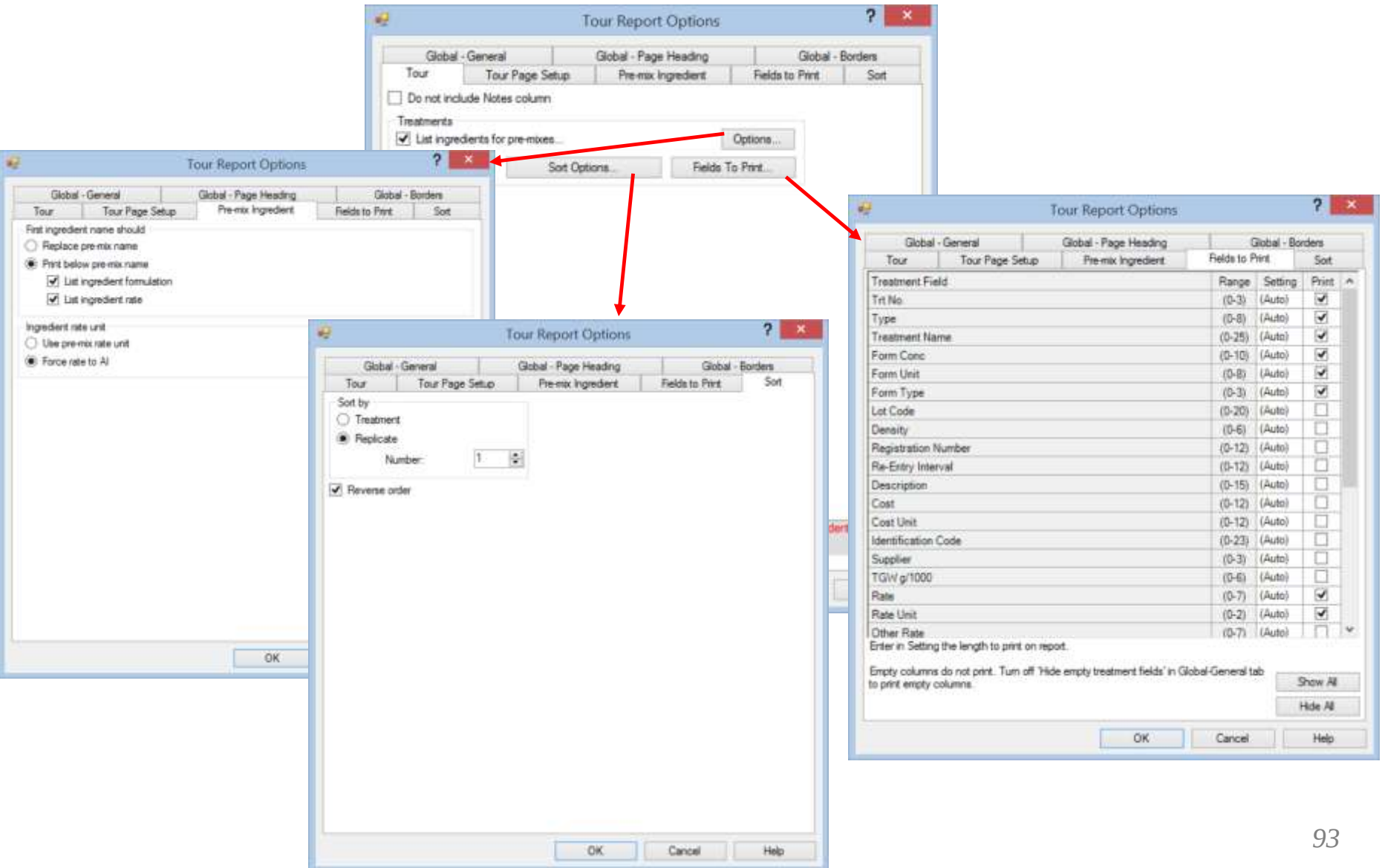
☐ Full

☐ Report both adjusted and unadjusted terms

☒ Exclude untreated treatment(s) from analysis

OK Cancel Help

Print reports - Trials – Tour Report



The 'Tour Report Options' dialog box is shown in four overlapping instances, illustrating the configuration steps for printing a Tour Report.

Top Window (Global - General tab):

- ☐ Do not include Notes column
- Treatments:
 - ☒ List ingredients for pre-mixes...
- Options... (button)

Middle-Left Window (Global - General tab):

- First ingredient name should:
 - ☐ Replace pre-mix name
 - ☒ Print below pre-mix name
 - ☒ List ingredient formulation
 - ☒ List ingredient rate
- Ingredient rate unit:
 - ☐ Use pre-mix rate unit
 - ☒ Force rate to A/
- OK (button)

Middle-Left Window (Global - Sort tab):

- Sort by:
 - ☐ Treatment
 - ☒ Replicate
 - Number: 1
- ☒ Reverse order
- OK (button), Cancel (button), Help (button)

Bottom-Right Window (Global - Fields to Print tab):

Treatment Field	Range	Setting	Print
Tri No.	(0-3)	(Auto)	☒
Type	(0-8)	(Auto)	☒
Treatment Name	(0-25)	(Auto)	☒
Form Conc	(0-10)	(Auto)	☒
Form Unit	(0-8)	(Auto)	☒
Form Type	(0-3)	(Auto)	☒
Lot Code	(0-20)	(Auto)	☐
Density	(0-6)	(Auto)	☐
Registration Number	(0-12)	(Auto)	☐
Re-Entry Interval	(0-12)	(Auto)	☐
Description	(0-15)	(Auto)	☐
Cost	(0-12)	(Auto)	☐
Cost Unit	(0-12)	(Auto)	☐
Identification Code	(0-23)	(Auto)	☐
Supplier	(0-3)	(Auto)	☐
TGIV g/1000	(0-6)	(Auto)	☐
Rate	(0-7)	(Auto)	☒
Rate Unit	(0-2)	(Auto)	☒
Other Rate	(0-7)	(Auto)	☐

Enter in Setting the length to print on report.

Empty columns do not print. Turn off 'Hide empty treatment fields' in Global-General tab to print empty columns.

Show All (button), Hide All (button), OK (button), Cancel (button), Help (button)

Print reports - Trials – Tour Report

Print Preview

Page 1 of 1

100%

Pages Outline

Page 1 of 1 (1)

Aug-18-2014 (G-A17 Fung)

ARM 2015.0 Tour Report Page 1 of 1

Gylling Data Management, Inc.

An assessment of the efficacy of TUB and other fungicides for the control of Septoria Diseases in winter wheat

Trial ID: G-A17 Fung Location: Gembloux Trial Year: 2014
 Protocol ID: G-A17_Fung Investigator: Your Name
 Project ID: Study Director: R.E. Cech
 Sponsor Contact:

Tit No.	Treatment Type	Form Name	Form Conc	Form Unit	Form Type	Rate	Appl Unit	Code	Rep 1	Rep 2	Rep 3	Rep 4	Notes
5	FUNG Mico 60		600	G/L	EC	1.5	l/ha	AB	105	203	304	405	
	FUNG Fungol		200	G/L	SC	1.25	l/ha	C					
2	FUNG Tub		250	G/L	EC	0.5	l/ha	ABC	104	201	302	403	
4	FUNG Tit 250		250	G/L	EC	0.5	l/ha	ABC	103	204	305	404	
1	CHK	Untreated Check						ABC	102	205	303	401	
3	FUNG Tub		250	G/L	EC	1	l/ha	ABC	101	202	301	402	

Reverse Sort Order: Replicate 1

Print reports - Trials – Labels

Print Reports

Available Reports

- Labels
 - Container
 - Container 1/Tit. Line
 - Brief Container 1/Tit. Line
 - Brief Cont. Spray Volume, 1/tit line
 - Brief Cont., Material ID, SpVol, 1/tit line
 - Experimental Cont. 1/Line
 - Container 1/Tit. Line + Title**
 - Container 1/Tit. Line + Appl
 - Container 1/Treatment
 - Container 1/Treatment + Title
 - Cont. Multi-Row Tit. 4"x2"
 - Cont. Multi-Row Lg. Plot #
 - Cont. Multi-Row Lg. #, File Name
 - Cont. Multi-Row Lg. #, Mix Size
 - Cont. Multi-Row Lg. #, Mix Details 99
 - Cont. Multi-Row Lg. #, Mix, Rate, Stz
 - Cont. Weight Audit (1 wide line)
 - Container Export (1 wide line)
 - Plot
 - Plot # Spray Randomization (1/Tit.)
 - Large Plot # Spray Rand. (1/Tit.)
 - Plot 1/plot
 - Brief Plot 1/plot
 - Plot Soil Core Tube
 - AgCan Tyvec Plot 6"x3"
 - AgCan Tear-off Plot 6"x3"
 - AgCan Tear-off Plot (harvest order)
 - AgCan Brief Plot
 - Large Plot # Stake Label
 - Large Plot # Stake/no Trial ID
 - Large Bold Plot # Stake Label
 - Large Plot # Sample Label
 - Large Plot # Sample, bar code
 - Large Plot # Sample+Product, bar code
 - Plot Product Quantity
 - Plot Seed Tray (in tit. order)
 - Large Plot # Tit., Mix (Ridgetown)
 - Seed Packet
 - Seed Packet (in tit. order)
 - Seed Packet (detailed, 1/Plot * Sub)

Report Set

Add -> Remove

Container 1/Tit. Line
Container 1/Tit. Line + Title

Clear Set

☐ Confidential ☐ Logo Global Report Settings... Save Set...

Available sets

- More sets...
- Previous sets...
- Container Export Labels
- Container Multi-Row 4x2
- Container Weight Audit Rep
- Protocol Defaults
- Protocol Summary
- Trial Defaults

Next... Cancel Help Batch...

☐ Study List ☐ Prompted

Report Options **Report Preview**

Label sheet description

Columns per sheet: 3

Rows per sheet: 10

Label height: 2.49cm

Label width: 7.01cm

☒ Tractor feed labels

Margins

Before left label column: 0.0cm

Above top label: 1.3cm

Application code

☐ Print selected

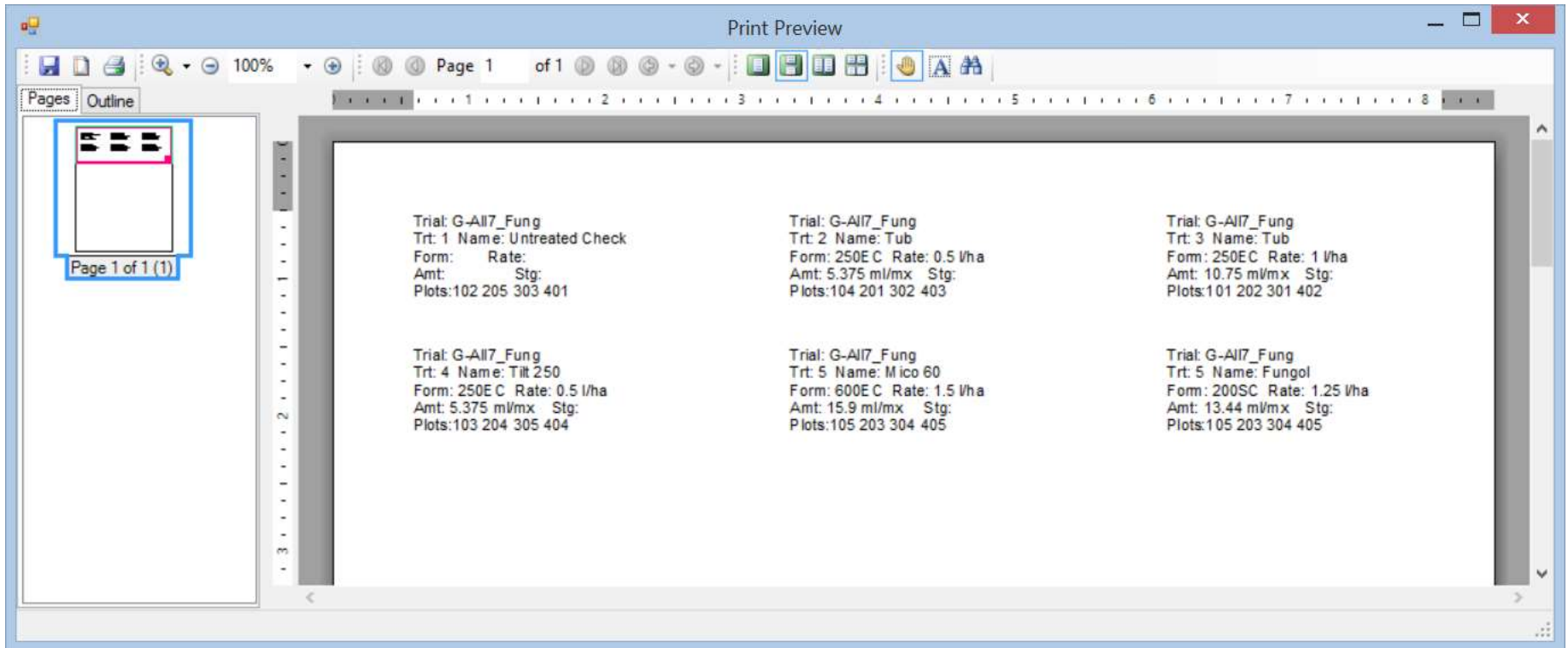
Save New Default

Use default

- A4 Laser
- Avery 3451
- Avery 4013 Tractor Feed
- Avery 5160 (Laser)
- Avery 5161 (Laser)
- Avery 5163 (Laser)
- Avery 5197 (Laser)
- Avery L6103
- Avery L6105

Reset All Report Options More Options... Help

Print reports - Trials – Labels



How to get Help in ARM?

- Context-sensitive Help for dialog boxes
 button or F1
- For overviews of features and help with specific tasks in the study definition
 button or F5
- Tutorials or description of new features
 - Menu [Help/How to Topics](#)
- GDM web site at <http://www.gdmdata.com/>
 - FAQ – Customer support – News and Scheduled Training
- Local experts available at <http://www.gdmdata.com/About%20Us/Representatives/>
 - Check their web sites for FAQs and customer support



Distribution and use

> 8000 Licenses in more than 80 countries

- Arysta LifeScience *
- Adama
- BASF *
- Bayer CropScience *
- Chemtura Agrosolutions
- Dow AgroSciences *
- FMC Ag Products Group
- Gowan Company
- Helena Chemical Company *
- Monsanto Agricultural Group*
- Novozymes Biologicals
- Nufarm
- Sumitomo Chemical Company and Valent *
- Syngenta *
- The Mosaic Company
- The Scotts Company
- United Phosphorus (UPI/UPL)
- Winfield Solutions
- Zelam



Benefits of using ARM

- For the trial technician, ARM is much more than an organized data storage
- ARM supports planning and management of trials:
 - Printout of all tasks to be performed in all trials for the next days
 - Spray sheets
 - Product calculation
 - For which plots, by application code
 - Sample orders
 - Plot or bottle labels
 - Data capture tables
 - Trial tour sheets



Benefits of using ARM - Continued

- Different languages supported for Menus and Screens:
 - English
 - German
 - French
 - Spanish
 - Italian
 - Portuguese
 - Polish
 - Japanese
 - Korean
- Data can be entered in one language, and read or printed in another
- Integrated graphics package including Box-Whisker charts
- Large lists manageable through master database
- Entry support in many fields: for example application technology, addresses, ...



Benefits of using ARM - Continued

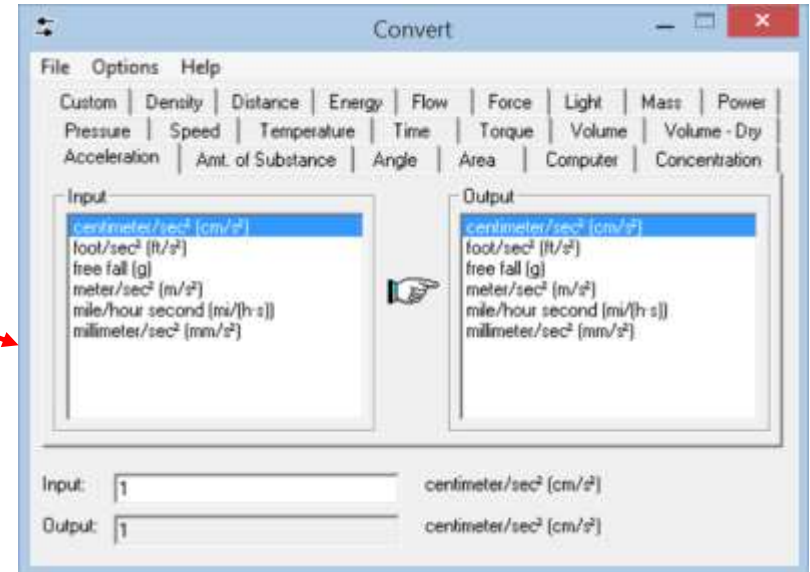
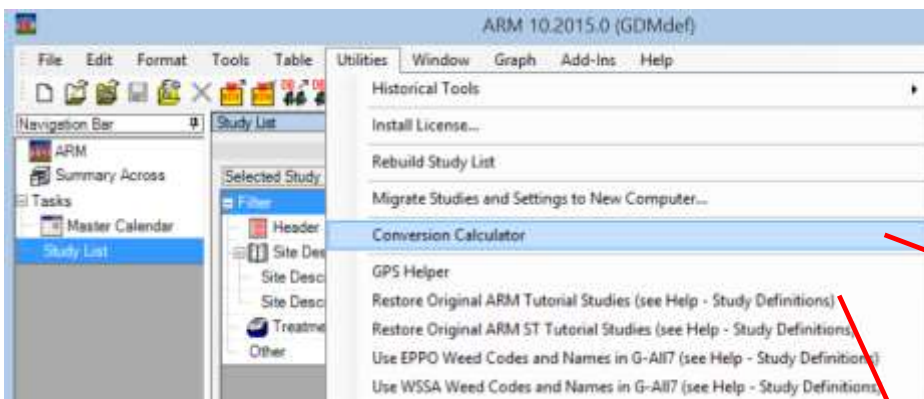
- Integrated statistics package
 - analysis of variance
 - several mean separation tests
 - dose response analysis
 - correlation analysis
- Integrated functions for data transformation on nonhomogeneous data (Log, square root, Arcsin)
- Several integrated calculation formulas
 - yield area, relative yields
 - Henderson & Tilton, Abbott
 - area under disease development curve
 - user-defined calculations



Benefits of using ARM - Continued

- Export and import data to Excel®
- Printing to Excel® and Word®
- ARM graphs can be exported to PowerPoint®
- Automatic backup of data
- Data exchange via .EDE (Electronic Data Exchange)
- Safe and easy use of standard evaluation files (.SE)
- Customizable reports
- Easily enter subsamples
- Report sets of several report modules can be combined and saved for later use in other trials
- Extensive help including context sensitive help

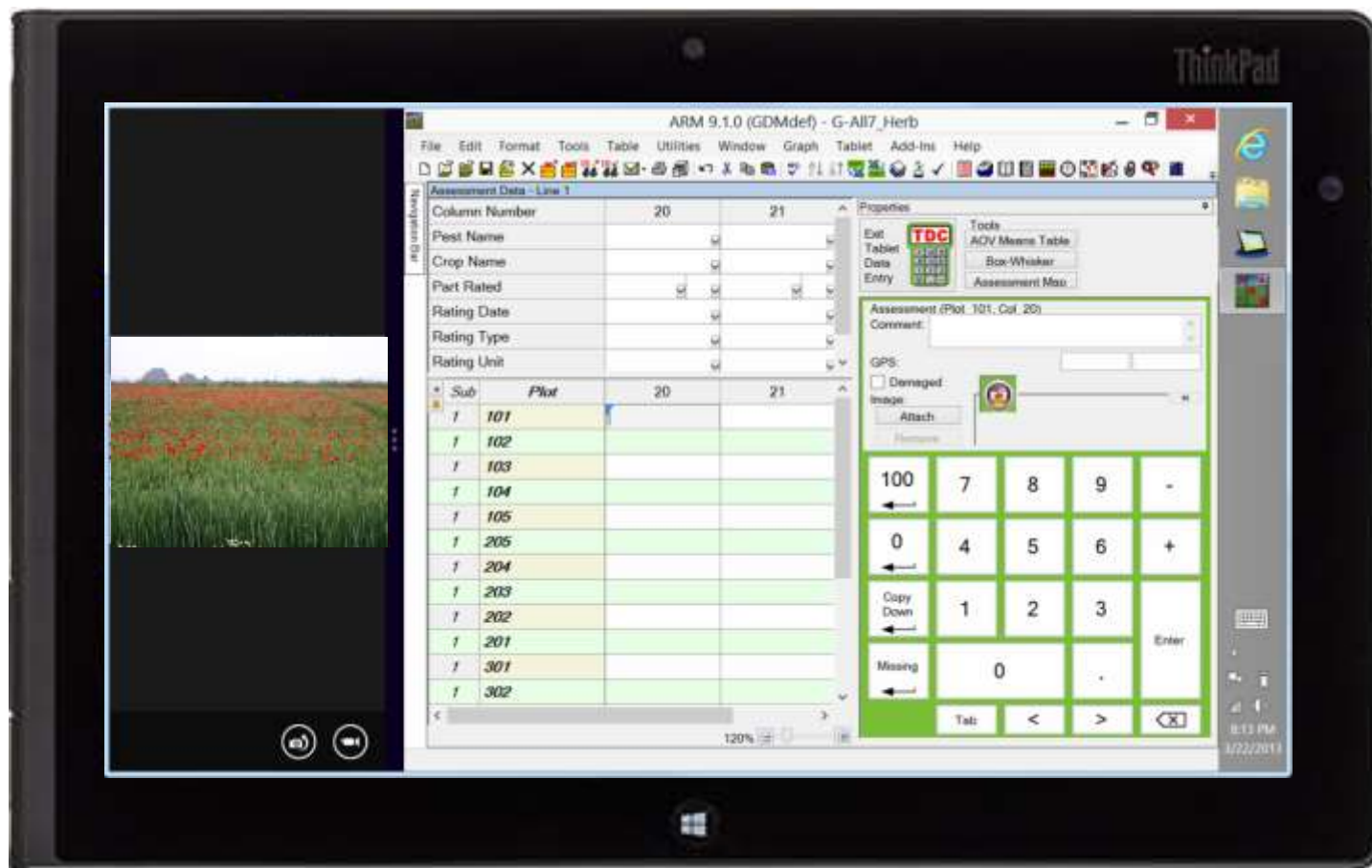
Utilities



- Convert any unit using conversion calculator. Visible tabs customizable.
- Restore Original ARM Tutorial studies into *My Documents\ARM Data\ARMTutor* (for example after a training or after practicing with this Tutorial)

Selected	Study ID	Parent Protocol	Project ID	Other Trial ID	Study Type	Discipline	Status	Title
☒	ATD_06HERB-05		ATD_07HERB-05		Protocol			Herbicide efficacy of HERB_2203 with a range of broad-leaved weeds
☐	ATD_06HERB-05_02	ATD_06HERB-05	ATD_07HERB-05	DDM06-49H02	Trial	F	F	Herbicide efficacy of HERB_2203 with a range of broad-leaved weeds
☐	ATD_06HERB-05_03	ATD_06HERB-05	ATD_07HERB-05	DDM06-49H03	Trial	F	F	Herbicide efficacy of HERB_2203 with a range of broad-leaved weeds
☐	ATD_06HERB-05_04	ATD_06HERB-05	ATD_07HERB-05	DDM06-49H04	Trial	F	F	Herbicide efficacy of HERB_2203 with a range of broad-leaved weeds
☐	ATD_06HERB-05_05	ATD_06HERB-05	ATD_07HERB-05	DDM06-49H05	Trial	F	F	Herbicide efficacy of HERB_2203 with a range of broad-leaved weeds
☐	ATD_06HERB-05_06	ATD_06HERB-05	ATD_07HERB-05	DDM06-49H06	Trial	F	F	Herbicide efficacy of HERB_2203 with a range of broad-leaved weeds
☐	AUDPC7				Trial	F	F	AUDPC Transformation/Graph Example Trial
☐	BRO-05-01		BROC		Protocol	SEED		Screening - Broccoli - 2014 - Central area
☐	BRO-05-01_01	BRO-05-01			Trial	SEED	F	Screening - Broccoli - 2014 - Central area
☐	CORN_Yield_05_01_0	CORN_Yield_05_0			Trial	SEED	F	Corn North - Yield trials for Product positioning
☐	CORN_Yield_06_01		CORN_Yield_06_0		Protocol	SEED		Corn North - Yield trials for Product positioning
☐	G-Ail7_Fung	G-Ail7_Fung			Trial	F	F	An assessment of the efficacy of TUB and other fungicides
☐	G-Ail7_Herb	G-Ail7_Herb			Trial	H	F	Determination of the efficacy and lowest effective dose rate
☐	G-Ail7_Herb		G-Ail7_Herb		Protocol		F	Determination of the efficacy and lowest effective dose rate
☐	G-Ail7_Ina	G-Ail7_Ina			Trial	I	I	Efficacy of some new insecticide formulations against Ca
☐	G-Ail7_Ina				Protocol		F	Efficacy of some new insecticide formulations against Ca
☐	G-Ail7_Ina1	G-Ail7_Ina			Trial	I	I	Efficacy of some new insecticide formulations against Ca
☐	G-Seed7_1	G-Seed7_1			Trial	SEED	F	Corn North West - Yield trials for Product positioning
☐	G-Seed7_1		G-Seed7_1		Protocol	SEED		Corn North West - Yield trials for Product positioning
☐	G-Seed7_2	G-Seed7_2			Trial	SEED	F	Screening - Broccoli - 2014 - Emilia-Romagna area

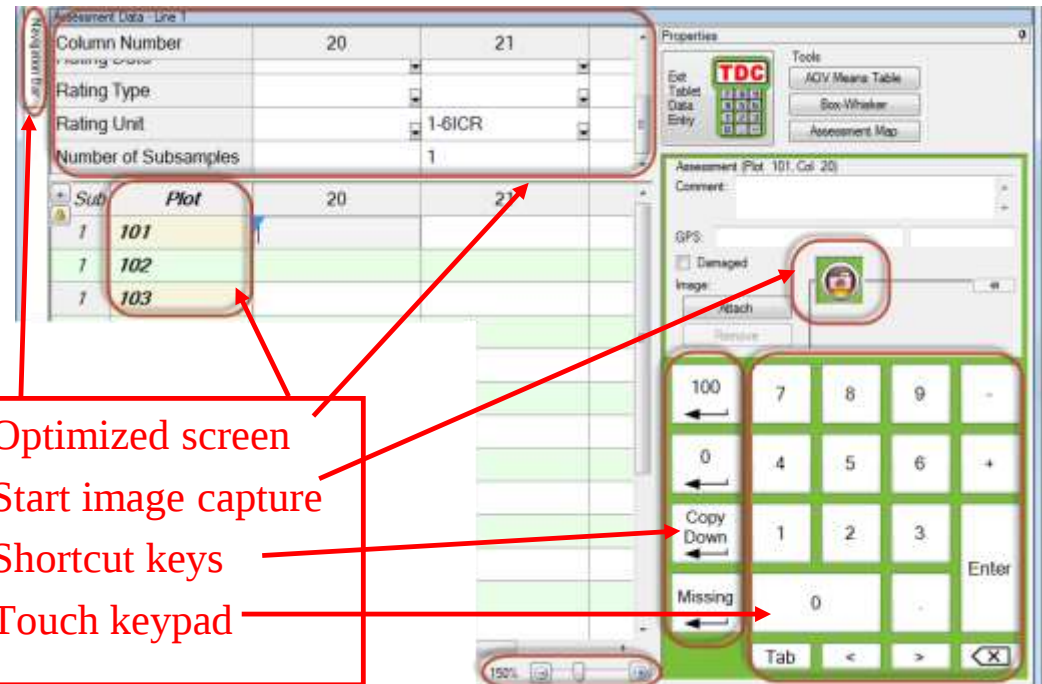
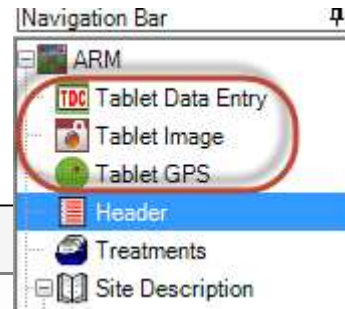
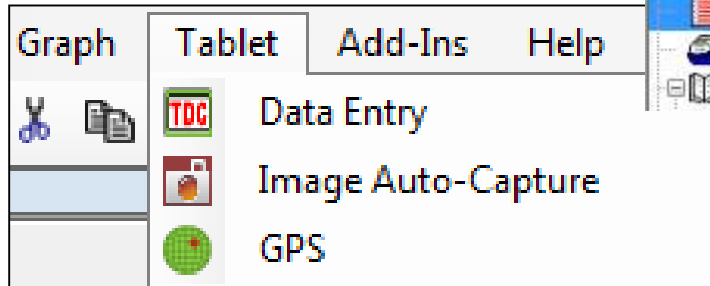
Appendix A - TDC (Tablet Data Collector)



Windows 10 Professional tablet such as HarvestMaster Mesa2
ARM software + your ARM license installed on tablet
SD backup card and USB transfer cable
GDM adds *unique features* available *only* in Tablet Data Collector

Unique Features in a Licensed Tablet Data Collector (TDC)

Tablet Data Entry
Tablet Image Capture
Tablet GPS



Optimized screen
Start image capture
Shortcut keys
Touch keypad

For more information
about TDC, visit the
GDM website [here](#)



Appendix B – ARM ST

- ST is used to summarize ARM trials across locations and years. It is an Add-in and cannot run without ARM
- Criteria tells ST what to summarize
- Summaries can be incorporated in reports
- Same interface and statistics as ARM.

Navigation Bar

Assessment Data - Line 27

Column Number	1	2
Pest Type	* ☐ *	* ☐ *
Pest Code	S@	S@
Crop Code	@	@
BBCH Scale	*	*
Description	*	*
Part Rated	* ☐ *	* ☐ *
Rating Date	*	*
Rating Type	CONTRO	CONTRO
Rating Unit	@	@
Sample Size, Unit	* *	* *
Footnote Number	*	*
Days After First/Last Applic.	* *	* *
Trt-Eval Interval	10-30	31-60
Plant-Eval Interval	*	*
ARM Action Codes	*	*
Number of Decimals	2	2

Print ST Summary

	1	St-Exam2	St-Exam3	St-Exam4	2	St-Exam2	St-Exam3	St-Exam4
Summary properties	Every	☐ Exclude	☐ Exclude	☐ Exclude	Every	☐ Exclude	☐ Exclude	☐ Exclude
2 Pest Code	SETVI	SETVI	SETVI	SETVI	SOLNI	SOLNI	SOLNI	SOLNI
5 Crop Code	ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD
14 Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
15 Rating Unit	%	%	%	%	%	%	%	%
34 Trt-Eval Interval	10-30	10 DA-B	15 DA-B	16 DA-B	10-30	10 DA-B	15 DA-B	16 DA-B
38 ARM Action Codes	*				*			
Trt Treatment	Rate							
No. Name	Rate Unit	Mean*	Count		Mean*	Count		
1 Super Stomp	1.5 l/ha	91.83 a (12)		91.75 a 91.75 a 92.00 a	89.58 a (12)		90.25 a 89.50 a 89.00 a	
		87.00 Min			79.00 Min			
		96.00 Max			98.00 Max			
		3.41 StDev			6.68 StDev			
2 Stamper	4 l/ha	94.83 a (12)		94.25 a 95.00 a 95.25 a	96.58 a (12)		96.75 a 95.50 a 97.50 a	
C50220	0.5 l/ha	90.00 Min			91.00 Min			
		100.00 Max			100.00 Max			
		3.07 StDev			2.68 StDev			
3 Sure Kill	2 l/ha	86.67 b (12)		85.25 a 86.25 a 88.50 a	67.67 b (12)		53.75 a 74.50 a 74.75 a	
C50220	1 l/ha	80.00 Min			15.00 Min			
		93.00 Max			95.00 Max			
		4.54 StDev			20.18 StDev			

Appendix C – Supported Languages

English



File Edit Format Tools Table Utilities Window Graph Add-Ins Help

Assessment Data - Line 1

Column Number	3	4 (Calculated)	5
Pest Type	D Disease	D Disease	D Disease
Pest Code	SEPTTR	SEPTTR	SEPTTR
Pest Scientific Name	Mycosphaerella	Mycosphaerella	Mycosphaerella
Pest Name	Speckled leaf bl	Speckled leaf bl	Speckled leaf bl
Crop Code	TRZAW	TRZAW	TRZAW
BBCH Scale	BCER	BCER	BCER
Crop Scientific Name	Triticum aestivum	Triticum aestivum	Triticum aestivum
Crop Name	Winter wheat	Winter wheat	Winter wheat
Crop Variety			
Part Rated	LEAF3 P	LEAF3 P	LEAF3 P
Rating Date	May-13-2014	May-13-2014	Jun-18-2014
Rating Type	PESSEV	PESSEV	PESSEV
Rating Unit	%	%UNCK	%
Sample Size, Unit	10 LEA	10 LEA	10 LEA
Number of Subsamples	10	1	10
Crop Stage Majority	32	32	59
Crop Stage Scale	BBCH	BBCH	BBCH
Pest Density, Unit	4.42 PERCENT	4.42 PERCENT	8.25 PERCENT
Assessed By			
Days After First/Last Applic.	28 28	28 28	64 15

Sub Rep Blk Col Plot = Tr 3 4 (Calculated) 5

ARM 10.2015.0 (GDMdef) - G-A17_Fung Trial

File Edit Format Tools Table Utilities Window Graph Add-Ins Help

Site Description

General Trial | Objectives/Conclusions | Contacts | Crop Description | Pest Description | Site and Design | Maintenance | Soil | Moisture

Crop Description

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

Crop 1: Triticum aestivum (winter)

Variety: BBCH Scale:

Description:

Seed Size, Unit:

Seed Shape:

Planting Rate, Unit:

Depth, Unit:

Row Spacing, Unit:

Spacing Within Row, Unit:

Planting Density, Unit:

Soil Temperature, Unit:

Soil Moisture:

Seed Bed:

Perennial Age, Unit:

Nursery Date:

Planting Date:

Planting Method: drilled

Planting Equipment:

Emergence Date:

Harvest Date:

Harvested Width, Unit:

Harvested Length, Unit:

Harvest Equipment:

% Standard Moisture:

Moisture Meter:

Aug-18-2014 (G-A17 Fung)

ARM 2015.0

Gylling Data Management, Inc.

An assessment of the efficacy of TUB and other fungicides for the control of Septoria Diseases

Trial ID: G-A17 Fung Location: Gembloux Trial Year: 2014
Protocol ID: G-A17_Fung Investigator: Your Name
Project ID: Study Director: R.E. Ceardh Sponsor Contact:

Pest Type	D Disease	D Disease	D Disease	D Disease
Pest Code	SEPTTR	SEPTTR	SEPTTR	SEPTTR
Pest Scientific Name	Mycosphaerella	Mycosphaerella	Mycosphaerella	Mycosphaerella
Pest Name	Speckled leaf	Speckled leaf	Speckled leaf	Speckled leaf
Crop Code	TRZAW	TRZAW	TRZAW	TRZAW
BBCH Scale	BCER	BCER	BCER	BCER
Crop Scientific Name	Triticum aestivum	Triticum aestivum	Triticum aestivum	Triticum aestivum
Crop Name	Winter wheat	Winter wheat	Winter wheat	Winter wheat
Part Rated	LEAF3 P	LEAF3 P	LEAF3 P	LEAF3 P
Rating Date	May-13-2014	May-13-2014	Jun-18-2014	Jun-18-2014
Rating Type	PESSEV	PESSEV	PESSEV	PESSEV
Rating Unit	%	%UNCK	%	%UNCK
Sample Size, Unit	10 LEAF	10 LEAF	10 LEAF	10 LEAF
Number of Subsamples	10	1	10	1
Crop Stage Majority	32	32	59	59
Crop Stage Scale	BBCH	BBCH	BBCH	BBCH
Pest Density, Unit	4.42PERCENT	4.42PERCENT	8.25PERCENT	8.25PERCENT
Days After First/Last Applic.	28 28	28 28	64 15	64 15
Tri-Eval Interval	28 DA-A	28 DA-A	15 DA-B	15 DA-B
Plant-Eval Interval	225 DP-1	225 DP-1	261 DP-1	261 DP-1
ARM Action Codes	TAB[3]	TAB[3]	AA	ETS TAB[5]
Number of Decimals	2	2	2	2
Tri Treatment	Rate Appl			
No. Name	Rate Unit Code			
1 Untreated Check	ABC	4.55	0.00	8.25
3 Tub	1 lha ABC	1.53 a	67.06 a	5.40 a
4 Tilt 250	0.5 lha ABC	1.83 a	59.52 a	7.03 a
2 Tub	0.5 lha ABC	1.93 a	57.98 a	6.23 a
5 Mico 60 Fungoi	1.5 lha AB 1.25 lha C	2.70 a	39.92 a	5.79 a
LSD P= .05		1.472	33.227	3.964
Standard Deviation		0.920	20.774	2.478
CV		48.17	37.02	40.52
Replicate F		0.620	0.529	1.201
Replicate Prob(F)		0.6193	0.6733	0.3637
Treatment F		1.183	1.227	0.318
Treatment Prob(F)		0.3697	0.3555	0.8120
Crop Stage Majority		32 = BCER	59 = BCER	
ARM Action Codes		ETS = Excluded treatment 5	TAB[3] = Abbott (% of Untreated)	TAB[5] = Abbott (% of Untreated)



Espanol

ARM 10.2015.0 (Espanol Def) - G-AII7

Archivo Editar Formato Herramientas Tabla Utilidades Ventana gráfico A

Barra de Navegación

Datos de Evaluaciones - Línea 1

Número de columna	3	4 (Calculado)	5
Tipo de Plaga	D ☐ Disease	D ☐ Disease	D ☐ Disease
Código de Plaga	SEPTTR	SEPTTR	SEPTTR
Nombre científico de la Plaga	Mycosphaerella	Mycosphaerella	Mycosphaerella
Nombre de Plaga	Septorios del trigo	Septorios del trigo	Septorios del trigo
Código Cultivo	TRZAW	TRZAW	TRZAW
Escala BBCH	BCER	BCER	BCER
Nombre científico del Cultivo	Triticum aestivum	Triticum aestivum	Triticum aestivum
Nombre de la Cultivo	Trigo de invierno	Trigo de invierno	Trigo de invierno
Variedad Cultivo			
Parte Evaluada	LEAF3 ☐ P	LEAF3 ☐ P	LEAF3 ☐ P
Fecha Evaluación	May-13-2014	May-13-2014	Jun-18-2014
Tipo Datos Evaluación	PESSEV	PESSEV	PESSEV
Unidad Evaluación	%	%UNCK	%
Tamaño de Muestra, Unidad	10 LEA	10 LEA	10 LEA
Número de Sub-muestras	10	1	10
Mayor parte del estado del Cultivo	32	32	59
Escala Est. Cultivo	BBCH	BBCH	BBCH

Ago-18-2014 (G-AII7 Fung)

ARM 2015.0 Tabla d

Gylling Data Management, Inc.

An assessment of the efficacy of TUB and other fungicides for the control of Septoria Diseases in

ID del Ensayo: G-AII7 Fung Lugar: Gembloux Año de ensayo: 2014
 ID del Protocolo: G-AII7_Fung Investigador: Your Name
 Número del Proyecto: Resp. del Estudio: R.E. Cearch
 Sponsor Contact:

Tipo de Plaga	D Disease	D Disease	D Disease	D Disease
Código de Plaga	SEPTTR	SEPTTR	SEPTTR	SEPTTR
Nombre científico de la Plaga:	Mycosphaerella	Mycosphaerella	Mycosphaerella	Mycosphaerella
Nombre de la Plaga	Septorios del trigo	Septorios del trigo	Septorios del trigo	Septorios del trigo
Código Cultivo	TRZAW	TRZAW	TRZAW	TRZAW
Escala BBCH	BCER	BCER	BCER	BCER
Nombre científico del Cultivo:	Triticum aestivum	Triticum aestivum	Triticum aestivum	Triticum aestivum
Nombre de la Cultivo	Trigo de invierno	Trigo de invierno	Trigo de invierno	Trigo de invierno
Parte Evaluada	LEAF3 P	LEAF3 P	LEAF3 P	LEAF3 P
Fecha Evaluación	May-13-2014	May-13-2014	Jun-18-2014	Jun-18-2014
Tipo Datos Evaluación	PESSEV	PESSEV	PESSEV	PESSEV
Unidad Evaluación	%UNCK	%UNCK	%UNCK	%UNCK
Tamaño de Muestra, Unidad	10 LEAF	10 LEAF	10 LEAF	10 LEAF
Número de Sub-muestras	10	1	10	1
Mayor parte del estado del Cultivo:	32	32	59	59
Escala Est. Cultivo	BBCH	BBCH	BBCH	BBCH
Densidad Plaga, Unidad	4.42PERCENT	4.42PERCENT	8.25PERCENT	8.25PERCENT
Días después de primero/última Aplic.	28 28	28 28	64 15	64 15
Intervalo Eval.-Trat.	28 DA-A	28 DA-A	15 DA-B	15 DA-B
Interv.-Eval.-Siembra	225 DP-1	225 DP-1	261 DP-1	261 DP-1
	TAB(3)	TAB(3)	AA	ETS TAB(5)
	2	2	2	2

ARM 10.2015.0 (Espanol Def) - G-AII7_Fung Ensayo

Archivo Editar Formato Herramientas Tabla Utilidades Ventana gráfico Adicional Ayuda

Barra de Navegación

Descripción del sitio

Ensayo general | Objetivos/Conclusiones | Contacta | Descripción Del Cultivo | Descripción Del Parásito | Sitio y Diseño | Mantenimiento

Descripción del Cultivo

Inserte Cultivo con Shift+F7, Borre Cultivo Actual con Shift+F8

Cultivo 1: Triticum aestivum (winter)

Variedad: Escala de BBCH:

Descripción:

Tamaño de Semillas, de la unidad:

Forma de la semilla:

Dosis de Siembra, Unidad:

Profundidad, Unidad:

Espacio entre Filas, Unidad:

Dist. entre Surcos, Unidad:

Densidad de plantación, de la unidad:

Temperatura Suelo, Unidad:

Humedad Suelo:

Semillero:

Edad de Perenne, Unidad:

Dato vivero:

Fecha de Siembra:

Método de Siembra: drilled

Equipos de Siembra:

Fecha Emergencia:

Fecha De la Cosecha:

Anchura Cosechada, Unidad: M

Longitud Cosechada, Unidad: M

Equipo De la Cosecha:

% De la Humedad Del Estándar:

Metro De la Humedad:

osis	Applic.	Unidad	Código	3	4	5	6
ABC	4.55	0.00	8.25	0.00			
ABC	1.53 a	67.06 a	5.40 a	80.07 a			
ABC	1.83 a	59.52 a	7.03 a	70.60 a			
ABC	1.93 a	57.98 a	6.23 a	71.65 a			
AB	2.70 a	39.92 a	5.79 a	71.49			
C							
	1.472	33.227	3.964	19.662			
	0.920	20.774	2.478	11.479			
	46.17	37.02	40.52	15.49			
	0.620	0.529	1.201	5.271			
	0.6193	0.6733	0.3637	0.0405			
	1.183	1.227	0.318	0.818			
	0.3697	0.3555	0.8120	0.4850			

ARM 10.2015.0 (Français Def) - G-All7_Fung

Fichier Editer Format Outils Tableau Utilitaires Fenêtre Graphique Add-Ins

Données de Notations - Ligne 1

Número Colonne	3	4 (Calculées)	5
Type de Parasite	D ☐ Disease	D ☐ Disease	D ☐ Disease
Code du Parasite	SEPTTR	SEPTTR	SEPTTR
Nom Scientifique du Parasite	Mycosphaerella	Mycosphaerella	Mycosphaerella
Nom du Parasite	Septoriose du blé	Septoriose du blé	Septoriose du blé
Code de Culture	TRZAW	TRZAW	TRZAW
Echelle BBCH	BCER	BCER	BCER
Nom Scientifique Culture	Triticum aestivum	Triticum aestivum	Triticum aestivum
Nom de Culture	Blé d'hiver	Blé d'hiver	Blé d'hiver
Vanité			
Partie Evaluée	LEAF3 ☐ P	LEAF3 ☐ P	LEAF3 ☐ P
Date d'Evaluation	Mai-13-2014	Mai-13-2014	Jui-18-2014
Type d'Evaluation	PESSEV	PESSEV	PESSEV
Unité d'Evaluation	%	%UNCK	%

ARM 10.2015.0 (Français Def) - G-All7_Fung Essai

Fichier Editer Format Outils Tableau Utilitaires Fenêtre Graphique Add-Ins Aide

Description du site

Info. Générales | Objectifs/Conclusions | Contacts | Description Culture | Description Parasite | Emplacement et Dispositif | Entretien | Sol

Description Culture

Insérez une Culture avec Shift+F7, Supprimez la Culture courante avec Shift+F8

Culture 1: Triticum aestivum (winter)

Vanité: Echelle BBCH:

Description:

Seed Size, Unit:

Seed Shape:

Dose/Population, Unité:

Profondeur, Unité:

Entre rangs, Unité:

Espacement, Unité:

Densité semis, Unité:

Temp. Sol, Unité:

Humidité sol:

Lit de semence:

Age (C. perenne), Unité:

Nursery Date:

Date Semis/Plantation:

Mode Semis/Plantation: drilled

Planting Equipment:

Date Levée:

Date Récolte:

Largeur Récoltée, Unité:

Longueur Récoltée, Unité:

Equipement de Récolte:

% d'Humidité de Référence:

Humidimètre:

Aou-18-2014 (G-All7_Fung)

ARM 2015.0 Tableau des moyennes

Gylling Data Management, Inc.

An assessment of the efficacy of TUB and other fungicides for the control of Septoria Diseases in winter

N° Essai: G-All7_Fung Localisation: Gembloux Année d'Essai: 2014
N° Protocole: G-All7_Fung Expérimentateur: Your Name
N° Projet: Directeur d'Etude: R.E. Cearch
Contact Sponsor:

Type de Parasite	D Disease	D Disease	D Disease	D Disease
Code du Parasite	SEPTTR	SEPTTR	SEPTTR	SEPTTR
Nom Scientifique du Parasite	Mycosphaerella	Mycosphaerella	Mycosphaerella	Mycosphaerella
Nom du Parasite	Septoriose du >	Septoriose du >	Septoriose du >	Septoriose du >
Code de Culture	TRZAW	TRZAW	TRZAW	TRZAW
Echelle BBCH	BCER	BCER	BCER	BCER
Nom Scientifique Culture	Triticum aestivum	Triticum aestivum	Triticum aestivum	Triticum aestivum
Nom de Culture	Blé d'hiver	Blé d'hiver	Blé d'hiver	Blé d'hiver
Partie Evaluée	LEAF3 P	LEAF3 P	LEAF3 P	LEAF3 P
Date d'Evaluation	Mai-13-2014	Mai-13-2014	Jui-18-2014	Jui-18-2014
Type d'Evaluation	PESSEV	PESSEV	PESSEV	PESSEV
Unité d'Evaluation	%	%UNCK	%	%UNCK
Taille de l'Echantillon, Unité	10 LEAF	10 LEAF	10 LEAF	10 LEAF
Nb. Sous-Echantillons	10	10	10	10
Stade Culture Majorité	32	32	59	59
	BBCH	BBCH	BBCH	BBCH
	4.42PERCENT	4.42PERCENT	8.25PERCENT	8.25PERCENT
	28 28	28 28	64 15	64 15
	28 DA-A	28 DA-A	15 DA-B	15 DA-B
	225 DP-1	225 DP-1	261 DP-1	261 DP-1
	TAB[3]	TAB[3]	AA	ET5 TAB[5]
	2	2	2	2

Dose Unité	Code Appl.	3	4	5	6
	ABC	4.55	0.00	8.25	0.00
Vha	ABC	1.53 a	67.06 a	5.40 a	80.07 a
Vha	ABC	1.83 a	59.52 a	7.03 a	70.60 a
Vha	AB	1.93 a	57.98 a	6.23 a	71.65 a
Vha	C	2.70 a	39.92 a	5.79 a	71.49
significatif)		1.472	33.227	3.964	19.862
		0.920	20.774	2.478	11.479
		46.17	37.02	40.52	15.49
		0.620	0.529	1.201	5.271
		0.6193	0.6733	0.3637	0.0405
		1.183	1.227	0.318	0.818
		0.3697	0.3555	0.8120	0.4850

Deutsch



ARM 10.2015.0 (Deutsch Def) - G-All

Datei Bearbeiten Format Werkzeuge Tabelle DOS-Befehle Fenster Grafik

Boniturstunden - Zeile 1

Spaltennummer	3	Kalkulationsspalte	5
Schädlingsart	D Disease	D Disease	D Disease
Schädl. Code	SEPTTR	SEPTTR	SEPTTR
Schädling wissenschaftl. Name	Mycosphaerella	Mycosphaerella	Mycosphaerella
Schädl. Name	Blattdürre: Weiz	Blattdürre: Weiz	Blattdürre: Weiz
Kultur Code	TRZAW	TRZAW	TRZAW
BBCH Skala	BCER	BCER	BCER
Kultur wissenschaftl. Name	Triticum aestivum	Triticum aestivum	Triticum aestivum
Kultur Name	Weizen, Winter	Weizen, Winter	Weizen, Winter
Kultur Sorte			
Organ bonitiert	LEAF3 P	LEAF3 P	LEAF3 P
Boniturstadium	Mai-13-2014	Mai-13-2014	Jun-18-2014
Boniturart	PESSEV	PESSEV	PESSEV
Einheit der Bonit.	%	%UNCK	%
Größe Probe, Einheit	10 LEA	10 LEA	10 LEA
Anzahl Stichproben	10	1	10
Kulturstadium Mehrheit	32	32	59
Skala Kulturstadium	BBCH	BBCH	BBCH

Aug-18-2014 (G-All7 Fung)

ARM 2015.0 AOV Mit

Gylling Data Management, Inc.

An assessment of the efficacy of TUB and other fungicides for the control of Septoria Diseases in w

Versuchsbezeichn.: G-All7 Fung
Protokollbezeichn.: G-All7_Fung
Projekt ID:

Standort: Gembloux Versuchsjahr: 2014
Versuchsansteller: Your Name
Studiendirektor: R.E. Cearch
Kontakt Auftraggeber:

Schädlingsart	D Disease	D Disease	D Disease	D Disease
Schädl. Code	SEPTTR	SEPTTR	SEPTTR	SEPTTR
Schädling wissenschaftl. Name	Mycosphaerella>	Mycosphaerella>	Mycosphaerella>	Mycosphaerella>
Schädl. Name	Blattdürre: We>	Blattdürre: We>	Blattdürre: We>	Blattdürre: We>
Kultur Code	TRZAW	TRZAW	TRZAW	TRZAW
BBCH Skala	BCER	BCER	BCER	BCER
Kultur wissenschaftl. Name	Triticum aesti>	Triticum aesti>	Triticum aesti>	Triticum aesti>
Kultur Name	Weizen, Winter->	Weizen, Winter->	Weizen, Winter->	Weizen, Winter->
Organ bonitiert	LEAF3 P	LEAF3 P	LEAF3 P	LEAF3 P
Boniturstadium	Mai-13-2014	Mai-13-2014	Jun-18-2014	Jun-18-2014
Boniturart	PESSEV	PESSEV	PESSEV	PESSEV
Einheit der Bonit.	%	%UNCK	%	%UNCK
Größe Probe, Einheit	10 LEAF	10 LEAF	10 LEAF	10 LEAF
Anzahl Stichproben	10	1	10	1
Kulturstadium Mehrheit	32	32	59	59
Skala Kulturstadium	BBCH	BBCH	BBCH	BBCH
	4.42PERCENT	4.42PERCENT	8.25PERCENT	8.25PERCENT
	28 28	28 28	64 15	64 15
	28 DA-A	28 DA-A	15 DA-B	15 DA-B
	225 DP-1	225 DP-1	261 DP-1	261 DP-1
	2	TAB[3]	AA	ET5 TAB[5]
	2	2	2	2

ARM 10.2015.0 (Deutsch Def) - G-All7_Fung Versuch:

Datei Bearbeiten Format Werkzeuge Tabelle DOS-Befehle Fenster Grafik Add-Ins Hilfe

Allgemeine Versuchsinformation

Allg. Versuch | Ziel/Ergebnis | Kontakte | Kulturbeschr. | Schadorganismus | Standort u. Beschreibung | Pflege | Boden | Feuchte | Beha.

Kultur Beschreibung

Kultur einfügen mit Shift+F7, akt. Kultur löschen mit Shift+F8

Kultur 1: Triticum aestivum (winter)

Sorte: BBCH Skala:

Beschreibung:

Körnergröße, Einheit:

Saat Form:

Menge, Einheit:

Tiefe, Einheit:

Reihenabstand, Einheit:

Abstand i.d. Reihe, Einheit:

Pflanzdichte, Einheit:

Bodentemp., Einheit:

Bodenfeuchtigkeit:

Saatbett:

Alter (mehrj.) Einheit:

Verschulungsdatum:

Pflanz/Saat Datum:

Pflanz/Saat Methode:

Pflanzgerät:

Aufaufdatum:

Erntezeit:

Geerntete Breite, Einheit:

Geerntete Länge, Einheit:

Ernte-Ausrüstung:

% Standard-Feuchtigkeit:

Feuchtigkeit Meßinstrument:

Behandl. Code	3	4	5	6
ABC	4.55	0.00	8.25	0.00
ABC	1.53 a	67.06 a	5.40 a	80.07 a
ABC	1.83 a	59.52 a	7.03 a	70.60 a
ABC	1.93 a	57.98 a	6.23 a	71.65 a
AB	2.70 a	39.92 a	5.79 a	71.49
C				
	1.472	33.227	3.964	19.862
	0.920	20.774	2.478	11.479
	46.17	37.02	40.52	15.49
	0.620	0.529	1.201	5.271
	0.6193	0.6733	0.3637	0.0405
	1.183	1.227	0.318	0.818
	0.3697	0.3555	0.8120	0.4850

Portuguese



ARM 10.2015.0 (Portugues Def) - G-A

Arquivo Editar Formatar Ferramentas Tabela Utilitários Janela Gráfico Ad

Barra de Navegação

Dados das Avaliações - Linha 1

Coluna Número	3	4 (Calculado)	5
Tipo do Pest	D ☐ Disease	D ☐ Disease	D ☐ Disease
Código do Pest	SEPTTR	SEPTTR	SEPTTR
Nome científico da Peste	Mycosphaerella	Mycosphaerella	Mycosphaerella
Nome do Pest	Mycosphaerella	Mycosphaerella	Mycosphaerella
Código da Colheita	TRZAW	TRZAW	TRZAW
Escala de BBCH	BCER	BCER	BCER
Crescer nome científico	Triticum aestivum	Triticum aestivum	Triticum aestivum
Nome da Colheita	Triticum aestivum	Triticum aestivum	Triticum aestivum
Variedade da Colheita			
A Parte Avaliou	LEAF3 ☐ P	LEAF3 ☐ P	LEAF3 ☐ P
Data da Avaliação	Mai-13-2014	Mai-13-2014	Jun-18-2014
Tipo de Dados da Avaliação	PESSEV	PESSEV	PESSEV
Unidade da Avaliação	%	%UNCK	%
Tamanho de Amostra, Unidade	10 LEA	10 LEA	10 LEA
Número dos sub-amostras	10	1	10

ARM 10.2015.0 (Portugues Def) - G-Ail7_Fung Ensaio

Arquivo Editar Formatar Ferramentas Tabela Utilitários Janela Gráfico Adicionar-Ins Ajuda

Barra de Navegação

Descrição Local

Ensaio geral | Objectivos/Conclusiones | Contacts | Description do Cultivo | Description del Parasito | Sitio y Diseño | Manutenção | S

Descrição da Colheita

Introduza o cultivo com Shift+F7, colheita atual da supressão com Shift+F8

Cultivo 1:

Variedade:

Descrição:

O tamanho da semente da unidade:

Forma da semente:

Taxa, Unidade:

Profundidade, Unidade:

Afastamento da Fileira, Unidade:

Afastamento dentro da Fileira, Unidade:

A densidade de plantio da unidade:

Temperatura do solo, Unidade:

Umidade do Solo:

Cama da Semente:

Idade Perennial, Unidade:

Data berçário:

Data Plantando:

Plantando o Método:

Equipamentos de semeadura:

Data do Emergence:

Data De Colheita:

Largura Colhida, Unidade:

Comprimento Colhido, Unidade:

Equipamento De Colheita:

% Da Unidade Do Padrão:

Medidor Da Unidade:

Ago-18-2014 (G-Ail7_Fung)

ARM 2015.0 ADV Tabela

Gylling Data Management, Inc.

An assessment of the efficacy of TUB and other fungicides for the control of Septoria Diseases in wheat

Exper. Id: G-Ail7_Fung Posição: Gemblioux Teste ano: 2014
 Protocol ID: G-Ail7_Fung Investigator: Your Name
 Número do Projeto: Diretor do Estudo: R.E. Cearch Rep:

Tipo do Pest	D Disease	D Disease	D Disease	D Disease
Código do Pest	SEPTTR	SEPTTR	SEPTTR	SEPTTR
Nome científico da Peste:	Mycosphaerella	Mycosphaerella	Mycosphaerella	Mycosphaerella
Nome do Pest	Mycosphaerella	Mycosphaerella	Mycosphaerella	Mycosphaerella
Código da Colheita	TRZAW	TRZAW	TRZAW	TRZAW
Escala de BBCH	BCER	BCER	BCER	BCER
Crescer nome científico:	Triticum aestivum	Triticum aestivum	Triticum aestivum	Triticum aestivum
Nome da Colheita	Triticum aestivum	Triticum aestivum	Triticum aestivum	Triticum aestivum
A Parte Avaliou	LEAF3 P	LEAF3 P	LEAF3 P	LEAF3 P
Data da Avaliação	Mai-13-2014	Mai-13-2014	Jun-18-2014	Jun-18-2014
Tipo de Dados da Avaliação	PESSEV	PESSEV	PESSEV	PESSEV
Unidade da Avaliação	%	%UNCK	%	%UNCK
Tamanho de Amostra, Unidade	10 LEAF	10 LEAF	10 LEAF	10 LEAF
Número dos sub-amostras	10	1	10	1
Estágio da Colheita	32	32	59	59
Escala do Estágio da Colheita	BBCH	BBCH	BBCH	BBCH
Densidade do Pest, Unidade	4.42PERCENT	4.42PERCENT	8.25PERCENT	8.25PERCENT
	28 28	28 28	64 15	64 15
	28 DA-A	28 DA-A	15 DA-B	15 DA-B
	225 DP-1	225 DP-1	261 DP-1	261 DP-1
	TAB[3]	TAB[3]	AA	ET5 TAB[5]
	2	2	2	2

Coluna Número	3	4	5	6
C	4.55	0.00	8.25	0.00
C	1.53 a	67.06 a	5.40 a	80.07 a
C	1.83 a	59.52 a	7.03 a	70.60 a
C	1.93 a	57.98 a	6.23 a	71.65 a
	2.70 a	39.92 a	5.79 a	71.49
	1.472	33.227	3.964	19.862
	0.920	20.774	2.478	11.479
	46.17	37.02	40.52	15.49
	0.620	0.529	1.201	5.271
	0.6193	0.6733	0.3637	0.0405
	1.183	1.227	0.318	0.818
	0.3697	0.3555	0.8120	0.4850

ARM 10.2015.0 (Polski Def) - G-AII7_Fung

plik edytuj Format narzędzia Tabela ułatwienia Okno grafika Add-Ins Po

Dane oceny - linia 51

numer kolumny	3	kolumny kalkulacyjne
Typ agrofaga	D Disease	D Disease
Kod agrofaga	SEPTTR	SEPTTR
naukowa nazwa agrofaga	Mycosphaerella	Mycosphaerella
Nazwa agrofaga	Mycosphaerella	Mycosphaerella
Kod Uprawy	TRZAW	TRZAW
Skala BBCH	BCER	BCER
naukowa nazwa rośliny uprawnej	Triticum aestivum	Triticum aestivum
nazwa rośliny uprawnej	Triticum aestivum	Triticum aestivum
odmiana rośliny uprawnej		
Oceniana Część	LEAF3 P	LEAF3 P
Data Oceny	051314	051314
Rodzaj oceny	PESSEV	PESSEV
Jednostka Oceny	%	%UNCK

ARM 10.2015.0 (Polski Def) - 10 LEAF3 P

plik edytuj Format narzędzia Tabela ułatwienia Okno grafika Add-Ins Po

opis lokalizacji

Podstawowe dane o doświadczeniu | Cel badania / wnioski | Contacts

roślina uprawna 1: Triticum aestivum (winter)

Odmiana:

Opis:

Seed Size, Unit:

Seed Shape:

Gęstość siewu/sadzenia:

Głębokość siewu/sadzenia:

Rozstawa rzędów, jednostka:

gęstość roślin w rzędzie, jednostka:

Planting Density, Unit:

Temperatura gleby, jednostka:

Wilgotność gleby:

Właściwości gleby/podłoża:

Rok uprawy wieloletniej, jednostka:

081814 (G-AII7_Fung)

ARM 2015.0 analiza wai

Gylling Data Management, Inc.

An assessment of the efficacy of TUB and other fungicides for the control of Septoria Diseases in winter wh

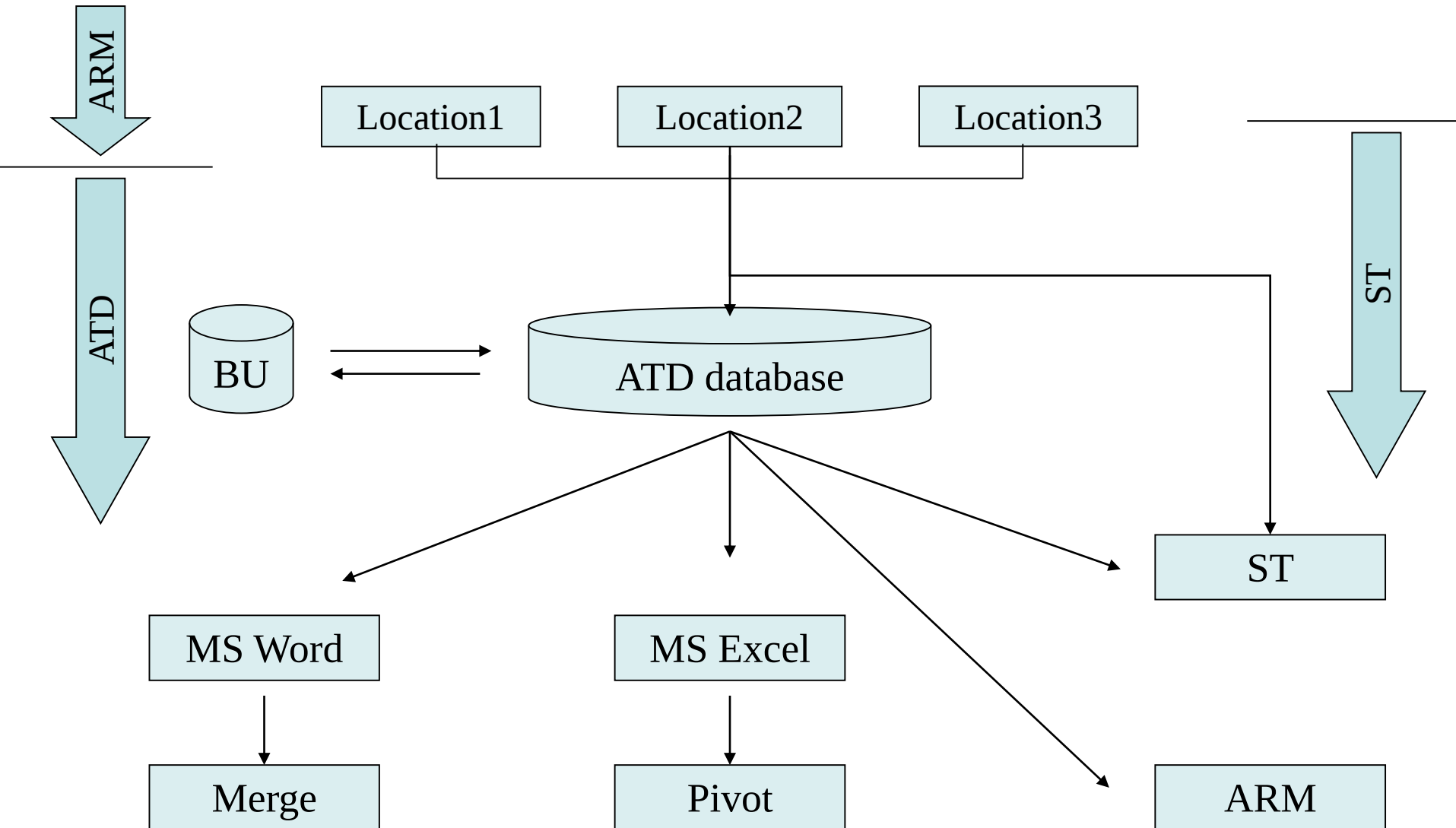
Identyfikator doświadczenia: G-AII7_Fung
Identyfikator protokołu: G-AII7_Fung
Identyfikator projektu:

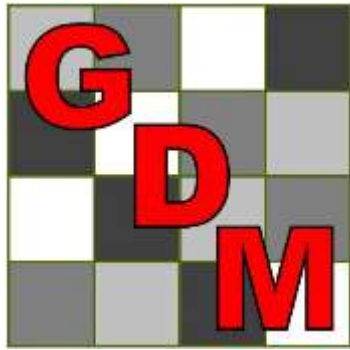
Lokalizacja: Gembloux Trial Year: 2014
Badacz: Your Name
Kierownik doświadczenia: R.E. Cearch
Zlecenie dawca/sponsor:

Typ agrofaga	D Disease	D Disease	D Disease	D Disease
Kod agrofaga	SEPTTR	SEPTTR	SEPTTR	SEPTTR
naukowa nazwa agrofaga	Mycosphaerella	Mycosphaerella	Mycosphaerella	Mycosphaerella
Nazwa agrofaga	Mycosphaerella	Mycosphaerella	Mycosphaerella	Mycosphaerella
Kod Uprawy	TRZAW	TRZAW	TRZAW	TRZAW
Skala BBCH	BCER	BCER	BCER	BCER
naukowa nazwa rośliny uprawnej	Triticum aestivum	Triticum aestivum	Triticum aestivum	Triticum aestivum
nazwa rośliny uprawnej	Triticum aestivum	Triticum aestivum	Triticum aestivum	Triticum aestivum
Oceniana Część	LEAF3 P	LEAF3 P	LEAF3 P	LEAF3 P
Data Oceny	051314	051314	061814	061814
Rodzaj oceny	PESSEV	PESSEV	PESSEV	PESSEV
Jednostka Oceny	%	%UNCK	%	%UNCK
Wielkość Próby, Jednostka	10 LEAF	10 LEAF	10 LEAF	10 LEAF
Liczba Podpróbek	10	1	10	1
większościowe stadium rozwoju roślin (BBCH)	32	32	59	59
Skala stadium Wzrostu Rośliny uprawnej	BBCH	BBCH	BBCH	BBCH
Jednostka nasilenia występowania agrofaga	4.42PERCENT	4.42PERCENT	8.25PERCENT	8.25PERCENT
Dni po Pierwszym/Ostatnim Zabiegu	28 28	28 28	64 15	64 15
Czas od Zabiegu do Oceny	28 DA-A	28 DA-A	15 DA-B	15 DA-B
Czas od Sadzenia do Oceny	225 DP-1	225 DP-1	261 DP-1	261 DP-1
Kody Czynności ARM	TAB[3]	TAB[3]	AA	ET5 TAB[5]
Liczba Miejsc Dziesiętnych	2	2	2	2
Kombinacja	Kombinacja	Dawka	Zabieg	
No.	nazwa	Dawka Jednostka	Kod	
1	Untreated Check		ABC	4.55
3	Tub	1 l/ha	ABC	1.53 a
4	Tilt 250	0.5 l/ha	ABC	1.83 a
2	Tub	0.5 l/ha	ABC	1.93 a
5	Mico 60 Fungol	1.5 l/ha	AB	2.70 a
		1.25 l/ha	C	
LSD (P=0.05)				1.472
Odczylenie standardowe				0.920
CV				46.17
powtórzenie F				0.620
powtórzenie Prob(F)				0.6193
kombinacja F				1.183
kombinacja Prob(F)				0.3697
				33.227
				20.774
				37.02
				3.964
				2.478
				40.52
				1.201
				0.3637
				0.318
				0.8120
				5.271
				0.0405
				0.818
				0.4850



Data flow with ARM and ATD





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