

Trial Design & Planting

BMS 12.0 Tutorials

Summary

This tutorial describes how to design a field trial to evaluate a set of germplasm with 32 entries for 6 phenotypic traits in a replicated field trial with three replications in 4 different locations. The experimental design is a resolvable incomplete block design, specifically an alpha lattice design.

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[Measurements](#)

[Create Planting Labels \(Optional\)](#)

[Reserve & Withdraw Trial Germplasm: Optional](#)

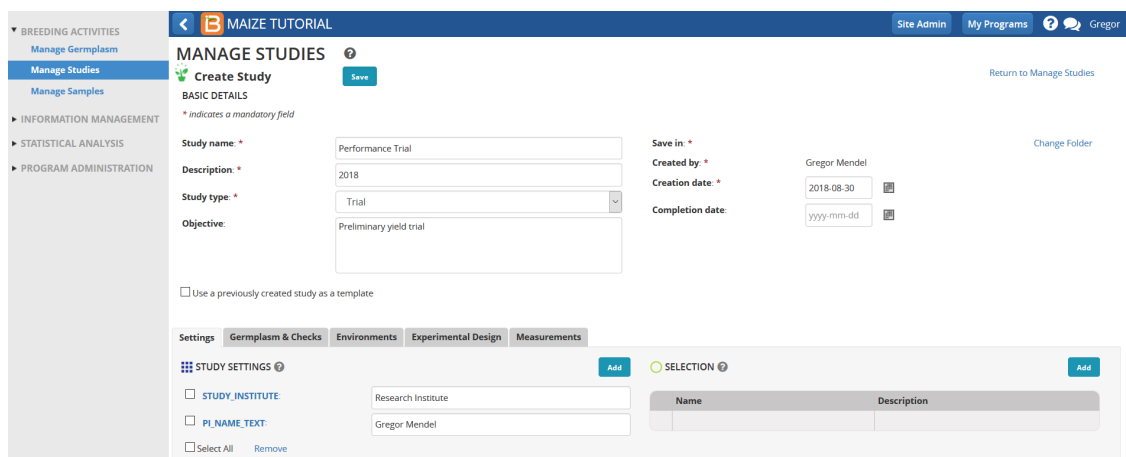
Design Trial

Trial Details & Settings

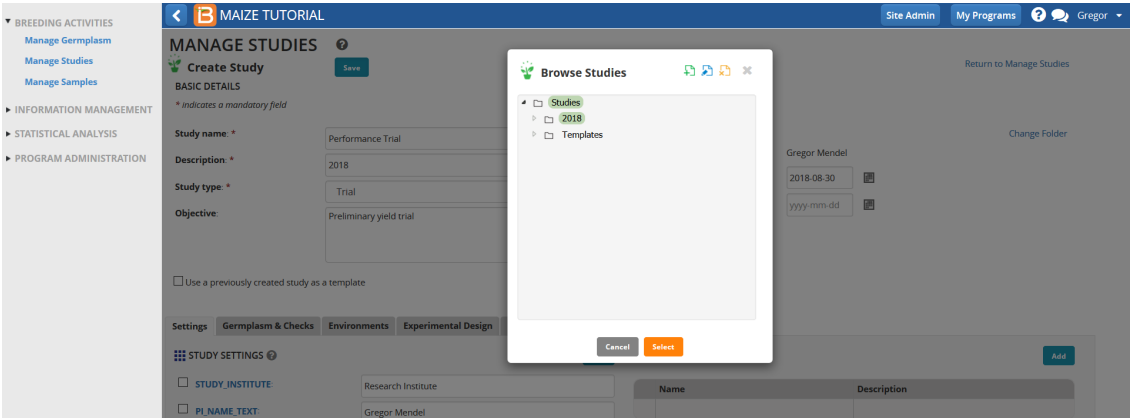
- From Manage Studies tool, select **Start a New Study**.



- Select **Trial** as the Study type and establish basic trial details.
 - Name: Performance Trial
 - Description: 2018
 - Objective: Preliminary yield trial
- Select **Add** in Study Settings to add management details. Select STUDY_INSTITUTE and PI_NAME_TEXT from dropdown menu. Fill with your details. Select **Save**.

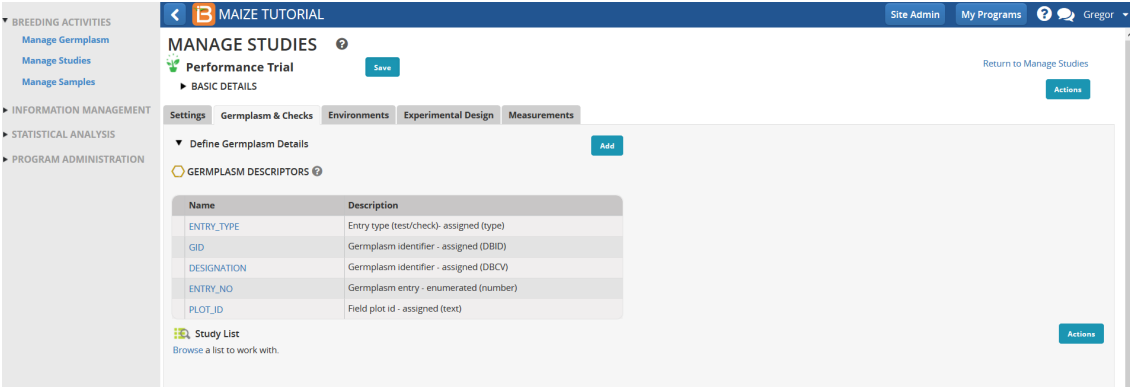


- Select the "+" icon. Enter 2018 as folder name. Select the green check icon after highlighting the Studies folder. The folder named 2018 is created within Studies.
- Select to complete saving the trial.

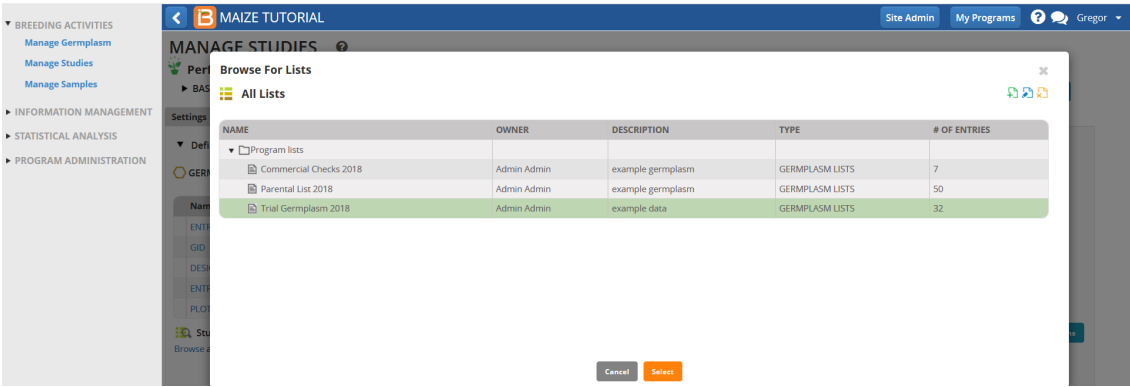


Germplasm

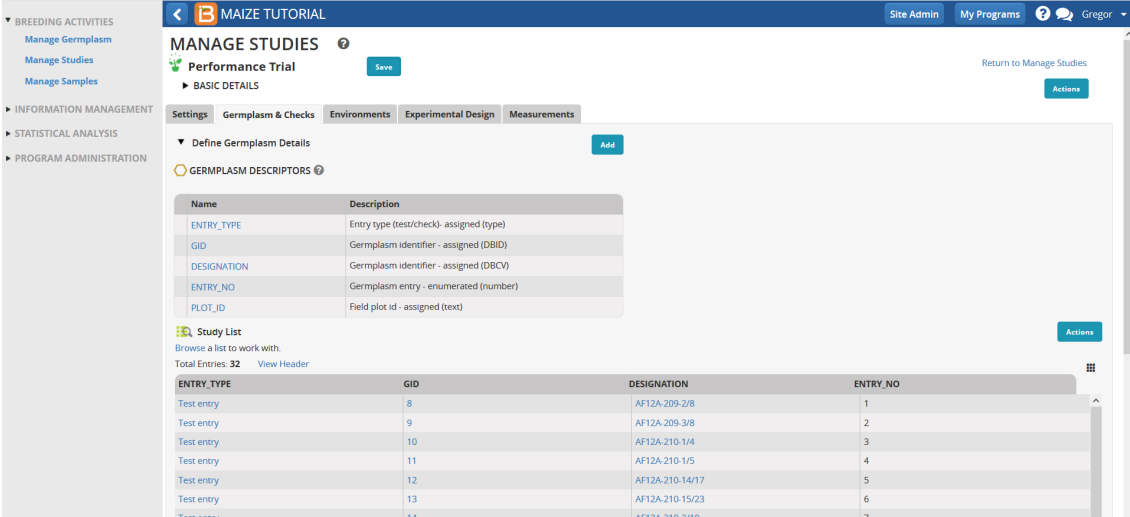
- Under Germplasm Tab, **Browse** for a germplasm list.



- Select the Trial Germplasm 2018 list.



The 32 entry trial germplasm list is now loaded into the performance trial.



Environments

- Under Environments Tab, specify four environments for the study and select **OK**. Four environments will now populate the screen below.

MAIZE TUTORIAL

Settings | Germplasm & Checks | Environments | Experimental Design | Measurements

Define Environments

ENVIRONMENT DETAILS

STUDY CONDITIONS

Name | Description

LOCATION_NAME | Location - selected (DBID)

Specify the number of environments for this study: 4 OK

Specify Environment Details

Showing 1 to 4 of 4 entries

Environment	LOCATION_NAME
1	Unspecified Location - (NOLOC)
2	Unspecified Location - (NOLOC)
3	Unspecified Location - (NOLOC)
4	Unspecified Location - (NOLOC)

The four environments associated with the tutorial can be found by highlighting the box next to 'Show only favorite locations'.

The 4 environments correspond to the following location names:

- Environment 1: Agua Fria - (AF)
 - Environment 2: Sabana Del Medio - (SDM)
 - Environment 3: Jutiapa - (JUT)
 - Environment 4: Tlaltizapan - (TLA)
- Select the correct location name from the favorite location drop down menu. **The correct name should match the environment number of the example data.**

MAIZE TUTORIAL

Settings | Germplasm & Checks | Environments | Experimental Design | Measurements

Define Environments

ENVIRONMENT DETAILS

STUDY CONDITIONS

Name | Description

LOCATION_NAME | Location - selected (DBID)

Specify the number of environments for this study: 4 OK

Specify Environment Details

Showing 1 to 4 of 4 entries

Environment	LOCATION_NAME
1	Agua Fria - (AF)
2	Sabana Del Medio - (SDM)
3	Jutiapa - (JUT)
4	Tlaltizapan - (TLA)

Experimental Design

About the Experimental Design

The BMS supports the randomization of several types of experimental design. This experiment has a resolvable incomplete block design, where all entries are replicated 3 times at 4 locations containing 4 incomplete blocks. The advantage of this design over a randomized complete block design is the ability to control for environmental heterogeneity within a location. For this design, the number of germplasm entries must be evenly divisible by the size of the block (32 germplasm / 4 plots per block = 8 blocks per replicate).

Import Trial Design

- Every study design generated by the BMS will have a different randomization. To use the tutorial example data, upload an experimental design file to match trial design to preformatted data import files.
Experimental Design File: [Trial Design \(.csv\)](#)
- Export this Trial Design file and save it in your computer.
- Select **import design** from Design and planning options in the Actions Menu and browse to the saved Trial Design import file. Select **Continue**.

- Disregard the warning message. This experimental design is verified and compatible with BMS analysis tools. There are no unmapped variables. Select **Next**.

MANAGE STUDIES

Import Experimental Design

MAP COLUMN HEADERS TO VARIABLES
 Drag unmapped headers on the left into one of the three groups on the right. You will be prompted to match the header to an existing variable in the ontology, and you will have the opportunity to create new variables if needed.

Un-Mapped

Environmental Factors 1

TRIAL_INSTANCE → **TRIAL_INSTANCE** (Required)
 Property: Trial instance Scale: Number Method: Enumerated [Re-map](#)

Design Factors 3

REP_NO → **REP_NO**
 Property: Replication factor Scale: Number Method: Enumerated [Re-map](#)

BLOCK_NO → **BLOCK_NO**
 Property: Blocking factor Scale: Number Method: Enumerated [Re-map](#)

PLOT_NO → **PLOT_NO** (Required)
 Property: Field plot Scale: Number Method: Enumerated [Re-map](#)

Germplasm Factors 1

ENTRY_NO → **ENTRY_NO** (Required)
 Property: Germplasm entry Scale: Number Method: Enumerated [Re-map](#)

[Cancel](#) [Next](#)

WARNING
 Please note that the analysis results for designs generated outside the BMS may be unreliable, and that analysis in the BMS may not be possible for some design types.

- If you have previously generated a study design, select **Yes** to overwrite the previous design.
- Review design details and select **Finish** at the bottom of the pop-up window.

MANAGE STUDIES

Performance Trial

Import Experimental Design

REVIEW DESIGN DETAILS
 Type of design: Externally Generated Design

Showing 1 to 100 of 384 entries

TRIAL_INSTANCE	ENTRY_NO	ENTRY_TYPE	GID	DESIGNATION	PLOT_ID	REP_NO	PLOT_NO	BLOCK_NO
1	4	Test entry	11	AF12A-210-1/5		1	1	1
1	7	Test entry	14	AF12A-210-2/10		1	2	1
1	8	Test entry	15	AF12A-210-2/12		1	3	1
1	16	Test entry	23	AF12A-423-2/23		1	4	1
1	27	Test entry	34	AF12A-423-6/20		1	5	2
1	20	Test entry	27	AF12A-423-4/22		1	6	2
1	23	Test entry	30	AF12A-423-5/20		1	7	2
1	5	Test entry	12	AF12A-210-14/17		1	8	2
1	22	Test entry	29	AF12A-423-5/16		1	9	3
1	1	Test entry	8	AF12A-209-2/8		1	10	3
1	28	Test entry	35	AF12A-423-6/21		1	11	3
1	14	Test entry	21	AF12A-423-2/16		1	12	3
1	9	Test entry	16	AF12A-210-2/6		1	13	4
1	12	Test entry	20	AF12A-		1	14	4

[Generate Design](#)

- **Save** and select the measurements tab.

Measurements

Once the trial design is saved, the measurements table is populated with independent variables and the dependent trait variables can be specified and added to the table.

This tutorial will collect and analyze data for six different traits.

- Add phenotypic traits by selecting **Add** associated with Traits.

BREEDING ACTIVITIES

Manage Germplasm

Manage Studies

Manage Samples

INFORMATION MANAGEMENT

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MANAGE STUDIES

Performance Trial

BASIC DETAILS

SettingsGermplasm & ChecksEnvironmentsExperimental DesignMeasurements

Define Measurement Details

TRAITS

Name	Description	Input Variables

Measurements

Select Environment: 1 - Agua Fria

Records per page: 100

Showing 1 to 96 of 96 entries

Show Categorical Description

ENTRY_TYPE	GID	DESIGNATION	ENTRY_NO	REP_NO	PLOT_NO	BLOCK_NO
Test entry	11	AF12A-210-1/5	4	1	1	1
Test entry	14	AF12A-210-2/10	7	1	2	1
Test entry	15	AF12A-210-2/12	8	1	3	1
Test entry	23	AF12A-423-2/23	16	1	4	1
Test entry	34	AF12A-423-6/20	27	1	5	2
Test entry	27	AF12A-423-4/22	20	1	6	2
Test entry	30	AF12A-423-5/20	23	1	7	2
Test entry	12	AF12A-210-14/17	5	1	8	2
Test entry	29	AF12A-423-5/16	22	1	9	3
Test entry	8	AF12A-209-2/8	1	1	10	3
Test entry	35	AF12A-423-6/21	28	1	11	3

- Search for the six traits by typing details of the individual traits in the selection bar. For example typing the first few letters of ‘Yield’ reveals all of the related measurements associated with yield.

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Performance Trial

BASIC DETAILS

SettingsGermplasm & ChecksEnvironmentsExperimental DesignMeasurements

Define Measurement Details

TRAITS

Name	Description	Input Variables

Measurements

Select Environment: 1 - Agua Fria

Records per page: 100

Showing 1 to 96 of 96 entries

Show Categorical Description

ENTRY_TYPE	GID	DESIGNATION	ENTRY_NO	REP_NO	PLOT_NO	BLOCK_NO
Test entry	11	AF12A-210-1/5	4	1	1	1
Test entry	14	AF12A-210-2/10	7	1	2	1
Test entry	15	AF12A-210-2/12	8	1	3	1
Test entry	23	AF12A-423-2/23	16	1	4	1
Test entry	34	AF12A-423-6/20	27	1	5	2
Test entry	27	AF12A-423-4/22	20	1	6	2
Test entry	30	AF12A-423-5/20	23	1	7	2
Test entry	12	AF12A-210-14/17	5	1	8	2
Test entry	29	AF12A-423-5/16	22	1	9	3
Test entry	8	AF12A-209-2/8	1	1	10	3
Test entry	35	AF12A-423-6/21	28	1	11	3

Add Traits

Select a trait

Grain yield (Agronomic)

Relative grain yield (Agronomic)

- Add the trait, GY_FW_kgPlot, (grain yield by fresh weight in Kg/plot) to the trial. Repeat by adding other traits indicated below.
 - Grain Yield Fresh Weight (GY_FW_kgPlot,): Grain yield fresh in kg/plot
 - Grain Moisture (GMoi_NIRS_pct): Grain moisture %
 - Plant Height (PH_M_cm): Plant height to the insertion of the first tassel branch
 - Ear Height (EH_M_cm): Ear height - Measurement in Cm
 - Grain Yield Dry Weight (GY_DW_gPlot): Grain yield dry in g/plot
 - Anthesis Date (Ant_DT_day): number of days from sowing to when 50% of the plants begin to shed pollen.
- Save the trial.

Note the added traits in the table.

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MANAGE STUDIES

Performance Trial

BASIC DETAILS

SettingsGermplasm & ChecksEnvironmentsExperimental DesignMeasurements

Define Measurement Details

TRAITS

Name	Description	Input Variables
<input type="checkbox"/> GY_FW_kgPlot	Grain yield BY FW GY - Measurement IN Kg/plot	
<input type="checkbox"/> GMoi_NIRS_pct	Grain moisture BY NIRS Moi - Measurement IN %	
<input type="checkbox"/> PH_M_cm	Plant height BY PH - Measurement IN cm	
<input type="checkbox"/> EH_M_cm	Ear height BY EH - Measurement IN Cm	
<input type="checkbox"/> GY_DW_gPlot	Grain yield BY DW GY - Measurement IN G/plot	
<input type="checkbox"/> Ant_DT_day	Anthesis time BY Days to anthesis - Computation IN Day	

Measurements

Select Environment: 1 - Agua Fria

Records per page: 100

Showing 1 to 96 of 96 entries

Show Categorical Description

ENTRY_TYPE	GID	DESIGNATION	ENTRY_NO	REP_NO	PLOT_NO	BLOCK_NO	GY_FW_kgPlot	GMoi_NIRS_pct	PH_M_cm	EH_M_cm	GY_DW_gPlot	Ant_DT_day
Test entry	11	AF12A-210-1/5	4	1	1	1						
Test entry	14	AF12A-210-2/10	7	1	2	1						
Test entry	15	AF12A-210-2/12	8	1	3	1						
Test entry	23	AF12A-423-2/23	16	1	4	1						

Create Planting Labels (Optional)

Trial design is complete when the measurements table is saved. Trial labels are available for seed packing and plot

marking.

- Select **Create Planting Labels** under Design and Planning options in Actions menu.

MANAGE STUDIES
Performance Trial
BASIC DETAILS

Settings | Germplasm & Checks | Environments | Experimental Design | Measurements

Define Measurement Details

Name	Description	Input Variables
<input type="checkbox"/> GY_FW_kgPlot	Grain yield BY FW GY - Measurement IN Kg/plot	
<input type="checkbox"/> GMoi_NIRS_pct	Grain moisture BY NIRS Moi - Measurement IN %	
<input type="checkbox"/> PH_M_cm	Plant height BY PH - Measurement IN cm	
<input type="checkbox"/> EH_M_cm	Ear height BY EH - Measurement IN Cm	
<input type="checkbox"/> GY_DW_gPlot	Grain yield BY DW GY - Measurement IN G/plot	
<input type="checkbox"/> Ant_DT_day	Anthesis time BY Days to anthesis - Computation IN Day	

Measurements

Select Environment: 1 - Agua Fria | Records per page: 100 | Showing 1 to 96 of 96 entries

ENTRY_TYPE	GID	DESIGNATION	ENTRY_NO	REP_NO	PLOT_NO	BLOCK_NO	GY_FW_kgPlot	GMoi_NIRS_pct	PH_M_cm	EH_M_cm	GY_DW_gPlot	Ant_DT_day
Test entry	11	AF12A-210-1/5	4	1	1	1						
Test entry	14	AF12A-210-2/10	7	1	2	1						
Test entry	15	AF12A-210-2/12	8	1	3	1						
Test entry	23	AF12A-423-2/23	16	1	4	1						

- Choose **Excel** as the output format. Excel format is a suitable input for a variety of label-making software options, including Bartender or Word (see [video](#) on using Word with BMS to create labels with barcodes).

LABEL PRINTING
PRINT LABELS
Create labels
Selected study
Study Name: Performance Trial
Title: 2018
Objective:
Number of Environments: 4

Choose label type
☐ Load saved settings:

Choose label fields
Include column headings in XLS export? ☒ Yes ☐ No
Drag fields from the Study Details and Study List Details into Selected Fields to add them to your export file.

Study Details	Study List Details
Study Name	REP_NO
PI_NAME_TEXT	ENTRY_TYPE
STUDY_INSTITUTE	GID
EXPT_DESIGN_SOURCE	DESIGNATION
TRIAL_INSTANCE	ENTRY_NO

Summary of labels needed

Environment	# of Entries	# of Reps	Labels Needed
1	32	3	96
2	32	3	96
3	32	3	96
4	32	3	96

Total number of labels: 384

Choose label output
Choose the format you would like to use for your labels:
Output format: Excel Data

- Choose details to include on label text by dragging and dropping fields on Selected Fields.

Choose label output
Choose the format you would like to use for your labels:
Output format: Excel Data

Selected Fields

Plot No.
REP_NO
LOCATION_NAME
DESIGNATION

Study Details

Study Name
PI_NAME_TEXT
STUDY_INSTITUTE
EXPT_DESIGN_SOURCE
TRIAL_INSTANCE
BLOCK_NO
Year
Season
GY_FW_kgPlot
GMoi_NIRS_pct
PH_M_cm
EH_M_cm
GY_DW_gPlot

Study List Details

ENTRY_TYPE
GID
ENTRY_NO
Parentage

- Select **Yes** in the Barcode options
- Barcode your labels with unique plot id. Select **Export label**.

BREEDING ACTIVITIES

[Manage Germplasm](#)
[Manage Studies](#)
[Manage Samples](#)

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STUDY_INSTITUTE

ENTRY_NO

LOCATION_NAME

EXPT_DESIGN_SOURCE

Parentage

DESIGNATION

TRIAL_INSTANCE

BLOCK_NO

Year

Season

GY_FW_kgPlot

GMol_NIRS_pct

PH_M_cm

EH_M_cm

GY_DW_gPlot

Ant_DT_day

Barcode options

Do you need barcodes on your labels? ☒ Yes ☐ No

Do you want to use automatically generated unique barcodes? ☒ Yes ☐ No

Specify the name of the label file

Filename: Labels-for-Performance Trial-4.20180831

Save label settings

You can save these label settings as a preset to use again by entering a name below.

Preset name: Settings Name

Cancel

Save Preset

Export Label

- Proceed without saving the label settings.

BREEDING ACTIVITIES

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STUDY_INSTITUTE

ENTRY_NO

LOCATION_NAME

EXPT_DESIGN_SOURCE

Parentage

DESIGNATION

TRIAL_INSTANCE

BLOCK_NO

Year

Season

GY_FW_kgPlot

GMol_NIRS_pct

PH_M_cm

EH_M_cm

GY_DW_gPlot

Ant_DT_day

Barcode options

Do you need barcodes on your labels? ☒ Yes ☐ No

Do you want to use automatically generated unique barcodes? ☒ Yes ☐ No

Specify the name of the label file

Filename: Labels-for-Performance Trial-4.20180831

Save label settings

You can save these label settings as a preset to use again by entering a name below.

Preset name: Settings Name

Cancel

Save Preset

Export Label

Confirmation

Proceed export label without saving label printing setting?

Yes

No

- Review the .xls file. The barcode is a unique PLOT_ID, which matches plot to seed inventory and phenotypic observations.

	A	B	C	D	E
1	Plot No.	REP_NO	LOCATION_NAME	DESIGNATION	Barcode
2	1	1	Agua Fria	AF12A-210-1/5	9OVNP0heccE1y
3	2	1	Agua Fria	AF12A-210-2/10	9OVNPxxv66G9F
4	3	1	Agua Fria	AF12A-210-2/12	9OVNPJU5dCKRT
5	4	1	Agua Fria	AF12A-423-2/23	9OVNP2izqIJDj
6	5	1	Agua Fria	AF12A-423-6/20	9OVNP19YjhrC2
7	6	1	Agua Fria	AF12A-423-4/22	9OVNPRPcReGQN
8	7	1	Agua Fria	AF12A-423-5/20	9OVNPUnlCOonZ
9	8	1	Agua Fria	AF12A-210-14/17	9OVNPU7VolpAh
10	9	1	Agua Fria	AF12A-423-5/16	9OVNPnHO9J7aG
11	10	1	Agua Fria	AF12A-209-2/8	9OVNPW7jRpTlk
12	11	1	Agua Fria	AF12A-423-6/21	9OVNPScDpW0rl
13	12	1	Agua Fria	AF12A-423-2/16	9OVNPMw2aJHGI
14	13	1	Agua Fria	AF12A-210-2/6	9OVNPScrcZkgO
15	14	1	Agua Fria	AF12A-423-2/14	9OVNPVRjG3QqP
16	15	1	Agua Fria	Commercial Check 2	9OVNPHRo3ghWp
17	16	1	Agua Fria	AF12A-210-1/4	9OVNPJLRXuLbz
18	17	1	Agua Fria	AF12A-210-2/7	9OVNPWfaeykSr
19	18	1	Agua Fria	AF12A-423-4/20	9OVNP4L8ggnNX
20	19	1	Agua Fria	AF12A-210-15/23	9OVNP6nCb5fDD
21	20	1	Agua Fria	AF12A-423-6/22	9OVNPKrfXUpWk
22	21	1	Agua Fria	AF12A-210-2/8	9OVNPa7G7stOT
23	22	1	Agua Fria	AF12A-209-3/8	9OVNP3JtBhWpf
24	23	1	Agua Fria	AF12A-423-4/23	9OVNP8laFkgxL
25	24	1	Agua Fria	AF12A-423-2/21	9OVNP1xgNZTCx
26	25	1	Agua Fria	AF12A-423-4/21	9OVNPIYvC8t1u
27	26	1	Agua Fria	Commercial Check 1	9OVNPOfv0F8cU
28	27	1	Agua Fria	AF12A-210-2/9	9OVNP1lljwF1e
29	28	1	Agua Fria	AF12A-423-4/16	9OVNPxFgVrNrQ
30	29	1	Agua Fria	Local Check 1	9OVNP3XvHgWYy
31	30	1	Agua Fria	AF12A-423-5/23	9OVNPMDDn9CSL
32	31	1	Agua Fria	AF12A-423-5/22	9OVNPPHH10xnJ
33	32	1	Agua Fria	AF12A-423-6/16	9OVNPuprPza2Q
34	33	2	Agua Fria	AF12A-423-2/14	9OVNPv2iMn5vr

- Create labels with your label making software. The set of trial labels can be printed twice to label: the seed destined for the trial and (2) the trial plots in the field.



3BCMP8zyRihPm
REP_NO : 1
Plot No. : 1
DESIGNATION : AF12A
-210-1/5
LOCATION_NAME :
Agua Fria - (AF)



3BCMP8zyRihPm
REP_NO : 1
Plot No. : 2
DESIGNATION : AF12A
-210-2/10
LOCATION_NAME :
Agua Fria - (AF)



3BCMP8zyRihPm
REP_NO : 1
Plot No. : 3
DESIGNATION : AF12A
-210-2/12
LOCATION_NAME :
Agua Fria - (AF)

Reserve & Withdraw Trial Germplasm: Optional

If 40g of seed are needed per trial plot, and each trial germplasm is replicated 3 times over 4 environments - each trial germplasm entry requires a reservation and withdrawal of 480g of seed. Trial labels can be used to track and match packaged seed to appropriate plots.

- From Manage germplasm tool, **browse** and select the Trial Germplasm list. Close browse list popup window.

MANAGE GERmplasm

View Lists View Germplasm

List Details
Browse or search for a list to work with.

Trial Germplasm 2018

List entries
Total Entries: 32 Selected: 0

Browse for Lists

NAME	OWNER	DESCRIPTION	TYPE	# OF ENTRIES
Crop lists				
Program lists				
Commercial Checks 201	Admin Admin	example germplasm	GERMPLASM LISTS	7
Parental List 2018	Admin Admin	example germplasm	GERMPLASM LISTS	50
Trial Germplasm 2018	Admin Admin	example data	GERMPLASM LISTS	32

- Open the list in **Inventory View**.

MANAGE GERmplasm

View Lists View Germplasm

List Details
Browse or search for a list to work with.

Trial Germplasm 2018

Inventory
Total Lots: 32 Selected: 0

#	DESIGNATION	LOCATION	AVAILABLE	RESERVATION	TOTAL WITHDRAWALS	COMMENT	STOCKID
1	AF12A-209-2/8	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.1
2	AF12A-209-3/8	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.2
3	AF12A-210-1/4	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.3
4	AF12A-210-1/5	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.4
5	AF12A-210-14/17	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.5
6	AF12A-210-15/23	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.6
7	AF12A-210-2/10	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.7
8	AF12A-210-2/12	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.8
9	AF12A-210-2/6	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.9
10	AF12A-210-2/7	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.10
11	AF12A-210-2/8	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.11

ACTIONS

- Return to List entries view
- List editing options
- Inventory management options
- Export Seed preparation list
- Import Seed preparation list
- Print Labels

- Select all 32 entries and select **Reserve Inventory**.

MANAGE GERmplasm

View Lists View Germplasm

List Details
Browse or search for a list to work with.

Trial Germplasm 2018

Inventory
Total Lots: 32 Selected: 32

#	DESIGNATION	LOCATION	AVAILABLE	RESERVATION	TOTAL WITHDRAWALS	COMMENT	STOCKID
1	AF12A-209-2/8	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.1
2	AF12A-209-3/8	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.2
3	AF12A-210-1/4	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.3
4	AF12A-210-1/5	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.4
5	AF12A-210-14/17	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.5
6	AF12A-210-15/23	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.6
7	AF12A-210-2/10	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.7
8	AF12A-210-2/12	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.8
9	AF12A-210-2/6	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.9
10	AF12A-210-2/7	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.10
11	AF12A-210-2/8	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.11

ACTIONS

- Return to List entries view
- List editing options
- Inventory management options
- Export Seed preparation list
- Import Seed preparation list
- Print Labels
- Reserve inventory**
- Save changes
- Cancel Reservations
- Close lots

- Enter 480g for seed amount. Select **Commit seed withdrawal** on saving to complete the reservation/withdrawal in one step. Select **Finish**.

Seed Preparation

Specify the amount of seed you would like to prepare for each selected lot. (32 selected)

Amount to Reserve ☒ Specify amount in SEED_AMOUNT_g: 480 ☐ Prepare all available seed

Notes
For Preliminary Yield trial

☒ Commit seed withdrawal on saving

Cancel Finish

#	DESIGNATION	LOCATION	AVAILABLE	RESERVATION	TOTAL WITHDRAWALS	COMMENT	STOCKID	SEED_SOURCE	LOT_ID
1	AF12A-209-2/8	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-1		16
2	AF12A-209-3/8	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-2		17
3	AF12A-210-1/4	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-3		18
4	AF12A-210-1/5	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-4		19
5	AF12A-210-14/17	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-5		20
6	AF12A-210-15/23	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-6		21
7	AF12A-210-2/10	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-7		22
8	AF12A-210-2/12	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-8		23
9	AF12A-210-2/6	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-9		25
10	AF12A-210-2/7	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-10		24
11	AF12A-210-2/8	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-11		27
12	AF12A-210-2/9	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-12		26
13	AF12A-423-2/14	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-13		29
14	AF12A-423-2/16	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-14		28
15	AF12A-423-2/21	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-15		31
16	AF12A-423-2/23	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-16		30

- **Save changes.**

Inventory

Total Lots: 32 Selected: 32

#	DESIGNATION	LOCATION	AVAILABLE	RESERVATION	TOTAL WITHDRAWALS	COMMENT	STOCKID	SEED_SOURCE	LOT_ID
1	AF12A-209-2/8	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-1		16
2	AF12A-209-3/8	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-2		17
3	AF12A-210-1/4	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-3		18
4	AF12A-210-1/5	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-4		19
5	AF12A-210-14/17	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-5		20
6	AF12A-210-15/23	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-6		21
7	AF12A-210-2/10	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-7		22
8	AF12A-210-2/12	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-8		23
9	AF12A-210-2/6	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-9		25
10	AF12A-210-2/7	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-10		24
11	AF12A-210-2/8	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-11		27
12	AF12A-210-2/9	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-12		26
13	AF12A-423-2/14	Default Seed Store	99520.0g	0.0g	0.0g	From List Import	SI02-13		29

If you are working alone, TOTAL WITHDRAWALS will reflect your 480g withdrawal for each entry. If you are in a workshop with concurrent users, the total withdrawn by everyone will be reflected. When all the seed is used up or reserved, you will no longer be able to make reservations and withdrawals.

Inventory

Total Lots: 32 Selected: 0

#	DESIGNATION	LOCATION	AVAILABLE	RESERVATION	TOTAL WITHDRAWALS	COMMENT	STOCKID	SEED_SOURCE	LOT_ID
1	AF12A-209-2/8	Default Seed Store	480.0g	0.0g	480.0g	From List Import	SI02-1		16
2	AF12A-209-3/8	Default Seed Store	480.0g	0.0g	480.0g	From List Import	SI02-2		17
3	AF12A-210-1/4	Default Seed Store	480.0g	0.0g	480.0g	From List Import	SI02-3		18
4	AF12A-210-1/5	Default Seed Store	480.0g	0.0g	480.0g	From List Import	SI02-4		19
5	AF12A-210-14/17	Default Seed Store	480.0g	0.0g	480.0g	From List Import	SI02-5		20
6	AF12A-210-15/23	Default Seed Store	480.0g	0.0g	480.0g	From List Import	SI02-6		21
7	AF12A-210-2/10	Default Seed Store	480.0g	0.0g	480.0g	From List Import	SI02-7		22
8	AF12A-210-2/12	Default Seed Store	480.0g	0.0g	480.0g	From List Import	SI02-8		23
9	AF12A-210-2/6	Default Seed Store	480.0g	0.0g	480.0g	From List Import	SI02-9		25
10	AF12A-210-2/7	Default Seed Store	480.0g	0.0g	480.0g	From List Import	SI02-10		24
11	AF12A-210-2/8	Default Seed Store	480.0g	0.0g	480.0g	From List Import	SI02-11		27

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