

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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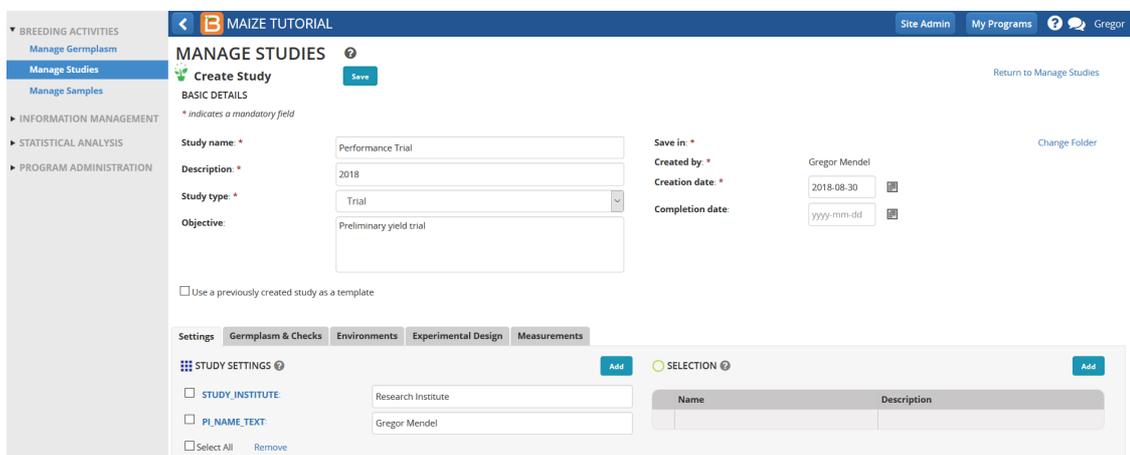
Design Trial

Trial Details & Settings

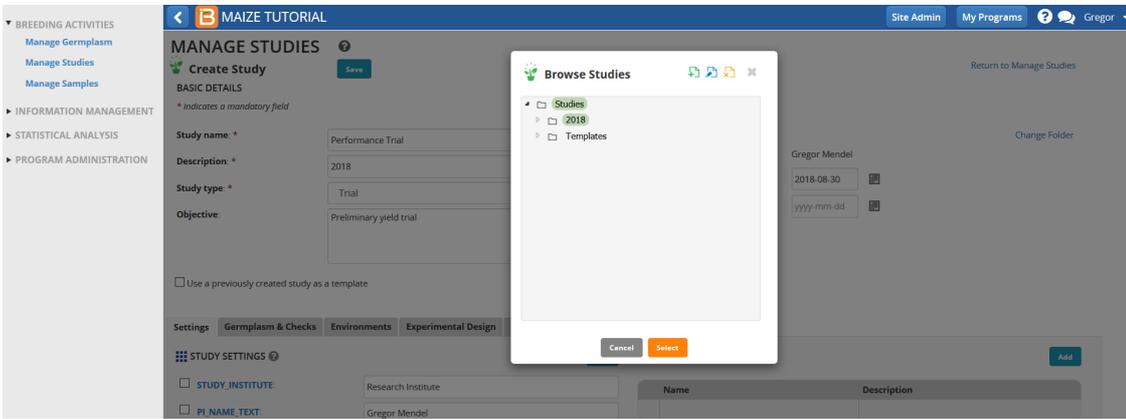
- From Manage Studies tool, select **Start a New Study**.



- 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**.

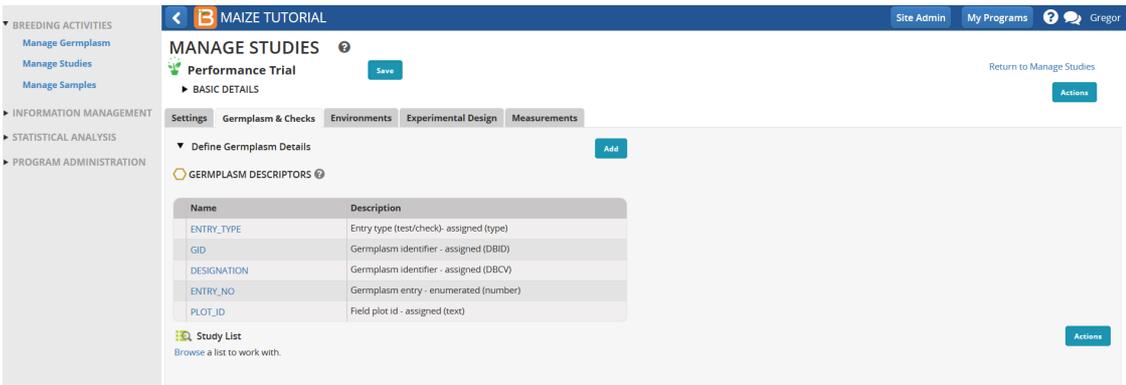


- Select the "+" icon. Enter 2018 as folder name. Select the green check icon after highlighting the Studies folder. The folder named 2018 is created within Studies.
- Select to complete saving the trial.

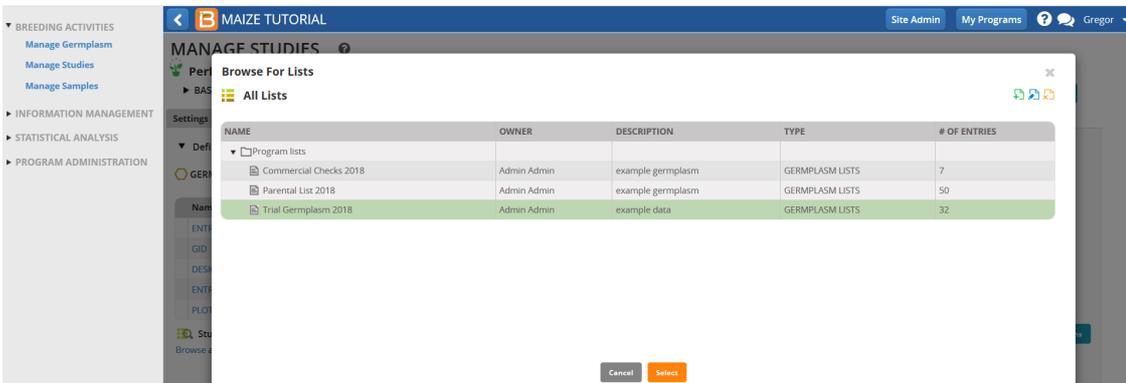


Germplasm

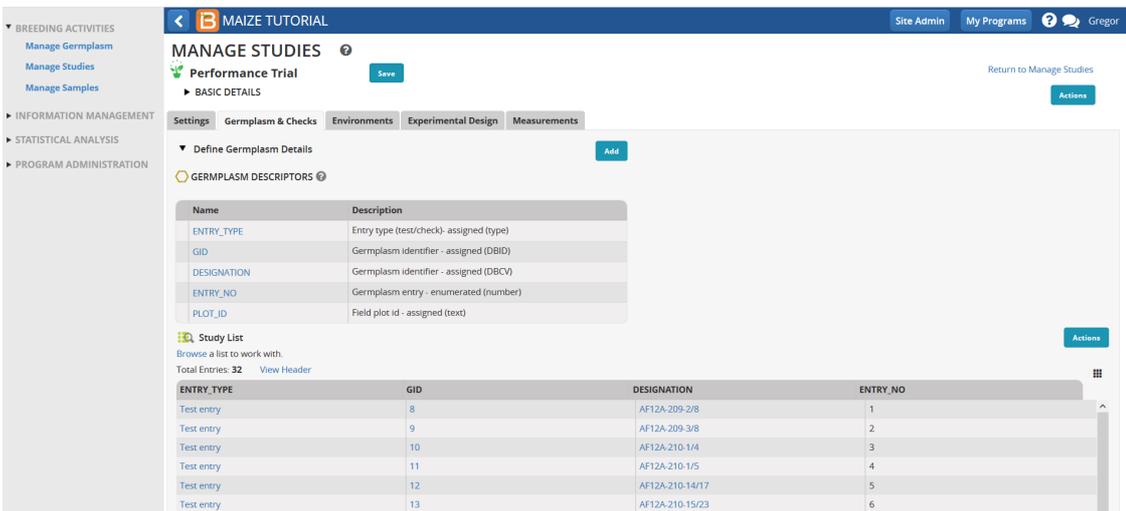
- Under Germplasm Tab, **Browse** for a germplasm list.



- 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.

The screenshot shows the 'Define Environments' section of the BMS MAIZE TUTORIAL. It includes two tables for 'ENVIRONMENT DETAILS' and 'STUDY CONDITIONS'. Below these, there is a form to 'Specify the number of environments for this study' set to 4. A table titled 'Specify Environment Details' shows 4 environments, each with a 'LOCATION_NAME' dropdown menu. The dropdowns are currently set to 'Unspecified Location - (NOLOC)'. There are radio buttons for 'Breeding locations' and 'All locations types', and a checked checkbox for 'Show only favorite locations'.

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:

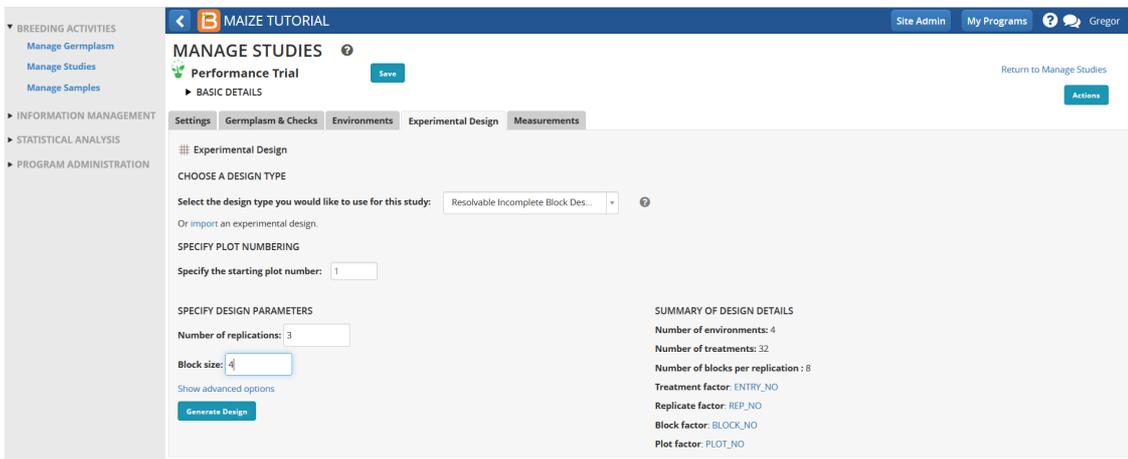
- Environment 1: Agua Fria - (AF)
 - Environment 2: Sabana Del Medio - (SDM)
 - Environment 3: Jutiapa - (JUT)
 - Environment 4: Tlaltizapan - (TLA)
- Select the correct location name from the favorite location drop down menu. **The correct name should match the environment number of the example data.**

The screenshot shows the 'Specify Environment Details' section of the BMS MAIZE TUTORIAL. It includes a table with 4 environments. The 'LOCATION_NAME' dropdown menus are now populated with the correct location names: 'Agua Fria - (AF)', 'Sabana Del Medio - (SDM)', 'Jutiapa - (JUT)', and 'Tlaltizapan - (TLA)'. The 'Show only favorite locations' checkbox is checked for each environment.

Experimental Design

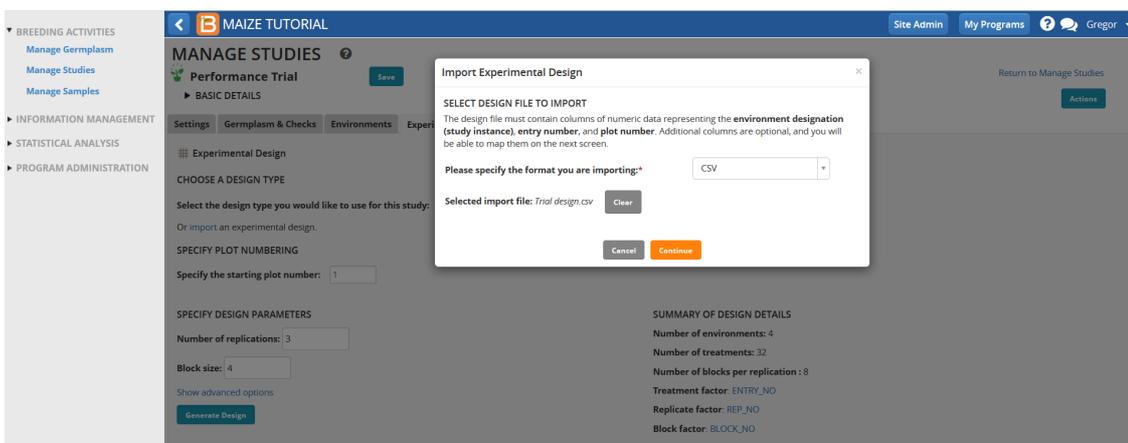
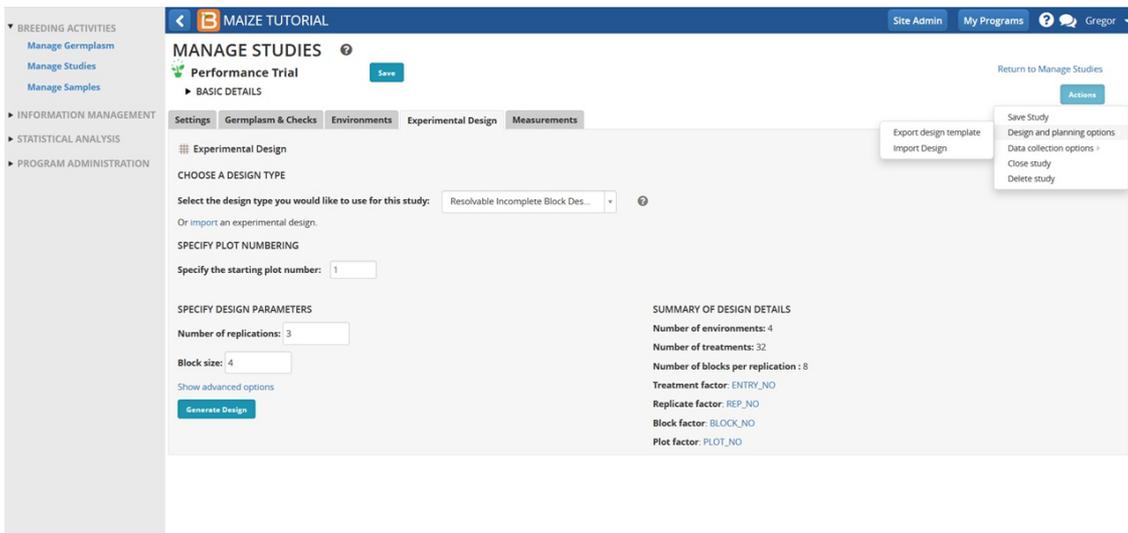
About the Experimental Design

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 / 4plots per block = 8 blocks per replicate).

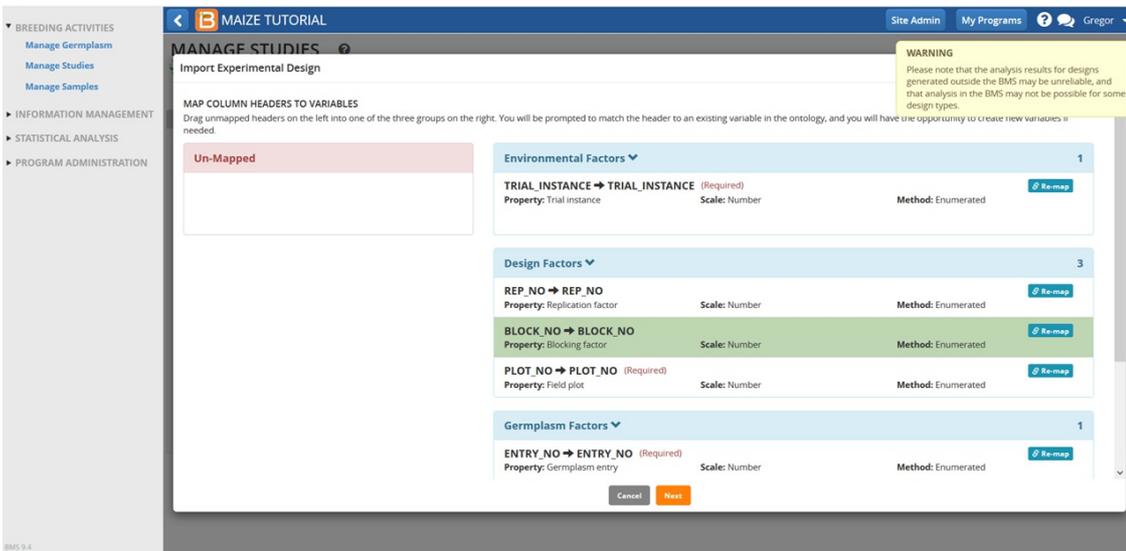


Import Trial Design

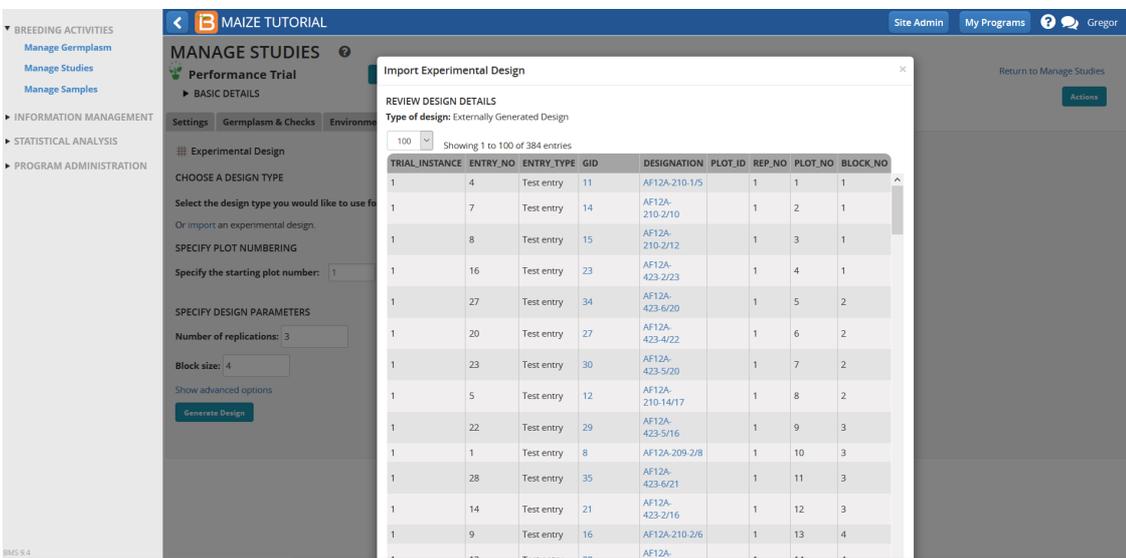
- Every study design generated by the BMS will have a different randomization. To use the tutorial example data, upload an experimental design file to match trial design to preformatted data import files.
Experimental Design File: [Trial Design \(.csv\)](#)
- Export this Trial Design file and save it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



- 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.



- **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.

The screenshot shows the 'MANAGE STUDIES' interface for a 'Performance Trial'. The 'TRAITS' section is currently empty. Below it, the 'Measurements' table is displayed with the following data:

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.

The screenshot shows the 'Add Traits' dialog box with a search bar containing 'ye'. The results list includes:

- 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.

The screenshot shows the 'MANAGE STUDIES' interface with the 'TRAITS' section updated. The 'Measurements' table now includes the following columns:

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.

ENTRY_TYPE	GID	DESIGNATION	ENTRY_NO	REP_NO	PLOT_NO	BLOCK_NO	GY_FW_kgPlot	GMol_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						
Test entry	24	AF12A-423-4/24	22	1	5	2						

- 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).

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

Study Details	Study List Details	Selected Fields
Study Name	ENTRY_TYPE	Plot No.
PI_NAME_TEXT	GID	REP_NO
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		

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

- Proceed without saving the label settings.

- 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	9OVNPxx66G9F
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	9OVNPL9YjhrC2
7	6	1	Agua Fria	AF12A-423-4/22	9OVNPRPcReGQN
8	7	1	Agua Fria	AF12A-423-5/20	9OVNPUlCOonZ
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	9OVNPlxgNZTCx
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	9OVNPlljwF1e
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	9OVNPPHH1OxnJ
33	32	1	Agua Fria	AF12A-423-6/16	9OVNPUprPza2Q
34	33	2	Agua Fria	AF12A-423-2/14	9OVNPy2iMn5vr

- 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.



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

#	DESIGNATION	OWNER	DESCRIPTION	TYPE	# OF ENTRIES
1	AF12A-209-2/8				
2	AF12A-209-3/8				
3	AF12A-210-1/4				
4	AF12A-210-1/5				
5	AF12A-210-14/17				
6	AF12A-210-15/23				
7	AF12A-210-2/10				
8	AF12A-210-2/12				
9	AF12A-210-2/6				
10	AF12A-210-2/7				
11	AF12A-210-2/8				
12	AF12A-210-2/9				
13	AF12A-423-2/14				
14	AF12A-423-2/16				
15	AF12A-423-2/21				
16	AF12A-423-2/23				
17	AF12A-423-2/26				
18	AF12A-423-2/27				
19	AF12A-423-2/28				
20	AF12A-423-2/29				
21	AF12A-423-2/30				
22	AF12A-423-2/31				
23	AF12A-423-2/32				
24	AF12A-423-2/33				
25	AF12A-423-2/34				
26	AF12A-423-2/35				
27	AF12A-423-2/36				
28	AF12A-423-2/37				
29	AF12A-423-2/38				
30	AF12A-423-2/39				
31	AF12A-423-2/40				
32	AF12A-423-2/41				

Browse for Lists

All 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	STOCK
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	
12	AF12A-210-2/9	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.12	
13	AF12A-210-2/10	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.13	
14	AF12A-210-2/11	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.14	
15	AF12A-210-2/12	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.15	
16	AF12A-210-2/13	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.16	
17	AF12A-210-2/14	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.17	
18	AF12A-210-2/15	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.18	
19	AF12A-210-2/16	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.19	
20	AF12A-210-2/17	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.20	
21	AF12A-210-2/18	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.21	
22	AF12A-210-2/19	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.22	
23	AF12A-210-2/20	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.23	
24	AF12A-210-2/21	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.24	
25	AF12A-210-2/22	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.25	
26	AF12A-210-2/23	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.26	
27	AF12A-210-2/24	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.27	
28	AF12A-210-2/25	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.28	
29	AF12A-210-2/26	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.29	
30	AF12A-210-2/27	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.30	
31	AF12A-210-2/28	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.31	
32	AF12A-210-2/29	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.32	

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	STOCK
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	
12	AF12A-210-2/9	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.12	
13	AF12A-210-2/10	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.13	
14	AF12A-210-2/11	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.14	
15	AF12A-210-2/12	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.15	
16	AF12A-210-2/13	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.16	
17	AF12A-210-2/14	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.17	
18	AF12A-210-2/15	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.18	
19	AF12A-210-2/16	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.19	
20	AF12A-210-2/17	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.20	
21	AF12A-210-2/18	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.21	
22	AF12A-210-2/19	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.22	
23	AF12A-210-2/20	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.23	
24	AF12A-210-2/21	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.24	
25	AF12A-210-2/22	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.25	
26	AF12A-210-2/23	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.26	
27	AF12A-210-2/24	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.27	
28	AF12A-210-2/25	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.28	
29	AF12A-210-2/26	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.29	
30	AF12A-210-2/27	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.30	
31	AF12A-210-2/28	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.31	
32	AF12A-210-2/29	Default Seed Store	100000.0g	0.0g	0.0g	From List Import	SID2.32	

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:

Commit seed withdrawal on saving

Buttons: Cancel, Finish

- Save changes.

Inventory

#	DESIGNATION	LOCATION	AVAILABLE	RESERVATION	TOTAL WITHDRAWALS
1	AF12A-209-2/8	Default Seed Store	99520.0g	0.0g	0.0g
2	AF12A-209-3/8	Default Seed Store	99520.0g	0.0g	0.0g
3	AF12A-210-1/4	Default Seed Store	99520.0g	0.0g	0.0g
4	AF12A-210-1/5	Default Seed Store	99520.0g	0.0g	0.0g
5	AF12A-210-14/17	Default Seed Store	99520.0g	0.0g	0.0g
6	AF12A-210-15/23	Default Seed Store	99520.0g	0.0g	0.0g
7	AF12A-210-2/10	Default Seed Store	99520.0g	0.0g	0.0g
8	AF12A-210-2/12	Default Seed Store	99520.0g	0.0g	0.0g
9	AF12A-210-2/6	Default Seed Store	99520.0g	0.0g	0.0g
10	AF12A-210-2/7	Default Seed Store	99520.0g	0.0g	0.0g
11	AF12A-210-2/8	Default Seed Store	99520.0g	0.0g	0.0g
12	AF12A-210-2/9	Default Seed Store	99520.0g	0.0g	0.0g
13	AF12A-423-2/14	Default Seed Store	99520.0g	0.0g	0.0g

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

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

#	DESIGNATION	LOCATION	AVAILABLE	RESERVATION	TOTAL WITHDRAWALS	COMMENT	STOCKID	SEED_SOURCE	LOT_ID
1	AF12A-209-2/8	Default Seed Store	99520.0g	0.0g	480.0g	From List Import	SID2-1		16
2	AF12A-209-3/8	Default Seed Store	99520.0g	0.0g	480.0g	From List Import	SID2-2		17
3	AF12A-210-1/4	Default Seed Store	99520.0g	0.0g	480.0g	From List Import	SID2-3		18
4	AF12A-210-1/5	Default Seed Store	99520.0g	0.0g	480.0g	From List Import	SID2-4		19
5	AF12A-210-14/17	Default Seed Store	99520.0g	0.0g	480.0g	From List Import	SID2-5		20
6	AF12A-210-15/23	Default Seed Store	99520.0g	0.0g	480.0g	From List Import	SID2-6		21
7	AF12A-210-2/10	Default Seed Store	99520.0g	0.0g	480.0g	From List Import	SID2-7		22
8	AF12A-210-2/12	Default Seed Store	99520.0g	0.0g	480.0g	From List Import	SID2-8		23
9	AF12A-210-2/6	Default Seed Store	99520.0g	0.0g	480.0g	From List Import	SID2-9		25
10	AF12A-210-2/7	Default Seed Store	99520.0g	0.0g	480.0g	From List Import	SID2-10		24
11	AF12A-210-2/8	Default Seed Store	99520.0g	0.0g	480.0g	From List Import	SID2-11		27

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