

# Design F2 Nursery, Advance, & Harvest F3 Seed

## BMS 12.0 Tutorials

# Summary

This tutorial describes how to design an F2 nursery with checks.

- [Start a New Nursery](#)
- [Nursery Details](#)
- [Add Selection Unit & Traits](#)
- [Germplasm & Checks](#)
- [Collect Trait Data & Make Selections](#)
- [Export Nursery Book](#)
- [Import Measurements](#)
- [Advance by Single Plant Selection to F3](#)
- [Harvest F3 Seed](#)
- [Review Germplasm Details](#)

# Start a New Nursery

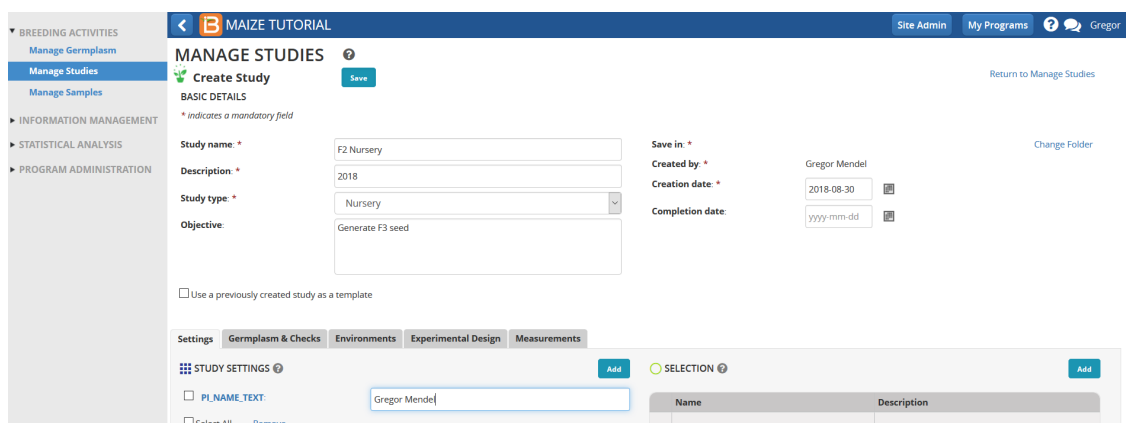
- From Manage Studies tool, select **Start a New Study**.



# Nursery Details

- Name and describe the F2 Nursery.
- Add the name of the investigator using the **Add** function in the STUDY SETTINGS.

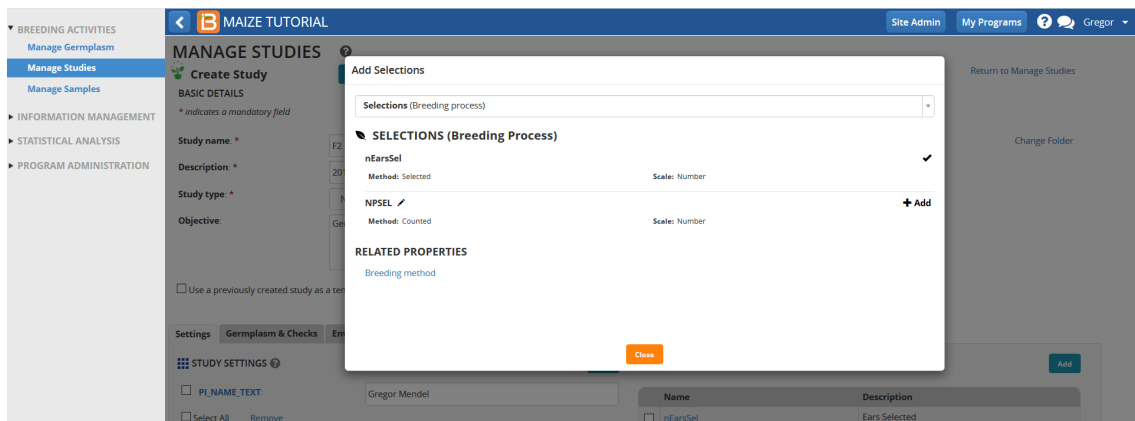
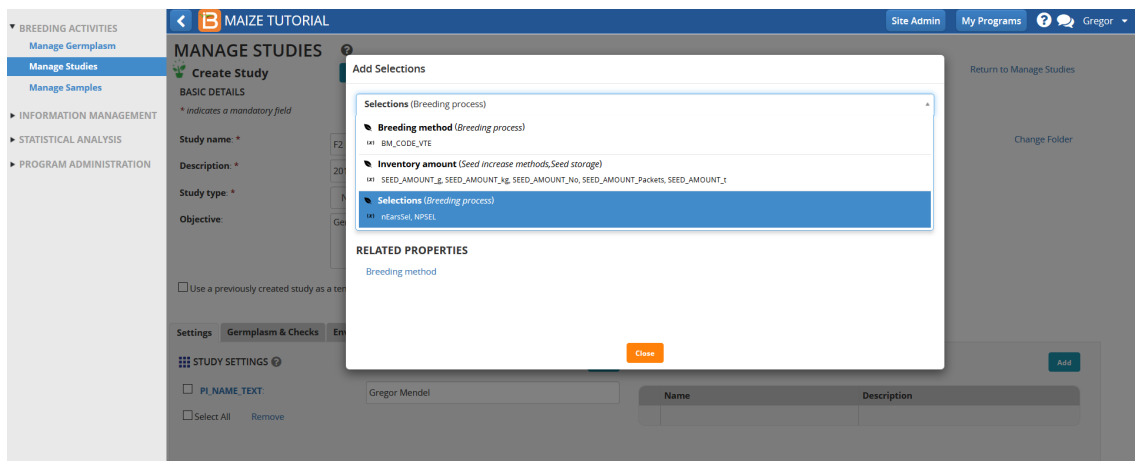
Nursery details can also be configured by choosing a previously saved nursery template if necessary.



# Add Selection Unit & Traits

The F2 Nursery will be advanced by selection of entries based on disease resistance ratings. Unit of selection should be added to the nursery settings.

- Add the units of selection (number of ears selected) using the **Add** function associated with SELECTION. Several Selection criteria are available.
- Selection: Identify Number of ears Selected (nEarSel)



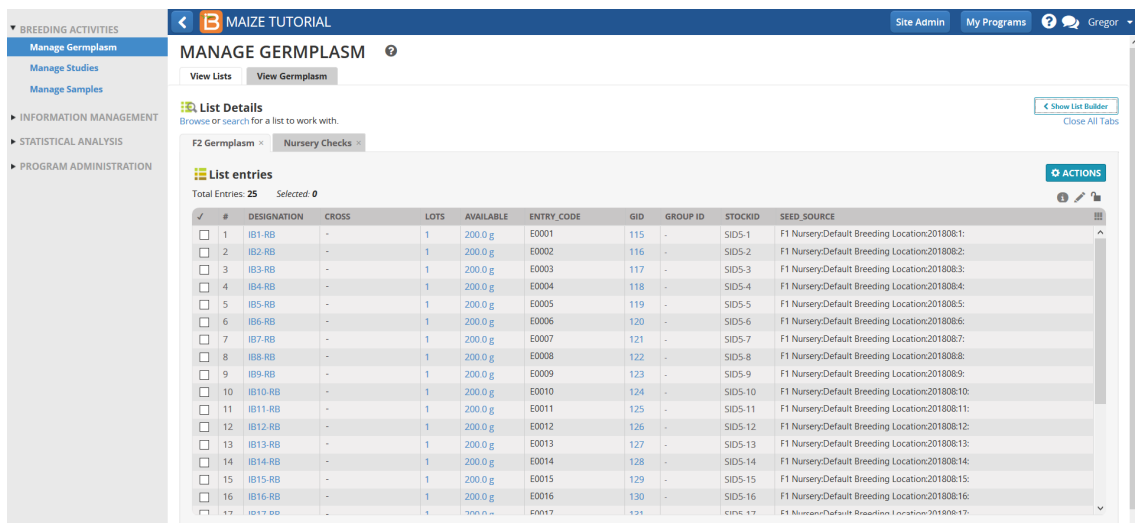
- **Save** the Nursery.

## Germplasm & Checks

The F2 nursery will have check entries in addition to the entries of F2 germplasm. We will prepare a new germplasm list combining the F2 entry list and the nursery check entry list.

- From Manage Germplasm, **browse** for the F2 germplasm list.
- Select the **F2 Germplasm list**.
- **Browse** for the Nursery checks list and select.

Both F2 Germplasm list and Nursery checks list appear in two different tabs.



- Select the **Show List Builder** icon.

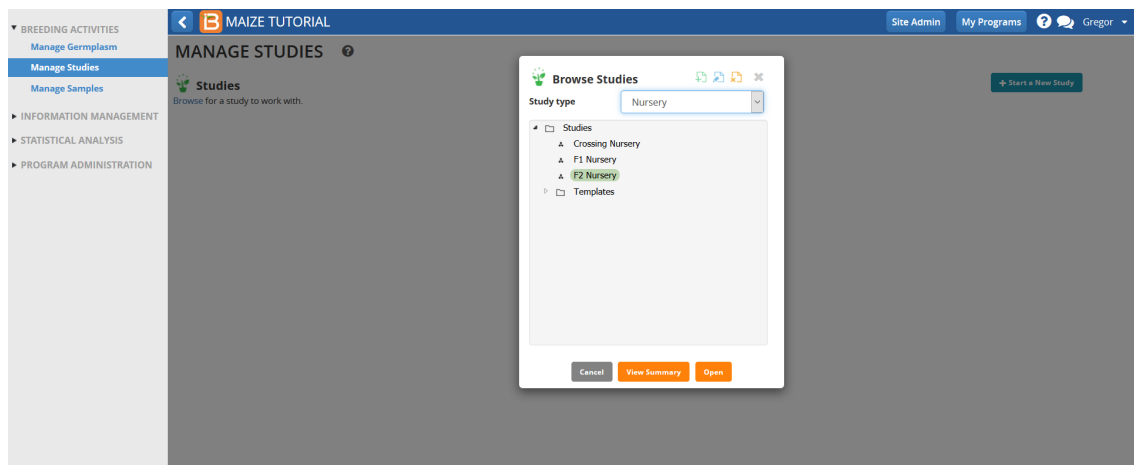
A blank Entry list is generated by the List Builder tool.

- Select all 25 F2 Germplasm entries and drag and drop them to the new list.
- From the Nursery Checks tab, select the three check entries and drag and drop to the new list.

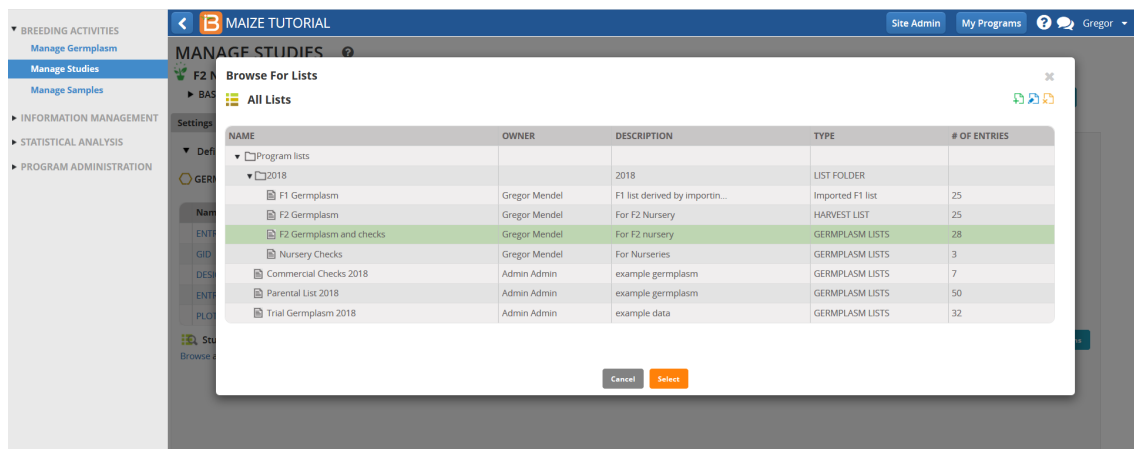
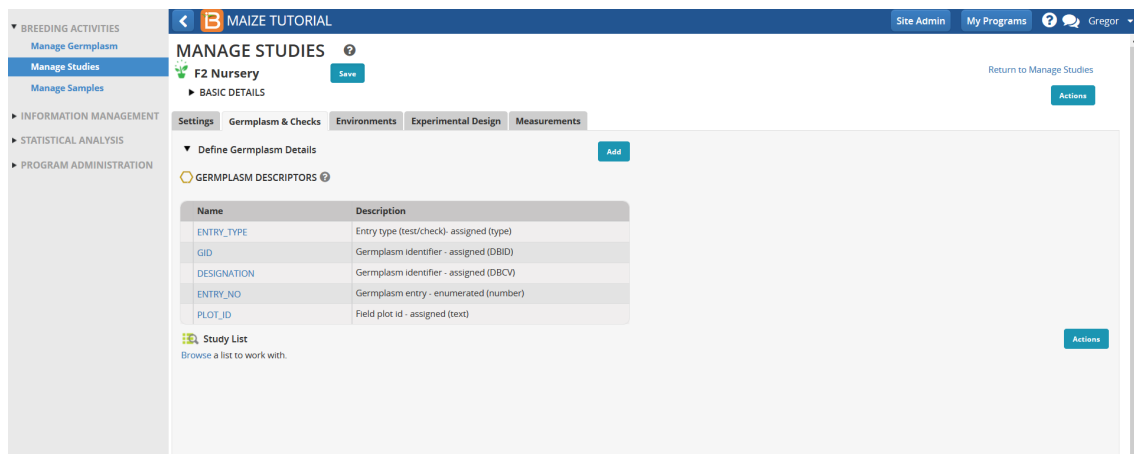
Notice that the new list now has a total of 28 entries.

- Describe the list details and save the new germplasm list that contains F2 germplasm entries and check entries in the 2018 folder.

- From the Manage Studies tool, **Browse** for the saved F2 nursery and **Open**



- From the Germplasm and Checks tab, **browse** for the newly created F2 germplasm and checks list and **Select**.



- Scroll to the last three entries that were selected from the nursery check list
- In the Entry Type column, click on the Test Entry and change each of the three entries from Test entry to Check entry.

**Study List**

Browse a list to work with.

Total Entries: 28 View Header

ENTRY_TYPE	GID	DESIGNATION	ENTRY_NO
Test entry	122	IB11-RB	11
Test entry	126	IB12-RB	12
Test entry	127	IB13-RB	13
Test entry	128	IB14-RB	14
Test entry	129	IB15-RB	15
Test entry	130	IB16-RB	16
Test entry	131	IB17-RB	17
Test entry	132	IB18-RB	18
Test entry	133	IB19-RB	19
Test entry	134	IB20-RB	20
Test entry	135	IB21-RB	21
Test entry	136	IB22-RB	22
Test entry	137	IB23-RB	23
Test entry	138	IB24-RB	24
Test entry	139	IB25-RB	25
Check entry	2	Cargill	26
Check entry	4	KSCO	27
Check entry	7	Pioneer	28

EDIT CHECK

- Check entry
- Test entry
- Check entry
- Disease check
- Stress check

Specify the starting entry number: 1

Confirm that the three check entries are listed as Check entries in the F2 nursery list.

**Study List**

Browse a list to work with.

Total Entries: 28 View Header

ENTRY_TYPE	GID	DESIGNATION	ENTRY_NO
Test entry	122	IB11-RB	11
Test entry	126	IB12-RB	12
Test entry	127	IB13-RB	13
Test entry	128	IB14-RB	14
Test entry	129	IB15-RB	15
Test entry	130	IB16-RB	16
Test entry	131	IB17-RB	17
Test entry	132	IB18-RB	18
Test entry	133	IB19-RB	19
Test entry	134	IB20-RB	20
Test entry	135	IB21-RB	21
Test entry	136	IB22-RB	22
Test entry	137	IB23-RB	23
Test entry	138	IB24-RB	24
Test entry	139	IB25-RB	25
Check entry	2	Cargill	26
Check entry	4	KSCO	27
Check entry	7	Pioneer	28

Specify the starting entry number: 1

- From the Environment tab, select the location name as Default breeding location.

**MANAGE STUDIES**

**F2 Nursery**

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

Define Environments

ENVIRONMENT DETAILS

Name	Description
LOCATION_NAME	Location - selected (DBID)

Specify the number of environments for this study: 1

Specify Environment Details

Environment	LOCATION_NAME
1	Default Breeding Location - (DBL)

10 Showing 1 to 1 of 1 entries

Manage Locations

Breeding locations (selected) All locations types

Show only favorite locations

- From the Experimental Design tab, select Entry list order as the design type.
- Specify the Design Parameters for Checks.
  - Starting position of checks 1
  - Spacing - 9 entries between checks
  - Manner of insertion - Select Insert each check in turn.
- Select **Generate Design** and **Save**.

The Measurement tab is now populated. The Entry Type column identifies the Check and Test entries and the the selection parameter identified (nEarsSel) is present as a column heading.

ENTRY_TYPE	GID	DESIGNATION	ENTRY_NO	PLOT_NO	nEarsSel
Check entry	2	Cargil	26	1	
Test entry	115	IB1-RB	1	2	
Test entry	116	IB2-RB	2	3	
Test entry	117	IB3-RB	3	4	
Test entry	118	IB4-RB	4	5	
Test entry	119	IB5-RB	5	6	
Test entry	120	IB6-RB	6	7	
Test entry	121	IB7-RB	7	8	
Test entry	122	IB8-RB	8	9	
Test entry	123	IB9-RB	9	10	
Check entry	4	KSCO	27	11	

The F2 Nursery entries would be evaluated for resistance to Downy mildew. Notice that **TRAITS** selection tool is available to select Downy mildew severity.

- Select **Add** associated with TRAITS and type downy to select Downy mildew severity (DMSev\_E\_1to5) from the drop down.

Downy Mildew severity will be measured on a 1 to 5 scale.

The Measurement tab now has an added column for data collection with the heading DMSev\_E\_1to5 for downy mildew severity.

**MANAGE STUDIES**  
F2 Nursery

**TRAITS**

Name	Description	Input Variables
<input type="checkbox"/> DMSev_E_1to5	Downy mildew severity BY DMSev - Estimation IN 1-5 disease scoring scale	

**Measurements**

Select Environment: 1 - Default Breeding Location | Records per page: 100 | Showing 1 to 28 of 28 entries

ENTRY_TYPE	GID	DESIGNATION	ENTRY_NO	PLOT_NO	nEarsSel	DMSev_E_1to5
Check entry	2	Cargl	26	1		
Test entry	115	IB1-RB	1	2		
Test entry	116	IB2-RB	2	3		
Test entry	117	IB3-RB	3	4		
Test entry	118	IB4-RB	4	5		
Test entry	119	IB5-RB	5	6		
Test entry	120	IB6-RB	6	7		
Test entry	121	IB7-RB	7	8		
Test entry	122	IB8-RB	8	9		
Test entry	123	IB9-RB	9	10		

- **Save** the nursery.

The F2 nursery is now available for the following activities. (For brevity this tutorial skips activities 1-3, which were covered in previous tutorials).

1. Make labels for nursery plots
2. Make labels for seed withdrawal
3. Field mapping
4. Export of nursery book for data collection

## Collect Trait Data & Make Selections

### Export Nursery Book

- **Export Study book** from the Data collection options of the Actions menu.

**MANAGE STUDIES**  
F2 Nursery

**Actions**

- Save Study
- Design and planning options >
- Crossing options >
- Field map options >
- Data collection options
- Plant level options >
- Advance study options >
- Close study
- Delete study

**Export study book**

**Measurements**

Select Environment: 1 - Default Breeding Location | Records per page: 100 | Showing 1 to 28 of 28 entries

ENTRY_TYPE	GID	DESIGNATION	ENTRY_NO	PLOT_NO	DMSev_E_1to5	nEarsSel
Check entry	2	Cargl	26	1		
Test entry	115	IB1-RB	1	2		
Test entry	116	IB2-RB	2	3		
Test entry	117	IB3-RB	3	4		
Test entry	118	IB4-RB	4	5		
Test entry	119	IB5-RB	5	6		
Test entry	120	IB6-RB	6	7		
Test entry	121	IB7-RB	7	8		
Test entry	122	IB8-RB	8	9		
Test entry	123	IB9-RB	9	10		

- Choose Excel (.xls) as the export format with data collected in plot order. Export the .xls file to your computer.

BREEDING ACTIVITIES

MANAGE GERMPASM

MANAGE STUDIES

MANAGE SAMPLES

INFORMATION MANAGEMENT

STATISTICAL ANALYSIS

PROGRAM ADMINISTRATION

MANAGE STUDIES

F2 Nursery

BASIC DETAILS

Settings

Germpasm & Checks

Environments

Export

Define Measurement Details

TRAITS

Name	Description
<input type="checkbox"/> DMSev_F_1to5	Downy mildew severity BY
<input type="checkbox"/> Select All	Remove

Measurements

Select Environment: 1 - Default Breeding Location

ENTRY_TYPE	GID	DESIGNATION
Check entry	2	Cargil
Test entry	115	IB1-RB
Test entry	116	IB2-RB
Test entry	117	IB3-RB
Test entry	118	IB4-RB
Test entry	119	IB5-RB
Test entry	120	IB6-RB
Test entry	121	IB7-RB

Export Study Book

Please note that serpentine export options are only available if you have already created a field plan.

\* indicates a mandatory field

EXPORT FORMAT

Choose an export format\*

Excel

DATA COLLECTION ORDER

Choose a data collection order\*

Plot Order

Choose Study Environment

<input checked="" type="checkbox"/>	Study Environment #	Has Fieldmap
<input checked="" type="checkbox"/>	1	No

Cancel

Export

- Open the Excel file and review. The observation sheet has two empty columns for data collection for Downy mildew severity and the number of ears selected for each entry. The Checks are identified as C and the Test entries as T in the Entry type colum.

	A	B	C	D	E	F	G	H
1	ENTRY_TYPE	GID	DESIGNATION	ENTRY_NO	PLOT_ID	PLOT_NO	DMSev	EnEarsSel
2	C	12	Cargil	26	J11RP3PF	1		
3	T	115	IB1-RB	1	J11RPMV	2		
4	T	116	IB2-RB	2	J11RPTITv	3		
5	T	117	IB3-RB	3	J11RPrGy	4		
6	T	118	IB4-RB	4	J11RPR2H	5		
7	T	119	IB5-RB	5	J11RPpO	6		
8	T	120	IB6-RB	6	J11RPuGc	7		
9	T	121	IB7-RB	7	J11RPMk3	8		
10	T	122	IB8-RB	8	J11RPyhA	9		
11	T	123	IB9-RB	9	J11RPY28	10		
12	C	4	KSCO	27	J11RPBrF	11		
13	T	124	IB10-RB	10	J11RPT8q	12		
14	T	125	IB11-RB	11	J11RPoUe	13		
15	T	126	IB12-RB	12	J11RPMkff	14		
16	T	127	IB13-RB	13	J11RPJQ	15		
17	T	128	IB14-RB	14	J11RPzA0	16		
18	T	129	IB15-RB	15	J11RPL2C	17		
19	T	130	IB16-RB	16	J11RPnNc	18		
20	T	131	IB17-RB	17	J11RPJYI	19		
21	T	132	IB18-RB	18	J11RPVSE	20		
22	C	7	Pioneer	28	J11RP54d	21		
23	T	133	IB19-RB	19	J11RPMq	22		
24	T	134	IB20-RB	20	J11RPWa	23		
25	T	135	IB21-RB	21	J11RPZ6e	24		
26	T	136	IB22-RB	22	J11RPPug	25		
27	T	137	IB23-RB	23	J11RPek3	26		
28	T	138	IB24-RB	24	J11RPjTKf	27		
29	T	139	IB25-RB	25	J11RPSxp	28		
30								

The file below has hypothetical data collected for Downy mildew severity and the number of ears selected from entries preferred by the breeder after making observations during the season.

- Copy the data present in the last two columns in the file below into the Excel file that was saved on your computer and save.

[illegible]



# Import Measurements

- Select **Import Measurements** from the Data collection options of the Actions menu.

The screenshot shows the 'MANAGE STUDIES' interface for 'F2 Nursery'. The 'Measurements' tab is active. A dropdown menu is open from the 'Actions' button, showing options like 'Save Study', 'Design and planning options', 'Crossing options', 'Field map options', 'Data collection options', 'Plant level options', 'Advance study options', 'Close study', and 'Delete study'. The 'Import Measurements' option is highlighted.

ENTRY_TYPE	GID	DESIGNATION	ENTRY_NO	PLOT_NO	DMSev_E_1to5	nEarsSel
Check entry	2	Cargil	26	1		
Test entry	115	IB1-RB	1	2		
Test entry	116	IB2-RB	2	3		
Test entry	117	IB3-RB	3	4		
Test entry	118	IB4-RB	4	5		
Test entry	119	IB5-RB	5	6		
Test entry	120	IB6-RB	6	7		
Test entry	121	IB7-RB	7	8		
Test entry	122	IB8-RB	8	9		
Test entry	123	IB9-RB	9	10		

- **Browse** for the saved Excel file with data and import.

The screenshot shows the 'MANAGE STUDIES' interface with a dialog box titled 'Select Data File to Import'. The dialog box has a dropdown menu for 'Please specify the format you are importing:' set to 'Excel'. Below it, it says 'Selected import file: F2 Nursery Export.xls' with a 'Clear' button. At the bottom are 'Cancel' and 'Import' buttons.

- Review the imported data and **Save**.

The screenshot shows the 'MANAGE STUDIES' interface with the 'Measurements' tab active. The table displays the imported data with columns: TRIAL\_INSTANCE, ENTRY\_TYPE, GID, DESIGNATION, ENTRY\_NO, PLOT\_NO, DMSev\_E\_1to5, and nEarsSel.

TRIAL_INSTANCE	ENTRY_TYPE	GID	DESIGNATION	ENTRY_NO	PLOT_NO	DMSev_E_1to5	nEarsSel
1	C	2	Cargil	26	1	1	
1	T	115	IB1-RB	1	2	2	32
1	T	116	IB2-RB	2	3	4	
1	T	117	IB3-RB	3	4	3	
1	T	118	IB4-RB	4	5	3	
1	T	119	IB5-RB	5	6	3	
1	T	120	IB6-RB	6	7	3	
1	T	121	IB7-RB	7	8	5	
1	T	122	IB8-RB	8	9	5	
1	T	123	IB9-RB	9	10	3	
1	C	4	KSCD	27	11	1	
1	T	124	IB10-RB	10	12	5	
1	T	125	IB11-RB	11	13	4	
1	T	126	IB12-RB	12	14	1	42

## Advance by Single Plant Selection to F3

These Selections that were made on individual F2 populations will be advanced to F3s.

- Select **Advance Study** from the Advance study option from the Actions menu.

**MANAGE STUDIES**  
F2 Nursery

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

Define Measurement Details

TRAITS

Name	Description	Input Variables
<input type="checkbox"/> DM5sev_E_1to5	Downy mildew severity BY DM5sev - Estimation IN 1-5 disease scoring scale	
<input type="checkbox"/> Select All		

Measurements

Records per page: 100 | Showing 1 to 28 of 28 entries

TRIAL_INSTANCE	ENTRY_TYPE	GID	DESIGNATION	ENTRY_NO	PLOT_NO	DM5sev_E_1to5	nEarsSel
1	C	2	Cargil	26	1	1	
1	T	115	IB1-RB	1	2	2	32
1	T	116	IB2-RB	2	3	4	
1	T	117	IB3-RB	3	4	3	
1	T	118	IB4-RB	4	5	3	
1	T	119	IB5-RB	5	6	3	
1	T	120	IB6-RB	6	7	3	
1	T	121	IB7-RB	7	8	5	
1	T	122	IB8-RB	8	9	5	
1	T	123	IB9-RB	9	10	3	
1	C	4	KSCCO	27	11	1	
1	T	124	IB10-RB	10	12	5	
1	T	125	IB11-RB	11	13	4	
1	T	126	IB12-RB	12	14	1	42

- Select **Continue**

**Advance study**

\* indicates a mandatory field

10

Search:

LOCATION\_NAME

☒ Default Breeding Location - (DBL)

Showing 1 to 1 of 1 entries

☒ Select All

Cancel Continue

- Ears selected correspond to individual F2 plants. Choose the single plant selection breeding method. Since different numbers of lines are selected from each F2 population plots, deselect the box specifying Same number of lines selected for each plot and choose the selection unit, nEarSel. Identify the Harvest Location.

**Advance study**

\* indicates a mandatory field

METHODS

☒ breeding Method is the same for each advance

Single plant selection - DSP

Derivative and Maintenance methods

All methods

Show only favorite methods Manage Methods

LINES

☐ Same number of lines is selected for each plot

Choose a variate that defines the number of lines selected from each plot

nEarSel

LOCATION DETAILS

LOCATION\_NAME

Default Breeding Location - (DBL)

Back Finish

- Select **Finish** and review the pending F3 lines.

**Advance study**  
REVIEW ADVANCED LINES

▼ Advance List Entries  
Total Entries: 267 Selected: 0

ENTRY_NO	DESIGNATION	CROSS	GID	SEED_SOURCE	TRIAL_INSTANCE
1	IB1-RB-1	Pending	F2 Nursery:Default Breeding Location:201808.2	1	
2	IB1-RB-2	Pending	F2 Nursery:Default Breeding Location:201808.2	1	
3	IB1-RB-3	Pending	F2 Nursery:Default Breeding Location:201808.2	1	
4	IB1-RB-4	Pending	F2 Nursery:Default Breeding Location:201808.2	1	
5	IB1-RB-5	Pending	F2 Nursery:Default Breeding Location:201808.2	1	
6	IB1-RB-6	Pending	F2 Nursery:Default Breeding Location:201808.2	1	
7	IB1-RB-7	Pending	F2 Nursery:Default Breeding Location:201808.2	1	
8	IB1-RB-8	Pending	F2 Nursery:Default Breeding Location:201808.2	1	
9	IB1-RB-9	Pending	F2 Nursery:Default Breeding Location:201808.2	1	
10	IB1-RB-10	Pending	F2 Nursery:Default Breeding Location:201808.2	1	
11	IB1-RB-11	Pending	F2 Nursery:Default Breeding Location:201808.2	1	
12	IB1-RB-12	Pending	F2 Nursery:Default Breeding Location:201808.2	1	
13	IB1-RB-13	Pending	F2 Nursery:Default Breeding Location:201808.2	1	
14	IB1-RB-14	Pending	F2 Nursery:Default Breeding Location:201808.2	1	

Back Finish

- Select **Finish** after review and name, describe, and **save** the F3 Germplasm list.

**Save List As**

List Location

- ▼ Crop lists
- ▼ Program lists
  - 2638
    - F3 Germplasm
    - F2 Germplasm
    - F2 Germplasm and checks
    - Nursery Checks
    - Commercial Checks 2018
    - Parental List 2018
    - Trial Germplasm 2018

List Details  
\* Indicates a mandatory field

List Name: F3 Germplasm

List Owner: Gregor Mendel

List Description: For F3 Nursery

List Type: HARVEST LIST

List Date: 2018-08-30

Notes:

Cancel Save

## Harvest F3 Seed

- Select **Generate Stock List** from Advanced List Actions to record the amount of seed harvested.

**MANAGE STUDIES**  
F2 Nursery  
BASIC DETAILS

Settings Germplasm & Checks Environments Experimental Design Measurements Advance List: [F3 Germplasm]

Advance List: F3 Germplasm  
Total Entries: 267 Selected: 0

Notes:

ENTRY_NO	DESIGNATION	CROSS	GID	SEED_SOURCE
1	IB1-RB-1	-	140	F2 Nursery:Default Breeding Location:201808.2
2	IB1-RB-2	-	141	F2 Nursery:Default Breeding Location:201808.2
3	IB1-RB-3	-	142	F2 Nursery:Default Breeding Location:201808.2
4	IB1-RB-4	-	143	F2 Nursery:Default Breeding Location:201808.2
5	IB1-RB-5	-	144	F2 Nursery:Default Breeding Location:201808.2
6	IB1-RB-6	-	145	F2 Nursery:Default Breeding Location:201808.2

View List Details  
Advance List Actions  
Generate Stock List

- Select the check box at the top of the table to highlight all entries. Select **Update Inventory** from the Stock List Actions.

BREEDING ACTIVITIES

Manage Germplasm

Manage Studies

Manage Samples

INFORMATION MANAGEMENT

STATISTICAL ANALYSIS

PROGRAM ADMINISTRATION

MAIZE TUTORIAL

Site Admin My Programs ? Gregor

MANAGE STUDIES

F2 Nursery

Save

Return to Manage Studies

Actions

BASIC DETAILS

Settings Germplasm & Checks Environments Experimental Design Measurements Advance List: [F3 Germplasm] Stock List: [F3 Germplasm]

Stock List: F3 Germplasm

Notes:

Total Entries: 267 Selected: 267

100 Showing 1 to 100 of 267 entries

ENTRY_NO	DESIGNATION	CROSS	GID	SEED_SOURCE	GROUP ID	LOCATION	AMOUNT	UNITS	StockID
<input checked="" type="checkbox"/>	1	IB1-RB-1	-	140	F2 Nursery:Default Breeding Location:201808.2	-	0.0		SID6-1
<input checked="" type="checkbox"/>	2	IB1-RB-2	-	141	F2 Nursery:Default Breeding Location:201808.2	-	0.0		SID6-2
<input checked="" type="checkbox"/>	3	IB1-RB-3	-	142	F2 Nursery:Default Breeding Location:201808.2	-	0.0		SID6-3
<input checked="" type="checkbox"/>	4	IB1-RB-4	-	143	F2 Nursery:Default Breeding Location:201808.2	-	0.0		SID6-4
<input checked="" type="checkbox"/>	5	IB1-RB-5	-	144	F2 Nursery:Default Breeding Location:201808.2	-	0.0		SID6-5
<input checked="" type="checkbox"/>	6	IB1-RB-6	-	145	F2 Nursery:Default Breeding Location:201808.2	-	0.0		SID6-6
<input checked="" type="checkbox"/>	7	IB1-RB-7	-	146	F2 Nursery:Default Breeding Location:201808.2	-	0.0		SID6-7
<input checked="" type="checkbox"/>	8	IB1-RB-8	-	147	F2 Nursery:Default Breeding Location:201808.2	-	0.0		SID6-8
<input checked="" type="checkbox"/>	9	IB1-RB-9	-	148	F2 Nursery:Default Breeding Location:201808.2	-	0.0		SID6-9
<input checked="" type="checkbox"/>	10	IB1-RB-10	-	149	F2 Nursery:Default Breeding Location:201808.2	-	0.0		SID6-10

View List Details

Stock List Actions

Create Labels

Export Inventory File

Import Inventory File

Update Inventory

- Specify storage location, g -weighed, and amount of 150 for all entries.**Save** the nursery.

MAIZE TUTORIAL

Site Admin My Programs ? Gregor

MANAGE STUDIES

F2 Nursery

Save

Return to Manage Studies

Actions

BASIC DETAILS

Settings Germplasm & Checks Environments Experimental Design Measurements Advance List: [F3 Germplasm] Stock List: [F3 Germplasm]

Stock List: F3 Germplasm

Notes:

Total Entries: 267 Selected: 267

100 Showing 1 to 100 of 267 entries

ENTRY_NO	DESIGNATION	CROSS	GID	SEED_SOURCE	GROUP ID	LOCATION	AMOUNT	UNITS	StockID
<input checked="" type="checkbox"/>	1	IB1-RB-1	-	140	F2 Nursery:Default Breeding Location:201808.2	-	0.0		SID6-1
<input checked="" type="checkbox"/>	2	IB1-RB-2	-	141	F2 Nursery:Default Breeding Location:201808.2	-	0.0		SID6-2
<input checked="" type="checkbox"/>	3	IB1-RB-3	-	142	F2 Nursery:Default Breeding Location:201808.2	-	0.0		SID6-3
<input checked="" type="checkbox"/>	4	IB1-RB-4	-	143	F2 Nursery:Default Breeding Location:201808.2	-	0.0		SID6-4
<input checked="" type="checkbox"/>	5	IB1-RB-5	-	144	F2 Nursery:Default Breeding Location:201808.2	-	0.0		SID6-5
<input checked="" type="checkbox"/>	6	IB1-RB-6	-	145	F2 Nursery:Default Breeding Location:201808.2	-	0.0		SID6-6
<input checked="" type="checkbox"/>	7	IB1-RB-7	-	146	F2 Nursery:Default Breeding Location:201808.2	-	0.0		SID6-7
<input checked="" type="checkbox"/>	8	IB1-RB-8	-	147	F2 Nursery:Default Breeding Location:201808.2	-	0.0		SID6-8
<input checked="" type="checkbox"/>	9	IB1-RB-9	-	148	F2 Nursery:Default Breeding Location:201808.2	-	0.0		SID6-9
<input checked="" type="checkbox"/>	10	IB1-RB-10	-	149	F2 Nursery:Default Breeding Location:201808.2	-	0.0		SID6-10

Update Inventory

\* indicates a mandatory field

LOCATION

Choose a storage location to apply to selected entries: \*

Default Seed Store - (DSS)

Manage Locations

Showing:

☒ Seed storage locations
 ☐ All locations types
 ☐ Include favorite locations only

SCALE AND AMOUNT

Choose the scale to apply to selected entries: \*

g - Weighed

Amount: \*

150

COMMENTS

Comments:

Cancel Save

## Review Germplasm Details

150 grams of seed has now been applied to all 267 F3 germplasm entries.

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MANAGE STUDIES

F2 Nursery

Save

Return to Manage Studies

Actions

BASIC DETAILS

Settings Germplasm & Checks Environments Experimental Design Measurements Advance List: [F3 Germplasm] Stock List: [F3 Germplasm]

Stock List: F3 Germplasm

Notes:

Total Entries: 267 Selected: 0

100 Showing 1 to 100 of 267 entries

ENTRY_NO	DESIGNATION	CROSS	GID	SEED_SOURCE	GROUP ID	LOCATION	AMOUNT	UNITS	StockID	COMMENT
<input type="checkbox"/>	1	IB1-RB-1	-	140	F2 Nursery:Default Breeding Location:201808.2	-	Default Seed Store	150.0	SEED_AMOUNT_g	SID6-1
<input type="checkbox"/>	2	IB1-RB-2	-	141	F2 Nursery:Default Breeding Location:201808.2	-	Default Seed Store	150.0	SEED_AMOUNT_g	SID6-2
<input type="checkbox"/>	3	IB1-RB-3	-	142	F2 Nursery:Default Breeding Location:201808.2	-	Default Seed Store	150.0	SEED_AMOUNT_g	SID6-3
<input type="checkbox"/>	4	IB1-RB-4	-	143	F2 Nursery:Default Breeding Location:201808.2	-	Default Seed Store	150.0	SEED_AMOUNT_g	SID6-4
<input type="checkbox"/>	5	IB1-RB-5	-	144	F2 Nursery:Default Breeding Location:201808.2	-	Default Seed Store	150.0	SEED_AMOUNT_g	SID6-5
<input type="checkbox"/>	6	IB1-RB-6	-	145	F2 Nursery:Default Breeding Location:201808.2	-	Default Seed Store	150.0	SEED_AMOUNT_g	SID6-6
<input type="checkbox"/>	7	IB1-RB-7	-	146	F2 Nursery:Default Breeding Location:201808.2	-	Default Seed Store	150.0	SEED_AMOUNT_g	SID6-7
<input type="checkbox"/>	8	IB1-RB-8	-	147	F2 Nursery:Default Breeding Location:201808.2	-	Default Seed Store	150.0	SEED_AMOUNT_g	SID6-8
<input type="checkbox"/>	9	IB1-RB-9	-	148	F2 Nursery:Default Breeding Location:201808.2	-	Default Seed Store	150.0	SEED_AMOUNT_g	SID6-9
<input type="checkbox"/>	10	IB1-RB-10	-	149	F2 Nursery:Default Breeding Location:201808.2	-	Default Seed Store	150.0	SEED_AMOUNT_g	SID6-10

Harvesting the exact same amount of seed from each cross may not be realistic. To record individual amounts, you have the option to exporting the stock list (.xls), enter individual values per entry and import the stock list.

- Select 1B1-RB-1 to review germplasm details.
- Notice that the correct breeding method, Single plant selection, was applied in the creation of this germplasm.
- Select the box next to 'Include derivative and maintenance lines' and select View Pedigree Graph from Pedigree Tree.

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**MANAGE STUDIES**

**F2 Nursery**

**BASIC DETAILS**

Settings Germplasm & Checks

Stock List: *F3 Germplasm*

Total Entries: 267 Selected: 1

100 Showing 1 to 100 of 2

**ENTRY\_NO DESIGNATION**

1 IB1-RB-1

2 IB1-RB-2

3 IB1-RB-3

4 IB1-RB-4

5 IB1-RB-5

6 IB1-RB-6

7 IB1-RB-7

**Germplasm Details: IB1-RB-1 (GID: 140)**

**BASIC DETAILS**

Preferred Name: IB1-RB-1 Creation Date: 20180800 GID: 140

Creation Method: Single plant selection Location: Unknown Reference:

☐ Grouped Line Group id (MGID): 0

**ATTRIBUTES**

☒ Include derivative and maintenance lines Apply View Pedigree Graph

**PEDIGREE TREE**

IB1-RB-1(140) 2 generations

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**MANAGE STUDIES**

**F2 Nursery**

**BASIC DETAILS**

Settings Germplasm & Checks

Stock List: *F3 Germplasm*

Total Entries: 267 Selected: 1

100 Showing 1 to 100 of 2

**ENTRY\_NO DESIGNATION**

1 IB1-RB-1

2 IB1-RB-2

3 IB1-RB-3

4 IB1-RB-4

5 IB1-RB-5

6 IB1-RB-6

7 IB1-RB-7

**Germplasm Details: IB1-RB-1 (GID: 140)**

**Pedigree Graph**

Level 3 ☐ Include derivative and maintenance lines Display

BMS1 GID: 40 BMS26 GID: 65

IB1-RB-1 GID: 140

Pedigree graph of generative methods connects the F3 germplasm to the original crosses.

- Select the box - Include derivative and maintenance lines and select Display.

**MAIZE TUTORIAL** Site Admin My Programs ? Gregor

**MANAGE STUDIES**

**F2 Nursery**

**BASIC DETAILS**

Settings Germplasm & Checks

Stock List: *F3 Germplasm*

Total Entries: 267 Selected: 1

100 Showing 1 to 100 of 2

**ENTRY\_NO DESIGNATION**

1 IB1-RB-1

2 IB1-RB-2

3 IB1-RB-3

4 IB1-RB-4

5 IB1-RB-5

6 IB1-RB-6

7 IB1-RB-7

8 IB1-RB-8

**Germplasm Details: IB1-RB-1 (GID: 140)**

**Pedigree Graph**

Level 3 ☒ Include derivative and maintenance lines Display

IB1 GID: 90

IB1-RB GID: 115

IB1-RB-1 GID: 140

Pedigree graph of derivative and maintenance lines connects the F3 germplasm to the F2 and F1 lines.