

Samples List

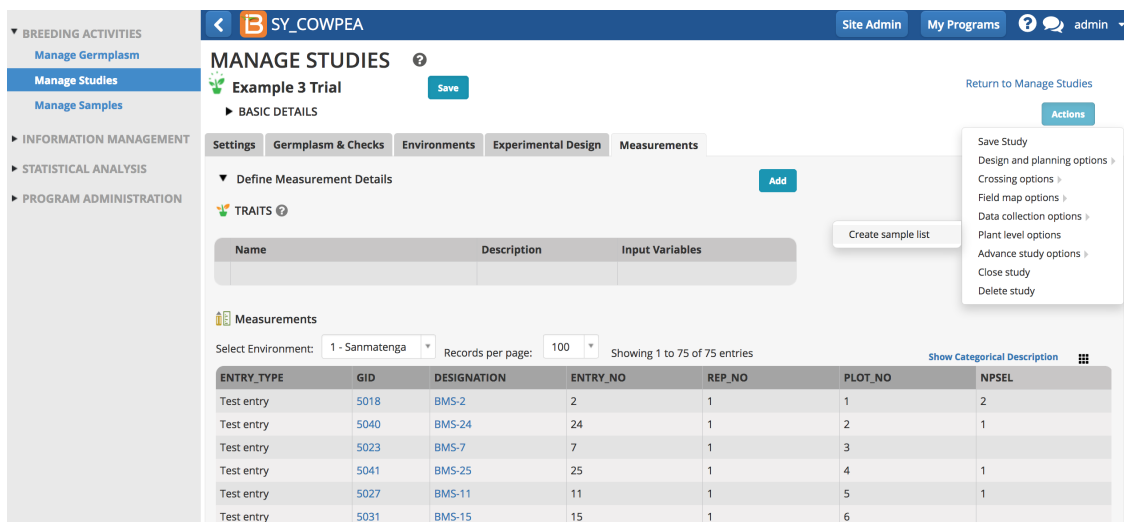
BMS 16.0-17.0 Manual

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Genotype Samples

This functionality allows users to identify and sample individual plants within a plot for genotyping. Samples are giving unique IDs that are used to match genotype data to the plant and plot from which it was sampled. Genotype samples are handled separately from sub-sampling for repeated measures and time-series phenotypic data.

- From a study where [selections](#) have been made, choose 'Create sample list' from the 'Plant level options' of the Actions menu

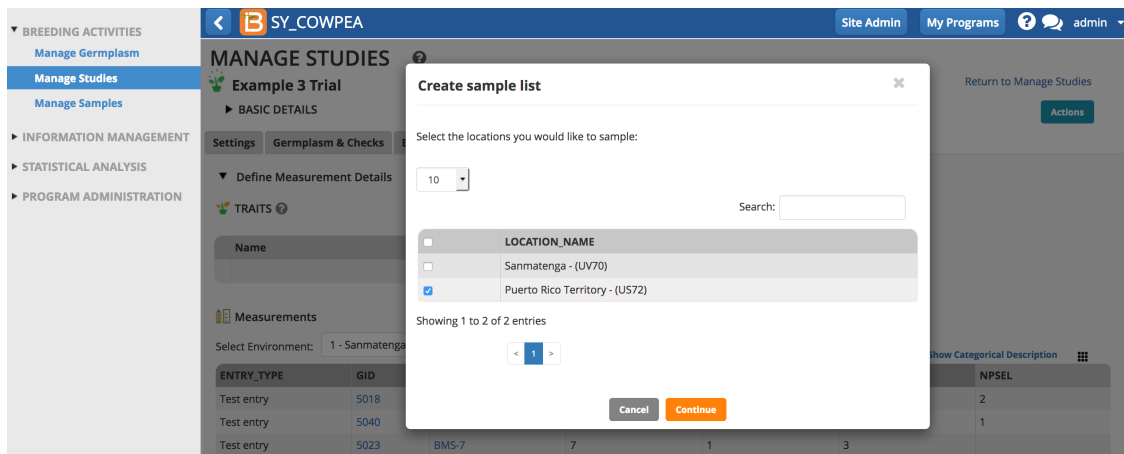


The screenshot shows the SY_COWPEA Manage Studies interface. The left sidebar contains navigation links: BREEDING ACTIVITIES (Manage Germplasm, Manage Studies, Manage Samples), INFORMATION MANAGEMENT, STATISTICAL ANALYSIS, and PROGRAM ADMINISTRATION. The main content area is titled 'MANAGE STUDIES' and shows 'Example 3 Trial' with a 'Save' button. Below this are tabs for Settings, Germplasm & Checks, Environments, Experimental Design, and Measurements. The 'Define Measurement Details' section is active, showing a table with columns: Name, Description, and Input Variables. A table below lists measurements with columns: ENTRY_TYPE, GID, DESIGNATION, ENTRY_NO, REP_NO, PLOT_NO, and NPSEL. The 'Actions' menu is open, showing options: Save Study, Design and planning options, Crossing options, Field map options, Data collection options, Plant level options (highlighted), Advance study options, Close study, and Delete study. The 'Create sample list' option is selected.

| ENTRY_TYPE | GID | DESIGNATION | ENTRY_NO | REP_NO | PLOT_NO | NPSEL |
|------------|------|-------------|----------|--------|---------|-------|
| Test entry | 5018 | BMS-2 | 2 | 1 | 1 | 2 |
| Test entry | 5040 | BMS-24 | 24 | 1 | 2 | 1 |
| Test entry | 5023 | BMS-7 | 7 | 1 | 3 | |
| Test entry | 5041 | BMS-25 | 25 | 1 | 4 | 1 |
| Test entry | 5027 | BMS-11 | 11 | 1 | 5 | 1 |
| Test entry | 5031 | BMS-15 | 15 | 1 | 6 | |

In this example NPSEL (number of plants selected) indicates how many plants from each plot will be sampled.

- Choose the instances you would like to sample.



The screenshot shows the SY_COWPEA Manage Studies interface with the 'Create sample list' dialog box open. The dialog box prompts the user to 'Select the locations you would like to sample:' and shows a list of locations: Sanmatenga - (UV70) and Puerto Rico Territory - (US72). The 'Continue' button is highlighted.

- Choose the variate that defines the number of samples (in this case NPSEL), and enter the optional details about collector and date.

Create sample list

SAMPLES
* Indicates mandatory fields

Choose variate that defines the number of samples per plot * NPSEL

Taken by admin

Sampling date 2018-08-30

Back Continue

- Save the sample list.

Save sample list

SAVE SAMPLE LIST
* Indicates mandatory fields

List Location

- Crop lists
- Sample lists

List Details

List Name: Example Trial 3 Lab Samples

List Owner: Mariano Crimi

List Description: for SNP genotyping

List Type: SAMPLE LIST

List Date: 2018-08-30

Notes:

Cancel Save

The sample list is now available in the associated study and the sample details are available with other germplasm details.

- Select any germplasm designation link.

Sample List: [Example Trial 3 Lab Samples]

Sample list: Example Trial 3 Lab Samples

Notes:

Total Entries: 5

Showing 1 to 5 of 5 entries

| SAMPLE_ENTRY | DESIGNATION | PLOT_NO | PLANT_NO | SAMPLE_NAME | TAKEN_BY | SAMPLING_DATE |
|--------------|-------------|---------|----------|-------------|-------------|---------------|
| 1 | BMS-2 | 1 | 1 | BMS-2:2 | Admin Admin | 30/08/2018 |
| 2 | BMS-2 | 1 | 2 | BMS-2:3 | Admin Admin | 30/08/2018 |
| 3 | BMS-24 | 2 | 1 | BMS-24:1 | Admin Admin | 30/08/2018 |
| 4 | BMS-25 | 4 | 1 | BMS-25:1 | Admin Admin | 30/08/2018 |
| 5 | BMS-11 | 5 | 1 | BMS-11:1 | Admin Admin | 30/08/2018 |

Sample list Actions

Export sample list

Review sample details in germplasm details pop-up.

- Export the sample list as an .xls file.

BREEDING ACTIVITIES

Manage Germplasm

Manage Studies

Manage Samples

INFORMATION MANAGEMENT

STATISTICAL ANALYSIS

PROGRAM ADMINISTRATION

SY_COWPEA

Site Admin My Programs ? admin

MANAGE STUDIES

Example 3 Trial

Save

Return to Manage Studies

Actions

Settings Germplasm & Checks Environments Experimental Design Measurements Sample List: [Example Trial 3 Lab Samples] X

Sample list: Example Trial 3 Lab Samples

Notes:

Total Entries: 5

Showing 1 to 5 of 5 entries

Sample list Actions

Export sample list

| SAMPLE_ENTRY | DESIGNATION | PLOT_NO | PLANT_NO | SAMPLE_NAME | TAKEN_BY | SAMPLING_DATE |
|--------------|-------------|---------|----------|-------------|-------------|---------------|
| 1 | BMS-2 | 1 | 1 | BMS-2:2 | Admin Admin | 30/08/2018 |
| 2 | BMS-2 | 1 | 2 | BMS-2:3 | Admin Admin | 30/08/2018 |
| 3 | BMS-24 | 2 | 1 | BMS-24:1 | Admin Admin | 30/08/2018 |
| 4 | BMS-25 | 4 | 1 | BMS-25:1 | Admin Admin | 30/08/2018 |
| 5 | BMS-11 | 5 | 1 | BMS-11:1 | Admin Admin | 30/08/2018 |

- Review the sample list in Excel. Sample_NAME and SAMPLE_UID will be needed for the eventual [upload of genotyping data](#).

| | A | B | C | D | E | F | G | H | I | J | K | L | M |
|---|--------------|-------------|---------|----------|-------------|-------------|---------------|---------------|---|---|---|---|---|
| 1 | SAMPLE_ENTRY | DESIGNATION | PLOT_NO | PLANT_NO | SAMPLE_NAME | TAKEN_BY | SAMPLING_DATE | SAMPLE_UID | | | | | |
| 2 | 1 | BMS-2 | 1 | 1 | BMS-2:2 | Admin Admin | 30/08/2018 | BCYZSLz7wgdI | | | | | |
| 3 | 2 | BMS-2 | 1 | 2 | BMS-2:3 | Admin Admin | 30/08/2018 | BCYZSd8vwYmS | | | | | |
| 4 | 3 | BMS-24 | 2 | 1 | BMS-24:1 | Admin Admin | 30/08/2018 | BCYZS8V5TgFvu | | | | | |
| 5 | 4 | BMS-25 | 4 | 1 | BMS-25:1 | Admin Admin | 30/08/2018 | BCYZSKmmjdCEA | | | | | |
| 6 | 5 | BMS-11 | 5 | 1 | BMS-11:1 | Admin Admin | 30/08/2018 | BCYZSnzGiDLi | | | | | |
| 7 | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | |

Sample information can be reviewed for individual germplasm from any list in the system. Links from the sample table take the user to the study or dataset.

BREEDING ACTIVITIES

Manage Germplasm

Manage Nurseries

Manage Trials

INFORMATION MANAGEMENT

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SY_MAIZE

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MANAGE GERmplasm

Germplasm Details: BMS-1 (GID: 15623)

+

NAMES

INVENTORY INFORMATION

LISTS

SAMPLES

| SAMPLE ID | SAMPLE LIST | STUDY NAME | PLOT ID | PLANT ID | GENOTYPING DATASET |
|---------------|-------------------|---------------------------------------|---------------|---------------|-------------------------------------------|
| CY5D5STDxOePt | 100x3 sample list | Genotyping 4K Markers | CY5DPHkY3r4sE | CY5DLJQhxsglu | 4000markers 100 entries, 2000M x 100 geno |
| CY5DSVEFOJ8NK | 100x3 sample list | Genotyping 4K Markers | CY5DPHbMXqDY6 | CY5DLFAQXW78s | |
| CY5DSvhugIS1P | 100x3 sample list | Genotyping 4K Markers | CY5DPG6qbF621 | CY5DLouAFCDLi | |

In this example, 3 plants belonging to germplasm BMS-1 have been sampled. The first plant was genotyped twice, once with a set of 4000 markers and once with a set of 2000 markers.

BREEDING ACTIVITIES

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Manage Samples

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MANAGE SAMPLES

LIST DETAILS

Browse or search for a list of samples to view

Open sample list

NAME

OWNER

DESCRIPTION

▼ Crop lists

▼ Sample lists

10 sample sets

1000 germ 100NPSEL

100germ 10NPSEL

100K

Aphid Res Screen

MC1

SNP Samples

Admin Admin

Admin Admin

Admin Admin

Admin Admin

Admin Admin

Admin Admin

Admin Admin

for genotyping and identification of aphid resistance alleles

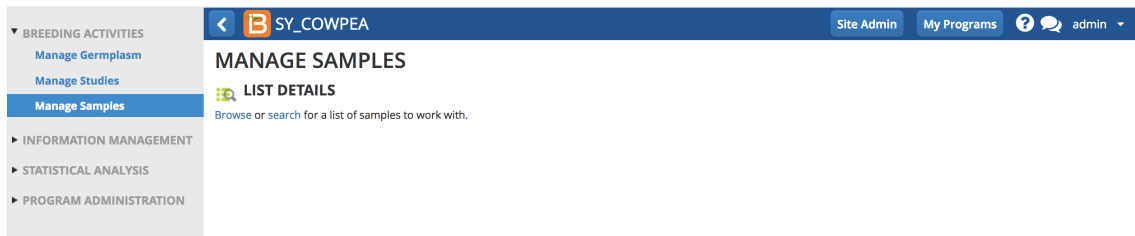
2018

Cancel

OK

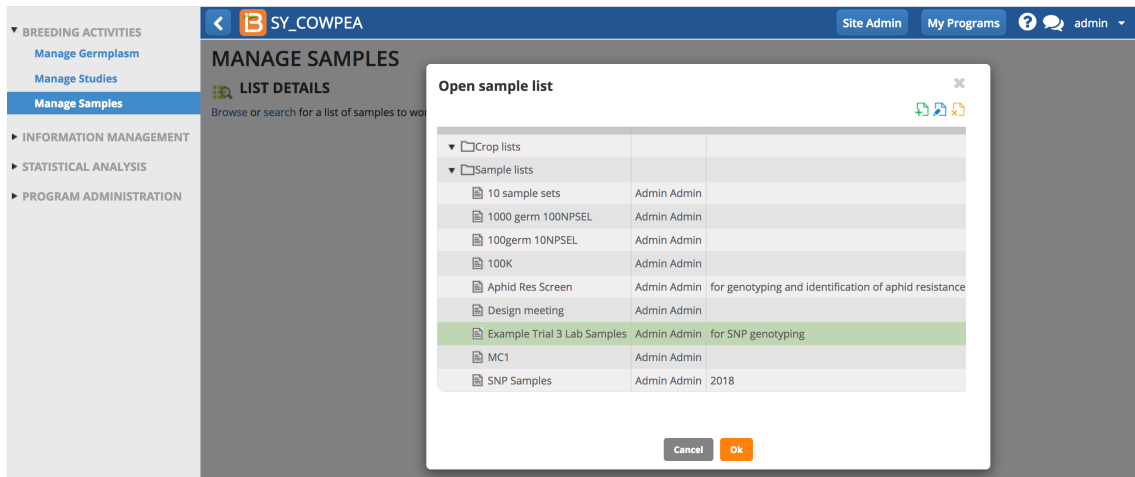
Manage Samples

Browse or search for sample lists.



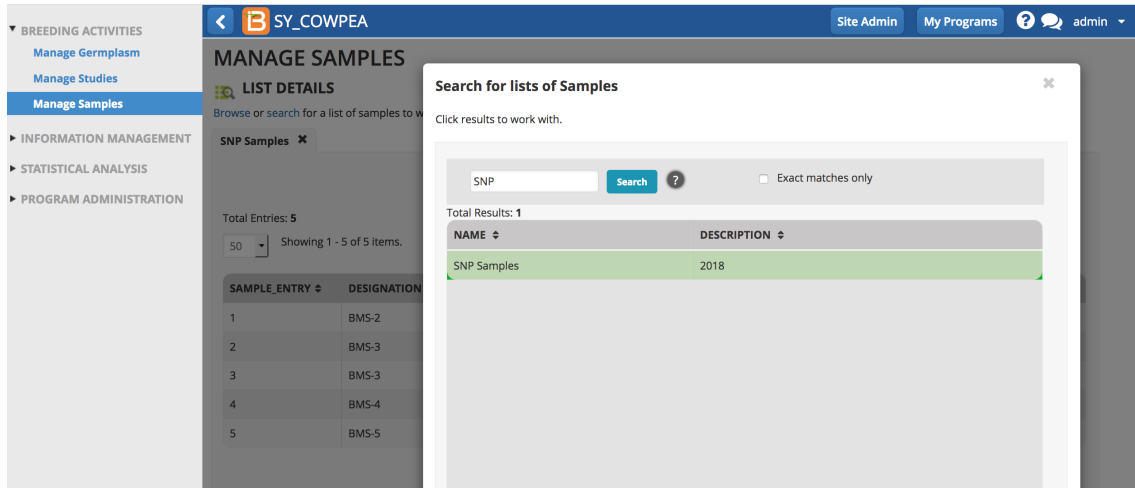
Browse

- Select Browse. Highlight the list of interest from the directory and select OK.



Search

- Enter a partial or exact list name to search the directory. Select the list of interest and close the pop-up.



Export Sample List

- Export list (.csv) from the Actions menu.

BREEDING ACTIVITIES

Manage Germplasm

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Manage Samples

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MANAGE SAMPLES

LIST DETAILS

Browse or search for a list of samples to work with.

Example Trial 3 Lab Samples

Total Entries: 5

50 Showing 1 - 5 of 5 items.

Export list

Import Plate Information

| SAMPLE_ENTRY | DESIGNATION | GID | SAMPLE_NAME | TAKEN_BY | SAMPLING_DATE | SAMPLE_UID | PLATE_ID | WELL |
|--------------|-------------|------|-------------|-------------|---------------|---------------|----------|------|
| 1 | BMS-2 | 5018 | BMS-2:2 | Admin Admin | 30/08/2018 | BCYZSLz7wgdI | | |
| 2 | BMS-2 | 5018 | BMS-2:3 | Admin Admin | 30/08/2018 | BCYZSd8vkwYmS | | |
| 3 | BMS-24 | 5040 | BMS-24:1 | Admin Admin | 30/08/2018 | BCYZS8V5TgFvu | | |
| 4 | BMS-25 | 5041 | BMS-25:1 | Admin Admin | 30/08/2018 | BCYZSKmmjdcEA | | |
| 5 | BMS-11 | 5027 | BMS-11:1 | Admin Admin | 30/08/2018 | BCYZSnzGIDL1i | | |

Edit Plate Details

- Open the .csv in a program like Excel. Add columns PLATE_ID and WELL to record plate information. Fill the PLATE_ID and WELL details. Save the .csv file.

| | A | B | C | D | E | F | G | H | I | J | K | L | M |
|---|--------------|-------------|-------------|-------------|---------------|---------------|----------|------|------|---|---|---|---|
| 1 | SAMPLE_ENTRY | DESIGNATION | SAMPLE_NAME | TAKEN_BY | SAMPLING_DATE | SAMPLE_UID | PLATE_ID | WELL | GID | | | | |
| 2 | 1 | BMS-2 | BMS-2:2 | Admin Admin | 30/08/2018 | BCYZSLz7wgdI | 83018 | A1 | 5018 | | | | |
| 3 | 2 | BMS-2 | BMS-2:3 | Admin Admin | 30/08/2018 | BCYZSd8vkwYmS | 83018 | A2 | 5018 | | | | |
| 4 | 3 | BMS-24 | BMS-24:1 | Admin Admin | 30/08/2018 | BCYZS8V5TgFvu | 83018 | A3 | 5040 | | | | |
| 5 | 4 | BMS-25 | BMS-25:1 | Admin Admin | 30/08/2018 | BCYZSKmmjdcEA | 83018 | A4 | 5041 | | | | |
| 6 | 5 | BMS-11 | BMS-11:1 | Admin Admin | 30/08/2018 | BCYZSnzGIDL1i | 83018 | A5 | 5027 | | | | |

Import Plate Details

- Select .csv file to import.

BREEDING ACTIVITIES

Manage Germplasm

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MANAGE SAMPLES

LIST DETAILS

Browse or search for a list of samples to work with.

Example Trial 3 Lab Samples

Total Entries: 5

50 Showing 1 - 5 of 5 items.

Select Data File to Import

* Indicates a mandatory field

Please specify the format you are importing: CSV

Selected import file: Example Trial 3 Lab Samples.csv

Clear

Cancel Import

- Confirm the mapping of column headings and Proceed.

BREEDING ACTIVITIES

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Manage Samples

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MANAGE SAMPLES

LIST DETAILS

Browse or search for a list of samples to work with.

Example Trial 3 Lab Samples

Total Entries: 5

50 Showing 1 - 5 of 5 items.

Select Mapping

* Indicates a mandatory field

Please specify the header for SAMPLE_UID: *

Please specify the header for PLATE_ID: *

Please specify the header for WELL: *

Back Proceed

Review the plate details.

BREEDING ACTIVITIES

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MANAGE SAMPLES

LIST DETAILS

Browse or search for a list of samples to work with.

Example Trial 3 Lab Samples

Total Entries: 5

50Showing 1 - 5 of 5 items.

Actions

| SAMPLE_ENTRY | DESIGNATION | GID | SAMPLE_NAME | TAKEN_BY | SAMPLING_DATE | SAMPLE_UID | PLATE_ID | WELL |
|--------------|-------------|------|-------------|-------------|---------------|---------------|----------|------|
| 1 | BMS-2 | 5018 | BMS-2:2 | Admin Admin | 30/08/2018 | BCYZSLzI7wgdI | 83018 | A1 |
| 2 | BMS-2 | 5018 | BMS-2:3 | Admin Admin | 30/08/2018 | BCYZSd8vkwYmS | 83018 | A2 |
| 3 | BMS-24 | 5040 | BMS-24:1 | Admin Admin | 30/08/2018 | BCYZS8V5TgFvu | 83018 | A3 |
| 4 | BMS-25 | 5041 | BMS-25:1 | Admin Admin | 30/08/2018 | BCYZSKmmjdCEA | 83018 | A4 |
| 5 | BMS-11 | 5027 | BMS-11:1 | Admin Admin | 30/08/2018 | BCYZSnzGIDL1i | 83018 | A5 |

1

Related

- [Advancement](#)
- [Manage Genotype Data](#)