

## Study Germplasm

BMS 13.0-14.0 Manual

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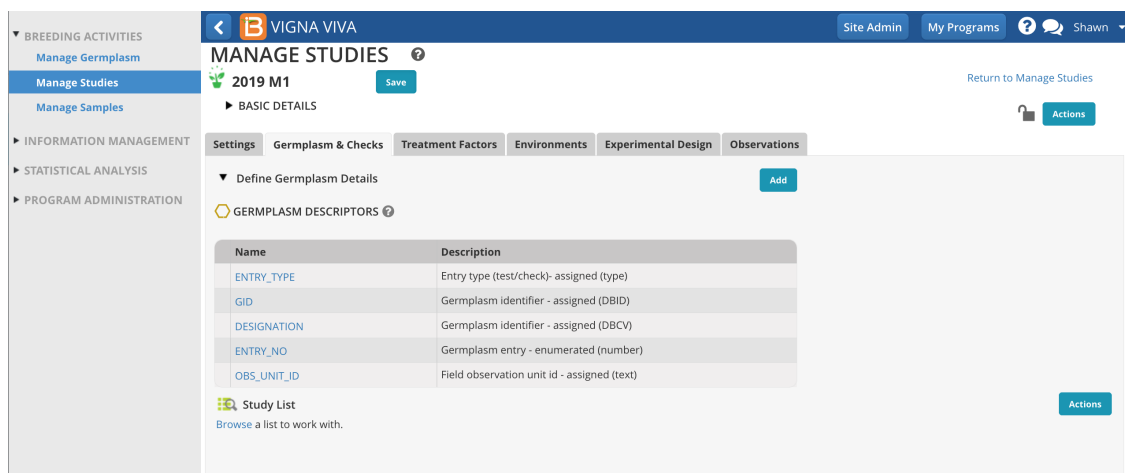
[Related Topics](#)

## About

The Germplasm and Checks tab specifies the germplasm evaluated the study and defines the roles that the entries will play by modifying the entry types (Test, Check, etc).

## Choose Germplasm List

- Choose an existing germplasm list to be evaluated by clicking on the **Browse** link.



The screenshot shows the VIGNA VIVA 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 a '2019 M1' study. The 'Germplasm & Checks' tab is selected, displaying 'Define Germplasm Details' with an 'Add' button. Below this is a section for 'GERMPLASM DESCRIPTORS' with a table of descriptors.

| Name        | Description                                 |
|-------------|---|
| ENTRY_TYPE  | Entry type (test/check) - assigned (type)   |
| GID         | Germplasm identifier - assigned (DBID)      |
| DESIGNATION | Germplasm identifier - assigned (DBCv)      |
| ENTRY_NO    | Germplasm entry - enumerated (number)       |
| OBS_UNIT_ID | Field observation unit id - assigned (text) |

Below the table is a 'Study List' section with a 'Browse a list to work with.' link and an 'Actions' button.

- Select the desired entry list:

MC PROGRAM

[Site Admin](#)
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[admin](#)

## MANAGE STUDIES ?

**Create**

BASIC DATA

\* indicators

Study numbers

Description

Study type

Objectives

Use analysis tool

Settings

▼ Definitions

GERMPLASM

### Browse For Lists

All Lists

| Icon | Name            | User            | Type                           | Count                      |
|------|-----------------|-----------------|--------------------------------|----------------------------|
|      | Advance2        | Admin Admin     | -                              | HARVEST LIST<br>2          |
|      | Advanced Plants | Admin Admin     | -                              | HARVEST LIST<br>5          |
|      | Advances        | Admin Admin     | -                              | HARVEST LIST<br>1          |
|      | advb            | Admin Admin     | -                              | HARVEST LIST<br>1          |
|      | b               | Admin Admin     | -                              | GERMPLASM LISTS<br>40      |
|      | bc              | Admin Admin     | -                              | HARVEST LIST<br>3          |
|      | bc1             | Admin Admin     | -                              | HARVEST LIST<br>3          |
|      | check           | Admin Admin     | -                              | GERMPLASM LISTS<br>1       |
|      | CL              | Admin Admin     | F1 list derived by using th... | Crossing tool F1 list<br>1 |
|      | cross           | Admin Admin     | F1 list derived by using th... | Crossing tool F1 list<br>1 |
|      | CrossList123    | Mariela Laborde | F1 list derived by using th... | Crossing tool F1 list<br>4 |
|      | Cuts            | Admin Admin     | -                              | GERMPLASM LISTS<br>2       |

Cancel
Select

| Name        | Description                              |
|-------------|--|
| ENTRY_TYPE  | Entry type (test/check)- assigned (type) |
| GID         | Germplasm identifier - assigned (DBID)   |
| DESIGNATION | Germplasm identifier - assigned (DBCIV)  |
| ENTRY_NO    | Germplasm entry - enumerated (number)    |
| PLOT_ID     | Field plot id - assigned (text)          |

- Once the list is selected you should see the Study list populated with the list information.

BREEDING ACTIVITIES

Manage Germplasm

Manage Samples

Manage Studies

INFORMATION MANAGEMENT

STATISTICAL ANALYSIS

PROGRAM ADMINISTRATION

BMC PROGRAM

Site Admin My Programs admin

Use a previously created study as a template

Settings

Germplasm & Checks

Environments

Experimental Design

Measurements

Define Germplasm Details

GERMPLASM DESCRIPTORS

| Name        | Description                              |
|-------------|--|
| ENTRY_TYPE  | Entry type (testcheckedly assigned type) |
| GID         | Germplasm Identifier - assigned (DBID)   |
| DESIGNATION | Germplasm Identifier - assigned (DBC)    |
| ENTRY_NO    | Germplasm entry - enumerated (number)    |
| PLOT_ID     | Field plot id - assigned (text)          |

Study List

Browse a list to work with.

Total Entries: 200 View Header

| ENTRY_TYPE | GID   | DESIGNATION    | ENTRY_NO |
|------------|-------|----------------|----------|
| Test entry | 22385 | PARENT LINE 25 | 25       |
| Test entry | 22386 | PARENT LINE 26 | 26       |
| Test entry | 22387 | PARENT LINE 27 | 27       |
| Test entry | 22388 | PARENT LINE 28 | 28       |
| Test entry | 22389 | PARENT LINE 29 | 29       |
| Test entry | 22390 | PARENT LINE 30 | 30       |
| Test entry | 22391 | PARENT LINE 31 | 31       |
| Test entry | 22392 | PARENT LINE 32 | 32       |
| Test entry | 22393 | PARENT LINE 33 | 33       |
| Test entry | 22394 | PARENT LINE 34 | 34       |
| Test entry | 22395 | PARENT LINE 35 | 35       |
| Test entry | 22396 | PARENT LINE 36 | 36       |
| Test entry | 22397 | PARENT LINE 37 | 37       |
| Test entry | 22398 | PARENT LINE 38 | 38       |
| Test entry | 22399 | PARENT LINE 39 | 39       |
| Test entry | 22400 | PARENT LINE 40 | 40       |
| Test entry | 22401 | PARENT LINE 41 | 41       |
| Test entry | 22402 | PARENT LINE 42 | 42       |
| Test entry | 22403 | PARENT LINE 43 | 43       |

Specify Numbering

Specify the starting entry number: 1

## Add Germplasm Descriptors

This mechanisms allows you to add more information about the germplasm. This might become handy when looking at the entries both from the **Measurements** tab and the **Germplasm & Checks** tab.

- Click on **Add button** to add descriptors. Once the descriptors popup is shown click on **Add** to add the desired descriptor.

BREEDING ACTIVITIES

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My Programs

admin

Manage Germplasm

Manage Samples

Manage Studies

INFORMATION MANAGEMENT

STATISTICAL ANALYSIS

PROGRAM ADMINISTRATION

MANAGE STUDIES

Create Study

BASIC DETAILS

Study name: \*

Description: \*

Study type: \*

Objective:

Settings

Germplasm & Checks

Define Germplasm Details

GERMPLASM DESCRIPTORS

| Name        | Description                               |
|-------------|---|
| ENTRY_TYPE  | Entry type (test/check) - assigned (type) |
| GID         | Germplasm identifier - assigned (DBID)    |
| DESIGNATION | Germplasm identifier - assigned (DBCV)    |
| ENTRY_NO    | Germplasm entry - enumerated (number)     |
| PLOT_ID     | Field plot id - assigned (text)           |

Seed source (Germplasm)

SEED SOURCE (Germplasm)

SEED SOURCE

Method: Selected

Scale: Code of SEED\_SOURCE

+

Add

SOURCE

Method: Selected

Scale: Name

+

Add

RELATED PROPERTIES

Cross history

Germplasm id

Entry type

Germplasm stock id

EREP

INBRED LINE

Germplasm entry

TESTER LINE

Germplasm group

Close

Return to Manage Studies

Change Folder

Study List

Browse a list to work with.

Actions

## Add Checks

You can easily define the role of each of your entries. By default the BMS will assign 'Test entry' entry type to all af your entries

- Click on the **Entry Type** column content to change the role of a particular entry. Change the value to the desired one. **Save** once you've defined the entry types of your study list.

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ENTRY\_TYPE

Entry type (test/check)- assigned (type)

GID

Germplasm identifier - assigned (DBID)

DESIGNATION

Germplasm identifier - assigned (DBCY)

ENTRY\_NO

Germplasm entry - enumerated (number)

PLOT\_ID

Field plot id - assigned (text)

Study List

Actions

Browse a list to work with.

Total Entries: 200

View Header

| ENTRY_TYPE | GID   | DESIGNATION    | ENTRY_NO |
|------------|-------|----------------|----------|
| Test entry | 22361 | PARENT LINE 1  | 1        |
| Test entry | 22362 | PARENT LINE 2  | 2        |
| Test entry | 22363 | PARENT LINE 3  | 3        |
| Test entry | 22364 | PARENT LINE 4  | 4        |
| Test entry | 22365 | PARENT LINE 5  | 5        |
| Test entry | 22366 | PARENT LINE 6  | 6        |
| Test entry | 22367 | PARENT LINE 7  | 7        |
| Test entry | 22368 | PARENT LINE 8  | 8        |
| Test entry | 22369 | PARENT LINE 9  | 9        |
| Test entry | 22370 | PARENT LINE 10 | 10       |
| Test entry | 22371 | PARENT LINE 11 | 11       |
| Test entry | 22372 | PARENT LINE 12 | 12       |
| Test entry | 22373 | PARENT LINE 13 | 13       |
| Test entry | 22374 | PARENT LINE 14 | 14       |
| Test entry | 22375 | PARENT LINE 15 | 15       |
| Test entry | 22376 | PARENT LINE 16 | 16       |
| Test entry | 22377 | PARENT LINE 17 | 17       |
| Test entry | 22378 | PARENT LINE 18 | 18       |

1

2

- Click on **Actions>Add types** to modify the available entry types

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ENTRY\_TYPE

Entry type (test/check)- assigned (type)

GID

Germplasm identifier - assigned (DBID)

DESIGNATION

Germplasm identifier - assigned (DBCY)

ENTRY\_NO

Germplasm entry - enumerated (number)

PLOT\_ID

Field plot id - assigned (text)

Study List

Actions

Browse a list to work with.

Total Entries: 200

View Header

Add Types

Code \*

T

Value \*

Test entry

Cancel

Update

Delete

# Randomized Check Distribution

Checks are randomized like all entries in randomized designs (see more[Study Design](#)).

BREEDING ACTIVITIES

Manage Germplasm

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INFORMATION MANAGEMENT

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Save

Return to Manage Studies

BASIC DETAILS

SettingsGermplasm & ChecksTreatment FactorsEnvironmentsExperimental DesignObservations

Experimental Design

CHOOSE A DESIGN TYPE

Select the design type you would like to use for this study: Randomized Complete Block Des...?

Or import an experimental design.

SPECIFY PLOT NUMBERING

Specify the starting plot number: 1

SPECIFY DESIGN PARAMETERS

Number of replications: 3

Generate Design

SUMMARY OF DESIGN DETAILS

Number of environments: 1

Number of treatments: 27

Replicate factor: REP\_NO

Plot factor: PLOT\_NO

Treatment factors:

| NAME     | DESCRIPTION                           | # LEVELS |
|----------|---------------------------------------|----------|
| ENTRY_NO | Germplasm entry - enumerated (number) | 27       |

Randomized Complete Block Design with 25 test entries, 2 checks, 1 environment, and 3 replications.

BREEDING ACTIVITIES

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Save

Return to Manage Studies

BASIC DETAILS

SettingsGermplasm & ChecksTreatment FactorsEnvironmentsExperimental DesignObservations

Define Observation Details

Add

Please save the study to be able to edit observations

Records per page: 100 Showing 1 to 81 of 81 entries

| TRIAL_INSTANCE | ENTRY_TYPE | GID     | DESIGNATION | ENTRY_NO | REP_NO | PLOT_NO |
|----------------|------------|---------|-------------|----------|--------|---------|
| 1              | I          | 1000082 | BMS-11      | 13       | 1      | 13      |
| 1              | C          | 1000097 | CK-1        | 1        | 1      | 14      |
| 1              | T          | 1000096 | BMS-25      | 27       | 1      | 15      |
| 1              | T          | 1000095 | BMS-24      | 26       | 1      | 16      |
| 1              | T          | 1000088 | BMS-17      | 19       | 1      | 17      |
| 1              | C          | 1000098 | CK-2        | 2        | 1      | 18      |
| 1              | T          | 1000085 | BMS-14      | 16       | 1      | 19      |

The two check entries are randomized within each replication.

# Uniform Check Distribution (Non-Random)

Non-randomized designs, based on entry list order, allow for the specification of uniform check interval spacing (see more[Study Design](#)).

BREEDING ACTIVITIES

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MANAGE STUDIES

2019 M1

Save

Return to Manage Studies

BASIC DETAILS

SettingsGermplasm & ChecksTreatment FactorsEnvironmentsExperimental DesignObservations

Experimental Design

CHOOSE A DESIGN TYPE

Select the design type you would like to use for this study: Entry list order?

Or import an experimental design.

SPECIFY PLOT NUMBERING

Specify the starting plot number: 1

SPECIFY DESIGN PARAMETERS

Specify checks

Starting Position \* 1

Spacing \* 10

Manner of Insertion Insert all checks at each position

Generate Design

SUMMARY OF DESIGN DETAILS

Number of environments: 1

Treatment factor: ENTRY\_NO

Plot factor: PLOT\_NO

Entry List Order Design with 25 test entries, 2 checks, 1 environment, and 0 replications.

BREEDING ACTIVITIES

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INFORMATION MANAGEMENT

STATISTICAL ANALYSIS

PROGRAM ADMINISTRATION

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SettingsGermplasm & ChecksTreatment FactorsEnvironmentsExperimental DesignObservations

Define Observation Details

Add

Please save the study to be able to edit observations

Records per page: 100Showing 1 to 31 of 31 entries

| TRIAL_INSTANCE | ENTRY_TYPE | GID     | DESIGNATION | ENTRY_NO | PLOT_NO |
|----------------|------------|---------|-------------|----------|---------|
| 1              | C          | 1000097 | CK-1        | 1        | 1       |
| 1              | C          | 1000098 | CK-2        | 2        | 2       |
| 1              | T          | 1000072 | BMS-1       | 3        | 3       |
| 1              | T          | 1000073 | BMS-2       | 4        | 4       |
| 1              | T          | 1000074 | BMS-3       | 5        | 5       |
| 1              | T          | 1000075 | BMS-4       | 6        | 6       |
| 1              | T          | 1000076 | BMS-5       | 7        | 7       |
| 1              | T          | 1000077 | BMS-6       | 8        | 8       |
| 1              | T          | 1000078 | BMS-7       | 9        | 9       |
| 1              | T          | 1000079 | BMS-8       | 10       | 10      |
| 1              | T          | 1000080 | BMS-9       | 11       | 11      |
| 1              | T          | 1000081 | BMS-10      | 12       | 12      |
| 1              | C          | 1000097 | CK-1        | 1        | 13      |
| 1              | C          | 1000098 | CK-2        | 2        | 14      |
| 1              | T          | 1000082 | BMS-11      | 13       | 15      |

BMS 10.4.2

Two checks inserted uniformly at each position between test entries.

# Related Topics

- [Manage Germplasm](#)
- [Manage Inventory](#)
- [Manage Studies](#)
  - [Settings](#)
  - [Environments](#)
  - [Treatment Factors](#)
  - [Study Design](#)
  - [Observations & Sub-Observations](#)