

Import Germplasm

BMS 11.0 Manual

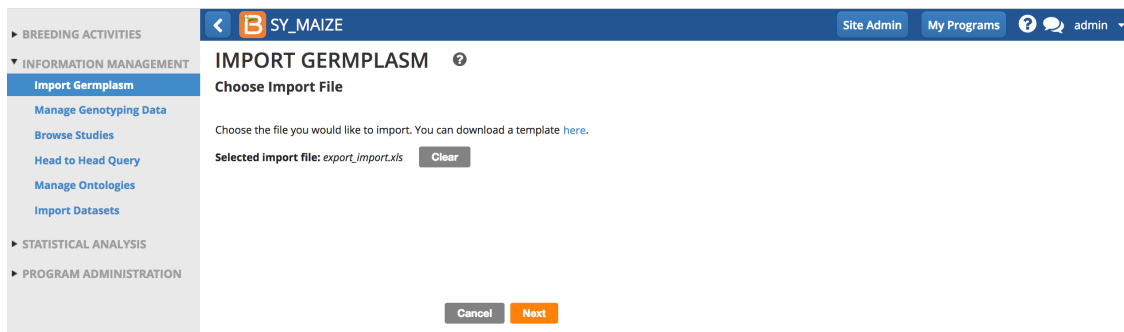
- [Download Template](#)
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Administrative permissions limit germplasm import to program administrators. Contact your program or system administrator for assistance.

Import new germplasm, such as when a shipment of new inventory arrives in a breeding program. Uploading new germplasm list assigns database identifiers ([GIDs](#)) to the germplasm and make appropriate matches to existing pedigrees. Inventory amount and seed storage locations are optional data that can imported along with other germplasm details.

Download Template

- Select Import Germplasm from under Information Management. (This option is only available to those users with administrative permissions.) Download the import germplasm template (.xls).



The template consists of 3 worksheets.

- Description: Metadata about the list. Optional editing to support customization (see Codes below).
- Observation: Germplasm details. ENTRY (1,2,3 ...n) and DESIGNATION (germplasm name) are mandatory.
- Codes: Provides optional column headers to customize germplasm details.

Description Sheet

	A	B	C	D	E	F	G	H	I	J	K
1	ENTRY	DESIGNATION	GID	CROSS	SOURCE	ENTRY CODE	DRVNM	SEED_AMOUNT_g	STOCKID	NOTE	
2											
3											
4											
5											
6											

Observation Sheet

	Section	Information Type	fcode	fname
2	LIST HEADER	LIST_TYPE	COLLMIS	Collecting Mission
3	LIST HEADER	LIST_TYPE	EXTACQ	External Seed Acquisition
4	LIST HEADER	LIST_TYPE	EXTREQ	External Seed Request
5	LIST HEADER	LIST_TYPE	F1	F1 Nursery List
6	LIST HEADER	LIST_TYPE	F2	F2 Nursery List
7	LIST HEADER	LIST_TYPE	GENOTYPING	Genotyping Order List
8	LIST HEADER	LIST_TYPE	HARVEST	Harvest List
9	LIST HEADER	LIST_TYPE	HB	Hybridization Block List
10	LIST HEADER	LIST_TYPE	INTACQ	Internal Seed Acquisition
11	LIST HEADER	LIST_TYPE	INTREQ	Internal Seed Request

Codes Sheet

Edit Default Template

- Enter the mandatory columns of data, ENTRY and DESIGNATION, and any optional data. Save the .xls file.

	A	B	C	D	E	F	G	H	I	J	K	L
1	ENTRY_NO	GID	ENTRY_CODE	DESIGNATION	CROSS	SEED_SOURCE	STOCKID	SEED_AMOUNT_G	NOTES			
2	1			IL001-18				652.00				
3	2			IL002-18				474.00				
4	3			IL003-18				450.00				
5	4			IL004-18				380.00				
6	5			IL005-18				744.00				
7	6			IL006-18				621.00				
8	7			20180512-2-1-1-1				629.00				
9	8			IL008-18				590.00				
10	9			IL009-18				422.00				
11	10			IL010-18				347.00				
12	11			IL011-18				696.00				

In this example, 80 IITA RILs were advanced at a partnering institution. Seed has been returned to IITA and the information in this file must be imported into the BMS.

Customize Template

The germplasm import template can be customized. Common customizations include changing the seed amount units and adding attributes.

Change Units of Seed Amount

Grams is the template default. The units below come with the default ontology. Additional units can be added to the ontology if needed.

- SEED_AMOUNT_g
- SEED_AMOUNT_No
- SEED_AMOUNT_kg
- SEED_AMOUNT_Packets
- SEED_AMOUNT_t

Update the description sheet.

In the following example SEED_AMOUNT_g will be changed to SEED_AMOUNT_No.

- Under inventory, replace SEED_AMOUNT_g with SEED_AMOUNT_No.
- Replace SCALE of g with SCALE of No.
- Replace METHOD of Weighed with METHOD of Counted.
- Update the comment.

	A	B	C	D	E	F	G	I	Q	R	S	T
1	LIST NAME			Enter a list name here, or add it when saving in the BMS								
2	LIST DESCRIPTION			Enter a list description here, or add it when saving in the BMS								
3	LIST DATE			Accepted formats: YYYYMMDD or blank								
4	LIST TYPE	LST										
5												
6	CONDITION	DESCRIPTION	PROPERTY	SCALE	METHOD	DATA TYPE	VALUE	COMMENTS				
7	LIST OWNER	Name of the Principal Investigator	PERSON	DBCV	ASSIGNED	C						
8	ID OF LIST OWNER	ID of the Principal Investigator	PERSON	DBID	ASSIGNED	N						
9												
10	FACTOR	DESCRIPTION	PROPERTY	SCALE	METHOD	DATA TYPE		COMMENTS				
11	ENTRY	The germplasm entry number	GERMPLASM ENTRY	NUMBER	ENUMERATE	N		Sequence number - mandatory				
12	DESIGNATION	The name of the germplasm	GERMPLASM ID	DBCV	ASSIGNED	C		Germplasm name - mandatory, unless a GID is provided				
13	GID	The GID of the germplasm	GERMPLASM ID	DBID	ASSIGNED	N		GID value if known (or leave blank)				
14	CROSS	The pedigree string of the germplasm	CROSS NAME	NAME	ASSIGNED	C		Cross string showing parentage - optional				
15	SOURCE	The seed source of the germplasm	SEED SOURCE	NAME	Seed Source	C		Text giving seed source - optional				
16	ENTRY CODE	Germplasm entry code	GERMPLASM ENTRY	CODE	ASSIGNED	C		Text giving a local entry code - optional				
17	DRVNM	Derivative Name	GERMPLASM ID	NAME	ASSIGNED	C		See valid name types on Codes sheet for more options				
18												
19	INVENTORY	DESCRIPTION	PROPERTY	SCALE	METHOD	DATA TYPE		COMMENTS				
20	SEED_AMOUNT_No	Amount of seed imported	INVENTORY AMOUNT	No	Counted	N		number of seeds				
21	STOCKID	ID of an inventory deposit	Germplasm stock ID	DBCV	ASSIGNED	C		Existing StockID value if known (or leave blank)				
22												
23	VARIATE	DESCRIPTION	PROPERTY	SCALE	METHOD	DATA TYPE		COMMENTS				
24	NOTE	Additional details about germplasm	ATTRIBUTE	Text	Observed	C		Optional				
25												

Update Observation Sheet

- Replace SEED_AMOUNT_g with SEED_AMOUNT_No and save the .xls file. The template is now ready to import seed inventory as numbers of seeds.

[illegible]

Add Germplasm Attributes

Attributes of know germplasm can be added to the template. In the following example, a breeder is importing a list of lines with known % protein phenotypes.

Update the description sheet.

- Define PROTEIN as an attribute on the description sheet. Insert a row under "VARIATE".

[illegible]

Update Observation Sheet

- Add PROTEIN as a column on the observation sheet and save .xls file

[illegible]

The customized template is ready to import after data is added.

	A	B	C	D	E	F	G	H	I	J	K	L
1	ENTRY	DESIGNATION	GID	CROSS	SOURCE	ENTRY CODE	DRVNM	SEED_AMOUNT_No	STOCKID	NOTE	PROTEIN	
2		1 BMS-1						134				23
3		2 BMS-2						149				24
4		3 BMS-3						75				22
5		4 BMS-4						271				23
6		5 BMS-5						91				20
7		6 BMS-6						111				28
8		7 BMS-7						139				22
9		8 BMS-8						123				19
10		9 BMS-9						69				28
11		10 BMS-10						225				16

Import Germplasm

Importing germplasm is the process of assigning GIDs to germplasm from external sources. You can either assign new GIDs or match to existing GIDs.

- Browse to germplasm import file (.xls), upload, and select Next.

BREEDING ACTIVITIES

INFORMATION MANAGEMENT

Import Germplasm

Manage Genotyping Data

Browse Studies

Head to Head Query

Manage Ontologies

Import Datasets

STATISTICAL ANALYSIS

PROGRAM ADMINISTRATION

SY_MAIZE

Site AdminMy Programs? admin

IMPORT GERMLASM

Choose Import File

Choose the file you would like to import. You can download a template [here](#).

Selected import file: *export_import.xls*

Clear

Cancel

Next

- Specify germplasm details.

Select GID Assignment Options

There are two GID assignment options

- Add all entries with new records connecting to existing sources: assign the new GIDs and the germplasm will not connect to any existing pedigrees. This is the most common option and requires no matching.
 - Select existing germplasm whenever found: Will look to match to existing GIDs and pedigrees in the system
- "Select existing germplasm whenever found" to match imported germplasm to existing germplasm. Automatically accept single matches whenever found if you trust the system to match germplasm by DESIGNATION. Finish

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Import Germplasm

Germplasm date: 2018-05-10

Germplasm name type: LINE NAME

REVIEW IMPORT FILE DETAILS

Please review and confirm the details of your import records.

Total Entries: 80

ENTRY_NO	ENTRY_CODE	DESIGNATION	CROSS	GID	STOCKID	AMO
1		IL001-18	AF12A-209-2/8/AF12A-423-4/16			630.0
2		IL002-18	AF12A-209-2/8/AF12A-423-4/16			823.0
3		IL003-18	AF12A-209-2/8/AF12A-423-4/16			512.0
4		IL004-18	AF12A-209-2/8/AF12A-423-4/16			375.0
5		IL005-18	AF12A-209-2/8/AF12A-423-4/16			647.0
6		IL006-18	AF12A-209-3/8/AF12A-423-4/20			521.0

SELECT GID ASSIGNMENT OPTIONS

GID Assignment Options:

Select existing germplasm whenever found

☒ Automatically accept single matches whenever found

Back

Finish

- Manually specify matches within the system. Imported germplasm will share GID, pedigrees, and inventory with the matched germplasm.

BREEDING ACTIVITIES

Manage Germplasm

Manage Nurseries

Manage Trials

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Seed Storage Location: Chambre Froide-Longue Jumelles - (CFLJ)

Germplasm date:

Germplasm name type:

REVIEW IMPORT FILE

Please review and confirm the details of your import records.

Total Entries: 80

ENTRY_NO	ENTRY_CODE	DESIGNATION	CROSS	GID	STOCKID	AMO
1		IL001-18	AF12A-209-2/8/AF12A-423-4/16			630.0
2		IL002-18	AF12A-209-2/8/AF12A-423-4/16			823.0
3		IL003-18	AF12A-209-2/8/AF12A-423-4/16			512.0
4		IL004-18	AF12A-209-2/8/AF12A-423-4/16			375.0
5		IL005-18	AF12A-209-2/8/AF12A-423-4/16			647.0
6		IL006-18	AF12A-209-3/8/AF12A-423-4/20			521.0

SELECT GID ASSIGNMENT OPTIONS

GID Assignment Options:

Select existing germplasm whenever found

☒ Automatically accept single matches whenever found

Back

Finish

Seed Storage Location: Chambre Froide-Longue Jumelles - (CFLJ)

Germplasm date:

Germplasm name type:

REVIEW IMPORT FILE

Please review and confirm the details of your import records.

Total Entries: 80

ENTRY_NO	ENTRY_CODE	DESIGNATION	CROSS	GID	STOCKID	AMO
1		IL001-18	AF12A-209-2/8/AF12A-423-4/16			630.0
2		IL002-18	AF12A-209-2/8/AF12A-423-4/16			823.0
3		IL003-18	AF12A-209-2/8/AF12A-423-4/16			512.0
4		IL004-18	AF12A-209-2/8/AF12A-423-4/16			375.0
5		IL005-18	AF12A-209-2/8/AF12A-423-4/16			647.0
6		IL006-18	AF12A-209-3/8/AF12A-423-4/20			521.0

SELECT GID ASSIGNMENT OPTIONS

GID Assignment Options:

Select existing germplasm whenever found

☒ Automatically accept single matches whenever found

Back

Finish

Seed Storage Location: Chambre Froide-Longue Jumelles - (CFLJ)

Germplasm date:

Germplasm name type:

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Please review and confirm the details of your import records.

Total Entries: 80

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2		IL002-18	AF12A-209-2/8/AF12A-423-4/16			823.0
3		IL003-18	AF12A-209-2/8/AF12A-423-4/16			512.0
4		IL004-18	AF12A-209-2/8/AF12A-423-4/16			375.0
5		IL005-18	AF12A-209-2/8/AF12A-423-4/16			647.0
6		IL006-18	AF12A-209-3/8/AF12A-423-4/20			521.0

SELECT GID ASSIGNMENT OPTIONS

GID Assignment Options:

Select existing germplasm whenever found

☒ Automatically accept single matches whenever found

Back

Finish

Seed Storage Location: Chambre Froide-Longue Jumelles - (CFLJ)

Germplasm date:

Germplasm name type:

REVIEW IMPORT FILE

Please review and confirm the details of your import records.

Total Entries: 80

ENTRY_NO	ENTRY_CODE	DESIGNATION	CROSS	GID	STOCKID	AMO
1		IL001-18	AF12A-209-2/8/AF12A-423-4/16			630.0
2		IL002-18	AF12A-209-2/8/AF12A-423-4/16			823.0
3		IL003-18	AF12A-209-2/8/AF12A-423-4/16			512.0
4		IL004-18	AF12A-209-2/8/AF12A-423-4/16			375.0
5		IL005-18	AF12A-209-2/8/AF12A-423-4/16			647.0
6		IL006-18	AF12A-209-3/8/AF12A-423-4/20			521.0

SELECT GID ASSIGNMENT OPTIONS

GID Assignment Options:

Select existing germplasm whenever found

☒ Automatically accept single matches whenever found

Back

Finish

- Ignore matches and add new entries for all. Imported germplasm will **NOT** share GIDs, pedigrees, or inventory with existing germplasm.

BREEDING ACTIVITIES

Manage Germplasm

Manage Nurseries

Manage Trials

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Browse Studies

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All locationsBreeding locationsManage Locations

Show only favorite locations

Seed Storage Location:Chambre Froide-Longue Jumelles - (CFLJ)

All locationsStorage locationsManage Locations

Show only favorite locations

Germplasm date:

Germplasm name type:

REVIEW IMPORT FILE

Please review and confirm the details of your import file.

Total Entries: 80

ENTRY_NO	ENTRY_CODE	DESIGNATION	GID	IMMEDIATE SOURCE	AVAILABLE	LOCATION	BREEDING METHOD NAME	CROSS
1		IL001-18						
2		IL002-18						
3		IL003-18						
4		IL004-18						
5		IL005-18						
6		IL006-18						

SELECT GID ASSIGNMENT

GID Assignment Options:

Select Matching Germplasm or Add New Entry

Match(es) were found for entry 2 of 80, with the name IL002-18. Click on an existing entry below to choose it as the match for this germplasm. You may also choose to ignore the match and add a new entry.

DESIGNATION	GID	IMMEDIATE SOURCE	AVAILABLE	LOCATION	BREEDING METHOD NAME	CROSS
IL002-18	15405	20180511-2-1	493.0 g	Agua Fria	Single plant selection	AF12A-209-
IL002-18	15535	IL002-18	-	Unknown	Seed increase	AF12A-209-
IL002-18	15724	IL002-18	602.0 g	Unknown	Single plant selection	AF12A-209-

Use this match for other instances of this name in the import list

Ignore matches and add a new entry

Ignore remaining matches and add new entries for all

CancelContinue

Generate Stock IDs

- Customize the stock id prefix or select continue to accept the default "SID-".

BREEDING ACTIVITIES

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All locationsBreeding locationsManage Locations

Show only favorite locations

Seed Storage Location:Chambre Froide-Longue Jumelles - (CFLJ)

All locationsStorage locationsManage Locations

Show only favorite locations

Germplasm date:

Germplasm name type:

REVIEW IMPORT FILE DETAILS

Please review and confirm the details of your import file.

Total Entries: 80

ENTRY_NO	ENTRY_CODE	DESIGNATION	GID	IMMEDIATE SOURCE	AVAILABLE	LOCATION	BREEDING METHOD NAME	CROSS
1		IL001-18						
2		IL002-18						
3		IL003-18						
4		IL004-18						
5		IL005-18						
6		IL006-18						

SELECT GID ASSIGNMENT OPTIONS

GID Assignment Options:

Generate StockIDs

Specify first letter(s) of prefix:

If no prefix is specified, the default SID prefix will be used. Only entries with an inventory amount will be assigned with StockID.

Next prefix in this sequence: SID41

Example STOCKID for this list: SID41-1

CancelContinue

Save & Review Imported List

- Name, describe, and save the imported list.

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All locationsBreeding locationsManage Locations

Show only favorite locations

Seed Storage Location:Chambre Froide-Longue Jumelles - (CFLJ)

All locationsStorage locationsManage Locations

Show only favorite locations

Germplasm date:

Germplasm name type:

REVIEW IMPORT FILE

Please review and confirm the details of your import file.

Total Entries: 80

ENTRY_NO	ENTRY_CODE	DESIGNATION	GID	IMMEDIATE SOURCE	AVAILABLE	LOCATION	BREEDING METHOD NAME	CROSS
1		IL001-18						
2		IL002-18						
3		IL003-18						
4		IL004-18						
5		IL005-18						
6		IL006-18						

SELECT GID ASSIGNMENT

GID Assignment Options:

Save List As

Select a folder to create a new list or select an existing list to edit and overwrite its entries.

List Location

Crop lists

Program lists

2018

JFS

Maize MAS

List Details

List Name: *Advanced at ICRISAT

List Owner: Admin Admin

Description: 2017 seed increase from ICRISAT

List Type: *GERMPLASM LISTS

List Date: *2018-05-10

Notes:

CancelSave

- Browse to the imported list from Manage Germplasm.

BREEDING ACTIVITIES

MANAGE GERmplasm

Manage Nurseries

Manage Trials

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Site AdminMy Programsadmin

MANAGE GERmplasm

View ListsView Germplasm

List Details

Browse or search for a list to work with.

Advanced at ICRISAT

List entries

Total Entries: 80Selected: 0

✓	#	DESIGNATION	CROSS	LOTS	AVAILABLE	ENTRY_CODE	GID	GROUP ID	STOCKID	SEED_SOU
<input type="checkbox"/>	1	IL001-18	AF12A-209-2/8/AF12A-423-4/16	2	1118.0 g	1	15404	15404	SID36-1, ...	
<input type="checkbox"/>	2	IL002-18	AF12A-209-2/8/AF12A-423-4/16	1	823.0 g	2	15803	-	SID41-2	
<input type="checkbox"/>	3	IL003-18	AF12A-209-2/8/AF12A-423-4/16	1	512.0 g	3	15804	-	SID41-3	
<input type="checkbox"/>	4	IL004-18	AF12A-209-2/8/AF12A-423-4/16	1	375.0 g	4	15805	-	SID41-4	

The first entry of this imported germplasm list was matched to an existing entry. The sum of the 2 lots of seed is reported along with the shared GID and Group ID. The other entries in the list were given their own inventory lots and GIDs.

Related

- [Manage Germplasm](#)
- [Manage Inventory](#)