Import Germplasm

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

Observation Sheet

Codes Sheet

Edit Default Template

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

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 the 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.

Update Observation Sheet

- Replace 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.

	ENTRY	DESIGNATION	GID	CROSS	SOURCE	ENTRY CODE	DRVNM	SEED_AMOUNT_No	STOCKID	NOTE			
1	ENTRY	DESIGNATION	GID	CROSS	SOURCE	ENTRY CODE	DRVNM	SEED_AMOUNT_No	STOCKID	NOTE			
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													

Description   Observation   Codes   +

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".

	A	B	C	D	E	F	G	I	Q	R	S
15	SOURCE	The seed source of the germ	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 ger	ATTRIBUTE	Text	Observed	C		Optional			
25	PROTEIN	percent protein	ATTRIBUTE	Text	Observed	C		Optional			
26											
27											

Description   Observation   Codes   +

Update Observation Sheet

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

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	ENTRY	DESIGNATION	GID	CROSS	SOURCE	ENTRY CODE	DRVNM	SEED_AMOUNT_No	STOCKID	NOTE	PROTEIN		
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													

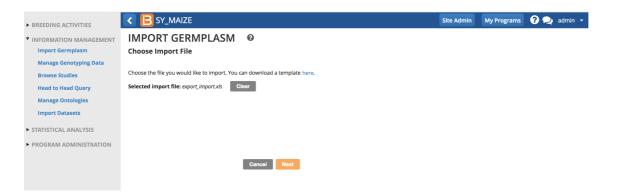Description   Observation   Codes   +

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	

Description   Observation   Codes   +

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.

- Specify germplasm details.

Select GID Assignment Options

There are two GID assignment options

1. Add all entries with new records connecting to existing sources: assign the new GIDs and the germplasm will not connect to any existing pedigrees. The is the most common option and requires no matching.
2. 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

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

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

Generate Stock IDs

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

Save & Review Imported List

- Name, describe, and save the imported list.

- Browse to the imported list from Manage Germplasm.

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](#)