

Data Collection

BMS 16.0-17.0 Manual

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About

Once you have a dataset established you can start collecting data for your study. Datasets can be loaded/downloaded from studies in 3 different ways.

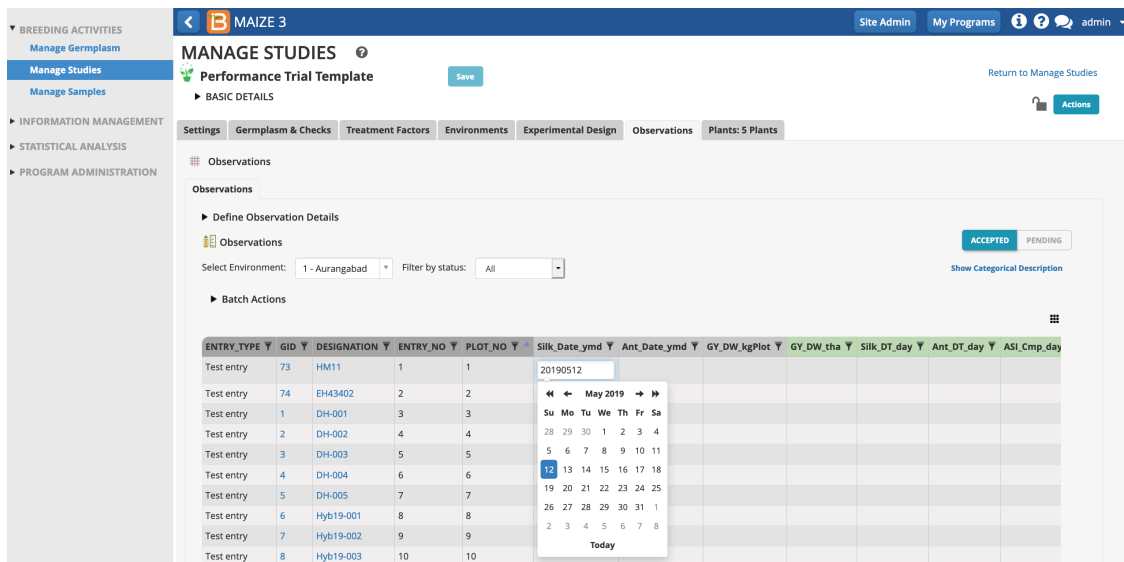
1. Inline editing
2. Study Book file export and import
3. BMS connection to [BrAPI](#) enabled applications*

*The Breeding Management System is plug-and-play compatible with BrAPI enabled applications. However each of these applications is different and developed independently of the Integrated Breeding Platform. If you are interested in using BrAPI enabled applications, please see the developer's user documentation for more information.

Inline Edits

You can modify trait observations by directly clicking on them and typing.

- Click on a cell that you want to modify and edit. Once you leave the cell, the edit is automatically accepted to the database.



File Export/Import

The BMS allows you to export/import the Study Book in spreadsheet format (.xls,.csv).

- Click on **Actions>Data Collection Options>Export study book** to download the study book file. Then select the study instances that you want to consider for download.

The screenshot shows the MAIZE 3 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 'Performance Trial Template' with a 'Save' button. Below this are tabs for Settings, Germplasm & Checks, Treatment Factors, Environments, Experimental Design, Observations, and Plants: 5 Plants. The 'Observations' tab is active, showing 'Define Observation Details' and a table of observations. A dropdown menu is open over the 'Actions' button, showing options: Design and planning options, Crossing options, Observation unit options, Field map options, Data collection options, Execute calculated variable, Create genotyping samples, Advance study options, Close study, Delete study, and Lock Study. The 'Export study book' option is highlighted.

ENTRY_TYPE	GID	DESIGNATION	ENTRY_NO	PLOT_NO	Silk_Date_ymd	Ant_Date_ymd	GY_DW_kgPlot	GY_DW_tha	Silk_DT_day	Ant_DT_day	ASI_Cmp_day
Test entry	73	HM11	1	1	20190512						
Test entry	74	EH43402	2	2							
Test entry	1	DH-001	3	3							
Test entry	2	DH-002	4	4							
Test entry	3	DH-003	5	5							

Green column headers indicate calculated variables that the BMS can derive from formulas and inputs.

- If your study has more than one dataset, choose the appropriate one and Continue.

The screenshot shows the MAIZE 3 MANAGE STUDIES interface with the 'Export study book' dialog box open. The dialog box has a title bar 'Export study book' and a close button. It contains a message: '* Indicates a mandatory field'. Below this is a section titled 'DATASET' with a message: 'Please choose the dataset you would like to export: *'. A dropdown menu is open, showing three options: Observations, Observations, and Plants: 5 Plants. The background interface is dimmed, showing the same navigation and tabs as the previous screenshot.

File Format

Observation, or plot-level, datasets have several export format options. Sub-observation data sets only offer .csv format - expect expanded options for sub-observations datasets in upcoming releases. **Note:** If you export more than one instance at a time you'll get a .zip file containing on excel/csv per instance.

- CSV: This format is compatible with a variety of applications
 - Excel: This format is compatible with the [DIB handheld data capture](#) application.
 - Fieldbook KSU: Format compatible with the [KSU fieldbook](#) data capture application (.csv & .xls)
-
- Select the export format and the data collection order. Serpentine data collection order is available after a field map has been created (see more [Make Field Map](#)).

BREEDING ACTIVITIES

Manage Germplasm

Manage Studies

Manage Samples

INFORMATION MANAGEMENT

STATISTICAL ANALYSIS

PROGRAM ADMINISTRATION

MAIZE 3

MANAGE STUDIES

Performance Trial Template

BASIC DETAILS

Settings

Germplasm & Checks

Treatment Factors

Observations

Observations

Define Observation Details

Observations

Select Environment: 1 - Aurangabad

Filter by s

Batch Actions

ENTRY_TYPE GID DESIGNATION ENTRY_NO

Test entry 73 HM11 1

Test entry 74 EH43402 2

Test entry 1 DH-001 3

Test entry 2 DH-002 4

Test entry 3 DH-003 5

Test entry 4 DH-004 6

Test entry 5 DH-005 7

Test entry 6 Hyb19-001 8

Test entry 7 Hyb19-002 9

Test entry 8 Hyb19-003 10

Test entry 9 Hyb19-004 11

Test entry 10 Hyb19-005 12

Test entry 11 Hyb19-006 13

Site Admin

My Programs

admin

Return to Manage Studies

Actions

ACCEPTED

PENDING

Show Categorical Description

Export Study Book

* indicates a mandatory field

EXPORT FORMAT

Choose an export format: CSV

DATA COLLECTION ORDER

Choose a data collection order: Plot Order

STUDY ENVIRONMENT

Choose the study environment you would like to export: All instances in one file

10

Search:

TRIAL_INSTANCE LOCATION_NAME

1 Aurangabad - (AUR)

2 Bengaluru - (BENG)

3 Davangere - (DAV)

4 Hyderabad - (HYD)

5 Jalandhar - (JALA)

6 Udaipur - (UDAI)

Showing 1 to 6 of 6 entries

Cancel

Export

The exported file is ready for data entry or for label printing using external applications, like Excel or Bartender.

	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	LOCATION_N	PlotArea_m2	SEEDING_DF	ENTRY_TYPE	GID	DESIGNATIO	ENTRY_NO	OBS_UNIT_ID	PLOT_NO	Silk_Date_ymd	Ant_Date_ymd	GY_DW_kgPlot	GY_DW_tha	Silk_DT_day	Ant_DT_day	ASI_Cmp_da	PH_M_cm
2	Aurangabad	7.5	3/28/19	T	73	HM11	1	7886b308-fc	1								
3	Aurangabad	7.5	3/28/19	T	74	EH43402	2	3da6b99ff-89f	2								
4	Aurangabad	7.5	3/28/19	T	1	DH-001	3	a748964b-82	3								
5	Aurangabad	7.5	3/28/19	T	2	DH-002	4	0cf66c1b-58a	4								
6	Aurangabad	7.5	3/28/19	T	3	DH-003	5	2de796cb-ec	5								
7	Aurangabad	7.5	3/28/19	T	4	DH-004	6	cf6f6844-6a5	6								
8	Aurangabad	7.5	3/28/19	T	5	DH-005	7	b5b1db0a-2e	7								
9	Aurangabad	7.5	3/28/19	T	6	Hyb19-001	8	8b297a32-df	8								
10	Aurangabad	7.5	3/28/19	T	7	Hyb19-002	9	c4513d77-71	9								
11	Aurangabad	7.5	3/28/19	T	8	Hyb19-003	10	8124f8b7-c2	10								
12	Aurangabad	7.5	3/28/19	T	9	Hyb19-004	11	80c718c6-15	11								
13	Aurangabad	7.5	3/28/19	T	10	Hyb19-005	12	dfcc1cfd-f6d	12								

Notice that the study book file includes *OBS_UNIT_ID* - a unique observation id suitable for barcode labeling of individual observations. The studybook also includes empty columns of data for calculated variables. You have the option to load pre-calculated data or to leave blank and let the BMS perform the calculation.

	A	B	C	D	E	F	G	H	I	J	K	L
1	STUDY	Spans Trial										
2	TITLE	Spans Trial										
3	OBJECTIVE	Spans Trial										
4	START DATE	20201111										
5	END DATE											
6	STUDY TYPE	Trial										
7												
8	STUDY DETAILS	DESCRIPTION	ONTOLOGY ID	PROPERTY	SCALE	METHOD	DATA TYPE	VALUE	DATASET			
9	Crop_season_Code	Season - Assigned (Code)	Season	Code of Crop_season	Assigned	C	MS	STUDY				
10	Project_Prefix	Project Prefix BCID Variable	Breeding Project	Project_Prefix_Scale	Assigned	C	PB	STUDY				
11	Target_Region	Target Region Variable	Target Region	Target_Region_Scale	Assigned	C	R3	STUDY				
12	PI_NAME_ID	Principal investigator - assigned (DBID)	Person	Person id	Assigned	C	P	STUDY				
13	PI_NAME	Principal investigator - assigned (DBCV)	Person	Person name	Assigned	C	Christopher McLaren	STUDY				
14												
15	EXPERIMENTAL DESIGN	DESCRIPTION	ONTOLOGY ID	PROPERTY	SCALE	METHOD	DATA TYPE	VALUE	DATASET			
16	PLOT_NO	Field plot - enumerated (number)	Field plot	Number	Enumerated	N		PLOT				
17	REP_NO	Replication - assigned (number)	Replication factor	Number	Enumerated	N		PLOT				
18	BLOCK_NO	Block - assigned (number)	Block factor	Number	Enumerated	N		PLOT				
19												
20	ENVIRONMENT DETAIL	DESCRIPTION	ONTOLOGY ID	PROPERTY	SCALE	METHOD	DATA TYPE	VALUE	DATASET			
21	TRIAL_INSTANCE	Trial instance - enumerated (number)	Trial instance	Number	Enumerated	N		1 ENVIRONMENT				
22	LOCATION_ID	Location - selected (DBID)	Location	Location id	Assigned	C	10001	ENVIRONMENT				
23	LOCATION_NAME	Location - selected (DBCV)	Location	Location name	Assigned	C	CGMSITE01	ENVIRONMENT				
24	SEEDING_DATE	Date Seeded - applied (yyyymmdd)	Planting date	Date (yyyymmdd) of S	Applied	D		ENVIRONMENT				
25	PlotArea_m2	Plot size	Plot size	m^2	Applied	N		ENVIRONMENT				
26	REP	Number of replications in an experiment	ED - rep	Number	Assigned	N		2 ENVIRONMENT				
27	BSIZE	Block Size for incomplete block designs	ED - block size	Number	Assigned	N		5 ENVIRONMENT				
28	EXPT_DESIGN	Experimental design - assigned (type)	Experimental design	Type of EXPT_DESIGN	Assigned	C	RIBD	ENVIRONMENT				
29												
30	ENVIRONMENTAL CON	DESCRIPTION	ONTOLOGY ID	PROPERTY	SCALE	METHOD	DATA TYPE	VALUE	DATASET			
31												
32	GERMPLASM DESCRIP	DESCRIPTION	ONTOLOGY ID	PROPERTY	SCALE	METHOD	DATA TYPE	VALUE	DATASET			
33	ENTRY_TYPE	Entry type (test/check) - assigned (type)	Entry type	Type of ENTRY_TYPE	Assigned	C		PLOT				
34	GID	Germplasm identifier - assigned (DBID)	Germplasm id	Germplasm id	Assigned	C		PLOT				
35	DESIGNATION	Germplasm identifier - assigned (DBCV)	Germplasm id	Germplasm name	Assigned	C		PLOT				
36	ENTRY_NO	Germplasm entry - enumerated (number)	Germplasm entry	Number	Enumerated	N		PLOT				
37	OBS_UNIT_ID	Field observation unit id - assigned (text)	Field plot	Text	Assigned	T		PLOT				
38	CROSS	The pedigree string of the germplasm	Cross history	Text	Assigned	T		PLOT				
39	SEED_SOURCE	Seed source - Selected (Code)	Seed source	Code of SEED_SOUR	Selected	T		PLOT				
40												
41	OBSERVATION UNIT	DESCRIPTION	ONTOLOGY ID	PROPERTY	SCALE	METHOD	DATA TYPE	VALUE	DATASET			
42												
43	TRAITS	DESCRIPTION	ONTOLOGY ID	PROPERTY	SCALE	METHOD	DATA TYPE	VALUE	DATASET			
44	GY_Adj_tha	Grain yield BY Adjusted GY - CO_322:0000731	Grain yield	tha	Adjusted GY - CorN		All values allowed	PLOT				
45	PH_M_cm	Plant height BY PH - Measurement IN cm	Plant height	cm	PH - Measurement	N	All values allowed	PLOT				
46												
47	SELECTIONS	DESCRIPTION	ONTOLOGY ID	PROPERTY	SCALE	METHOD	DATA TYPE	VALUE	DATASET			
48												
49												

Study Book exported as an .xls file contains a Description Sheet with metadata about the trial in addition to the Observation Sheet, where plot/plant/subsample data is recorded.

Record Observations

Record observations and save file.

G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
Fert_50d_sor	EXPT_DESIG	LOCATION_I	LOCATION_N	PlotArea_m2	SEEDING_DA	ENTRY_TYPE	GID	DESIGNATIO	ENTRY_NO	OBS_UNIT_I	PLOT_NO	Silk_Date_yn	Ant_Date_yn	GY_DW_kgP	GY_DW_tha	Silk_DT_day	Ant_DT_day A
120 kg/ha ur ELO		9017	Aurangabad	7.5	3/28/19	T		73	HM11	1	7b86b308-fc	20190513	20190513	0.1213			
120 kg/ha ur ELO		9017	Aurangabad	7.5	3/28/19	T		74	EH43402	2	3dab99ff-89f	20190511	20190511	0.0776			
120 kg/ha ur ELO		9017	Aurangabad	7.5	3/28/19	T		1	DH-001	3	e749d64b-82	20190512	20190512	0.1023			
120 kg/ha ur ELO		9017	Aurangabad	7.5	3/28/19	T		2	DH-002	4	0cfd6c1b-58f	20190512	20190515	0.0519			
120 kg/ha ur ELO		9017	Aurangabad	7.5	3/28/19	T		3	DH-003	5	2de796cb-ec	20190513	20190513	0.1069			
120 kg/ha ur ELO		9017	Aurangabad	7.5	3/28/19	T		4	DH-004	6	cf68344-6a5	20190512	20190516	0.0336			
120 kg/ha ur ELO		9017	Aurangabad	7.5	3/28/19	T		5	DH-005	7	b5b1db0a-2f	20190513	20190517	0.0319			
120 kg/ha ur ELO		9017	Aurangabad	7.5	3/28/19	T		6	Hyb19-001	8	8b297a32-df	20190513	20190514	0.1186			
120 kg/ha ur ELO		9017	Aurangabad	7.5	3/28/19	T		7	Hyb19-002	9	c4513d77-71	20190511	20190513	0.0491			
120 kg/ha ur ELO		9017	Aurangabad	7.5	3/28/19	T		8	Hyb19-003	10	8124f8b7-c2	20190513	20190518	0.0817			

Observations have added to the columns corresponding to raw data traits. The calculated traits are left empty for BMS calulations later.

Import

- Click on Actions>Data Collection Options>Import Observations to browse for the file to upload

BREEDING ACTIVITIES

MANAGE GERMPLOID

MANAGE STUDIES

MANAGE SAMPLES

INFORMATION MANAGEMENT

STATISTICAL ANALYSIS

PROGRAM ADMINISTRATION

MAIZE 3

MANAGE STUDIES

Performance Trial Template

BASIC DETAILS

Settings

Germpasm & Checks

Treatment Factors

Environments

Experimental Design

Observations

Plants: 5 Plants

Observations

Define Observation Details

Observations

Select Environment:

1 - Aurangabad

Filter by status:

All

Batch Actions

ENTRY_TYPE	GID	DESIGNATION	ENTRY_NO	PLOT_NO	Silk_Date_ymd	Ant_Date_ymd	GY_DW_kgPlot	GY_DW_tha	Silk_DT_day	Ant_DT_day	ASI_Cmp_s
Test entry	73	HM11	1	1	20190512		0.0987	13.16			
Test entry	74	EH43402	2	2							
Test entry	1	DH-001	3	3							
Test entry	2	DH-002	4	4							
Test entry	3	DH-003	5	5							
Test entry	4	DH-004	6	6							
Test entry	5	DH-005	7	7							

Design and planning options >

Crossing options >

Observation unit options >

Field map options >

Data collection options >

Execute calculated variable >

Create genotyping samples >

Advance study options >

Close study

Delete study

Lock Study

Export study book

Import Observations

Export germplasm list

- Select the appropriate dataset. Continue.

BREEDING ACTIVITIES

MANAGE GERMPLOID

MANAGE STUDIES

MANAGE SAMPLES

INFORMATION MANAGEMENT

STATISTICAL ANALYSIS

PROGRAM ADMINISTRATION

MAIZE 3

MANAGE STUDIES

Performance Trial Template

BASIC DETAILS

Settings

Germpasm & Checks

Treatment Factors

Environments

Experimental Design

Observations

Plants: 5 Plants

Observations

Define Observation Details

Observations

Select Environment:

1 - Aurangabad

Filter by status:

All

Batch Actions

ENTRY_TYPE	GID	DESIGNATION	ENTRY_NO	PLOT_NO	Silk_Date_ymd	Ant_Date_ymd	GY_DW_kgPlot	GY_DW_tha	Silk_DT_day	Ant_DT_day	ASI_Cmp_s
Test entry	73	HM11	1	1	20190512		0.0987	13.16			
Test entry	74	EH43402	2	2							
Test entry	1	DH-001	3	3							
Test entry	2	DH-002	4	4							
Test entry	3	DH-003	5	5							
Test entry	4	DH-004	6	6							
Test entry	5	DH-005	7	7							

Import observations

* indicates a mandatory field

DATASET

Please choose the dataset you would like to import: *

Observations

Cancel

Continue

- Select file type and specify file. Import.

BREEDING ACTIVITIES

MANAGE GERMPLOID

MANAGE STUDIES

MANAGE SAMPLES

INFORMATION MANAGEMENT

STATISTICAL ANALYSIS

PROGRAM ADMINISTRATION

MAIZE 3

MANAGE STUDIES

Performance Trial Template

BASIC DETAILS

Settings

Germpasm & Checks

Treatment Factors

Environments

Experimental Design

Observations

Plants: 5 Plants

Observations

Define Observation Details

Observations

Select Environment:

1 - Aurangabad

Filter by status:

All

Batch Actions

ENTRY_TYPE	GID	DESIGNATION	ENTRY_NO	PLOT_NO	Silk_Date_ymd	Ant_Date_ymd	GY_DW_kgPlot	GY_DW_tha	Silk_DT_day	Ant_DT_day	ASI_Cmp_s
Test entry	73	HM11	1	1	20190512		0.0987	13.16			
Test entry	74	EH43402	2	2							
Test entry	1	DH-001	3	3							
Test entry	2	DH-002	4	4							
Test entry	3	DH-003	5	5							
Test entry	4	DH-004	6	6							
Test entry	5	DH-005	7	7							

Import observations

* indicates a mandatory field

EXPORT FORMAT

Please specify the format you are importing: *

CSV

SELECT FILE

Please choose the file you would like to import: *

Performance Trial Te...

Back

Import

Pending Data

Pending view flags out of bound data and reveals if data will be over written. Data staging in pending view allows the Breeding Management System to accept data without overwriting existing data. Data staging provides an important quality control step, especially now that the system can except data automatically via [BrAPI](#) from external applications, like digital scales and handheld data capture apps.

- At this point you can review the imported data. If there is a problem, you can Accept or Discard the whole dataset or

manually modify the problematic values (see below).

MANAGE STUDIES ?
Performance Trial Template
BASIC DETAILS

Settings | Germplasm & Checks | Treatment Factors | Environments | Experimental Design | **Observations** | Plants: 5 Plants

Observations

Define Observation Details

Observations

ACCEPTED PENDING
Accept Discard
Show Categorical Description

Select Environment: All environments Filter by status: All

Batch Actions

TRIAL_INSTANCE	ENTRY_TYPE	GID	DESIGNATION	ENTRY_NO	PLOT_NO	Silk_Date_ymd	Ant_Date_ymd	GY_DW_kgPlot
1	Test entry	73	HM11	1	1	20190513 (20190512)	20190513	0.1213 (0.0987)
2	Test entry	73	HM11	1	1	20190510	20190510	0.0559
3	Test entry	73	HM11	1	1	20190513	20190518	0.0655
4	Test entry	73	HM11	1	1	20190513	20190514	0.0999
5	Test entry	73	HM11	1	1	20190510	20190511	0.0361
6	Test entry	73	HM11	1	1	20190511	20190512	0.0979

Notice that entry 1 has two cells of data pending overwrite, Silk_Dat_ymd & GY_DW_kgPlot. The data to be overwritten is within parentheses.

Review & Validate

If the value for a given trait variable exceeds the expected range defined in the ontology (see [Manage Ontology](#)), the BMS will flag these values in red. You are not able to save the data until the out-of-bounds values have been validated, corrected or accepted.

- Review out-of-bounds data from the Actions Menu under Data Collection Options.

MANAGE STUDIES ?
Design Types
BASIC DETAILS

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

Define Measurement Details

TRAITS ?

Name	Description	Input Variables
<input type="checkbox"/> PH_M_cm	Plant height BY PH - Measurement IN cm	
<input type="checkbox"/> AleuCol_E_1to5	Aleurone color BY AleuCol - Estimation IN 1-5 Aleurone color scale	

Select All

Measurements

Records per page: 100 Showing 1 to 100 of 988 entries

TRIAL_INSTANCE	ENTRY_TYPE	GID	DESIGNATION	ENTRY_NO	REP_NO	PLOT_NO	PH_M_cm	AleuCol_E_1to5
1	T	12225	UGW16225	225	1	1	128	0
1	T	12189	UGW16189	189	1	2	126	4
1	T	12179	UGW16179	179	1	3	119	2
1	T	12074	UGW16074	74	1	4	121	9
1	T	12125	UGW16125	125	1	5	128	4
1	T	12229	UGW16229	229	1	6	122	2

ERROR: There are some measurements that have invalid value, please correct them before proceeding.

Actions

- Save Study
- Design and planning options >
- Crossing options >
- Field map options >
- Data collection options >
- Plant level options >
- Advance study options >
- Review out-of-bounds data
- Close study
- Delete study

Out-of-bounds values for the aleurone color scale (1-5) are highlighted red and are preventing the data from being saved.

- Choose how to proceed with out-of-bounds data.
 - Review Details
 - Accept all data as-is
 - Set all exceptions to missing
- Review details and select Next to navigate out-of-bound values and make individual decisions about them.

MANAGE STUDIES ?
Design Types
BASIC DETAILS

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

Define Measurement Details

TRAITS ?

Name	Description	Input Variables
<input type="checkbox"/> PH_M_cm	Plant height BY PH - Measurement IN cm	
<input type="checkbox"/> AleuCol_E_1to5	Aleurone color BY AleuCol - Estimation IN 1-5 Aleurone color scale	

Records per page: 100 Showing 1 to 100 of 988 entries

Review out of bounds data

Some of the data in your measurements table fall outside the valid values defined for the trait variables.

Please choose how you would like to proceed:

Cancel Next

- Please Choose
- Please Choose
- Review details**
- Accept all data as-is
- Set all exceptions to missing

- Review the details of out-of-bounds data. Enter revised values, accept the out of range values, or set the data to

missing. Set all exceptions to missing will designate out-of-bounds as "missing". Finish.

Details out of bounds data for AleuCol_E_1to5

Some of the entries in your measurements table have values for the *AleuCol_E_1to5* trait that are outside the valid values defined for the variable.

Valid Values:

LABEL	DESCRIPTION
1	colorless
2	bronze
3	red
4	purple
5	other

Showing 1 to 3 of 3 entries

	LOCATION_NAME	ENTRY_NO	PLOT_NO	OLD VALUE	NEW VALUE
<input type="checkbox"/>	INT CROPS RES INST	225	1	0	1
<input checked="" type="checkbox"/>	INT CROPS RES INST	74	4	9	
<input checked="" type="checkbox"/>				8	

Please Choose
Accept selected value as-is
Apply the same new value to selected values
Set selected values to missing
Please Choose

Cancel Finish

Aleurone color (scale 1-5) has three out-of-bounds values. Plot number one was given a revised value of 1 and the other two plots are set to missing.

Accept data

- Select Accept to commit the pending data to the database.

MANAGE STUDIES

Design Types

Settings Germplasm & Checks Environments Experimental Design Measurements

Define Measurement Details

TRAITS

Name	Description	Input Variables
<input type="checkbox"/> PH_M_cm	Plant height BY PH - Measurement IN cm	
<input checked="" type="checkbox"/> AleuCol_E_1to5	Aleurone color BY AleuCol - Estimation IN 1-5 Aleurone color scale	

Select All Remove

Measurements

Select Environment: 1 - INT CROPS RES INST FOR THE SEMI-ARID TROPICS Records per page: 100 Showing 1 to 100 of 494 entries

ENTRY_TYPE	GID	DESIGNATION	ENTRY_NO	REP_NO	PLOT_NO	PH_M_cm	AleuCol_E_1to5
Test entry	12225	UGW16225	225	1	1	128	1
Test entry	12189	UGW16189	189	1	2	126	4
Test entry	12179	UGW16179	179	1	3	119	2
Test entry	12074	UGW16074	74	1	4	121	missing
Test entry	12125	UGW16125	125	1	5	128	4
Test entry	12229	UGW16229	229	1	6	122	2

- Accepting data as-is will not change the out-of-bounds values. Accepted out-of-bounds values are highlighted a light blue color.

BREEDING ACTIVITIES

Manage Germplasm

Manage Studies

Manage Samples

INFORMATION MANAGEMENT

STATISTICAL ANALYSIS

PROGRAM ADMINISTRATION

MC PROGRAM

Site Admin My Programs ? admin

MANAGE STUDIES

Design Types

Save Discard data

Return to Manage Studies

Actions

BASIC DETAILS

Settings Germplasm & Checks Environments Experimental Design Measurements

Define Measurement Details

TRAITS

Name Description Input Variables

☐ PH_M_cm Plant height BY PH - Measurement IN cm
 ☐ AleuCol_E_1to5 Aleurone color BY AleuCol - Estimation IN 1-5 Aleurone color scale

Select All

Measurements

Records per page: 100 Showing 1 to 100 of 988 entries

Show Categorical Description

TRIAL_INSTANCE	ENTRY_TYPE	GID	DESIGNATION	ENTRY_NO	REP_NO	PLOT_NO	PH_M_cm	AleuCol_E_1to5
1	T	12225	UGW16225	225	1	1	128	0
1	T	12189	UGW16189	189	1	2	126	4
1	T	12179	UGW16179	179	1	3	119	2
1	T	12074	UGW16074	74	1	4	121	9
1	T	12125	UGW16125	125	1	5	128	4
1	T	12229	UGW16229	229	1	6	122	2
1	T	12108	UGW16108	108	1	7	130	2

Inline Validation

- Perform inline decisions with out of bound data by editing a given cell. Either enter new value or right click to accept or exclude.

BREEDING ACTIVITIES

Manage Germplasm

Manage Samples

Manage Studies

INFORMATION MANAGEMENT

Import Germplasm

Manage Genotyping Data

Browse Studies

Head to Head Query

Manage Ontologies

Import Datasets

Trait Donor Query

STATISTICAL ANALYSIS

PROGRAM ADMINISTRATION

BMS 9.3

MC PROGRAM

Site Admin My Programs ? admin

AleuCol_E_1to5

Aleurone color BY AleuCol - Estimation IN 1-5 Aleurone color scale

Select All

Measurements

Records per page: 100 Showing 1 to 100 of 988 entries

Show Categorical Description

TRIAL_INSTANCE	ENTRY_TYPE	GID	DESIGNATION	ENTRY_NO	REP_NO	PLOT_NO	PH_M_cm	AleuCol_E_1to5
1	T	12225	UGW16225	225	1	1	128	1
1	T	12189	UGW16189	189	1	2	126	4
1	T	12179	UGW16179	179	1	3	119	2
1	T	12074	UGW16074	74	1	4	121	
1	T	12125	UGW16125	125	1	5	128	
1	T	12229	UGW16229	229	1	6	122	4
1	T	12108	UGW16108	108	1	7	130	2
1	T	12062	UGW16062	62	1	8	119	2
1	T	12157	UGW16157	157	1	9	122	2
1	T	12127	UGW16127	127	1	10	120	2
1	T	12173	UGW16173	173	1	11	126	2

Accept Value
Mark Missing

Data Staging

When you import sub-observation data, these data are staged in pending view.

Pending

Pending data is NOT available in the database for queries and analysis. Pending data must be either accepted for long-term storage or discarded. **The filtering and batch action functionalities are still under development. Expect improvements**

in upcoming versions.

- Import observations. Select Accept or Discard.

VIGNA VIVA

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MANAGE STUDIES

v12 Performance Trial

Save

Return to Manage Studies

BASIC DETAILS

SettingsGermplasm & ChecksTreatment FactorsEnvironmentsExperimental DesignObservationsPlants: 19

Plants: 19

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Define Observation Details

Observations

ACCEPTEDPENDING

AcceptDiscard

Show Categorical Description

Select Environment: All environmentsFilter by status: All

Out of bounds
To be overwritten

Batch Actions

TRIAL_INSTANCE	ENTRY_TYPE	GID	DESIGNATION	ENTRY_NO	PLOT_NO	BLOCK_NO	PLANT_NO	PinHt_cm	NodWt_Frsh_g	NPSEL	AphDam_Est_Oto4
1	Test entry	1000130	DF32	42	1	1	1	63	153		2
1	Test entry	1000130	DF32	42	1	1	2	98	216	1	0
1	Test entry	1000130	DF32	42	1	1	3	78	109		1
1	Test entry	1000130	DF32	42	1	1	4	71	107		0
2	Test entry	1000157	DF59	69	1	1	1	73	252		0
2	Test entry	1000157	DF59	69	1	1	2	59	147		2

- If the pending data contains values that fall outside of the min/max range defined by the ontology, choose to accept the data as is or to set all exceptions to "missing". If accepted as-is, you have the opportunity later to review and edit these values. Proceed to accept the data.

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MANAGE STUDIES

v12 Performance Trial

Save

Return to Manage Studies

BASIC DETAILS

SettingsGermplasm & ChecksTreatment FactorsEnvironmentsExperimental DesignObservationsPlants: 19

Plants: 19

19

Define Observation Details

Observations

ACCEPTEDPENDING

AcceptDiscard

Show Categorical Description

Select Environment: All environmentsFilter by status: All

Batch Actions

TRIAL_INSTANCE	ENTRY_TYPE	GID	DESIGNATION	ENTRY_NO	PLOT_NO	BLOCK_NO	PLANT_NO	NodWt_Frsh_g
1	Test entry	1000130	DF32	42	1	1	1	15.3 (153)
1	Test entry	1000130	DF32	42	1	1	2	21.6 (216)
1	Test entry	1000130	DF32	42	1	1	3	10.9 (109)
1	Test entry	1000130	DF32	42	1	1	4	10.7 (107)
2	Test entry	1000157	DF59	69	1	1	1	25.2 (252)

Accept pending data

Some of the data in your observation table fall outside the valid values defined for the dataset variables.

Please choose how you would like to proceed:

☒ Accept all data as-is

☐ Set all exceptions to missing

CancelProceed

Accepted

Accepted data is in long-term database storage and available for QC as well as queries and analysis. The filtering and batch action functionalities are still under development. Expect improvements in upcoming versions.

Data for 3 traits (plant height, nodule weight, and aphid damage score) and number of plants selected have been accepted into the database.

Import Data After Acceptance

Once data has been accepted it can be overwritten or additional data added via data import. In the following example, a breeder has accepted data, but notices an error in the measurement of nodule fresh weight in the originating spreadsheet. She is able to correct the spreadsheet and import the file again.

- Review the pending data. Select Accept or Discard.

BREEDING ACTIVITIES

Manage Germplasm

Manage Studies

Manage Samples

INFORMATION MANAGEMENT

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Return to Manage Studies

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Plants: 19

ACCEPTED

PENDING

Accept

Discard

Show Categorical Description

Define Observation Details

Observations

Select Environment:

All environments

Filter by status:

All

Batch Actions

TRIAL_INSTANCE	ENTRY_TYPE	GID	DESIGNATION	ENTRY_NO	PLOT_NO	BLOCK_NO	PLANT_NO	NodWt_Frsh_g
1	Test entry	1000130	DF32	42	1	1	1	15.3 (153)
1	Test entry	1000130	DF32	42	1	1	2	21.6 (216)
1	Test entry	1000130	DF32	42	1	1	3	10.9 (109)
1	Test entry	1000130	DF32	42	1	1	4	10.7 (107)
2	Test entry	1000157	DF59	69	1	1	1	25.2 (252)
2	Test entry	1000157	DF59	69	1	1	2	14.7 (147)

The BMS only displays new data in pending view. Although the file uploaded also contained plant height and selections, these data are not shown in pending view because they match the already accepted data. Only nodule fresh weight needs to be reviewed in pending view. Notice that the first nodule fresh weight measurement of 153g will be replaced with 15.3g once if the pending data is accepted.