

Head to Head Query

BMS 13.0-14.0 Manual

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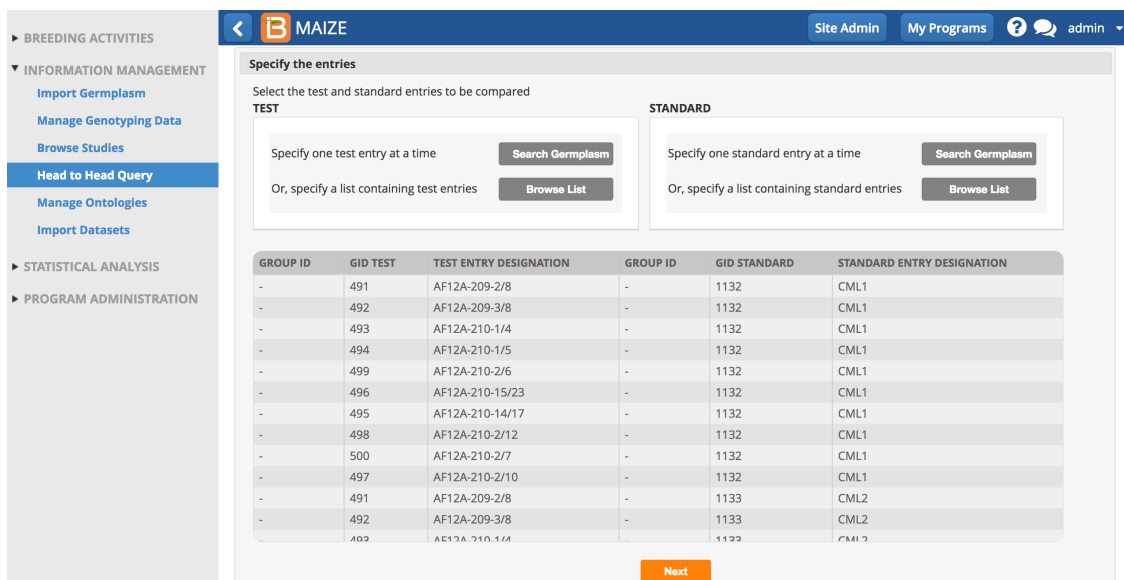
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The head to head query allows a breeder to compare the performance of test germplasm to standard entries across studies. Breeders can filter and weight results by location or studies.

Test and Standard Entries

- Specify test and standard germplasm one entry at a time or by selecting a predefined list. Select Next.



Specify the entries

Select the test and standard entries to be compared

TEST

Specify one test entry at a time

Or, specify a list containing test entries

STANDARD

Specify one standard entry at a time

Or, specify a list containing standard entries

| GROUP ID | GID TEST | TEST ENTRY DESIGNATION | GROUP ID | GID STANDARD | STANDARD ENTRY DESIGNATION |
|----------|----------|------------------------|----------|--------------|----------------------------|
| - | 491 | AF12A-209-2/8 | - | 1132 | CML1 |
| - | 492 | AF12A-209-3/8 | - | 1132 | CML1 |
| - | 493 | AF12A-210-1/4 | - | 1132 | CML1 |
| - | 494 | AF12A-210-1/5 | - | 1132 | CML1 |
| - | 499 | AF12A-210-2/6 | - | 1132 | CML1 |
| - | 496 | AF12A-210-15/23 | - | 1132 | CML1 |
| - | 495 | AF12A-210-14/17 | - | 1132 | CML1 |
| - | 498 | AF12A-210-2/12 | - | 1132 | CML1 |
| - | 500 | AF12A-210-2/7 | - | 1132 | CML1 |
| - | 497 | AF12A-210-2/10 | - | 1132 | CML1 |
| - | 491 | AF12A-209-2/8 | - | 1133 | CML2 |
| - | 492 | AF12A-209-3/8 | - | 1133 | CML2 |

In this example 10 test entries are being compared to 10 standard entries, resulting in 100 pairwise comparisons.

Select Traits

A list of traits common to test and standard entries is provided. When Analysis is selected, summary statistics, like MEAN, from the BV single site analysis are included in the list of traits.

- Choose the trait(s) of interest for comparison. Choose the direction of selection. Increasing is the default direction of selection, because for most traits breeders select based on larger values. However, some for some traits, like days to flowering (anthesis), decreasing values may be favorable. Select Next.

BREEDING ACTIVITIES

INFORMATION MANAGEMENT

Head to Head Query

Manage Ontologies

Import Datasets

STATISTICAL ANALYSIS

PROGRAM ADMINISTRATION

MAIZE

Site AdminMy Programs?admin

Specify the entries

Select the traits

Selecting the trait to be used as basis for the comparison

Traits

Analysis

| TAG | VARIABLE NAME | PROPERTY | DESCRIPTION | NO OF ENVIRONN | DIRECTION |
|-------------------------------------|----------------------|----------------|--|----------------|------------|
| <input checked="" type="checkbox"/> | EPR | Ear aspect | Ear Position Ratio | 14 | Increasing |
| <input type="checkbox"/> | TLpct | Lodging | Determining by adding the number of plants that lodge as a r | 12 | Increasing |
| <input checked="" type="checkbox"/> | SLOdInc_Ct_plntPlot | Stem lodging | Stem lodging incidence BY SLOdInc - Counting IN Plant/plot | 10 | Increasing |
| <input type="checkbox"/> | EHvst_Ct_earPlot | Ear harvestec | Ear harvestednumber BY EHvst - Counting IN Ear/plot | 10 | Increasing |
| <input type="checkbox"/> | RLodgInc_Ct_plntPlot | Root lodging | Root lodging incidence BY RLodgInc - Counting IN Plant/plot | 10 | Increasing |
| <input type="checkbox"/> | SLOdInc_Cmp_pct | Stem lodging | Stem lodging incidence BY SLOdInc - Computation IN % | 8 | Increasing |
| <input type="checkbox"/> | Silk_DT_day | Silking time | Silking time BY DTS - Computation IN Day | 10 | Increasing |
| <input type="checkbox"/> | RLodgInc_Cmp_pct | Root lodging | Root lodging incidence BY RLodgInc -Computation IN % | 8 | Increasing |
| <input type="checkbox"/> | SITE_SOIL_PH | Soil acidity | Soil acidity - ph meter (pH) | 14 | Increasing |
| <input checked="" type="checkbox"/> | PHTSLB_M_cm | Plant height t | Plant height to insertion of first tassel branch BY PHTSLB - Mez | 14 | Increasing |
| <input checked="" type="checkbox"/> | ASI_Cmp_day | Anthesis silki | Anthesis silking interval BY ASI - Computation IN Day | 10 | Decreasing |
| <input type="checkbox"/> | Ant_DT_day | Anthesis time | Anthesis time BY Days to anthesis - Computation IN Day | 10 | Increasing |

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Select Environments

All of the environments shared by the standard and test entries are listed and can be filtered by location or study. Additional environmental conditions can be added to the table to assist selection. The importance of individual environments can be adjusted by assigning differential weights.

- Select the environments of interest and specify weight. By default, all selected environments are deemed important with equal weight in the comparisons. Select Next.

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Specify the entries

Select the traits

Select the environments

Environment Filter

Filter by Location

Filter by Study

Add Environment Conditions columns to the Environment Filter

Choose Environments:

| TAG | LOCATION | COUNTRY | STUDY | PHTSLB_M_CM | SLOdINC_C | EPR | ASI_CMP_DAY | WEIGHT |
|-------------------------------------|-------------|----------|-----------------|-------------|-----------|-----|-------------|-----------|
| <input checked="" type="checkbox"/> | RA Early | Zimbabwe | AVTYY600-Code | 100 | 100 | 100 | 100 | Important |
| <input checked="" type="checkbox"/> | RA Late | Zimbabwe | AVTYY600-Code | 100 | 100 | 100 | 100 | Important |
| <input checked="" type="checkbox"/> | Lusaka West | Zambia | AVTYY600-Code | 100 | 100 | 100 | 100 | Critical |
| <input checked="" type="checkbox"/> | GART | Zambia | AVTYY600-Code | 100 | 0 | 100 | 0 | Desirable |
| <input checked="" type="checkbox"/> | GART | Zambila | AVTYY600-Meanin | 100 | 0 | 100 | 0 | Ignored |
| <input checked="" type="checkbox"/> | KAFUE | Zambia | AVTYY600-Meanin | 100 | 0 | 100 | 0 | Important |
| <input checked="" type="checkbox"/> | KRC Early | Zimbabwe | AVTYY600-Meanin | 100 | 100 | 100 | 100 | Important |
| <input checked="" type="checkbox"/> | ART Medium | Zimbabwe | AVTYY600-Code | 100 | 100 | 100 | 100 | Important |
| <input checked="" type="checkbox"/> | RA Late | Zimbabwe | AVTYY600-Meanin | 100 | 100 | 100 | 100 | Important |
| <input checked="" type="checkbox"/> | RA Early | Zimbabwe | AVTYY600-Meanin | 100 | 100 | 100 | 100 | Important |
| <input checked="" type="checkbox"/> | KRC Early | Zimbabwe | AVTYY600-Code | 100 | 100 | 100 | 100 | Important |

Number of Environment selected: 14

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Results

The results are summarized by trait in tabular form. A p-values below 0.05 indicates that the test entry preforms significantly better than the standard entry.

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- Select Export to create an .xls file.

- Browse Studies

- Browse Studies