Report of index aggregation

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# Disclaimer

This report is generated from the **Plant Index Aggregation App**. You may notice some NULL or NA in the report. It means the corresponding analysis was skipped when the app was used.

# Background

The objective of this analysis is to create aggregated indexes that can represent clusters of numeric original indexes. The report contains the information of the original and aggregated indexes, the process of cluster forming, and the evaluation of the performance of the aggregated indexes.

# Input

## Files

## NULL

|  |  |
| --- | --- |
| Table | File |
| Breeding value | demo |
| Economic value | demo |
| Economic value weight | demo |

# Filters

Missing EBV set to 0:, FALSE

Table filters

|  |  |  |
| --- | --- | --- |
| Table | column | level |
| Breeding value |  |  |
| Economic value |  |  |

# Summary statistics

## Breeding value

Table: Breeding value summary statistics

|| || || ||

## NULL

### Classification variable

#### Distribution

## NULL

#### Full table

Table: classification variables summary statistics

|| || || ||

## Economic value

Table: Economic value summary statistics

|| || || ||

## NULL

### Classification variable

#### Distribution

## NULL

#### Full table

Table: classification variables summary statistics

|| || || ||

## Original indexes

You have individuals and original indexes.  
Individuals with missing breeding value are removed.

### Distribution of 100 random samples

## NULL

### Full table

Table: Original index summary statistics

|| || || ||

# Aggregated index

## Index weight

The *equal weight* was used to weigh original indexes within their cluster.

### Sneak peek

### full table

|| || || ||

## Aggregated index economic values

Table: New economic values

|| || || ||

## NULL

## Aggregated index relative economic weight (RW)

Table: New relative economic weight

|| || || ||

## NULL

# Aggregated index diagnosis

This is to investigate the relationships between original and aggregated indexes, and across aggregated indexes, with or without comparison with a benchmark index, to evaluate how well aggregated indexes represent their own cluster.

## Variable pattern

The frequency of levels of a known variable in aggregated indexes. This can potentially provide insights into the possible reason behind the aggregation, if the frequency distribution of the known variable is uneven across aggregated indexes.

Below is the frequency/percent distribution of \*\* (variable) across \*\* (aggregated or pre-defined grouping index).

### plot

## NULL

### full table

Table: Distribution of across

|| || || ||

## Index weight pattern

The weight of each aggregated index as the sum of the weights of its corresponding original indexes of the same cluster. This can show which aggregated index was assigned the most or the least weight, which is often related to the importance of the aggregated index.

Below is the distribution of \*\* (index weight) across \*\* (aggregated or pre-defined grouping index).

### plot

## NULL

### full table

Table: Distribution of across

|| || || ||