

SABeefBulls.com

A COMPLETE DECISION TOOL FOR BEEF CATTLE BREEDING

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1. Precisely defining **Breeding Objectives** and setting of **Selection Criteria**.
 2. **Ranking** all available animals, deemed to be selection candidates based on **their Genetic Merit** according to the defined Breeding Objectives and Selection Criteria.
 3. **Culling** non-compliant animals based on their Genetic Merit ranking and other minimum criteria and **selecting** those that will result in the best parents for the next generation.
 4. **Optimal matings** that will result in progeny where inbreeding is minimised (to insure genetic diversity) and Breeding Objectives are met.

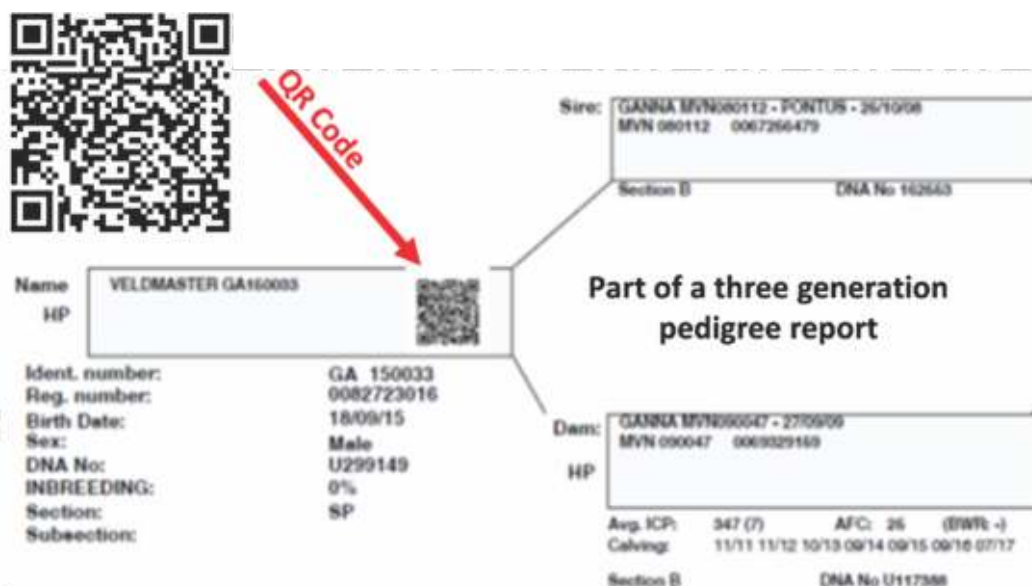
SABeefBulls.com is a decision tool to assist breeders in applying all four steps.

The most common use of SABeeFBulls.com is to access the information of all possible selection candidates and other animals in the breed, fitting the genetic requirements of the user. It is therefore a very powerful search engine to obtain

genetic information for individual animals, or groups of animals, based on specific search criteria.

An added convenience is the use of Quick Response Codes (QR Codes) that give direct access to the information of

individual animals. By simply scanning the code with a cell phone or tablet, the user has immediate access to the animal's information on SABeefBulls.com. The QR code is available on different Logix reports, such as the three-generation pedigree and sales catalogues.



Of great value is the function on SABeefBulls.com to set own criteria and to identify potential selection candidates conforming to them. As an example, a search can be made for active (alive) Nguni bulls born between 2009 and 2016, based on their genetic merit for the Cow Value, but with additional genetic criteria for the accuracy for Cow value and sub-minimum values for Calving Ease, Female Fertility and Maintenance.

The set-out criteria, on SABeefBulls.com will then be as follows:

Group Search

Select Breed:

Nguni

Animals to Display:

20

Animal Status / Category:

Active and Alive

Genotyped:

All Animals on Database

Select Sex:

Males

Breeding Objective:

Cow Value

Filters

Based on:

Breeding Indices

Birth Year:

>= 2009 and <= 2016

Traits

Selection Values

Cow Value:

>= 110

Growth Value:

>= 90

Calving Ease Value:

>= 90

Calf Growth Value:

>= 90

Milk Value:

>= 90

Fertility Value:

>= 90

Maintenance Value:

>= 90

Accuracy:

>= 90 %

Accuracy:

>= 90 %

Accuracy:

>= 90 %

Accuracy:

>= 90 %

Accuracy:

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Accuracy:

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This search will identify, among others, a Nguni bull (Called "Bull A") with the following genetic merit for the different trait groups:

Star Rankings			
Publication Date: (2018 - 02 - 08)			
Cow Value	★★★★★	Growth Value	★★★★★
Calving Ease Value	★★★☆☆	Fertility Value	★★★☆☆
Calf Growth Value	★★★☆☆	Milk Value	★★★☆☆
Maintenance Value	★★★☆☆		

In effect, this opens new and exciting possibilities to all breeders and commercial beef producers to not only **allow for precise information to be known and used, but also to extend selection possibilities.**

SABeefBulls.com will offer new possibilities with the newly developed mating module that allows for the setting of own breeding objectives, selection of own females based on these objectives and selection criteria, maintaining genetic variability by controlling inbreeding and mating plans to accelerate the pace of reaching the breeding objectives.

Breeding Value Indices for: BULL A

Selection Values:

647688100112124136

Cow Value

122

Growth Value

125

Production Value

124

94

Calving Ease Value

Calf Growth Value

115

Milk Value

111

Fertility Value

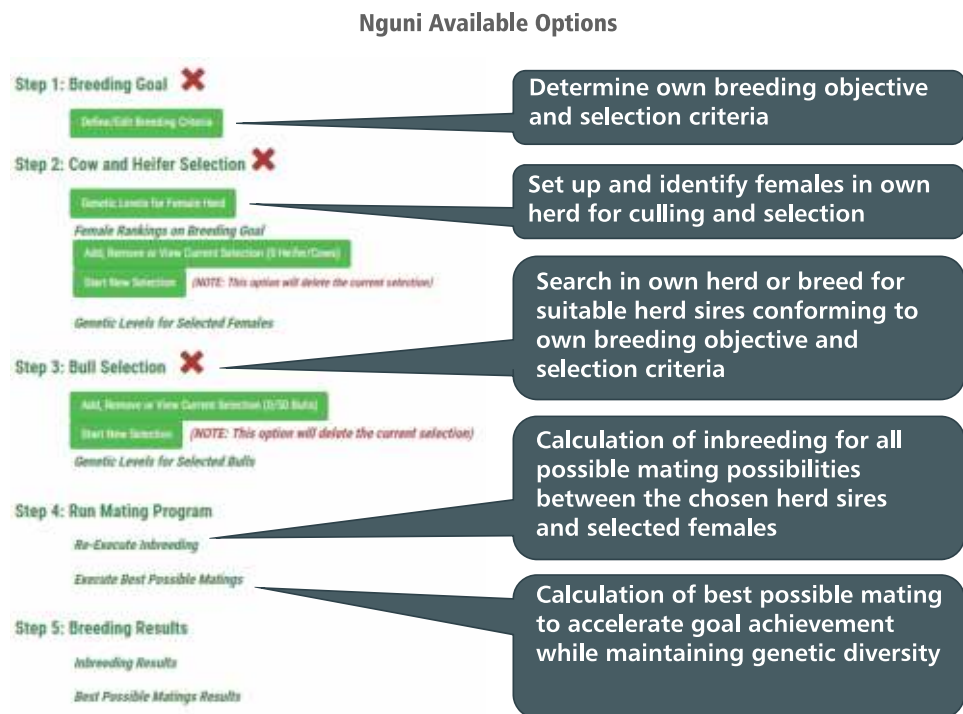
118

93

Maintenance Value

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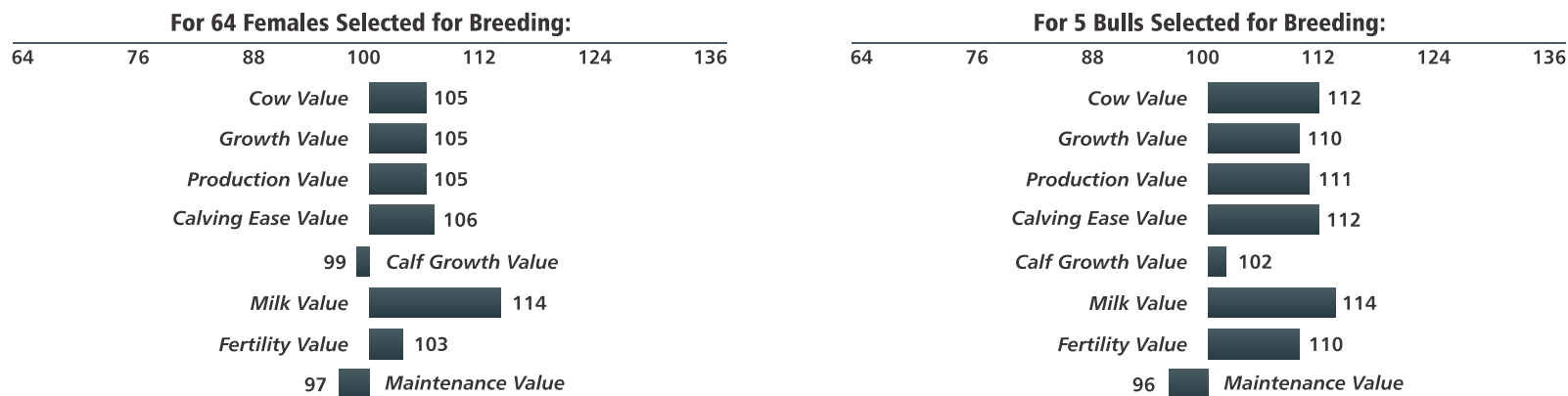
The following figure depicts the main menu of the mating tool on SABeefBulls.com



The next figure shows a typical assessment of the choice made for breeding animals chosen for mating, after selection of females took place and bulls identified as possible herd sires.

Assessment of Genetic Levels for Selected Females and Potential Sires

SELECTION VALUES:

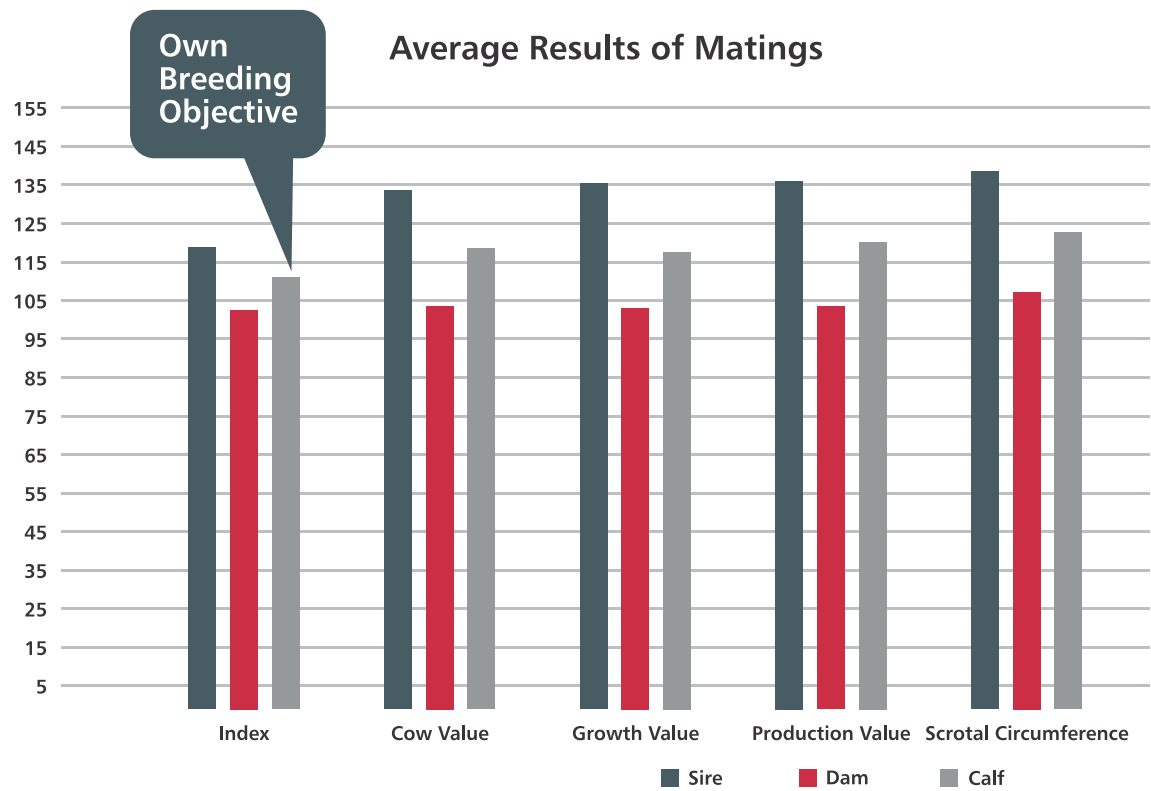


In this example, the breeding objectives are as follows:

Trait Group	% Contribution
Calving Ease	5%
Milk	15%
Pre-Wean Growth	30%
Cow Maintenance	15%
Female Fertility	25%
Scrotum Circumference	10%

Of the possible 9 bulls chosen, the mating module picked three.

The following graph shows the expected outcome where the average genetic merit for the different trait groups of the calves, resulting from the suggested matings, are compared to that of the suggested sires and the selected dams.



SABeefBulls.com allows serious beef cattle breeders the opportunity to make the correct choices based on their own market requirements, the genetic merit of the available breeding stock and other important considerations. It also lowers the risk and insures the maintenance of genetic diversity needed to make sure future selection will be successful. This aid goes hand in hand with visual assessment of possible selection candidates and is still not a compromise for selecting functional efficient cattle. ■

SABeefBulls.com

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