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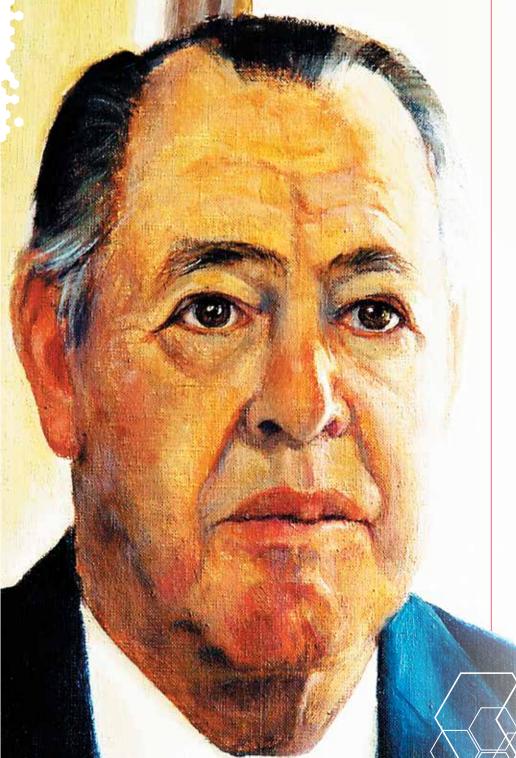
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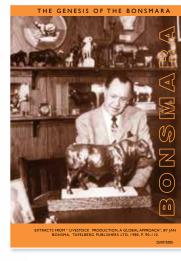
THE

GENESIS

OF THE

BONSMARA

he main problem of livestock production in the tropics and subtropics, the world over, was what became known as the tropical degeneration syndrome amongst the Bos Taurus breeds of cattle. The British beef breeds, namely the Shorthorn, Hereford, Angus and to a lesser extent, Sussex and Red Poll, did not thrive under the sub-tropical conditions of



the ranching areas of south Africa. In the northern parts of South Africa, the altitude is 900m, average annual temperature 20 degrees centigrade (reaching 40 in summer) and the annual rainfall is 450mm. Before 1940 it was thought that tropical degeneration of the British breeds was caused by malnutrition. The protein content of natural pastures in the southern hemisphere is low, dropping to critically low levels during late summer and early winter. Because poor nutrition was considered to be the cause of tropical degeneration, a large-scale nutritional experiment was launched at the Messina Livestock Research station in 1937, using a large

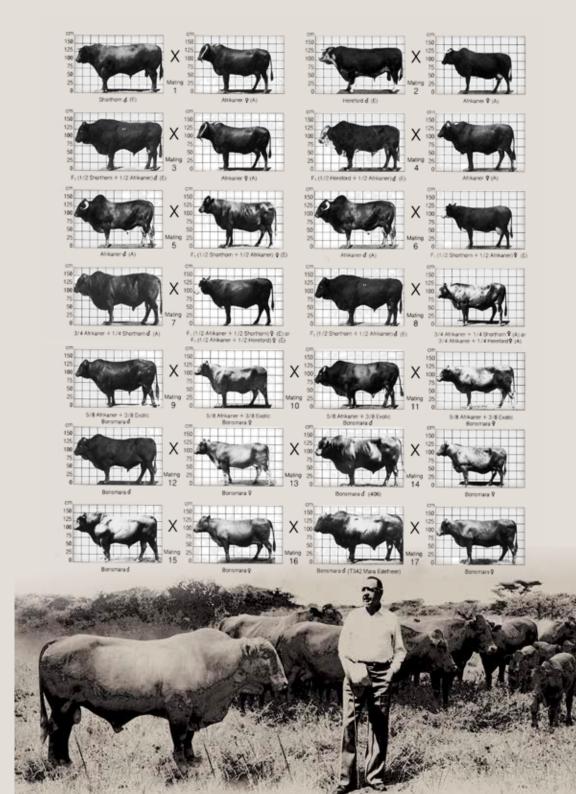
group of heifers of different British beef breeds. This brought Bonsma to the realisation that malnutrition was not the culprit. Amongst

the heifers were individuals

that thrived appreciably better than others. Careful observation proved that those which showed the least climatic stress thrived best. Those animals that showed signs of stress on hot days had a very high respiratory rate, they panted, their tongues hung out and they dribbled profusely. Because Bonsma wanted to measure every aspect of the livestock that he worked with, he made numerous observations on his experimental animals. These included regular weighing, 14 different body measurements, body temperature, pulse- and respiratory rates, hair counts per square centimeter and tick counts. Hair diameters were measured and complete hair coats of different types of cattle were shorn off, weighed and put through a felting machine. these elaborate tests proved beyond doubt that the hide and coat of cattle played a tremendous role in the process of heat dissipation, which is of the utmost importance for the animal to maintain its thermal equilibrium in the environment. Animals that suffer from hyperthermia have increased respiratory and pulse rates with concomitant metabolic, physiological and endocrinological disturbances. Animals with a respiratory type of body conformation, a wide forehead and convex facial profile are much better adapted to the tropics and sub-tropics than those with a digestive type of body conformation and a dished forehead and profile. It has been convincingly shown in several critical experiments, and it is only logical, that the larger the surface area of the nasal sinuses, the greater is the surface area available for evaporative cooling during panting.

It would seem reasonable, therefore, to assume that cattle with broad heads and a convex profile ("Roman nose"), would be able to cool their brain tissue more effectively than those with narrow heads and a concave profile. Afrikaner cattle are extremely well-adapted to hot and arid conditions. That they also have relatively large, broad heads with a convex Roman profile, appears to be of great importance in their physiological adaptation, and not merely a fancy point dreamed up by breeders.

Only after the climatological data on the various types of cattle were submitted to the late Professor A. M. Bosman, could Bonsma convince him that the proportion of blood in the new breed to be estasblished, should be the opposite of the Santa Gertrudis, namely, 5/8 Afrikaner and 3/8 British beef breed (the santa gertrudis consisted of 5/8 British beef breed and 3/8 Bos indicus). The south African research showed conclusively that as soon as the British beef breed content of the Afrikaner/ Bos taurus cross went beyond 50%, signs of distress were encountered on hot days. At this early stage of the breed creation project it was not possible to decide which of the British beef breeds would give the best results when cross-bred to Afrikaner cows. After many criss-cross matings, the 5/8 Afrikaner, 3/16 Hereford and 3/16 shorthorn animals seemed the most satisfactory and became the new breed now known as the Bonsmara. Thanks to Bonsma's unique method of scale photography, the Bonsmara is the only breed in the world that can boast a pictorial genealogy from the very beginning of the breeding work until the new breed was established.



BONSMARA SYSTEM

DEVELOPMENT OF BONSMARA

he Bonsmara is the only beef breed in the world created through a well documented crossbreeding programme with the aid of objectively recorded performance data. Visual evaluation according to norms for functional efficiency are also strictly applied.

Bonsmara was bred at the Mara and Messina Research stations between 1937 to 1963 by scientists under the watchful eye of Prof Jan Bonsma. The name Bonsmara was derived from Prof Bonsma's surname and Mara, where the first crossbred calves were born. Prof Bonsma and his colleagues constantly exercised crossbreeding experiments in about 20 commercial herds in different parts of South Africa, to finally establish the best performing crossbreed sample, 5/8 Afrikaner and 3/8 Exotic Hereford/Shorthorn.

The first Bonsmara bulls were made available to commercial cattle breeders in the 1950's and soon were widely spread across South Africa and the rest of the world. This led to the formation of the Bonsmara Breeders Society in 1964. Other African countries which promptly accepted Bonsmara were Namibia, Uganda, Zimbabwe, Botswana and Zambia and the beef cattle industries of Argentina, Australia, Brazil, Paraguay, Colombia, USA and Uruguay.

Strict selection for economic traits such as fertility, milk production, growth and adaptability are still practiced. This has contributed to the reality that Bonsmara proudly succeeded in becoming the strongest and most professionally administered beef breed in South Africa.

Bonsmara, the most prominent of beef breeds in South Africa, currently having the most registered beef cattle.



While totally dependant on our

Creator, the Bonsmara

Cattle Breeders' Society endeavors to be the leader in the beef cattle industry and to serve producers in South Africa and the rest of the world by:

Acting with credibility and integrity at all times. Promoting scientific, biological and economic efficiency. Promoting practical and efficient production methods. Supplying superior, market related breeding material to the industry. Supplying affordable, quality beef to all consumers.

Through these actions, the Bonsmara Cattle Breeders' Society strives to make a positive contribution to the promotion of a balanced, environ-mentally friendly beef-cattle industry, which will benefit the population as a whole and support its members in viable business undertakings.

FEATURES AND CHARACTERISTICS OF THE BONSMARA

GOOD ADAPTABILITY ON THE VELD

For more cost effective production off the veld. Bonsmara was the first breed to inspect cattle with their production records. All Bonsmara cattle are inspected before breeding age and any not showing good veld adaptability, are rejected.

Well adapted Bonsmara animals can be identified by the following:

- Smooth coated in summer;
- well pigmented eyes, udders and hooves;
- strong constitution and
- sound feet and legs

Any animal with structural defects or those that are functionally inefficient, are culled.

GOOD MOTHERING ABILITY

As a result of intensive selection, calves are produced off the veld at very low cost.

Listed below are some of the most important mothering abilities:

- Early puberty Bonsmara grow fast, mature early and breed at 12 18 months of age.
- Ease of calving Bonsmara are known for their ease of calving, which is also of value in crossbreeding
- Superior fertility This important trait is maintained by strict selection standards.
- Good milking ability Due to this factor, high weaning masses are attained.
- Low mortality.

GOOD GROWTH UNDER INTENSIVE AND EXTENSIVE CONDITIONS

GOOD CARCASS

Bonsmaras round off very well (in feedlots and on the veld) with best grading at a young age. Bonsmara has been the dominant breed in the national carcass competition winning it 8 years in a row.

DISPOSITION (TEMPERAMENT)

Bonsmara are docile animals, easy to handle and as a result require less labour.

CROSSBREEDING

Bonsmara plays an important role in any crossbreeding programme.

THE ROLE OF BONSMARA

The development and implementation of the Bonsmara System over many years, has scientifically moulded the breed to become the benchmark in breeding. Today the breed plays an important role in:

STUD BREEDING

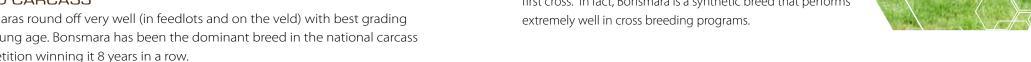
Bonsmara is ideally suited to South African conditions. The purpose of stud breeding as seen by the Bonsmara Cattle

> Breeders' Society, is to satisfy the needs of the commercial breeders Bonsmara is also setting the pace by breeding cattle to perform in all

environments by using scientific selection procedures.

CROSS BREEDING

Bonsmara bulls cross extremely well with a variety of breeds and types. Commercial breeders who continue to use Bonsmara Bulls will not forfeit productivity after the first cross. In fact, Bonsmara is a synthetic breed that performs



BONSMARA | 2019 BONSMARA | 2019

FFFDI OT PERFORMANCE

Bonsmara has proved to be a popular breed for the feedlot market. Bonsmara's feedlot performance is highly economical, their temperament is suited for the feedlot and tender meat of high quality is produced. Carcasses grade well from veld or feedlot, with high dressing percentages, even fat deposition, marbling and excellent muscle to bone ratio.

THE BONSMARA SYSTEM

The Bonsmara system is unique and the strict implementation thereof with a competent staff component contributes largely to the position of the breed in the beef industry.

THE SYSTEM RELIES ON FOUR FACTORS:

- Genetic material a large gene pool;
- efficient machinery to select the best genetic material;
- competent marketing for efficient marketing strategy;
- dedicated manpower coordinating all aspects of breeding

GENETIC MATERIAL

THE APPENDIX SYSTEM

Specially selected basis cows provide an important genetic base from relatively inexpensive commercial cows. These cows are selected by Bonsmara inspectors according to minimum breed standards. The cows are mated to S.P. registered Bonsmara bulls.

- Fully Registered (SP)
- Appendix B Female X Stud Bull (SP)
- Appendix A Female X Stud Bull (SP)
- Basis Cow X Stud Bull (SP)

LARGE COW HERDS

A large population is essential for effective herd improvement. Genetic improvement is limited in small herds. For this reason a minimum of 20 cows is a prerequisite for Bonsmara breeding. Bonsmara have the largest average herd size in comparison to all other breeds in South Africa.

COW NUMBERS

Rapid expansion gives momentum to the breed and also provides a large population for stricter selection.

SELECTED BULL POWER

Bonsmara bulls are subjected to phase C and/or farm growth tests in large numbers. The

use of such performance selected Bonsmara bulls has contributed progressively to the improvement in growth and feed efficiency in commercial herds.

ARTIFICIAL INSEMINATION (AI)

The society controls the practice of Al in Bonsmara herds in accordance with the "Livestock

Improvement Act of 1998". A wide variety of genetics are available through Al approved bulls. All Al-bulls have to meet minimum performance standards, they are approved by the Breed Society's Al - committee and two senior breed inspectors.



SCIENTIFIC BREEDING POLICY

The Bonsmara breeding policy is compiled in cooperation with leading animal scientists and geneticists. Performance testing is compulsory and all animals have been weighed and full records have been kept since the early years. The breeding system, based on production recording, has resulted in improved production.

MINIMUM BREED STANDARDS

- A heifer must calve before or at the age of 39 months for the first time.
- A calving interval may not exceed 790 days.
- A cow must rear at least two of any three consecutive calves (up to weaning age).
- A cow may not wean more than two calves with an index below 90. Once a cow has weaned three calves with an index below 90, she will be culled.

BULLS

For wean and post wean

- Minimum wean index of 90
- Minimum 12 month index of 90
- Minimum 18 month index of 90



or for phases C & farm growth tests

- Minimum wean index of 90
- Minimum ADG index of 90
- Minimum corrected scrotum 305(mm)
- A lot of emphasis is placed on the functional appearance of the animal. All animals are inspected at completion of the test and all animals that fail the inspection must be slaughtered.

COMPULSORY COMPUTER VERIFICATION

The Bonsmara society relies on computers and specially developed computer programs for the following reasons:

- To computerise all its animal records.
- For the application of the minimum standards and especially to identify cows with below standard performance that are then culled.
- Verifying and approving data for sales catalogues.
- To cope with administrative work.

INSPECTION SERVICE

The success and uniqueness of the Bonsmara inspection system lies in the fact that we use our own breeders as inspectors. They in turn train young breeders (juniors), who accompany them to the farms for the most practical and hands on herd selections. Inspectors are rotated regularly. All animals are inspected at breeding age. They are visually appraised for functional efficiency together with their official production data. Animals that do not meet the performance standards are culled. All rejected bulls are slaughtered.

MARKETING

SALES UNDER AUSPICES OF BREED SOCIETY

Sales held under the auspices of the society are arranged by clubs and private breeders. All animals are visually screened by society inspectors and performance data in catalogues is verified by the office.

CLUBS

Clubs conduct sales, host training and information days and perform various functions in all nine provinces.

PROMOTION

The breed is constantly promoted by means of the Bonsmara Journal, brochures, pamphlets and other highly informative promotional material.

SHOWS

Bonsmara may be exhibited at shows but are not permitted to participate in any competitions. The Bonsmara has become the largest breed in South Africa without competing in shows. The elimination of competition between breeders at shows has been beneficial to relationships

between breeders. Many farmers choose Bonsmara for the very reason that the breed prefers not to compete at shows.

MANPOWER

DEDICATED BREEDERS

The implementation of the Bonsmara system rests squarely on the shoulders of dedicated breeders. A fine spirit of cooperation exists in the Bonsmara Society that stems from the following:

- Common goal in regards to red meat production. The ideal is to maintain a breed of cattle that is in step with the requirements of the commercial beef industry.
- Education to keep abreast of developments. The educational programme to aid breeders in developing functionally efficient cattle takes the form of:
- Bonsmara days organized by regional clubs.
- Inspectors' courses to attain uniformity.
 - Annual symposiums to keep abreast of scientific developments.
 - Think tanks" with geneticists, animal scientists and veterinarians to evaluate the breed and decide on strategy.
 - Breeders forums to maintain standards and expand knowledge.

DEDICATED ADMINISTRATIVE STAFF

The society has a small, yet close knit team of dedicated office personnel, communicating with breeders and the public on a regular basis.



CONFORMATION GUIDE

trict selection for economic traits such as fertility, milk production, growth and adaptability are still practiced. This has contributed to the reality that Bonsmara proudly succeeded in becoming the strongest and most professionally administered beef breed in South Africa. Bonsmara, the most prominent of beef breeds in South Africa, currently having the most registered beef cattle.

GENERAL DESCRIPTION

A medium framed, smooth coated, heat and tick tolerant beef breed. The Bonsmara is uniform red to brown in colour and has the typical frame of an efficient sub tropical, easy calving breed.

QUALITIES

- Good adaptability on the veld
- Good mothering ability
- Good growth under intensive and extensive conditions
- Good carcass
- Disposition (temperament)
- Crossbreeding

NORMAL PRODUCTION ENVIRONMENT

Extensive, sub tropical and higher lying temperature areas.

AVERAGE BREED PERFORMANCE

DESCRIPTION	FEMALE	MALE	%
Birth weight	35 kg	37 kg	
Cow weight at birth	503 kg		
Calf birth weight: cow weight			7.2
Live calves born			97.5
Age at first calving	31 months		
Inter-calving period	413 days		
Mature weight	503 kg		
205-day corrected weight	215 kg	227 kg	
Cow weight at weaning	506 kg		
Calf weaning weight: cow weight			45
365 day corrected weight	258 kg		
540 day corrected weight	325 kg		

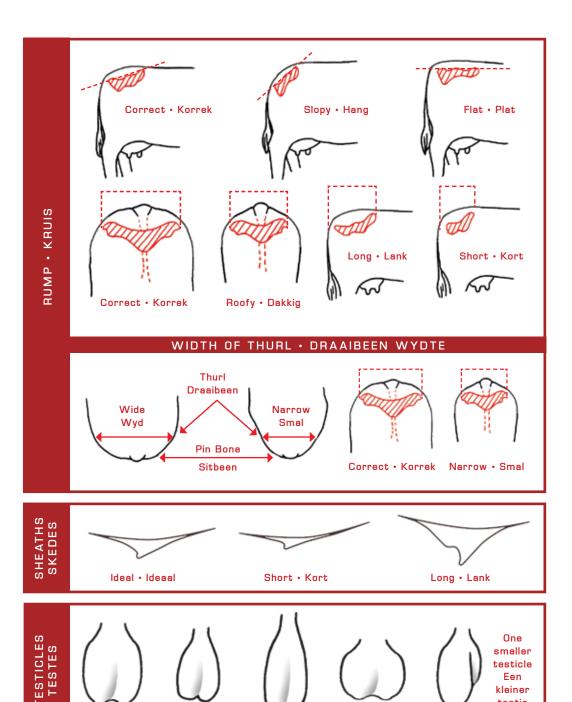






Ideal • Ideaal

Small • Klein



Long • Lank

Round · Rond



Hipoplasia

kleiner testis



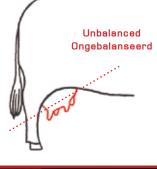
Correct

Korrek

Correct

Korrek





Goat Udder Bokuler



Bandy Bakbenig



Correct Korrek



Cow Hocked Koeihakkig



Bandy Bakbenig





Knock Kneed

X-Benig

Sickel · Sekel



Straight • Regop



PASTERN KOOTGEWRIG

Correct Korrek

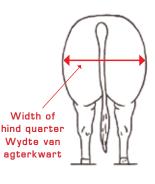


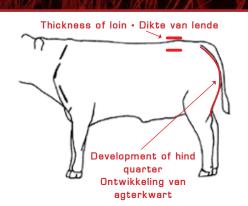
Straight Regop

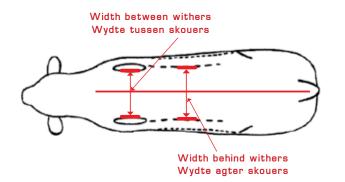


Weak Slap

MUSCULAR DEVELOPMENT SPIERONTWIKKELING

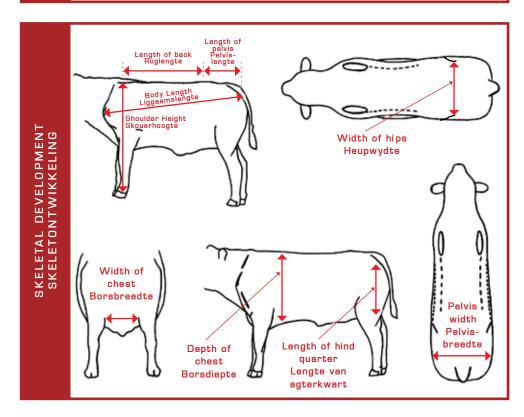






WIDTH OF MUZZLE · WYDTE VAN BEK TOP LINE · RUGLYN YOU WAR WAR WYDTE VAN BEK TOP LINE · RUGLYN Straight Hollow Hollow Hol

Correct Korrek Pappegaaibek Visbek



GENETIC TRENDS FOR THE BONSMARA BREED



By selecting on breeding values together with conformation Bonsmara breeders have increased important traits like weaning weight without increasing birth mass and height of animals.

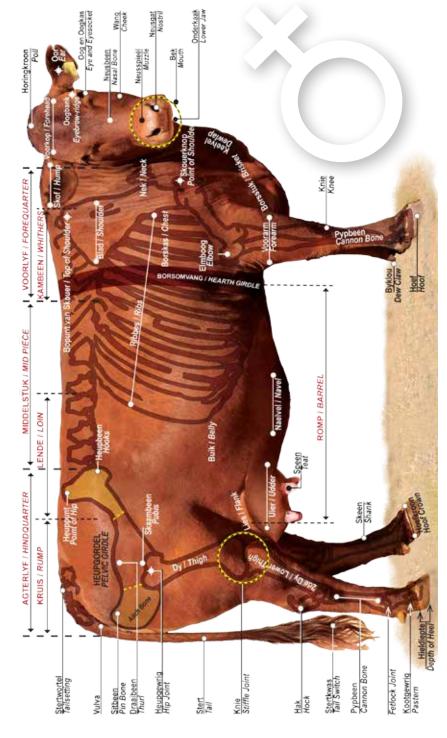
CALF GROWTH



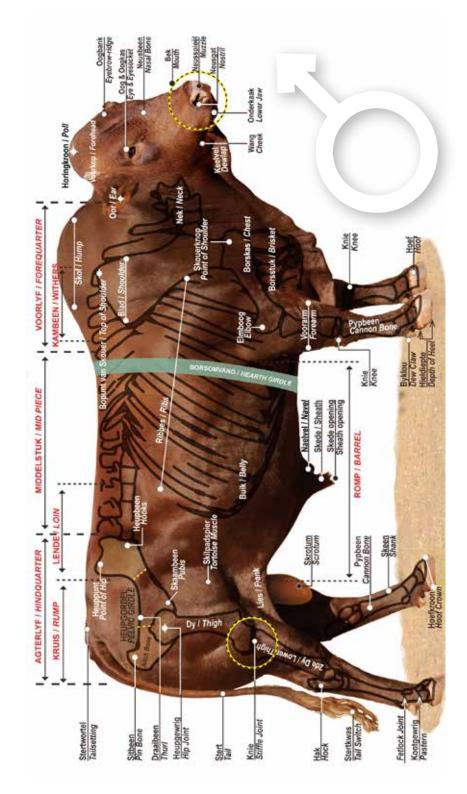
■ Females ■ Males

With over 3500 bulls sold yearly, with more than 88% with a growth value on average and above it is clear that Bonsmara breeders is providing bulls according to the commercial breeder's needs.

COW CONFORMATION GUIDE



CONFORMATION GUIDE BULL



BONSMARA REJECTION CODES



RESTASIE	Δ	PERFORMANC

Slagklousule A1 Slaughter Clause Minimum rasstandaarde A2 (Indeks) standaard

Minimum Breed Standards (index) Teelwaardes onder A3 EBV's below standard (estimated breeding values)

ALGEMENE BOUVORM B GENERAL CONFORMATION Nie-bonsmaratipe **B1** Not Bonsmara type Swak bespiering **B2** Poor muscling aanpassing

Ponie-tipe **B6** Pony type Groot (laat ontwikkelend) B7 Big (late matured) Growwe beenstruktuur B8 Coarsely boned Fyn beenstruktuur **B9** Fine boned Min diepte **B10** Lack of depth Min sprong van rib B11 Lacks in spring of rib Abnormale gang B12 Abnormal gait Algeheel plat B13 Flat

Swak balans (hoogte/lengte) B3 Poor balance (height/length) Swak balans (voor/agterkwart) B4 Poor Balance (front/hind quarter) Swak konstitusie of **B5** Poor constitution or poorly adapted Oordrewe bespiering **B14** Excessive muscling

KLEUR C COLOUR

Wit bokant onderlyn C1 White above underline Wit bokant stertkwas C2 White above switch Nie-tipiese Bonsmarakleur C3 Not typical Bonsmara

HAARKLEED D HAIR COAT

Lang krullerige- of wolhare D1 long or woolly hair coat

MANLIKHEID/VROULIKHEID E MASCULINITY/FEMININITY

Os-agtig **E1** Oxy

TEMPERAMENT F TEMPERAMENT

Swak temperament F1 Bad temperament Wild (Moeilik hanteerbaar) F2 Wild (difficult to handle) KOP G HEAD

Skewe gesig **G1** Skew face Ligte onderkaak **G2** Light jaw Kort onderkaak (Pappegaaibek) G3 Undershot jaw Lang onderkaak (visbek) G4 Overshot jaw ontwikkeling Holkop **G8** Dish face

VOORKWART H FRONT QUARTER

oordrewe los

MIDDELSTUK J MID PIECE

Dakkig op skouers **J5** Roofy on shoulders

Kort kop G5 Compressed head Swak oogbank **G6** Poor eyebrow development Smal kop **G7** Narrow head

Swaar borsbeen (verse) H1 Prominent brisket (heifers) Blaaie of skouers **H2** Loosely attached shoulders

Hol rug **J1** Hollow back Skewe of krom rug J2 Laterally twisted spine Boggelrug J3 Hunchback Duiwelsgreep J4 Devil's grip

AGTERKWART K HIND OUARTER

Plat kruis K1 Rump too flat Oormatige hangkruis **K2** Excessively sloping rump Dakkige kruis **K3** Rump too roofy Sitbene te nou **K4** Narrow through pin bones Oordrewe rondeboud K5 Excessively rounded hind (varkboud) quarter Plat deur dye **K6** Flat through thighs

VOORBENE L FRONT LEGS

Te X-benig L1 X-legged Duiftonig L2 Pigeon toed Bakbene L3 Bandylegged Bokknieë L4 Stag knees Knieë na agter gebuig L5 Knees bent backwards Voorpote trap uit L6 Duck feet (Stands on inner hooves) (Eendpotig) (Trap op binne kloue)

AGTERBENE M HIND LEGS

Regop hakkig M1 Straight Hocks Uitermate sekelhakkig M2 Excessively sickle hocked Uitermate koeihakkig M3 Excessively cow hocked Trap kort M4 Short gait Bakbene M5 Bandy legged

KOOTGEWRIGTE N PASTERNS

Kote trap deur N1 Weak pasterns Kote te regop N2 Upright pasterns Kote gebuig **N3** Twisted pasterns Bykloue afwesig N4 Missing dew claws

KLOUE P HOOVES

Kloue era gesplete **P3** Hooves too open

agterkloue

Skewe stert/aanhegting Q1 Wrytail - attached off

Oordrewe bobbejaanstert Q2 Baboon tail Kinkel in boonste derde Q3 Congenital kink in upper van stert

(Testes nie afgesak)

op skrotum Gesplete skrotum R8 Scrotum split

Uitgroei kloue **P1** Outgrowing hooves Kloue krul na binne **P2** Hooves curling inwards

(pole shoe)

Te min diepte van hiel P4 Lack in depth of heel Kloue verskil in grootte P5 Hooves differ in size Kurktrekker klou P6 Cork screw hooves Trap op buitekant van P7 Standing on outside part of hind hooves

STERT Q TAIL

centre

third of tail

SKROTUM & TESTIS R SCROTUM & TESTES

Skrotum gedraai (>45°) R1 Scrotum twisted (>45°) Testes (skrotum) te klein R2 Testes (scrotum) too small Testes te groot **R3** Testes too bia Koeksister gedraaide testes **R4** 'Koeksister' shaped testes Hipoplasie **R5** Hypoplasia Kriptorchidisme R6 Cryptorchidism (testes did not drop) Oormatige lang hare **R7** Excessively long hair

on scrotum

Testes skep vorentoe R9 Testes 'scoops' forward

MINIMUM **SKROTUMOMVANG**

MINIMUM SCROTUM **CIRCUMFERENCE**

NASPEENGROEITOETS | POST WEAN GROWTH TEST

Gewig/Weight Omvang/Circumference 375-399 kg 300 mm 400-449 kg 310 mm 450-499 kg 320 mm 500-549 ka 330 mm 550kg en hoër 350 mm

INTENSIEWE GROEITOETS NTENSIVE GROWTH TESTS 305 mm Corrected (to standard weight of 425kg)

305mm Gekorrigeerd (na standaard gewig van 425kg) SKEDE S SHEATH Skede te lank **S1** Sheath too long

Vlesige skede **S2** Fleshy sheath Prolaps van voorhuid S3 Preputial prolapse Te groot skede opening **S4** Sheath opening too big Naelvel S5 Navel

VROULIKE T FEMALE GENITALS **GESLAGSORGANE**

Onderontwikkelde vulva T1 Under developed vulva Vulva wat na horisontaal neig T2 Vulva tends to be horizontal

UIER & SPENE V UDDER & TEATS

Swak uierontwikkeling **V1** Poor udder development speenontwikkeling

Swak of abnormale V2 Poor or abnormal teat development

Bottelspene **V3** Bottle teats

ANDER REDES W OTHER REASONS

eienskappe nie op lys -SPESIFISEER asseblief Eienaar uitgeskot W2 Owner - culled

Enige negatiewe **W1** Any other negative traits not on list -Please SPECIFY

OPMERKING Gebruik W1 so min moontlik.

REMARKS Use W1 as little as possible.

HOW TO USE BREEDING VALUES TO SELECT BEEF CATTLE

HELENA THERON | SA STUD BOOK | PRETORIA OFFICE

INTRODUCTION

f you have only started to breed beef cattle, you might have found breeding values overwhelming. Some breeds receive up to 18 breeding values. What do they mean, and are some more important than others? Selecting animals on breeding values are in fact guite easy, once you know how. The key is to do your homework before you select animals.

SOME THINGS YOU NEED TO KNOW ABOUT GENETICS:

There is a saying: 'Good feeding can hide bad breeding', which is very true. You can not eyeball an animal and decide what his genetics are. If he has been fed well, he will look good, but he can be genetically inferior. This implies that he –and his progeny - will need a lot of food and care to look good. It therefore makes more sense to buy an animal that is genetically superior, as it will be more profitable. Its superiority will also be transmitted to its progeny. The general idea is to

rather breed animals that are suitable for your environment, not to continually change the environment to suit the animal, as this can be a very costly exercise. Using adapted animals is also the right thing to do from an animal welfare point of view.

The reason why we need to look at breeding values to know how the bull will

breed is because the effect of the environment, and feed, is so important. The only way to 'get the environment out' is

the scientific way, which entails performance measurements under controlled circumstances and complete pedigree recording. If you don't do performance measuring properly, your animals will not get usable breeding values. So if you buy stud animals, it should be from a breeder that does performance measurement on his animals, and knows and understands breeding values.

Another important factor is that genetic change is a long term venture: The effect of the bulls that you buy today, will still be felt in the herd for years to come. If he is a good choice, his daughters will become your herd cows, and part of your profit, of the future. So don't buy a lucky packet bull: one you don't know anything about, but you are hoping for the best. Even if the bull you buy is not perfect, if you know about his shortcomings, you can manage it by using him on suitable cows.

BREEDING VALUES

Breeding values are also expressed as indexes, which is very easy to interpret and use. The average breeding value index of live animals in the breed is set to 100. So above 100 means the animal is better than breed average. A value of for example 120 for weaning weight means a calf that has the genetic potential of 20% heavier than the average calf. Breeding value indexes indicate genetic potential, and how heavy it will actually be, is determined by the amount of feed it gets. However, it you have two calves, one with an index of 120 and another with an index of 80 together on the same farm, the 120 one will definitely be the heaviest. A lower birth weight is generally more desirable, as birth weight is the most important cause of difficult births. So an index for birth weight of above 100 indicates a lighter calf.

Note that although above 100 indicates the more desirable direction, it does not imply that all breeding value indexes should be maximum. For some traits, e.g. birth weight and mature weight, average is in fact the most desirable.

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Another fact that should be kept in mind, is that traits are connected to one another, meaning you should not select on one trait only. Selecting only for maximum weaning weight for example, will increase both birth weight, which will cause difficult births, and mature weight, causing large framed cows that can be inefficient under certain circumstances.

													_		
		CT CALF RAITS	DAUG	DAUGHTER TRAITS		(GROWTH		EFF.	REP		SURE- NTS			
	Progeny Brilli Weight	Fregeny Wean Wey		Mik prod	Mature Weight	Post Wean Weight					Feed Coms		Height & Ferigh		
		Breeding Value Indexes													
Nr	Birth Dir	Wean D	ir Birth Mat	Wean Mat	Mat Wgt	Post	Wean	ADG	FCR	SC	Hgt	Lgt			
	Acc	Acc	Acc	Acc	Acc		oc	Acc	Acc	Acc	Acc	Acc			
	Wgt kg	Wgt Ir kg	nd kg	kg	kg	365d Ind	540d Ind	Ind	Ind	(mm)	(nici)	(nini)			
	94	105	99	84	85	10	03	88	87	101	86	92	Α		
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	31	181 9	11			98	97	-	-	-	-	-			
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	61 36	73 197 10	32 01	63	34	101	96	45	23	45	40	45			
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TABLE 1 | EXAMPLE OF 6 BONSMARA BULLS FOR SALE IN A SALES CATALOGUE

In Table 1 the information of 6 bulls in a sales catalogue is shown. The Breeding Value Indexes of the bulls (for example Row A) and the accuracy of the breeding value (row C) is used in the selection of bulls. The accuracy indicates the amount of information available for breeding value estimation. If it is above 80%, the breeding value is based on lots of information, while below 30% it is not very reliable, and may change a lot as new information is used for breeding value estimation. Row B can also be used, but it

indicates breeding values, which is not as easy to interpret as the breeding value indexes. The information in row D only indicates if the animal was measured for a specific trait. It can not be used for any selection whatsoever, as it reflects mainly the environmental effect and not the genetic effect.

HOW TO USE BREEDING VALUES

If for example you want to buy a breeding bull on breeding values, you need to follow a few simple steps. The first and most important is to know what you want. What you want is mainly determined by three factors: What do you want to do with the bull's calves, how much feed do you have and what is the genetics of your cows.

What do you want to do with the calves? For example, you can sell some of the calves as weaners to a feedlot, or you can breed replacement cows for your older cows that are leaving the herd. If you intend to sell stud bulls, you should realize that it is a very specialized area, and you need to study performance measurement and breeding values in depth. Only the best bulls should become stud bulls. Having said

that, as we will see, not all bulls need to be the same

to be best.

How much feed do you have? The amount of feed determines the frame size that will



too low. (A low birth weight index indicates a heavy calf at birth, which is undesirable). Bull 4's birth weight and weaning weight is much better than Bull 3's.

They will be on the veld all year. The heifer calves will be used as replacement cows in the herd, or sold as such, while the bull calves out of the superior cows will be sold as stud bulls. A bull with average or slightly above average growth will be ideal. Once again the growth breeding values are important, but should not be as high as possible, but closer to 100. It is now important to also look at Birth Weight and Milk as well as the reproduction breeding value indexes AFC (Age at first calving) and ICP (inter-calving period). The Cow Value,

(heavier), and this calf can be retained in the herd or sold.

Bull 2: A bull to use on Bonsmara pedigree cows that do not have any particular problems.

which combines all the important breeding values into one value, will give a guick indication of how suitable the animal is to breed cows. (AFC, ICP and the Cow Value are not on the sales catalogue, only in the genetic evaluation report that all stud breeders receive once a year). From Table 1, both Bulls 5 and 6 will be suitable, although Bull 6 will be the better choice, since birth weight, weaning weight and mature weight is a very favourable 102, 109, 90, indicating a curve bender, against Bull 5's 97, 100, 105 indicating a little bit too heavy at birth in relation to average at weaning and above average at maturity.

Bull 3: A bull to use on heifers that are to be mated to calve at 2 years. The bull should therefore not have a high breeding value for birth weight, so as to ensure easy calving. The calves should however still be profitable, i.e. have enough growth in them to be either sold to the feedlot or to be used as replacement heifers. A bull with Breeding Value Indexes for both Birth Weight and Weaning Weight above 100 is ideal. In Table 1, for example, the best bull when selecting only on the best value on Birth weight, would be Bull 2, but he breeds small calves with little growth. Bull 6 will be a much better choice: although birth weight index is above average (smaller), weaning weight is also above average

do best. If you have lots of good quality feed at a reasonable price, larger framed animals will probably be more profitable. If the animals are going to be extensively kept on the veld, medium framed animals will probably be better. If conditions are very harsh, smaller framed ones might be even better, but then rather choose a smaller framed breed, so that selected animals are well adapted and strong and small

What is the genetics of your cows? Are they perhaps the wrong frame size, or do not have enough milk (you can see that in their breeding values), or perhaps you are looking for a bull to use on your heifers. Are they pedigree animals or crossbred cows? If they are pedigree animals, they will have breeding values, and you will know with much more surety what their genetic ability are.

SET UP A BREEDING GOAL

framed, not small framed because they are poor.

Use the above to decide what type of bull will be best on your farm. Let us say for example we need the following 3 bulls:

Bull 1: A bull with good growth to use on a group of crossbred cows that will be grazing the camp at the river with the good grass, as well as some crop rests. The calves will all be sold to a feedlot. A large framed bull with good growth will therefore be best. Important breeding value indexes are Weaning Weight, Average Daily Gain (ADG) and Feed Conversion Ratio (FCR), which should all be as high as possible. Post wean weight, mature weight and Height and Length also giving indications of the general frame size that the bull will breed. On the genetic evaluation report, the Growth Value will summarize all these values into a single value, which makes selection easier. From Table 1, Bull 4 will be best. Bull 3 is also suitable, but his Birth weight Breeding Value Index is

IN CONCLUSION

As can be seen from the above, different types of bulls are suitable for different types of cows and circumstances. It is also possible to find a custom bull to your cows, with the aim to improve the calves. As inbreeding should also be kept at a minimum, it is usually easier to use a mating program to fit bulls to cows based on breeding values.

PRACTICAL BULL MANAGEMENT

our bulls are the most important animals on your cattle farm, making up only 3-4% of your herd but contributing 50% to every calf they produce. A single bulls can produce 40 or more calves per year.

THE NEW BULL ON YOUR FARM

- If the new bull is transported with foreign bulls, it would be ideal not to load them into the same compartment on the truck, particularly if free standing. They can get into nasty fights on the truck and lesser bulls cannot escape from the fighters. Therefore, preferably load foreign bulls in separate compartments (even bulls that know one another).
- Make sure that the bull (particularly if it is the only one) is off-loaded in a safe camp (with sturdy fencing) with one or two other cattle to keep him company for the first few days.
 Clean water and good grazing will immediately calm him. Make sure he finds the water and leave him in peace for at least two days.
- You can take out limited or comprehensive insurance cover and/or you can collect the bull's semen if it is genetically superior. If you introduce bulls from a disease-free area to an area

- with endemic diseases, such as heart-water, red-water, gall-sickness etc., rather insure the bull comprehensively for a year.
- Incorporate the bull into your normal dipping, dosing and vaccination programme immediately, independently of what the previous owner did.
- If the bull is very fat, wean him of concentrated feeds systematically. In the first week 8 kg/day; the second week 4kg/day; the third week 1kg/day, along with his future lick (ad lib); and the fourth week only his normal lick.
- If possible, keep the new bull away from other bulls until he gets to his cows. In other words, the bull should work for a season before being put in with the greater bull herd.
- Remember that a bull cuts teeth between 2 and 2½ years. The bull might possibly lose weight if he has to adjust to his new environment, browse in average grazing and service cows.
- Ideally you should have the bull on your farm two months or more prior to the start of the breeding season to allow him to adjust to his new environment and feed conditions.

BEFORE THE MATING SEASON

• It is essential to have your bulls tested for fertility three to six weeks before the onset of the mating season and perform sheath wash for Trichomoniasis and Compylobacter (vibriosis).





Of 10 940 bulls tested in the USA approximately 20% were unfit for use. You would normally 'lose' at least 10% of your bulls. Identify them before the breeding season; the costs involved are much lower than the calves you lose for not doing so. Test your 'new' bull too, even though he might have been sold with a fertility certificate. The effect of stress of the auction and transportation may affect his fertility in the short term.

- Even in systems that use multiple sire mating, it is essential to perform a semen evaluation of the bulls, as dominant bulls with poor semen can keep younger bulls with good quality semen away from cows.
- Examine your bulls for general health before the mating season; make sure that they are structurally normal and that their gait is in no way awkward or abnormal.
- Inject bulls about two months before the breeding season with Vitamin A and minerals (Multimin + SE + Cu). Embamin and Embavit (dosed orally) are brand names of oral supplements that can also be used. This treatment may be repeated after about two months.
- A bull's condition should always be 2½ to 3½ out of 5. Overfeeding causes heavy, unfit, clumsy bulls, whose semen is usually sub-standard.
- Underfeeding may also be a problem, but normally libido decreases before semen quality is affected. If bulls are somewhat lean, start providing supplementary feeds two months before the breeding season. These may vary from production lick to 5-10 kg concentrate per bull per day.
- Vaccinate bulls against Crotalism (stiff-sickness) and (Compylobacter foetus) vibriosis, two months prior to the breeding season.

DURING THE MATING SEASON

- It is important to carefully observe your bulls, particularly young bulls. Make sure that such bulls are adept at mating and that libido is present. Young bulls are initially inexperienced, but should be adept within a few days. Usually 10% of bulls have no or weak libido. Identify and eliminate them.
- In multiple sire herds, put older and younger bulls together not bulls of equal strength. No fewer than 3-4 bulls per 100 cows. We believe in using one adult bull and two young bulls per 75 cows. In single mating herds 30 to 40 cows should be allocated per bull for three months.
- Should a bull have a feverish reaction as a result of red-water, gall-sickness, lumpy-skin disease, three-day stiff-sickness, etc., his semen would probably be infertile and he might need two months (or even longer) to recover. During the mating season closely observe the bulls to identify diseased ones immediately. Replace such a bull. Foot-rot must be treated right away by injecting long-term antibiotics. It is a painful condition and bulls will not breed until it has been cured. Make sure that your bulls remain healthy during the breeding season. Injuries that result from fighting or other causes can eliminate a bull from the breeding season, particularly hip, leg and hoof injuries.
- Keep a record of the cows that were serviced. Approximately 60% of cows are fertilised
 in their first cycle. If more cows return to oestrus there is a problem; it must be identified
 and solved as soon as possible. You have time to do so, but you need to hurry.
- Mating herds should not be kept alongside one another. Bulls fight through the fences to get to a cow on heat. With two-year old and younger bulls you might risk it with a very sturdy fence.

AFTER THE MATING SEASON

- Starve the bulls in separate, sturdy kraals for three to four days (without food and water). Then take them out to the 'bull camp' one by one, where good grazing and clean water is freely available. Under these conditions they should forget all about the cows and need to feed more than fight! The bull camp must be safe, without too many stones, ditches or holes, and there must be enough space to make way for one another.
- The ideal is to pair bulls off (one older and one younger) and not put them all together
 in one camp. Valuable bulls in particular should be kept separately. However, in practice
 they are lumped together between mating seasons and the owner can then only hope
 for as few injuries as possible.
- The bull camp can be secured by erecting double fences (3 metres apart) along the sides where other cattle are grazing. Electrical fences may be useful but require maintenance.
- Because bulls frequently fight and need more 'personal' space, make provision for more eating space at lick troughs or when limited supplements are fed. Between 0.5 and

1 meter per bull ought to be sufficient. Truck or tractor tyres turned inside out make effective troughs for licks; they are indestructible and cannot harm the bulls in a fight.

- When working with the bull herd, make sure that they are not all driven into a tight group (pinned together); they usually fight under such circumstances. Bulls that have accepted one another for months will suddenly start fighting if they are moved around the scientific term is 'translation behaviour'.
- Do not allow all the bulls to graze with the milking cows or another cow. All bulls mating with the same cow might lead to cross-infection with venereal diseases.

GENERAL REMARKS

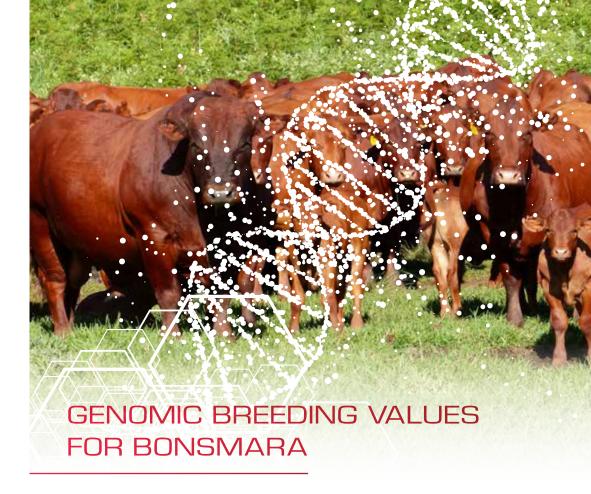
- It is advisable to have one reserve bull for every ten bulls you are using.
- Bonsmara bulls can already be used at 14 months of age as long as they weigh 420 kg, the scrotal circumference is at least 340 mm and their semen has been tested. These young bulls ought to be able to service 10-20 cows each in three months.
- Normally Bonsmara bulls can be used up to an age of ten years. Older bulls can also be used, but under special observation to see if they are still breeding well.
- Adult Bonsmara bulls weigh between 800 and 1000 kg; in other words, at least 1.5 to 2
 LSU (Large stock units). Bear this in mind with your bull camp and fodder flow planning.
- Enjoy your bulls; in 90% of cases you should have no problems.

A BONSMARA BULL IS ...

- Registered with SA Studbook
- Performance-tested by SA Studbook
- Approved by Bonsmara inspectors
- Branded with a on the right shoulder

Invest in dedicated breeding and a well-proven system.

Buy Spranded Bonsmara Bulls



he release of the very first Genomic BLUP breeding values for beef cattle in Africa enables Bonsmara breeders and their global clients to share in the advantages of the latest breeding technology for livestock.

The Bonsmara breed has taken the lead to make Genomic Selection for the breed in Africa, and even globally, a reality when Bonsmara SA, at their annual general meeting, in 2012decided to invest in genomic selection. This investment in the future of the breed was made by gaining access to the genomic profiles of influential breeding animals to establish a reference population. The initial investment was made from own funds and contributions from fellow breeders. The animal scientists at Stud Book worked closely with the Bonsmara Council in taking the lead in planning and executing the project and following scientific principles needed to make genomic information part of breeding value predictions for the breed.

BONSMARA | 2019

THE BONSMARA SYSTEM IS THE IDEAL FOUNDATION TO APPLY GENOMIC SELECTION

Bonsmara breeders take part in a system where traits of economic importance are routinely measured and recorded. This is a prerequisite for successful breeding value predictions, including the incorporation of genomic information. The establishment of a reference population was accelerated when the Beef Genomics Program (BGP), financed by the Technology Innovation Agency (TIA), was established in April 2015.

Due to the commitment of the Bonsmara breeders to record diligently, the breed's main focus in the BGP is to add as many as possible influential breeding animals to the reference population. A main focus is also to include the genomic profiles of females with a

large influence in the breed. This has the advantage that sex limited traits, only measurable on females could be linked more accurately to the genomic differences among animals in the breed. The chosen cows already had very accurate BLUP breeding value predictions for these traits. They include traits such as age at first calving, calving interval and maternal influences on birth and weaning weights. Due to the enthusiastic participation of Bonsmara breeders in central and farm growth tests for young bulls, trustworthy information is also available for traits such as feed intake and those associated with Real Time Ultrasound scanning (subcutaneous fat depth, eye muscle area and marbling). To avoid weak links between some genetic groups or herds with the information on genomic profiles for the breed, all breeders were encouraged to submit biological samples (semen straws or hair samples) of their herd sires to be included in the reference population.

While the collection of hair samples and semen from influential animals took place and the genomic profiles became available, the animal scientists at SA Stud Book continued with the model development, evaluation of the available computer software and evaluating test evaluations where genomic information was included in the BLUP evaluations. The rapid scientific and technological developments also made it possible to consider the implementation of the, so called, "Single Step" method in the genomically enhanced BLUP breeding value predictions. This method has more advantages and can form part of the routine BLUP evaluations for the breed that currently takes place once a month. Effectively

each animal receives a Genomic Breeding Value that is an adaptation from the expected BLUP breeding value for such an animal based on its true relationship with all other animals, with genomic profiles, in the population. The true relationship between animals with genomic profiles is therefore known. The obvious advantage is that it will be known what gene combination a young animal received from its parents, given that the genomic information is known. Does this animal take after the better parental line or not? The accuracy of the BLUP breeding value for young animals, especially those without measurements yet, is therefore enhanced, compared to those without genomic profiles. This is especially of value for traits or properties that can only be measured on one of the two sexes, like the genetic merit of cows to restrict the birth weight of their calves, to wean heavier calves, to calve early in season as a heifer and subsequently each calving season as can be determined by breeding values for calving ease, milk, pre-wean growth, age at first calving and calving interval. Traits that are traditionally only recorded on bulls, like feed intake (and the efficiency of converting it into growth) and traits associated with scanning like eye muscle area and marbling gain a lot through the inclusion of genomic information in the BLUP breeding value predictions.

The Bonsmara Breeders' Society of South Africa and SA Stud Book are therefore proud to announce the availability of the first Genomic BLUP breeding values for the breed from 1 July 2017. This is also now part of the regular routine monthly genetic evaluation. This service enables breeders to test young animals genomically to enhance the accuracy of BLUP breeding values for those animals. This reduces the risk associated with decisions in selecting young animals that will impact on the genetic merit of herds in future. Young bulls are excellent candidates to include in these programs, especially if they are considered as future herd sires and Al bulls.

Animals with known genotypes included in the BLUP evaluations will be identified by the "GenoTyped" logo. Searches for Bonsmaras on www.SABeefBulls.com can also be conducted on the genotyped status of animals.





MINIMUM BREED STANDARDS

he minimum breed standards contained herein replace all previous breed standards and become effective immediately.

The Council shall draw up minimum breed standards for inspection purposes (*Clause 9.29 of the Constitution*).

The Council may direct the Manager to reject or to cancel the recording or registration of an animal that does not comply with the following set minimum standards:

1. REPRODUCTION _____

- 1.1 A heifer must calve before or at the age of 39 months for the first time;
- 1.2 A calving interval may not exceed 26 months (790 days);
- 1.3 The minimum number of calves a cow must produce by a certain age is noted in the table below:

Age of dam	Min. No. Calves	Max. ICP (Days)
3 years 3 months	1	-
5 years 3 months	2	790
6 years 3 months	3	578

Age of dam	Min. No. Calves	Max. ICP (Days)
8 years 3 months	4	628
9 years 3 months	5	563
11 years 3 months	6	596
12 years 3 months	7	558
14 years 3 months	8	582
15 years 3 months	9	555
17 years 3 months	10	575

1.4 A cow must rear at least two of any three consecutive calves (up to weaning age).

2. MILK PRODUCTION _____

2.1 A cow may wean not more than two calves with an index below 90. Once a cow has weaned three (3) calves with an index below 90 she will be culled.

3. GROWTH _____

3.1 GENERAL

"THE ENTIRE REMAINING GROUP MUST BE INSPECTED TOGETHER".

Indices will be required for the purpose of inspection.

NOTE | The wean index is compulsory for all groups and for individual animals unless a valid reason is given.

In such cases the year and 18 month indices must be presented.

3.2 HEIFERS

- a. Minimum wean index of 90
- b. Minimum 12 month index of 90
- c. Minimum 18 month index of 90
- In cases where heifers are inspected

- before the age of 18 months the wean and 12 month indices will suffice.
- In cases where the animal could not be weighed at the age of 12 months, the wean and 18 month indices will be acceptable.

3.3 BULLS

- 3.3.1 Post wean growth test (phase B) a. Minimum weight of 375 kg at time of inspection.
 - b Minimum wean index of 90
 - c. Minimum 12 month index of 90
 - d. Minimum 18 month index of 90

NOTE | The scrotum circumference of phase B bulls is not officially measured.

The inspector may measure the scrotum circumference and use the standards below as guidelines.

(A Breeder may measure bull scrotums at 18 months of age and send measurements together with 18 month old weights to STUDBOOK.)

Minimum scrotum circumference.

Weight

375 to 399 kg	30 cm
400 to 449 kg	31 cm
450 to 499 kg	32 cm
500 to 549 kg	33 cm
550 kg and over	35 cm

- 3.3.2 Central + Farm growth tests (C+D)
 - a. Minimum wean index of 90
 - b. Minimum ADG index of 90
 - c. Minimum feed conversion ratio index of 90 (Phase C only)

- d. Scrotum circumference Weight 425 kg - Minimum scrotum 305 mm. (corrected measurement)
- 3.3.3 All rejected bulls from Growth tests as well as bulls not submitted for inspection, must be castrated or slaughtered immediately.

4. VISUAL APPRAISAL _____

4.1 The emphasis is on the functional appearance of the animal. The inspector will determine whether the defect warrants culling the animal. Animals with congenital defects must be culled.

Refer to the attached Codes for Rejection reasons.

4.2 T YPE AND COLOUR

4.2.1 BASIC ANIMALS

A variety of crossbred animals phe-notypically representative of a Bonsmara-type will be acceptable. Different shades of red with minimum white, is acceptable.

4.2.2 A PPENDIX AND HERD BOOK PRO PER ANIMALS

Animals must be red and neatly dehorned. White will be acceptable on the underline only.

5. BULLS FOR ARTIFICIAL INSEMINATION ———

The Society will control the practice of A I in Bonsmara herds in accordance with the "Livestock Improvement Act of 1998" as amended.

5.1 PRO CEDURE FOR APPLICATION

5.1.1 BULLS LICENCED FOR THE
PURPOSE OF A I
Nominated bulls, with acceptable
genetic potential will be researched
by a committee appointed by the
Council in respect of:

- Own performance
- Ancestral performance
- General appearance
- Progeny performance where applicable
- 5.1.2 Evaluation procedure for A.I. Bulls
- STEP 1 | Breeder Identification of potential A.I. bull
- Application for registration to office
- **STEP 2** | Office Collates necessary information
- Information forwarded to Technical Work Group Chairman
- **STEP 3** | Office Appointment of Selectors
- Furnish Selector with necessary performance data and breeding values.
- STEP 4 | Selector Visual inspection of bull on the farm
- Discuss differences/ recommendations with breeder.
- **STEP 5** | Office Advise breeder if process may continue.
- **STEP 6** | Breeder Al Centre/Vet/Technician compiles reproduction report.
- **STEP 7** | Centre Reproduction report is forwarded to office.

- **STEP 8** | Office Technical Committee evaluate result of report.
- STEP 9 | Office Approval as AI bull by Committee.
- **STEP 10** | Office Approval is confirmed with Al Centre.
- STEP 11 | Centre Bull may then be tapped.

5.2 PRO GENY

The Breed Society may cancel the regi-stration of an A I bull if the performance of the progeny is not satisfactory.

6. EMBRYO TRANSFERS (ET)

The Breed Society will control embryo transfers in accordance with the "Livestock Improvement Act of 1998" as amended.

Contact the Bonsmara Office for more information on application procedures, rules and written consents.

7. EXCEPTIONS _____

- 7.1 With written motivation on the inspection form animals that do not meet the requirements of Minimum Breed Standards may in exceptional cases be approved by the inspector.
- 7.2 Written application (appeal) to the Council within 7 days after inspection.
- 7.3 In spite of index An animal may be approved in spite of index if the animal scores a visual point of 8 with an index (wean or ADG) not less than 88.

50 REASONS why **YOU**should breed with Bonsmaras

THE BREED



- 1 Red Cattle
- **2** Good adaptability
- 3 Tick resistance
- 4 Heat resistance
- 5 Ideal mother breed for Commercial breeders
- **6** Good re-conception
- 7 Old cows marketable off the veld
- 8 Bonsmara can thrive off the veld
- **9** Excellent beef quality
- **10** Fat deposition
- 11 Performs under intensive and extensive conditions
- **12** Good feed conversion
- **13** Early maturity
- **14** Ease of calving
- **15** Fertile cows
- **16** Longevity
- **17** Good milk production
- **18** Good temperament
- 19 Ideal carcass size
- **20** Superior cow efficiency
- 21 Ideal breed for beginners

THE SCHEME

- 22 Minimum breed standards
- 23 Credible performance testing
- **24** Estimated breeding values
- **25** Genomics
- **26** Large database
- 27 Comprehensive auction catalogue
- 28 Computers improve accessibility
- **29** Independent inspectors
- Society and Council function efficiently
- 31 Animals screened for auctions
- 32 Broad minded society
- 33 Nation-wide club structure

THE PEOPLE

- **34** Trained breeders
- **35** Enthusiastic Breeders
- 36 Unity amongst breeders
- **37** Breeders with integrity
- 38 International Society
- **39** Commercial breeders

AIDS TO BETTER BREEDING

- O Data available through research
- 41 Auctions under the Bonsmara Society's Auspices
- **42** Market related prices
- 43 Large herds, more effective selection
- 44 Many phase C and growth tested bulls
- **45** Excellent communication between Breeders and the Society
- **46** Information days
- **47** Modern Synthetic breed
- 48 Brand marked beef
- **19** Breeders widely distributed
- **50** Proudly South African

HOW TO BECOME A MEMBER OF THE BREED SOCIETY

- Application forms are obtainable from the society.
- Performance Testing is a prerequisite for membership to the Bonsmara Breeders Society.
- 20 Bonsmara type females are required for the initial herd.

Application must be made for the inspection if any unapproved basic animals are involved.

Completed applications for membership should be sent to the Bonsmara offices together with:

- A map indicating the way from the nearest main road to the farm and stating distances between places.
- Six short names for the registration of the herd prefix and a choice of three herd designation marks of three letters each.
- The required fees.

More information regarding the Bonsmara breed or membership is available upon request.

The Bonsmara Society is proud of the exceptional service they provide to their members as well as the industry.

For more information on Bonsmara or how to become a member of the society, please contact us:

T: 051 448 6084 | F: 051 448 6327

E-mail: info@bonsmara.co.za | www.bonsmara.co.za

The office of Bonsmara SA is based in the S.A. Stud Book Building.

118 Henry Street | Bloemfontein | PO Box 12051 | Brandhof 9324





For more information on Bonsmara, it's breeders' and event dates, please visit: www.bonsmara.co.za

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