

Boerboel Genetic Evaluation

SA Stud Book
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MR G.G.T. MUTEMATSAKA

12 ADRIAN AVENUE
REMBRANDT RIDGE
JOHANNESBURG
2090



Kennel Number: 702176



Estimated Breeding Values (EBVs)

Litter size and conformation traits are influenced by many genes, with every gene making a small contribution to the expression of the trait. These traits are, however, also influenced by physiological and physical environmental factors, for example the age and sex of the animal, the feeding and management the animal received and year x season effects. It is therefore not possible to know what the animal's genetic potential for the trait is by merely using the measurement.

With BLUP (*Best Linear Unbiased Prediction*) methodology an animal's genetic potential is predicted by making use of the genetic parameters (heritabilities and genetic correlations) of the breed, pedigree information, as well as the measurements of the animal as deviation from the average of the animals that were measured with the animal. Adjustments are made for differences in sex, age, classifier, management and year x season effects to ensure that fair comparisons are made amongst the animals. These predictions are called **EBVs (Estimated Breeding Values)** which indicates the animal's genetic potential for the specific trait and predicts the type of progeny that the animal will breed.

Pedigree information determines the genetic level at which the animal enters the genetic evaluation, it links the information of all relatives together and it is used to determine the genetic ranking of the breed. For young animals that were not yet measured, mid-parent EBVs are estimated, which are the average of the EBVs of the sire and dam. These breeding values are still inaccurate and can change a lot when more information (measurements) is included in subsequent genetic evaluations.

Breeding values therefore enables a breeder to compare his/her animals genetically to one another, as well as to all other animals of the breed. This Report gives a summary of the genetic levels of the active males and females of the relevant breeder in comparison to that of the breed for linearly classified traits and litter size. The genetic change that occurred over time can also easily be seen.

Breeding Value Indices (EBVi)

For easy interpretation, EBVs are standardised and expressed relative to the average (100) of the active animals of the breed, using 12 as standard deviation (SD). This means that an EBV of 100 is equal to the active average of the breed, and more or less 50% of the animals will have EBVi's of between 90 and 110, which indicates an average animal. Only 0.5% of the EBVi's will be lower than 64 and 0.5% will be higher than 136. Higher EBVi's indicate better genetic potential for the trait.

Accuracy

EBVs are published with an **accuracy value (%)**, which indicates how much info was available for the estimation of the EBV and with how much trust it can therefore be applied. Factors that influence the accuracy include heritability, completeness and correctness of pedigree information, number of own and measured relatives and the size of the group in which the animal was measured. When an accuracy of 85% and more is reached, the EBV should not change significantly with the inclusion of more information in subsequent genetic evaluations.

Kennel and Breed Averages: The different traits' averages of the breeder's active animals are compared to those of the breed in the Kennel and Breed Average Graphs and Tables. The breeder can therefore easily see for which traits the animals are above or below the average of the breed.

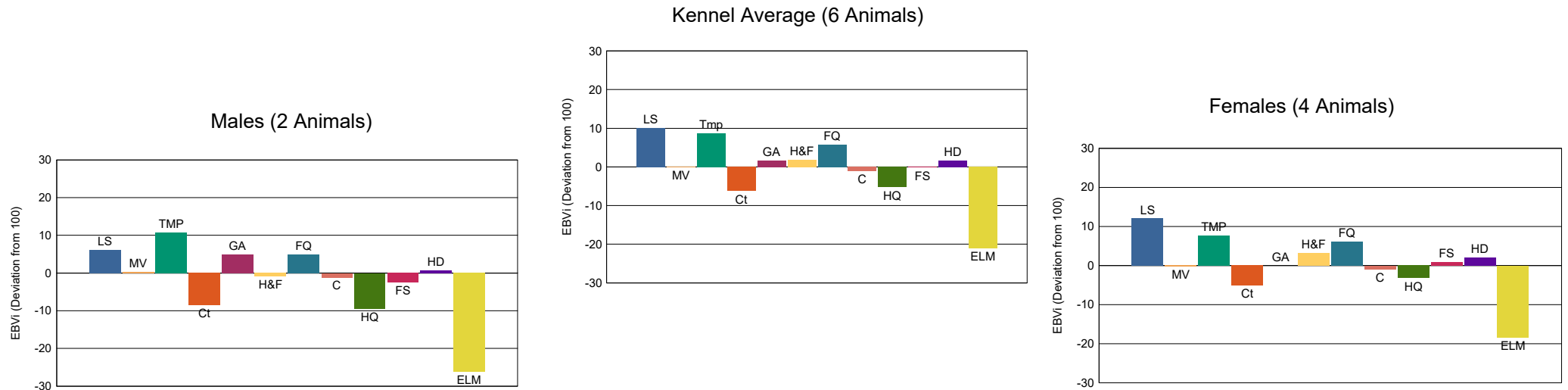
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

Inbreeding: Inbreeding is the mating of related animals and is widely viewed as being harmful. The danger of inbreeding lies there in that it can gradually decrease fertility and survivability – a phenomenon known as inbreeding depression. It can cause lower conception rates, more abortions, more stillborn and weak offspring and a higher susceptibility to diseases. Indications in dogs include a low litter size as well as problems relative to fertility, such as invisible heat, behavioural problems when mating and low sperm quality. Overall, reduced litter size most likely reflects inbreeding depression in several traits, both physiological and behavioural, as well as a high frequency of non-viable embryos due to lethal alleles. Generally, the effects of inbreeding can become noticeable at a value of 6.25%, therefore it is generally recommended that individuals should have inbreeding coefficients of less than 6.25%. Breeders should therefore avoid matings causing inbreeding of more than 6.25% in the progeny. The theoretical maximum inbreeding coefficient is 50%. However, it should be noted that not all inbred animals show signs of inbreeding depression.

The data used in this evaluation was obtained from LOGIX from linear classifications that were done by the Breeder Society. All possible attempts have been made to present the information correctly. SA Stud Book does not accept responsibility for the use and interpretation of the information presented on animals in this publication.

Genetic Levels

Kennel Average relative to Breed Average, where Breed Average is indicated as 0



Average Breeding Value Indices (EBVi) where Breed Average = 100

Trait	All Animals	Males	Females
Litter size (LS)	110	106	112
Movement (Mv)	100	100	100
Temperament (Tmp)	109	111	108
Coat (Ct)	94	92	95
General Appearance	102	105	100
Head & Face (H&F)	102	99	103
Front Quarter (FQ)	106	105	106
Centre (C)	99	99	99
Hind Quarter (HQ)	95	91	97
Final Score (FS)	100	98	101
Hip Health (HH)	102	101	102
Elbow Health (ELM)	79	74	82

Inbreeding

Notes

Inbreeding primarily leads to decreased fertility, low survivability of pups and low disease resistance.

Inbreeding coefficients are calculated for all animals of the breed and indicates the probability that two genes of a pair are the same due to a common ancestor in the pedigree of the animal.

The adverse effects of inbreeding can be observed from 6.25% onwards.

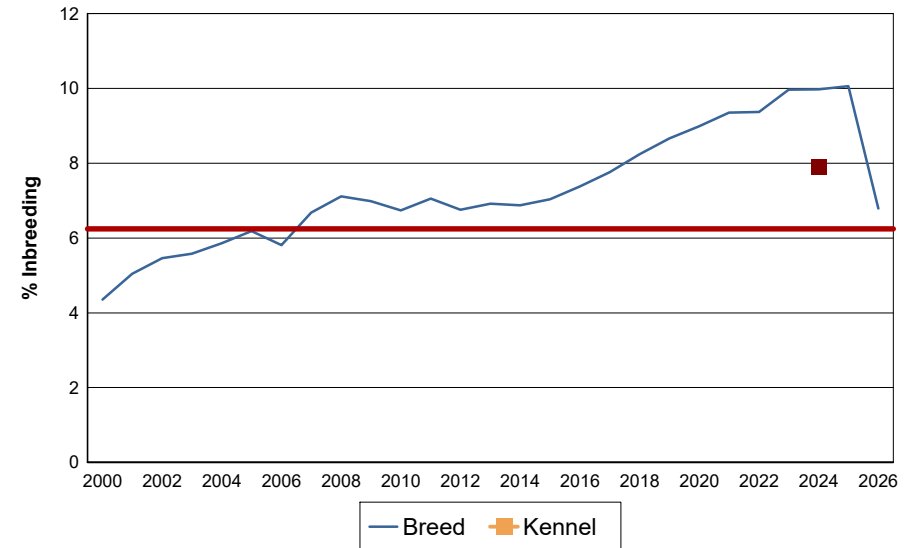
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients are therefore conservative indicators of the level of inbreeding.

Incomplete or incorrect pedigree information can be reported to SA Stud Book via the Breed Society.

Inbreeding Levels for Specific Matings

Progeny with Parents :	25%
Full Brother x Full Sister :	25%
Half Brother x Half Sister :	12.5%
One Common Grandparent :	6.25%
One Common Great-Grandparent :	3.125%

Rate of Inbreeding



Inbreeding Levels

	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	6	49007	2	25141	4	23857	4	3371	4	6287
Average Inbreeding	9.58	8.49	7.39	8.46	10.68	8.53	8.60	8.01	9.74	8.00
Number inbred	6	48727	2	24990	4	23728	4	24990	4	23728
Number >6.25% Inbr.	6	30600	2	15537	4	15058	3	15537	2	15058

Estimated Breeding Value Indices (EBVi's)

Males

Inbreeding >6.25% is high

< 80

>= 100

>= 120

Animal Information			Inbreed	Health		Fertility	General			Appearance						Progeny :		Appraisal	Health		Progeny with litters
Name	BYr	Sire Dam	%	Hips Acc.	Elbows Acc.	Litter Size Acc.	Move-ment	Tempe-rament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips	Elbows	
VOLSPOED FROST		ELEVATION FINN	6.88	101	72	100	101	112	89	107	98	106	100	88	97	22	3	5			1
	2018	REGAL SUSSA		5	5	25	52	26	67	52	66	53	55	58	62			3			1
NITROLIFE FARM MAKAYI		VOLSPOED FROST	7.90	100	76	112	99	109	94	103	100	104	98	93	98						
	2024	TSM ZIZA		5	5	5	24	5	37	23	36	24	26	29	33						

Estimated Breeding Value Indices (EBVi's)

Females

Inbreeding >6.25% is high

< 80

>= 100

>= 120

Animal Information			Inbreed	Health		Fertility	General			Appearance						Progeny :		Appraisal	Health		Progeny with litters
Name	BYr	Sire Dam	%	Hips Acc.	Elbows Acc.	Litter Size Acc.	Move-ment	Tempe-rament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips	Elbows	
TSM ZIZA		NSIZWA SPOOK	17.45	99	81	124	98	106	99	99	102	103	97	98	100	3	1				
	2021	NSIZWA SARABI		5	5	5	29	5	43	28	42	30	32	34	39						
LOMBARD SUPERIOR SHONA		KADOS TEXAS	9.47	108	94	101	103	107	93	95	111	113	103	103	107						
	2021	LOMBARD SUPERIOR LIESCHKA		5	5	21	46	21	60	47	59	47	49	51	55						
NITROLIFE FARM MHEMBERE		VOLSPUED FROST	7.90	100	76	112	99	109	94	103	100	104	98	93	98						
	2024	TSM ZIZA		5	5	5	24	5	37	23	36	24	26	29	33						
NITROLIFE FARM NGUNGU		VOLSPUED FROST	7.90	100	76	112	99	109	94	103	100	104	98	93	98						
	2024	TSM ZIZA		5	5	5	24	5	37	23	36	24	26	29	33						

Estimated Breeding Value Indices (EBVi's)

Sires

Inbreeding >6.25% is high

< 80

>= 100

>= 120

Sire Information		Inbreed	Health		Fertility	General			Appearance						Progeny :		Appraisal	Health		Progeny with litters
Name	BYr	Sire Dam	%	Hips Acc.	Elbows Acc.	Litter Size Acc.	Move-ment	Tempe-rament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny Litters	Progeny Kennels	Hips	Elbows	
ELEVATION FINN		SWELLENDAM KAROLUS	13.07	101	44	90	111	113	113	111	108	107	106	106	111	62	10	9		6
	2016	MIDDELPOS BBD STELLA		27	48	39	60	36	75	60	74	61	63	66	70		8			2
VOLSPOED FROST		ELEVATION FINN	6.88	101	72	100	101	112	89	107	98	106	100	88	97	22	3	5		1
	2018	REGAL SUSSA		5	5	25	52	26	67	52	66	53	55	58	62		3			1
NSIZWA SPOOK		ELEVATION COOPER	6.01	104	77	122	97	107	97	99	101	103	101	100	101	9	1			1
	2019	NSIZWA MOROGORO		5	22	35	54	33	68	53	67	55	57	59	63					1
KADOS TEXAS		TARGUS BOM BOEL	8.44	101	105	109	100	100	94	78	80	91	94	110	92	90	11	22		15
	2020	MES LULU V		5	5	46	70	47	82	70	82	71	73	75	79		18			5

Estimated Breeding Value Indices (EBVi's)

Dams

Inbreeding >6.25% is high

< 80

>= 100

>= 120

Animal Information			Inbreed	Health		Fertility	General			Appearance						Progeny :		Appraisal	Health		Progeny with litters
Name	BYr	Sire Dam	%	Hips Acc.	Elbows Acc.	Litter Size Acc.	Move- ment	Tempe- r ament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips	Elbows	
REGAL SUSSA	2015	MIDDELPOS BBD DUKE I	5.26	101	99	111	96	113	65	95	90	103	93	77	86	26	4	12			8
		VOEL GERUS ELZAAN		5	5	45	62	37	77	62	76	63	65	68	72			11			2
NSIZWA SARABI	2019	ELEVATION DAX	5.09		84	125	99	104	101	99	103	104	93	97	100	17	2	2			2
		LINJO NANDI			22	44	56	36	69	55	69	57	59	61	65			2			2
LOMBARD SUPERIOR LIESCHKA	2019	AFRIKA DANTOR	11.14		83	92	102	115	94	118	134	133	114	96	119	11	1	2			1
		ELEVATION DEKOTA			28	42	56	33	70	56	69	57	59	61	65			2			1
TSM ZIZA	2021	NSIZWA SPOOK	17.45	99	81	124	98	106	99	99	102	103	97	98	100	3	1				
		NSIZWA SARABI		5	5	5	29	5	43	28	42	30	32	34	39						

