

Boerboel Genetic Evaluation

SA Stud Book

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MR C.T. THOO

785 MATLWANG VILLAGE

0

POTCHEFSTROOM

2531



Kennel Number: 719018



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.

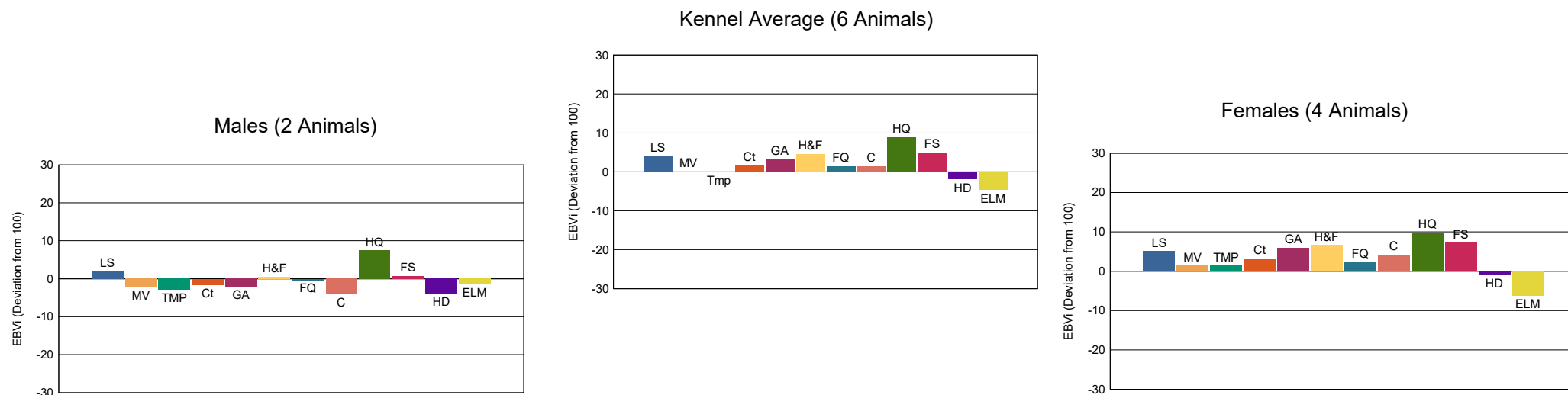
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	104	102	105
Movement (Mv)	100	98	101
Temperament (Tmp)	100	97	101
Coat (Ct)	102	98	103
General Appearance	103	98	106
Head & Face (H&F)	105	100	107
Front Quarter (FQ)	101	100	102
Centre (C)	101	96	104
Hind Quarter (HQ)	109	107	110
Final Score (FS)	105	101	107
Hip Health (HH)	98	96	99
Elbow Health (ELM)	95	99	94

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.

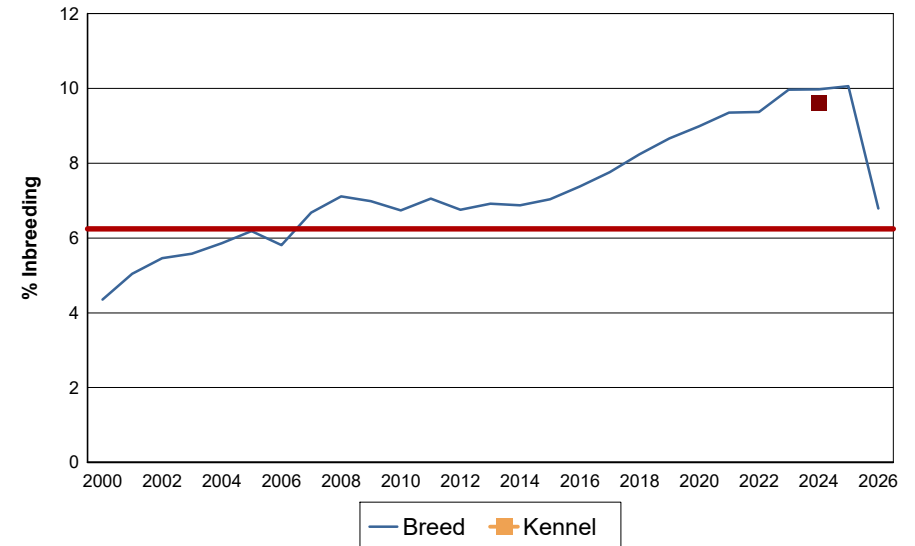
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients 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	5	3371	5	6287
Average Inbreeding	7.91	8.49	9.11	8.46	7.31	8.53	6.51	8.01	5.69	8.00
Number inbred	6	48727	2	24990	4	23728	5	24990	5	23728
Number >6.25% Inbr.	4	30600	2	15537	2	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	Litters	Progeny Kennels	Hips	Elbows	
KADIMA RATEL		SUBIRI KADIMA PROTECTA	8.62	80	99	112	95	87	96	83	82	86	84	101	86						
	2023	KADIMA TAURUS		5	5	15	44	6	62	43	60	45	48	50	56						
KINTHOO BISHOP		MIDDELPOS BBD DON	9.61	113	98	92	101	108	101	113	119	113	108	114	116						
	2024	KADIMA LA-JEFA		5	5	5	30	5	44	29	43	31	33	35	39						

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	
KADIMA LA-JEFA		BOSTU QUINN	6.03	109	81	99	105	109	92	119	120	113	108	115	116	2	1				
	2021	KADIMA FRANCHINI SPAZ		5	17	38	52	28	65	51	64	52	54	56	61						
SA BRIGHT LISAN		KADIMA DASCHU-COOL	5.77	82	87	111	95	91	105	93	89	80	92	103	92						
	2023	SA BRIGHT TYLER		5	5	13	47	19	63	46	62	48	50	52	57						
RALZUCA KINTHOO SAMUSA		BRIEL THE GHOST	7.83	93	109	119	105	98	114	98	99	103	110	107	106						
	2024	BRANDVLEI APHRODITE		5	5	6	37	5	50	36	49	37	39	42	46						
KINTHOO MILO		MIDDELPOS BBD DON	9.61	113	98	92	101	108	101	113	119	113	108	114	116						
	2024	KADIMA LA-JEFA		5	5	5	30	5	44	29	43	31	33	35	39						

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		
BOSTU QUINN		ELEVATION COOPER	6.81	106	55	99	112	118	94	131	118	114	111	117	118	66	11	15	2	2	
	2019	AFRIKA QUARA		41	57	49	69	46	82	69	81	70	72	74	78						
BRIEL THE GHOST		WIESENHOF MENEER	4.99	91	107	114	103	96	129	107	107	104	108	96	107	93	16	21		14	
	2020	ALESSANDRO BELLA		5	5	26	65	36	80	63	79	66	68	71	76						
KADIMA DASCHU-COOL		BOSTU DADDY COOL	5.48	62	93	130	98	85	115	86	65	62	76	99	78	49	10	12		4	
	2021	KADIMA TAURUS		16	31	36	63	40	77	63	76	64	66	68	73						
SUBIRI KADIMA PROTECTA		KADIMA VOODOO	7.07	97	99	83	87	93	60	78	102	96	92	105	93	11	4	4		2	
	2022	SUBIRI DIA		5	5	20	46	14	63	45	62	47	49	52	58						
MIDDELPOS BBD DON		MIDDELPOS BBD XANDER I	8.20	116	115	86	96	107	110	107	119	112	108	114	116	20	8				
	2022	MIDDELPOS BBD MEVROU		5	5	13	49	21	66	48	65	49	52	55	60						

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	
KADIMA TAURUS	2018	MAXIPAL TROMPIE	4.32	63	99	141	95	74	124	81	62	72	70	90	73	52	5	12			5
		KADIMA MA-DUECE		17	34	51	62	35	77	61	76	63	65	68	72			11			1
SA BRIGHT TYLER	2019	AFRIKA BUNDO 6	7.52	103	81	92	87	100	95	103	111	101	106	106	106	36	3	17			8
		SHADROCK MOCCA		5	22	31	59	32	74	58	74	60	62	65	70			12			1
KADIMA FRANCHINI SPAZ	2020	GIANTS OF AFRICA MAXIMUS	3.33	111	107	83	109	103	99	111	122	115	113	121	120	17	3	6			6
		AURELIUS BREKER KALASHNIKOV		5	5	51	62	38	76	61	76	63	65	67	72			5			2
KADIMA LA-JEFA	2021	BOSTU QUINN	6.03	109	81	99	105	109	92	119	120	113	108	115	116	2	1				
		KADIMA FRANCHINI SPAZ		5	17	38	52	28	65	51	64	52	54	56	61						
BRANDVLEI APHRODITE	2021	COLOS THE HUNTER ORION	7.26	94	111	124	108	101	99	89	91	103	112	119	104	2	1				
		CDH GIGA		5	5	34	51	25	66	50	65	51	54	56	61						

