

Boerboel Genetic Evaluation

SA Stud Book
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1 ZN 3 RD 3C PROGRESSIVE ESTATE
IDI OROGBO AKOBO
IBADAN
NIGERIA



Kennel Number: 706570



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.

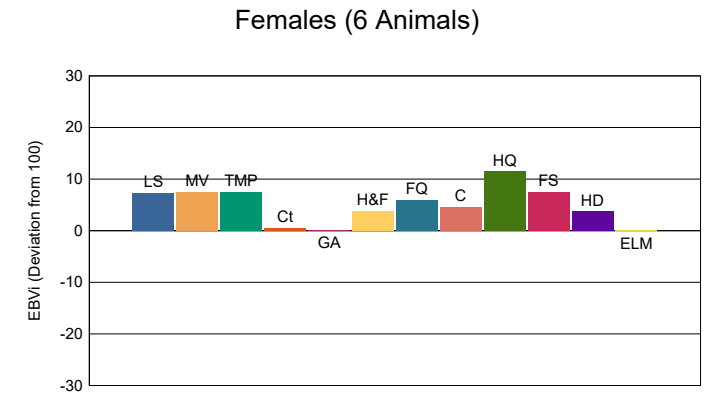
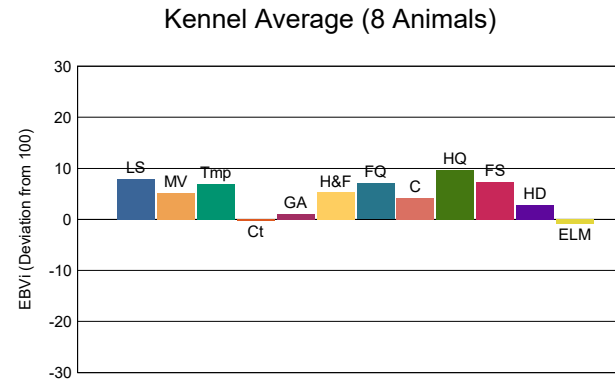
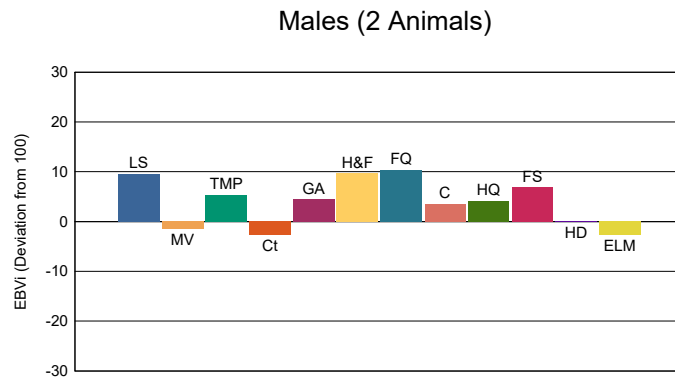
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	108	110	107
Movement (Mv)	105	98	107
Temperament (Tmp)	107	105	108
Coat (Ct)	100	97	101
General Appearance	101	104	100
Head & Face (H&F)	105	110	104
Front Quarter (FQ)	107	110	106
Centre (C)	104	103	105
Hind Quarter (HQ)	110	104	111
Final Score (FS)	107	107	107
Hip Health (HH)	103	100	104
Elbow Health (ELM)	99	97	100

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.

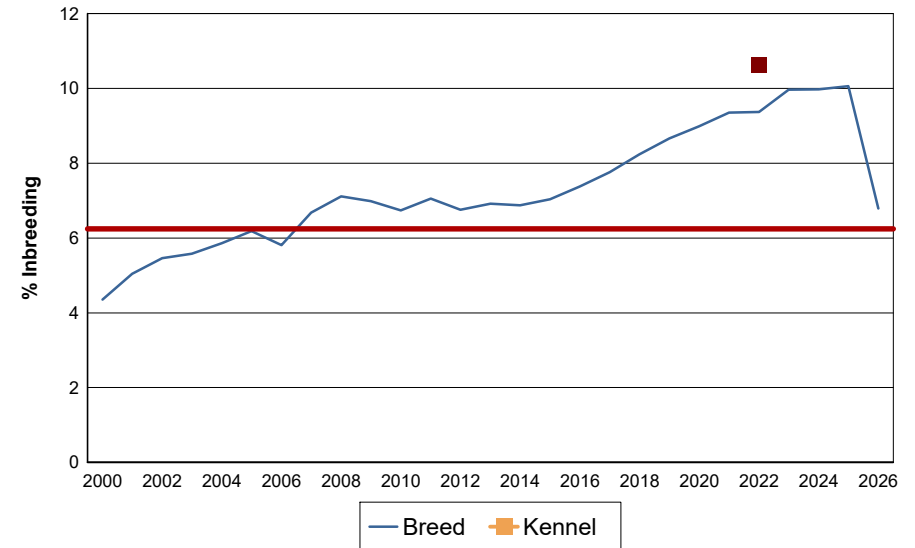
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients 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	8	49007	2	25141	6	23857	6	3371	6	6287
Average Inbreeding	7.80	8.49	4.76	8.46	8.81	8.53	9.45	8.01	6.50	8.00
Number inbred	8	48727	2	24990	6	23728	6	24990	6	23728
Number >6.25% Inbr.	2	30600		15537	2	15058	3	15537	3	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	
AFRIKA TONKA		AFRIKA TOMMELOM	4.97	102	93	111	90	112	92	115	114	121	112	102	111	1	1				
	2019	DORSLAND EMMA		5	20	33	51	29	65	51	64	52	54	56	60						
BOSENDAL X		DELATRO ECHO	4.55	98	102	108	107	99	102	94	105	100	95	106	103						
	2021	MES SOPHIA		5	5	17	32	5	45	31	44	32	34	36	41						

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 Progeny	Litters Litters	Progeny Progeny	Kennels Kennels	Hips Hips	Elbows Elbows	Progeny Progeny	with with	litters litters
CDH MIEKE	2018	CDH KAROO CDH MIA	14.14	113 5	107 5	106 40	109 56	115 36	92 67	104 56	113 67	117 57	117 58	119 60	117 63									
AFRIKA MINKE 11	2020	MES RUBENSTEIN MES MISHA II	20.24	110 5	80 21	126 42	117 57	116 38	114 68	89 57	98 67	110 58	104 59	127 61	112 64	1	1							
PHILMIA MAYA	2020	WOEKER BBD JAPIE KADIMA FANTASIA	4.43	102 5	104 5	103 29	104 46	101 25	97 56	96 45	102 55	102 46	100 48	105 50	102 53									
BOSSENDAL FLASHY	2021	DELATRO ECHO MES SOPHIA	4.55	98 5	102 5	108 17	107 32	99 5	102 45	94 31	105 44	100 32	95 34	106 36	103 41									
BOSSENDAL RAVEN	2021	DELATRO ECHO MES SOPHIA	4.55	98 5	102 5	108 17	107 32	99 5	102 45	94 31	105 44	100 32	95 34	106 36	103 41									
CAVIN REGAL SASHA 2	2021	ELEVATION MELMA RAGNAR CAVIN REGAL GAIA	4.93	101 5	105 5	93 21	101 38	114 15	96 49	122 37	100 48	107 38	117 40	107 42	108 45									

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	
CDH KAROO		MIDDELPOS BBD ALPHA	11.54	118	107	122	122	109	113	82	93	109	103	127	110	172 25	48 40	3 3		35 7
	2015	MIDDELPOS BBD MILLY		17	30	65	80	61	89	80	88	81	82	84	86					
AFRIKA TOMMELOM		MIDDELPOS BBD ALPHA	5.38	128	111	128	92	108	72	104	114	122	110	107	108	80 22	32 26	4 4		19 3
	2015	AFRIKA BLITZY		43	54	61	75	55	85	74	85	75	77	79	82					
MES RUBENSTEIN		GROENBERG BBD RAMBO	4.08	111	59	133	122	134	109	99	101	114	104	128	116	314 52	101 83	21 20		83 11
	2016	MES LIZE		58	67	73	86	71	92	86	92	87	88	89	90					
WOEKER BBD JAPIE		MIDDELPOS BBD JOCK 1	13.41	114	104	92	123	117	92	103	107	107	108	111	111	147 26	40 29	1 1		19 6
	2016	MIDDELPOS BBD FIELA 3		5	5	55	76	54	86	75	86	77	78	80	83					
ELEVATION MELMA RAGNAR		GROENBERG BBD RAMBO	17.31	125	97	89	126	135	90	137	118	127	134	125	129	33 10	12 12			2 2
	2018	ELEVATION ZIETA		16	33	43	61	43	73	61	72	62	63	65	69					
DELATRO ECHO		RAINAISANCE BIEBER	5.00	96	97	92	111	99	118	100	97	97	99	110	104	10 2	1 1			1 1
	2018	RAINAISANCE JENNIFER LOPEZ		5	5	5	48	17	67	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	
DORSLAND EMMA		SPITSVUUR BBD KOMOTI 6	6.80	75	75	95	87	114	110	126	120	119	117	101	116	15	3	3			5
	2015	CABARET TESSA 2		5	15	39	61	37	75	60	74	62	64	66	70			3			1
CDH MIA		GROENBERG BBD RAMBO	4.21	108	106	89	103	122	80	116	117	121	127	115	119	29	5	9			8
	2016	TOKARA ALSA		28	36	66	71	52	81	70	81	71	73	74	78			8			1
MES SOPHIA		MES MAC GYVER	5.33	100	107	124	102	99	86	89	113	104	90	102	102	18	3	6			4
	2016	AFRIKA BIA		5	19	50	51	28	64	51	63	52	54	56	60			6			1
CAVIN REGAL GAIA		MAKARIOS BBD EINSTEIN	6.84	77	112	97	75	94	103	107	82	86	100	90	87	4	2	1			
	2018	SA EXTREME NIKITA		5	5	38	55	31	69	54	68	56	58	60	64			1			
MES MISHA II		MES ARNOLD 1	11.46	109	101	120	106	99	113	90	105	111	106	117	110	48	6	17	3	3	12
	2018	MES MAXI		25	42	65	72	53	83	72	82	73	75	76	80			8			1
KADIMA FANTASIA		BREKER FANUS	4.36	91	103	114	86	86	101	88	96	98	92	99	93	22	1	7			1
	2019	LINJO SPARKLE		5	5	40	58	33	73	58	72	59	61	64	68			5			1

