

Boerboel Genetic Evaluation

SA Stud Book
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25 DUIKER STR
KROONVALE
GRAAFF-REINET
6280



Kennel Number: 725475



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.

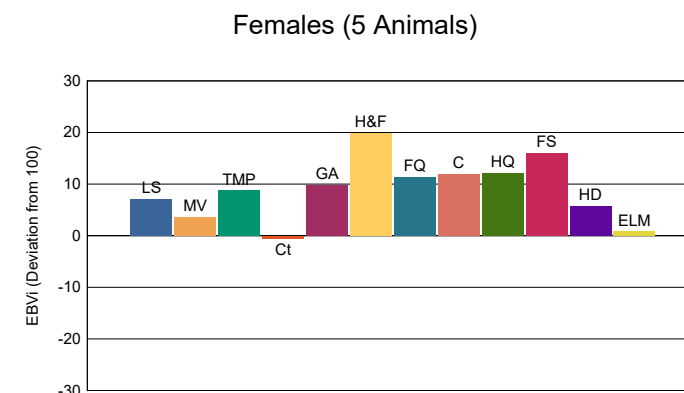
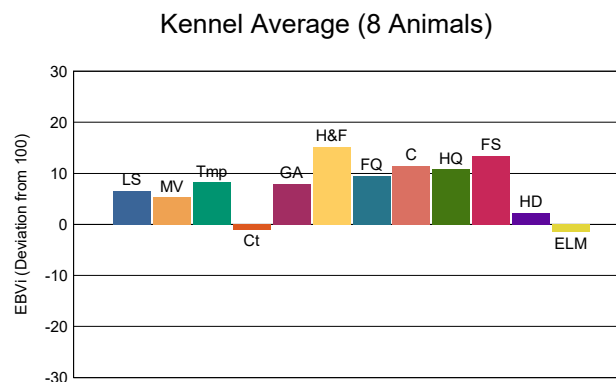
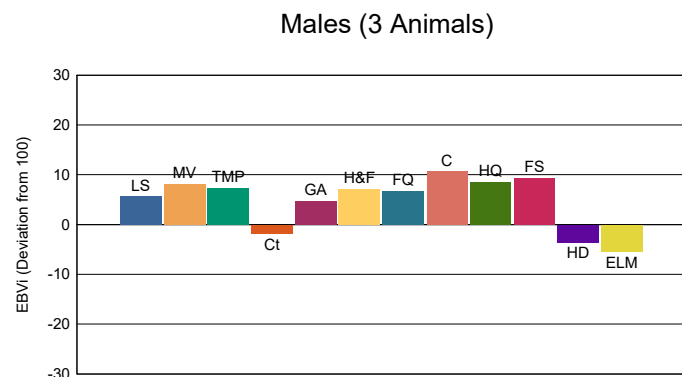
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	107	106	107
Movement (Mv)	105	108	104
Temperament (Tmp)	108	107	109
Coat (Ct)	99	98	99
General Appearance	108	105	110
Head & Face (H&F)	115	107	120
Front Quarter (FQ)	110	107	111
Centre (C)	111	111	112
Hind Quarter (HQ)	111	109	112
Final Score (FS)	113	109	116
Hip Health (HH)	102	96	106
Elbow Health (ELM)	98	95	101

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 as possible. 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.

Rate of Inbreeding

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%

Inbreeding Levels

	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	8	49007	3	25141	5	23857	8	3371	8	6287
Average Inbreeding	12.28	8.49	14.22	8.46	11.11	8.53	11.75	8.01	11.57	8.00
Number inbred	8	48727	3	24990	5	23728	8	24990	8	23728
Number >6.25% Inbr.	8	30600	3	15537	5	15058	7	15537	6	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	
MES STAN		MES THYSON I	17.79	85	100	101	110	96	93	81	106	101	106	101	103						
	2024	MES KAINGO ZION		5	5	5	29	5	45	29	44	30	33	35	40						
FAMILIENSCHUTZ BOETIE		BOELA DOLLAR	10.36	107	101	109	107	116	102	116	113	111	108	114	115						
	2025	KLEIN SANDFONTEIN CARDI		5	5	5	23	5	37	23	36	24	26	28	33						
MARCELE OOM		KLEIN SANDFONTEIN BIG VERC	14.53	98	83	107	108	110	99	117	102	108	118	111	111						
	2025	KLEIN SANDFONTEIN RIHANNA		5	5	5	29	5	44	27	43	29	32	34	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	Progeny with litters
MES ALLY	2024	MES KAINGO CHOMPIE	14.85	103 5	95 5	115 5	118 34	109 5	105 48	86 31	104 47	109 35	104 37	117 39	110 43				
WIESENHOF HANNAH	2025	FONT BOERBOELS SILVER ARROW	9.59	95 5	107 5	99 5	116 28	108 5	88 45	111 27	119 44	109 29	112 32	110 35	115 40				
MASTERMINDS SANDY III	2025	LOTTER LEGEND	15.08	116 5	100 5	98 5	105 18	111 5	105 39	114 17	131 38	122 19	124 23	120 26	127 33				
KLEIN SANDFONTEIN HANNAH	2025	KLEIN SANDFONTEIN MOSSAD	9.52	113 5	109 5	128 6	88 31	108 5	101 44	117 30	130 43	114 31	108 33	109 36	118 40				
GUNSMOKE SANDY II	2025	ICARNICKY THE GIFT DIK FRIK	6.53	101 5	93 5	96 5	90 23	108 5	99 39		115 38	104 24	111 26	104 29	110 34				

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		
MES KAINGO CHOMPIE		MES HECTOR II	22.74	106	95	99	103	101	110	84	114	104	99	110	109	12	1	1			
	2020	MES MACKLE		5	5	14	51	15	68	49	67	52	55	57	63						1
KLEIN SANDFONTEIN BIG VERC		KLEIN SANDFONTEIN THE STING	10.40	102	88	92	106	109	99	119	94	104	115	109	106	34	5	10		3	
	2021	KLEIN SANDFONTEIN SADIE		5	5	18	55	24	72	53	71	56	58	61	67						8
MES THYSON I		MES JOHN SNOW	13.68	81	102	84	108	95	92	88	108	100	110	99	103	31	3	2			
	2021	MES ASKARI		5	5	10	50	20	67	50	66	51	54	56	62						2
FONT BOERBOELS SILVER ARROW		FONT BOERBOELS SILVER BULLET	5.31	100	105	95	119	113	95	124	129	109	114	112	121	34	6	12		4	
	2022	FONT BOERBOELS LANA		5	5	24	59	31	76	57	75	60	62	65	70						9
ICARNICKY THE GIFT DIK FRIK		KUSELA NARLY	12.10	105	97	98	73	105	89	113	111	100	97	93	100	14	2				
	2023	MAMPIES ARORA		5	5	5	40	5	60	39	59	41	44	47	53						
KLEIN SANDFONTEIN MOSSAD		KLEIN SANDFONTEIN MAJOR TOM	8.53	103	108	122	71	104	100	128	140	119	113	98	119	63	7				
	2023	KLEIN SANDFONTEIN NITEY NITE		5	5	22	46	12	64	45	63	47	49	52	58						
BOELA DOLLAR		MES CHAMP	8.86	106	106	103	116	118	100	114	117	105	112	121	119	8	2				
	2023	WOEKER BBD DINA		5	5	20	49	21	67	48	65	50	52	55	60						
LOTTER LEGEND		JAMBAL CHAKA	12.37	117	96	92	87	106	129	125	146	123	131	122	136	6	1				
	2023	LOTTER GRACE		5	5	5	43	5	62	42	61	44	46	49	55						

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-rament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips	Elbows	
KLEIN SANDFONTEIN RIHANNA	2020	KLEIN SANDFONTEIN THE MACK ATTACK	11.39	93	77	123	109	111	100	115	111	113	121	112	115	23	3	1			
		KLEIN SANDFONTEIN LIEFA		5	5	40	48	21	63	47	62	49	51	53	58			1			
MES KAINGO ZION	2020	MES FELIX BOETA	13.91	89	98	118	112	98	95	75	104	102	102	103	102	13	2	2			1
		MES KIELLA		5	5	40	54	27	69	53	68	55	57	59	64			2			1
WIESENHOF LUNA	2021	WIESENHOF MENEER	8.39	90	110	102	114	103	81	98	109	108	111	109	108	4	1				
		ROMSHA JUDITH		5	5	5	37	5	59	36	57	38	41	45	51						
MES GYPSY GIRL	2021	MES FELIX BOETA	20.53	100	95	131	132	116	99	89	95	114	109	125	111	12	1	1			
		TAKATSO MARAAI		5	5	24	56	27	71	54	70	57	59	61	66			1			
KLEIN SANDFONTEIN CARDI	2022	KLEIN SANDFONTEIN MAJOR TOM	12.92	108	95	114	98	113	104	119	109	116	105	107	110	6	1				
		KLEIN SANDFONTEIN PICTURE PERFECT		5	5	28	34	5	46	34	46	35	37	39	43						
MES TOPAZ	2023	MES MAC GYVER	5.98	124	111	134	105	111	101	106	121	109	104	120	117	13	1				
		MES DESTINY		5	19	41	57	36	70	56	69	58	59	61	66						
MASTERMINDS DAKOTA	2023	JAMBAL KABAMBA	13.75	115	104	104	123	117	81	103	117	120	116	118	118	6	1				
		MASTERMINDS FIELA		5	5	5	41	5	61	41	60	42	45	48	54						
GUNSMOKE SHINING STAR	2024	KLEIN SANDFONTEIN BIG VERC	5.69	98	89	94	108	112	109	130	119	108	125	114	121	9	1				
		GATEKEEPER NOVA		5	5	5	47	14	64	46	63	48	50	53	58						

