

Boerboel Genetic Evaluation

SA Stud Book
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50A EDMONDS STREET
LOVEMORE HEIGHTS
PORT ELIZABETH
6070



Kennel Number: 718493



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.

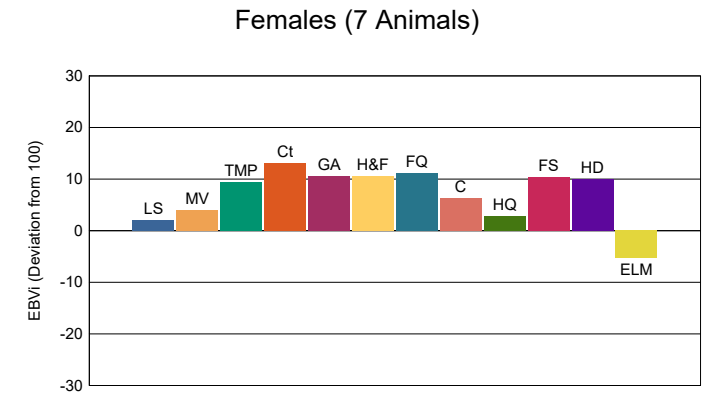
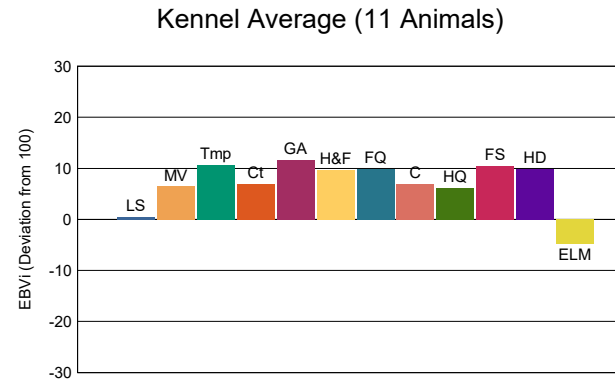
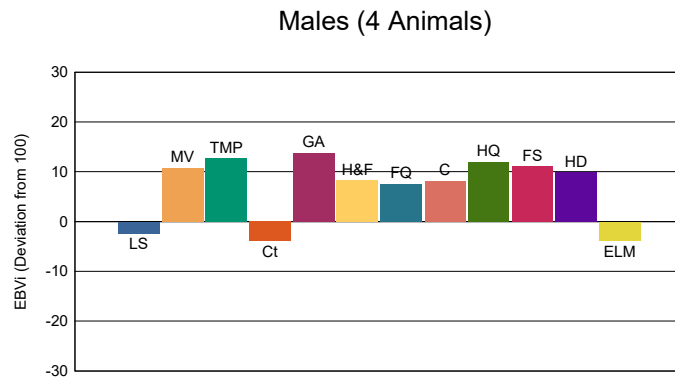
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	100	98	102
Movement (Mv)	106	111	104
Temperament (Tmp)	111	113	109
Coat (Ct)	107	96	113
General Appearance	112	114	110
Head & Face (H&F)	110	108	111
Front Quarter (FQ)	110	108	111
Centre (C)	107	108	106
Hind Quarter (HQ)	106	112	103
Final Score (FS)	111	111	110
Hip Health (HH)	110	110	110
Elbow Health (ELM)	95	96	95

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.

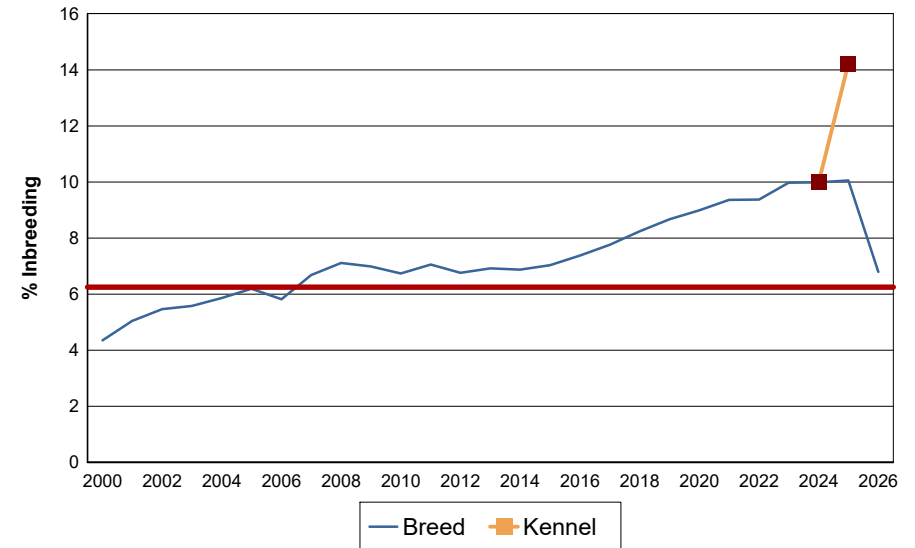
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients 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	11	49007	4	25141	7	23857	10	3371	9	6287
Average Inbreeding	10.08	8.49	10.20	8.46	10.01	8.53	10.18	8.01	12.07	8.00
Number inbred	11	48727	4	24990	7	23728	10	24990	9	23728
Number >6.25% Inbr.	10	30600	4	15537	6	15058	9	15537	7	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	
KLEIN SANDFONTEIN GRIFFEL		MES RETIEF	12.68	112	91	108	110	107	108	102	117	109	112	128	120	4	1				
	2022	KLEIN SANDFONTEIN NEVAEH		5	5	28	48	22	65	48	64	49	52	54	59						
HORIZON GENERAL		RAINAISANCE STETSON	7.31	104	102	94	118	129	61	137	107	113	113	118	113	5	1				
	2023	MASTERMINDS ROYAL		5	5	5	43	5	61	42	60	44	46	49	55						
RYGA PEP		DELATRO JANO	6.60	104	103	93	103	103	108	110	105	103	102	99	104						
	2024	RYGA QUINN		5	5	5	26	5	42	26	41	27	30	32	37						
SHALAMBA NKOSI JOHNSON		MARVILLOSO HUNCHO	14.22	120	89	96	113	112	108	106	104	104	105	102	107						
	2025	EVEREST ALICE IN WONDERLAND		5	5	5	33	5	45	33	44	34	36	38	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.	Movement	Temperament	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
EVEREST ALICE IN WONDERLAND	2022	ELEVATION REDI	15.55	113	89	95	113	110	122	94	101	111	100	99	105	8	2							
		EVEREST KHANYISA		5	5	14	47	18	63	46	62	48	50	52	58									
CAMP NOVA LA-BRUJA	2022	PAMPOENKRAAL APOCALYPSE	8.97	112	96	101	87	104	119	115	123	109	100	98	111									
		ROYAL CRESCENT FREYA		5	5	5	43	5	61	42	60	44	46	49	55									
RAINAISANCE NANDI	2022	FRANK IRENE MAKEDAMA	5.00	104	101	100	92	98	119	117	120	112	119	105	116									
		RAINAISANCE CASSIDY I		5	5	5	43	5	62	42	61	44	47	50	56									
LAMA SPRINGY	2023	BASJAN NELSON	7.28	110	98	125	115	118	124	120	119	121	110	100	118									
		MASTERMINDS DIANA		5	5	5	42	5	62	42	61	43	46	49	55									
SHALAMBA CUPCAKE	2024	HORIZON GENERAL	9.99	108	95	94	115	119	91	115	104	112	106	108	109									
		EVEREST ALICE IN WONDERLAND		5	5	5	24	5	39	23	38	25	27	30	34									
TAUNG ZIMPA	2024	NTOZIMNANDI JUB JUB	9.08	102	94	104	93	106	108	107	103	109	104	107	106									
		BOSTU AZALEA		5	5	6	32	5	46	31	45	32	34	37	41									
SHALAMBA CHELSEA	2025	MARVILLOSO HUNCHO	14.22	120	89	96	113	112	108	106	104	104	105	102	107									
		EVEREST ALICE IN WONDERLAND		5	5	5	33	5	45	33	44	34	36	38	41									

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
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	with litters	
ELEVATION REDI		GROENBERG BBD RAMBO	5.27	121	78	87	115	122	121	115	113	123	115	105	118	55 10	21 20			10 6	
	2015	ELEVATION MADUSA		33	40	56	71	53	82	71	82	72	74	75	79						
MARVILLOSO HUNCHO		ELEVATION PEPSI	12.08	127	90	96	113	114	94	119	107	98	111	106	109	10 4	4 3			1 1	
	2017	MIDDELPOS BBD STELLA		5	26	39	61	40	72	60	71	61	63	65	68						
FRANK IRENE MAKEDAMA		KLOPDISSELBOOM KAPTEIN	10.93	101	88	103	87	88	100	103	110	93	101	95	100	9 2	2 2				
	2019	KLOPDISSELBOOM BEKKIES		5	5	5	50	12	69	49	68	51	54	57	63						
MES RETIEF		GROENBERG BBD RAMBO	17.77	127	104	109	101	107	112	105	101	107	103	126	111	27 3	8 7	1		5 1	
	2019	MES MAXI		18	32	54	66	50	77	66	76	67	68	70	73						
RAINAISANCE STETSON		DUMAS MATRIX	6.77	103	105	91	107	125	78	144	118	124	128	120	123	11 2	5 4			2 1	
	2020	TAILORED ECHO		5	5	17	55	27	71	54	70	56	58	61	66						
NTOZIMNANDI JUB JUB		MARVILLOSO NKUNZI	7.07	95	92	93	90	110	105	113	105	109	104	106	106	47 10	10 8			3 1	
	2020	ROKAFELA MABHEBEZA		5	5	22	51	21	69	50	68	52	55	57	63						
DELATRO JANO		DELATRO X'WINSLO	17.68	111	112	85	115	104	117	117	111	106	106	101	110	34 5	9 7	1	1		
	2020	DELATRO FEMKE		5	5	5	48	5	64	47	63	49	51	54	59						
PAMPOENKRAAL APOCALYPSE		MIDDELPOS BBD BRUCE ALMIGHTY	9.95	118	96	108	91	117	116	125	133	120	112	114	125	63 6	16 13			3 3	
	2020	KLEIN SANDFONTEIN LISA MARI		5	9	23	61	33	76	61	76	62	64	67	72						
BASJAN NELSON		AFRIKA DOPPIES	7.00	119	96	131	104	112	117	120	125	125	111	90	115	21 3	5 5			2 1	
	2021	AFRIKA OUNOOI		5	5	29	53	26	69	52	68	54	56	59	64						
HORIZON GENERAL		RAINAISANCE STETSON	7.31	104	102	94	118	129	61	137	107	113	113	118	113	5 1					
	2023	MASTERMINDS ROYAL		5	5	5	43	5	61	42	60	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 NEVAEH	2019	KLEIN SANDFONTEIN THE MACK ATTACK	10.48	98	77	107	111	109	106	115	115	108	109	112	115	17	3	4			3
		SANBEL GRACE-KELLY		5	5	43	53	23	71	53	70	54	57	60	65			4			1
RAINAISANCE CASSIDY I	2020	KLEIN SANDFONTEIN MAZZERATI	4.76	108	113	98	98	102	114	112	106	112	117	107	111	4	1	2			
		BREKER PAMELA ANDERSON		5	5	26	49	18	68	49	67	50	53	56	62			2			
MASTERMINDS ROYAL	2020	LOTTER SUPERMAN	19.73	105	100	96	129	122	114	113	108	107	97	116	114	18	5	7			7
		MASTERMINDS BELLA		5	5	5	48	5	68	46	67	49	52	56	62			6			1
ROYAL CRESCENT FREYA	2020	FRANK IRENE AANG	12.50	107	97	95	96	104	97	106	121	111	106	97	109	12	1	4			1
		FRANK IRENE CHLOE		5	5	5	42	5	61	41	60	43	46	49	55			4			1
MASTERMINDS DIANA	2021	MASTERMINDS KING KAIRO	15.81	102	100	120	121	117	122	114	116	115	111	111	119	24	2	3			
		MASTERMINDS CUPCAKE		5	5	5	44	5	64	43	63	46	49	52	58			3			
EVEREST KHANYISA	2021	NSIZWA DINGANE	14.99	105	99	102	108	106	109	98	108	107	100	103	106	6	1	3			2
		ELEVATION CLAUDIA		5	5	11	48	15	65	47	64	49	51	54	59			3			1
BOSTU AZALEA	2021	BOSTU ZAVUKA	9.91	109	96	115	96	102	111	101	102	109	104	109	106	8	1				
		MES LULU V		5	21	38	53	29	68	53	67	54	56	58	63						
EVEREST ALICE IN WONDERLAND	2022	ELEVATION REDI	15.55	113	89	95	113	110	122	94	101	111	100	99	105	8	2				
		EVEREST KHANYISA		5	5	14	47	18	63	46	62	48	50	52	58						
RYGA QUINN	2022	RAINAISANCE CODY	4.87	97	93	101	90	102	99	102	99	100	97	98	98	10	1				
		JACOB ELSA		5	5	10	42	9	61	41	60	43	46	49	55						

