

Boerboel Genetic Evaluation

SA Stud Book
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44 MORAY WAY

O

STRANDFONTEIN

7798



Kennel Number: 612095



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.

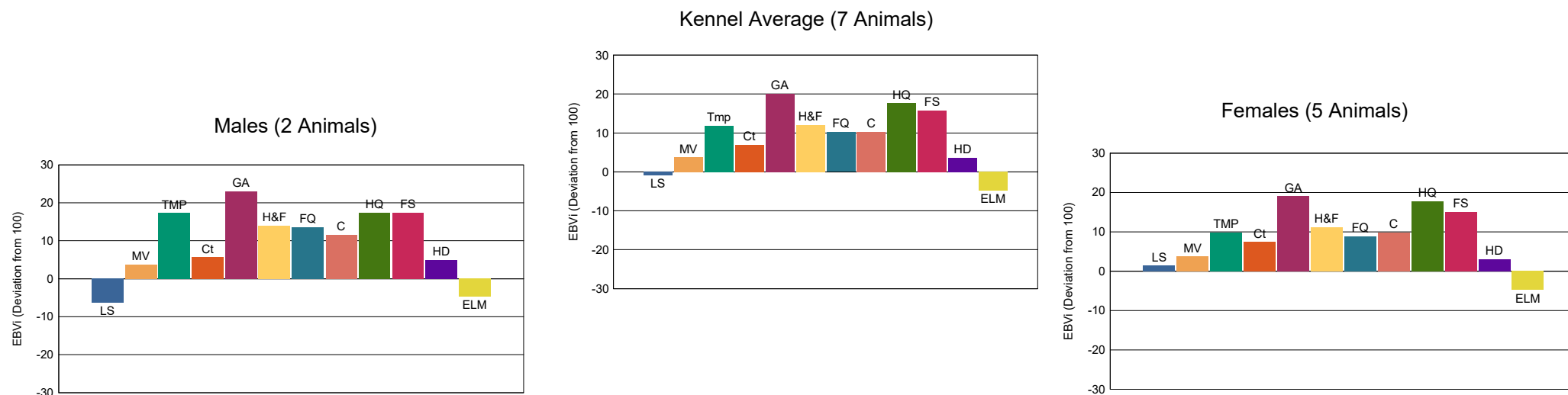
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	99	94	101
Movement (Mv)	104	104	104
Temperament (Tmp)	112	117	110
Coat (Ct)	107	106	107
General Appearance	120	123	119
Head & Face (H&F)	112	114	111
Front Quarter (FQ)	110	114	109
Centre (C)	110	112	110
Hind Quarter (HQ)	118	117	118
Final Score (FS)	116	117	115
Hip Health (HH)	104	105	103
Elbow Health (ELM)	95	95	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.

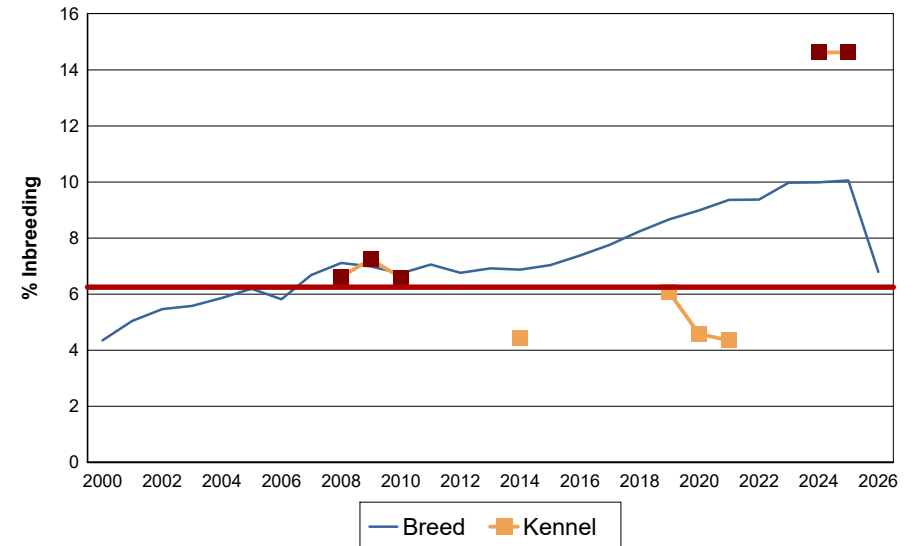
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

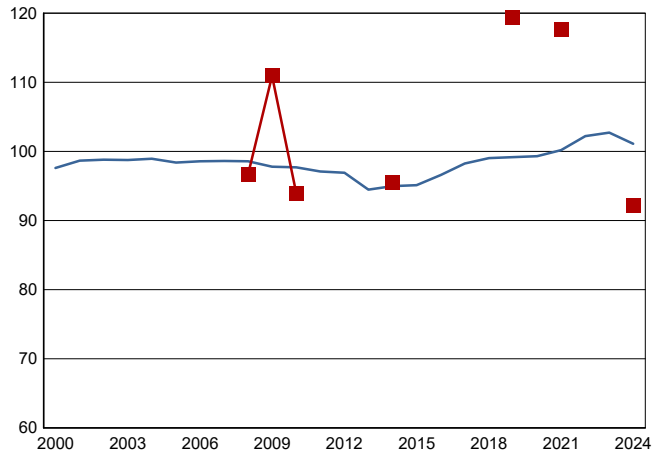


Inbreeding Levels

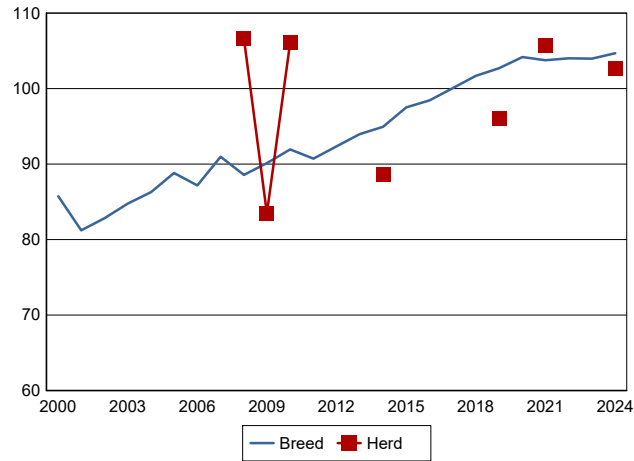
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	7	49007	2	25141	5	23857	6	3371	6	6287
Average Inbreeding	10.81	8.49	10.26	8.46	11.03	8.53	12.15	8.01	11.30	8.00
Number inbred	7	48727	2	24990	5	23728	6	24990	6	23728
Number >6.25% Inbr.	5	30600	1	15537	4	15058	4	15537	6	15058

Genetic Trends

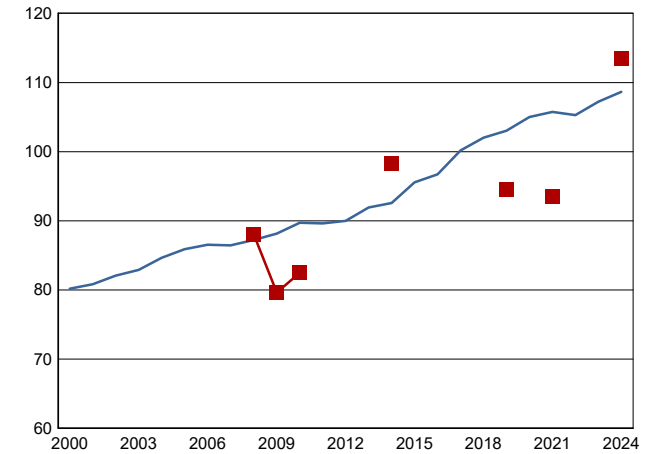
Litter Size



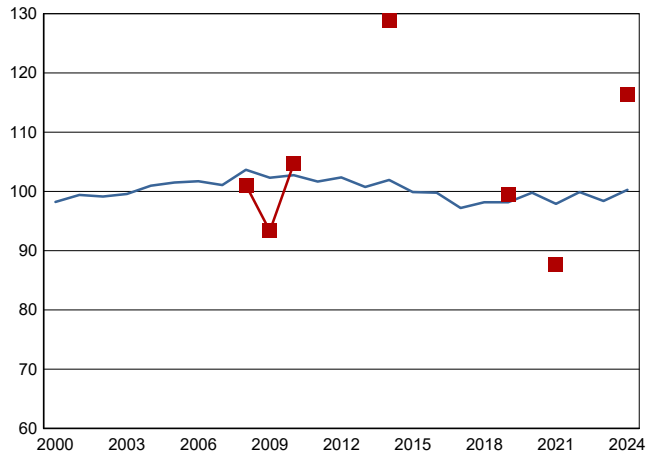
Movement



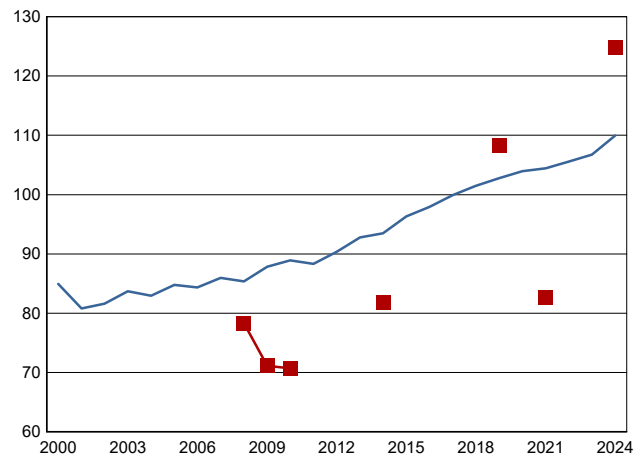
Temperament



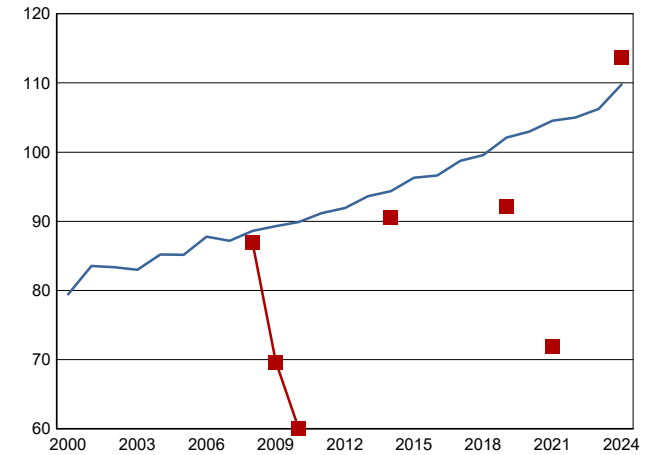
Coat



General Appearance

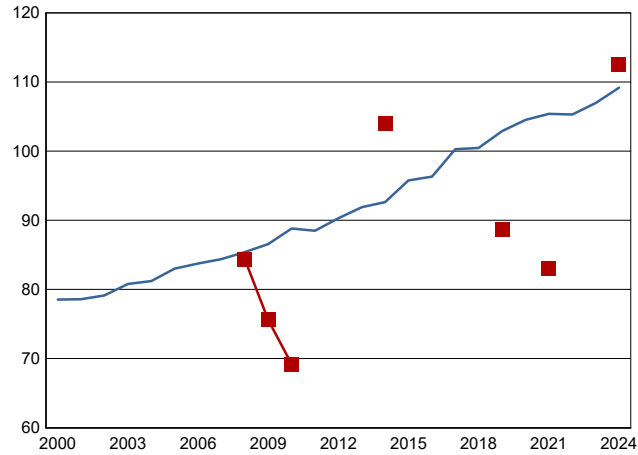


Head & Face

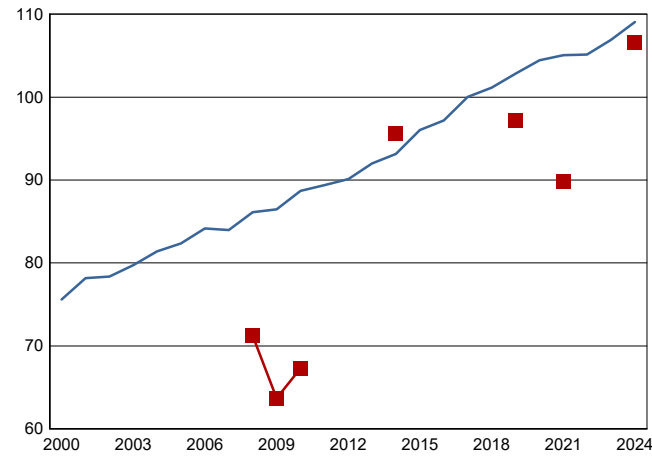


Genetic Trends

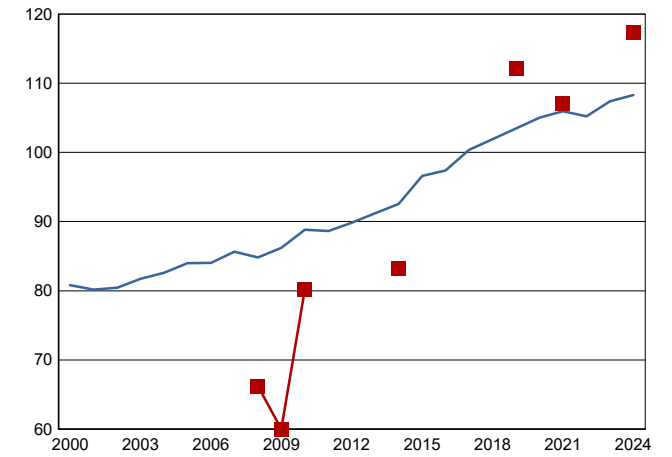
Front Quarter



Centre

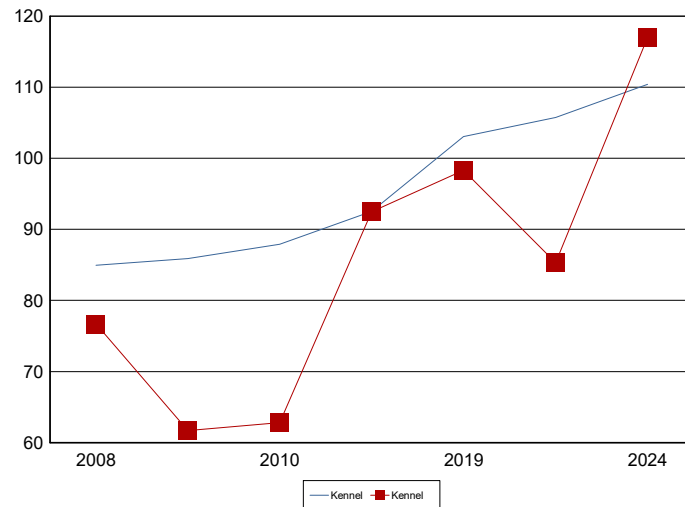


Hind Quarter

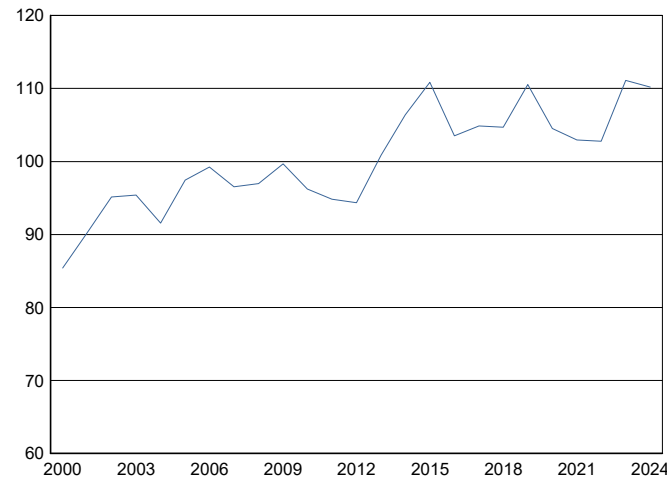


Final Score & Health Traits

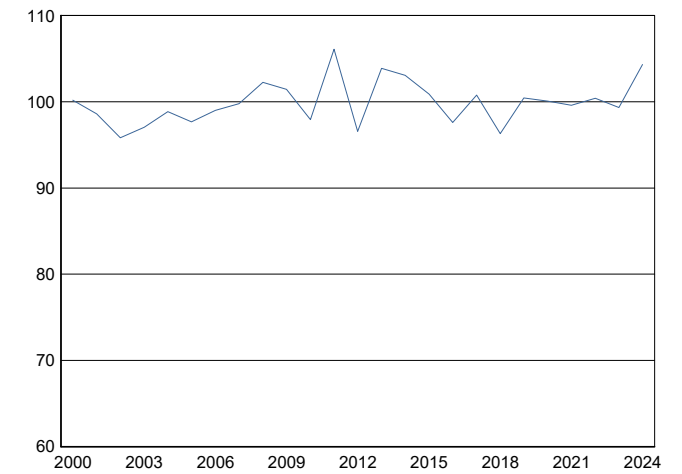
Final Score



Hip Health



Elbow Health



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	
RAINAISANCE MORIS		DUMAS MATRIX	5.89	102	95	95	105	121	95	121	114	115	117	117	118						
	2021	AFRIKA ALEXANDERIA		5	5	23	41	19	51	40	50	41	43	45	48						
BRED LUCKY TOM		KLEIN SANDFONTEIN MAJOR TOM	14.62	108	96	92	103	114	116	125	114	113	107	117	117	7	1				
	2024	KLEIN SANDFONTEIN ELLA		5	5	5	43	5	63	42	62	44	47	50	56						

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
BRED QUANTUM		MARANATA BBD RAMBO	6.06	93	102	119	96	95	100	108	92	89	97	112	98				
	2019	ELDORADO BBD KIKO		5	5	26	47	20	64	47	63	48	50	53	58				
KLEIN SANDFONTEIN ELLA		MES RETIEF	12.68	112	91	91	110	116	114	125	123	119	117	129	127	11	2	1	1
	2022	KLEIN SANDFONTEIN NEVAEH		5	5	39	50	23	67	50	66	51	53	56	61			1	1
SIMONSBERG LAYLA		FAMILIENSCHUTZ ALPHA	11.03	98	93	112	110	111	105	113	109	108	112	117	114				
	2024	GATEKEEPER LONDON		5	5	5	20	5	34	19	33	21	23	25	30				
HOUDLAND HARLEY		BRED LUCKY TOM	10.74	104	95	93	105	116	114		118	117	115	117	121				
	2025	HOUDLAND LILO		5	5	5	17	5	33		33	18	21	23	28				
BRED URSHIE		KLEIN SANDFONTEIN MAJOR TOM	14.62	108	96	92	98	111	104		115	113	109	114	115				
	2025	KLEIN SANDFONTEIN ELLA		5	5	5	32	5	47		47	33	35	38	43				

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	
MARANATA BBD RAMBO		ELEVATION ADAM	6.24	107	106	118	100	105	98	113	107	98	102	114	108	21	6	11		6
	2016	MARANATA BBD MIKA		5	11	38	59	34	73	59	73	60	62	65	69			8		2
DUMAS MATRIX		ELEVATION AROS	5.20	88	95	88	95	125	73	147	124	117	129	110	121	69	14	25		14
	2018	DUMAS NIKITA		5	5	30	70	44	83	69	82	71	73	75	79			11		3
MES RETIEF		GROENBERG BBD RAMBO	17.77	127	104	109	101	107	112	105	101	107	103	126	111	27	3	8	1	5
	2019	MES MAXI		18	32	54	66	50	77	66	76	67	68	70	73			7		1
KLEIN SANDFONTEIN MAJOR TOM		KLEIN SANDFONTEIN RASPUTIN	12.42	104	102	93	86	105	94	119	107	107	101	98	102	58	8	11		8
	2020	MES O' HARA		5	5	36	57	25	74	56	73	58	60	63	68			9		2
FAMILIENSCHUTZ ALPHA		KLEIN SANDFONTEIN TOMMY EGAN	16.65	101	82	130	101	101	106	95	94	98	100	113	102	4	1	1		
	2022	KLEIN SANDFONTEIN HARLEY		5	5	5	38	5	56	37	55	39	42	44	50			1		
BRED LUCKY TOM		KLEIN SANDFONTEIN MAJOR TOM	14.62	108	96	92	103	114	116	125	114	113	107	117	117	7	1			
	2024	KLEIN SANDFONTEIN ELLA		5	5	5	43	5	63	42	62	44	47	50	56					

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		
ELDORADO BBD KIKO	2017	MES BITE A BULLET	13.83	79	97	121	99	91	93	103	78	84	97	108	90	11	3	2			
		TOKARA KENDALL		5	7	52	58	38	71	58	71	59	61	63	67						
AFRIKA ALEXANDERIA	2019	MES RUBENSTEIN	9.07	116	94	102	114	117	117	96	105	112	104	125	115	10	2	2		4	
		AFRIKA GRACIE		14	27	49	51	33	62	51	61	52	53	55	58						
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						
KLEIN SANDFONTEIN ELLA	2022	MES RETIEF	12.68	112	91	91	110	116	114	125	123	119	117	129	127	11	2	1		1	
		KLEIN SANDFONTEIN NEVAEH		5	5	39	50	23	67	50	66	51	53	56	61						
GATEKEEPER LONDON	2022	ELEVATION OTTO	10.15	94		93	118	122	104	130	123	118	123	120	126	8	2	4		1	
		MAMPIES LAYLA		5		23	49	25	64	49	63	50	52	54	59						
HOUDLAND LILO	2023	WESTPOINT HITLER	11.57	100	95	94	107	118	112	130	122	121	123	117	125	10	2				
		GATEKEEPER LONDON		5	5	5	26	5	39	33	38	27	29	31	35						

