

Boerboel Genetic Evaluation

SA Stud Book
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VAALWATER

0530



Kennel Number: 685736



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.

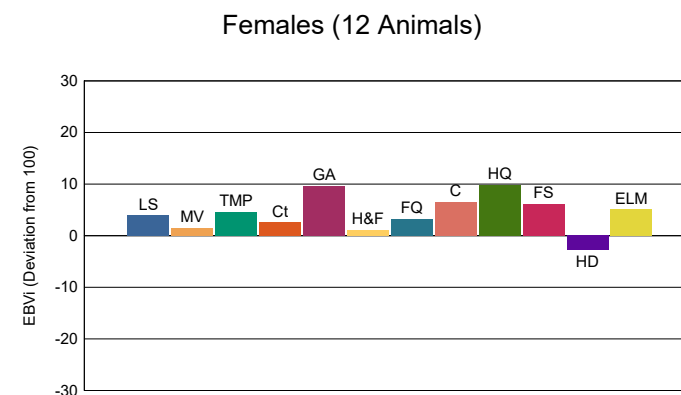
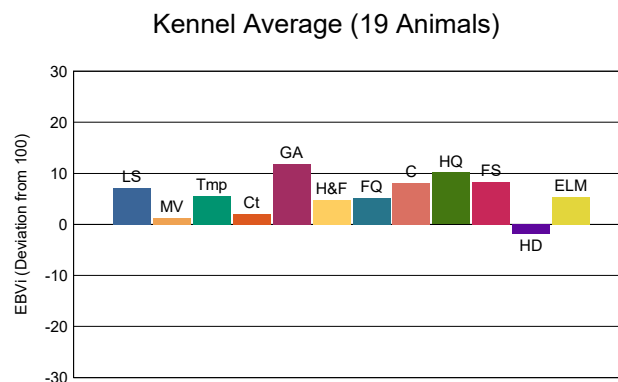
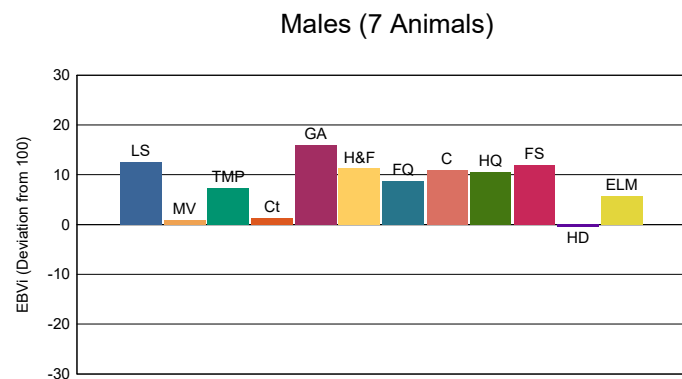
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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	113	104
Movement (Mv)	101	101	102
Temperament (Tmp)	106	107	105
Coat (Ct)	102	101	103
General Appearance	112	116	110
Head & Face (H&F)	105	111	101
Front Quarter (FQ)	105	109	103
Centre (C)	108	111	107
Hind Quarter (HQ)	110	111	110
Final Score (FS)	108	112	106
Hip Health (HH)	98	99	97
Elbow Health (ELM)	105	106	105

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.

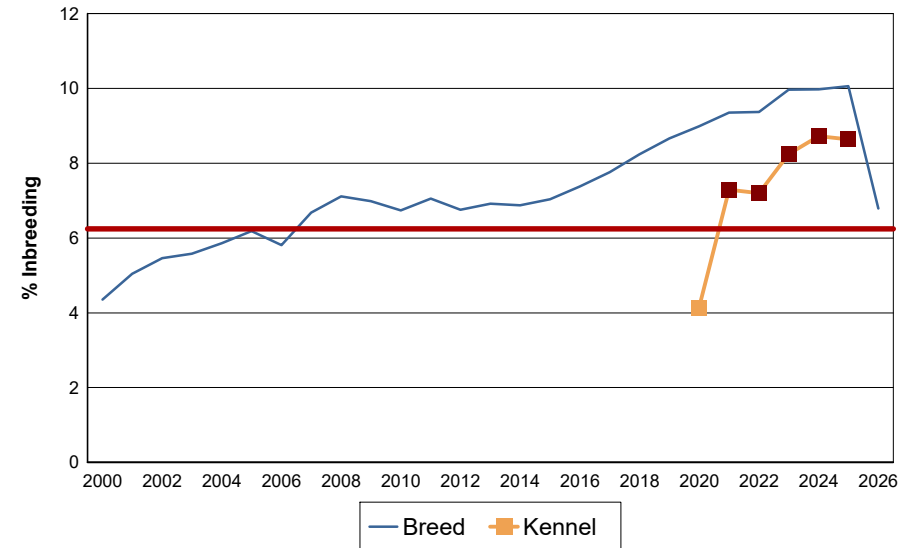
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

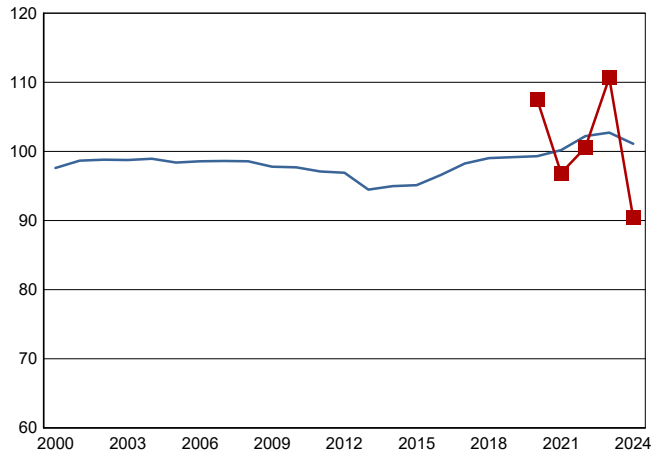


Inbreeding Levels

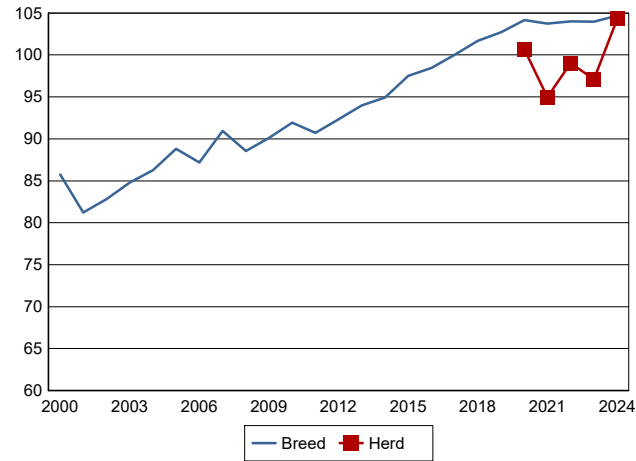
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	19	49007	7	25141	12	23857	10	3371	11	6287
Average Inbreeding	9.23	8.49	8.97	8.46	9.38	8.53	9.81	8.01	9.39	8.00
Number inbred	19	48727	7	24990	12	23728	10	24990	11	23728
Number >6.25% Inbr.	17	30600	6	15537	11	15058	7	15537	9	15058

Genetic Trends

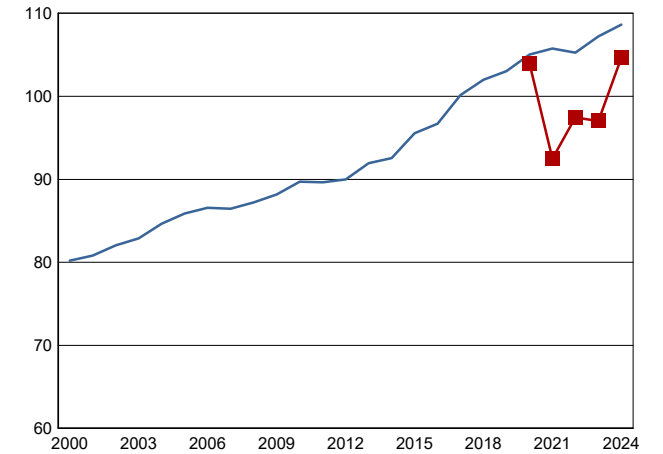
Litter Size



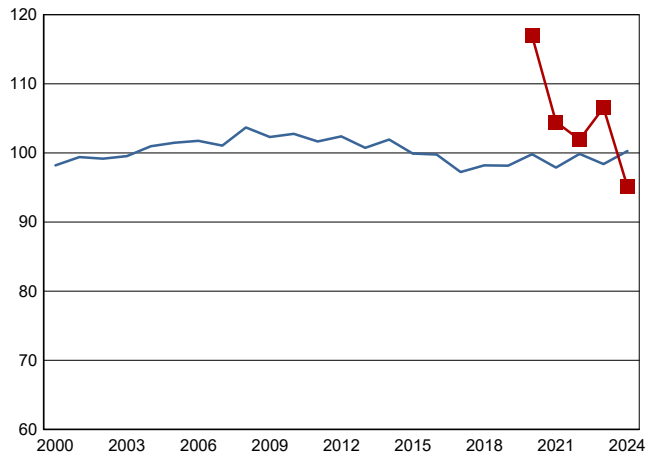
Movement



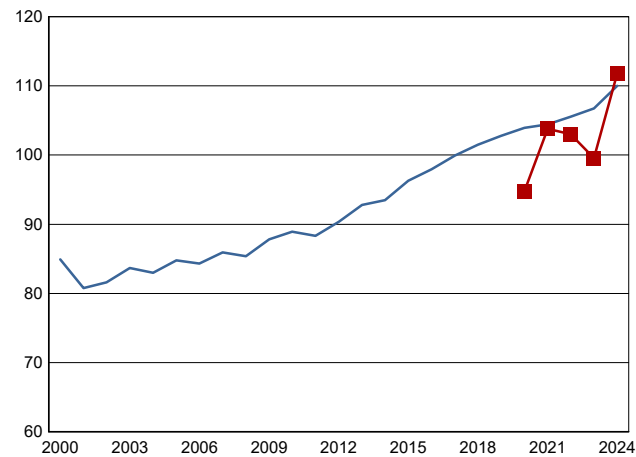
Temperament



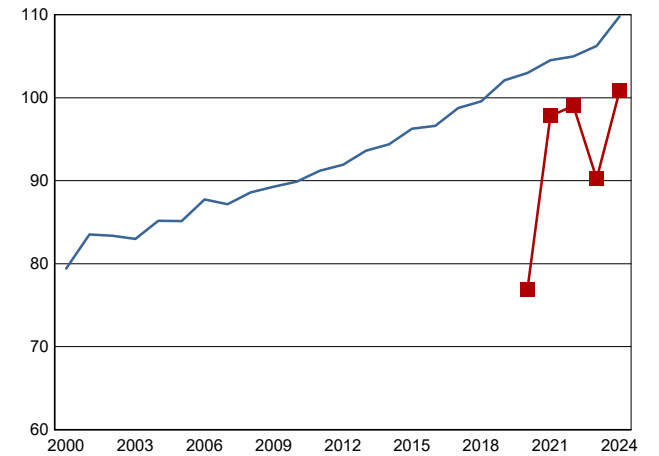
Coat



General Appearance

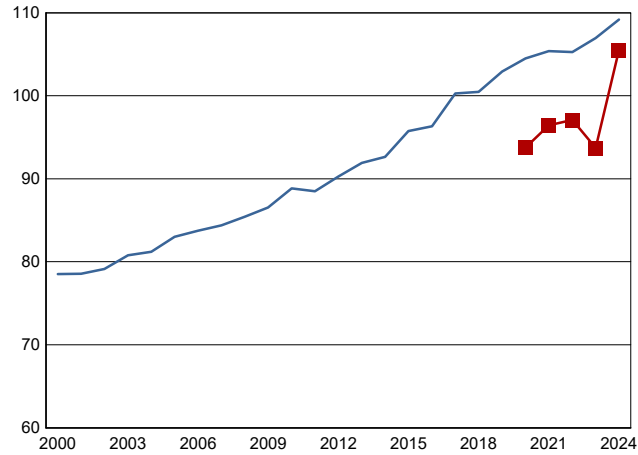


Head & Face

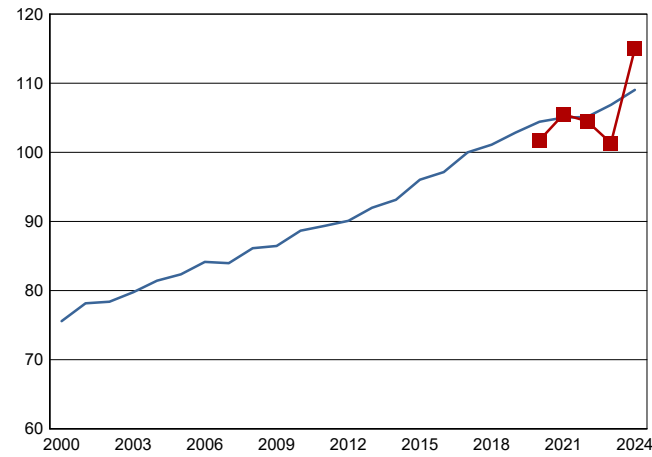


Genetic Trends

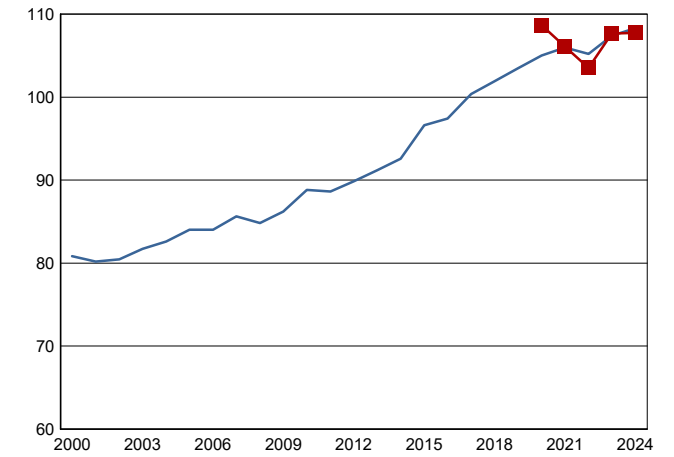
Front Quarter



Centre

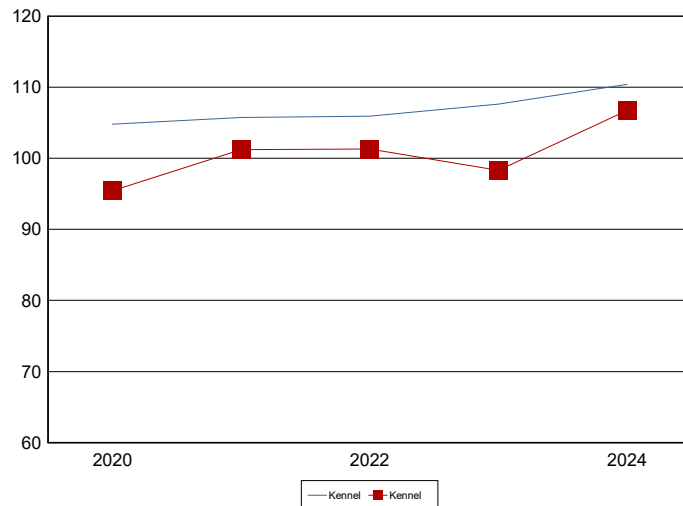


Hind Quarter

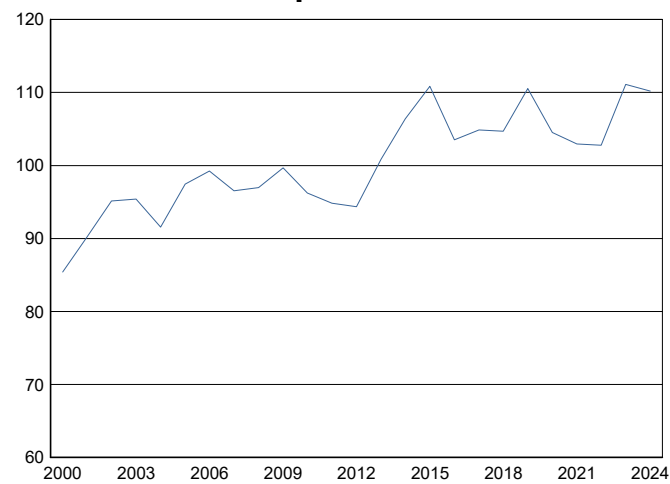


Final Score & Health Traits

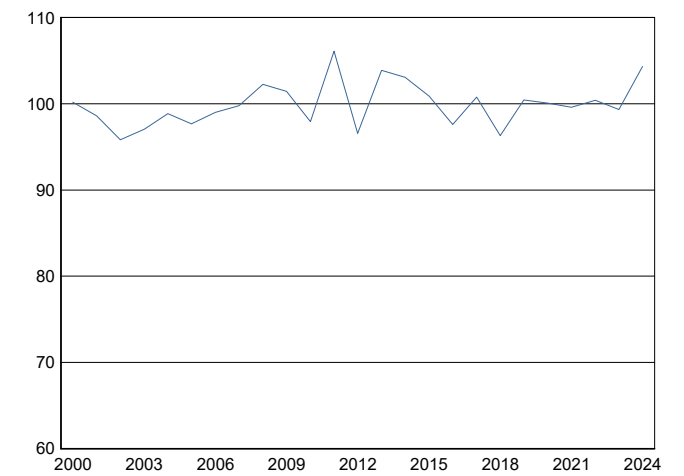
Final Score



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	
TRUE MUFASA	2022	SPITSVUUR BBD SWARTKOP MUFASA	5.12	93	103	95	90	93	109	110	118	94	110	110	111	12	3	2			
		HERBERG CHULA		5	5	10	47	19	66	47	64	48	51	54	59			1			
KLEIN SANDFONTEIN ZIMMERMAN	2023	KLEIN SANDFONTEIN GUINNESS	13.04	115	113	116	105	121	99	122	134	129	117	114	127	10	2				
		KLEIN SANDFONTEIN PICTURE PERFECT		5	5	19	45	15	63	45	62	46	49	51	57						
TRUE CANELO	2024	TRUE MUFASA	8.73	80	107	90	105	106	96	112	102	109	116	108	108						
		MAJOR LEAGUE CLAIRE		5	5	5	44	11	63	44	62	45	48	51	57						
TRUE CORTES	2025	KLEIN SANDFONTEIN FERDINAND	6.75	98	110		100	103	99	113	102	102	110	112	107						
		TRUE MORA		5	5		31	5	45	31	44	32	34	36	40						
TRUE ODIN	2025	KLEIN SANDFONTEIN FERDINAND	6.63	95	111	117	107	109	94	115	108	111	113	105	110						
		TRUE TRANCA		5	5	5	30	5	44	30	43	31	33	35	39						
TRUE RED	2025	KLEIN SANDFONTEIN BIJAN	11.26	107	98	127	100	110	106		44	108	106	36	40						
		KLEIN SANDFONTEIN AURORA		5	5	7	31	5	45			32	34								
TRUE LOBERO	2025	KLEIN SANDFONTEIN BIJAN	11.26	107	98	127	100	110	106		44	108	106	36	40						
		KLEIN SANDFONTEIN AURORA		5	5	7	31	5	45			32	34								

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	
HERBERG CHULA	2020	MAKULU LAANIE ROEPER	5.59	99	95	90	93	102	105	120	115	101	113	106	111	6		2			1
		BOSTU DESSERT VIXEN		5	5	30	55	30	70	55	70	56	58	61	65			2			1
TRUE ZARPA II	2021	TREBLA CLASSIC	7.19	102	118	103	94	93	105	88	76	83	85	104	86	12	2	2			
		AFRIKA ZARPA		5	5	23	39	13	53	48	53	40	42	44	49			1			
TRUE MORA	2021	SPITSVUUR BBD SWARTKOP MUFASA	7.33	88	108	98	92	90	109	104	93	93	106	111	101	7	3	1			
		SPITSVUUR BBD NOXTERRA SUE		5	5	28	49	20	67	49	66	50	53	55	61			1			
TRUE TRANCA	2022	TREBLA CLASSIC	10.90	81	110	103	106	103	98	107	107	111	111	97	106	4	1				
		MAJOR LEAGUE CLAIRE		5	5	20	46	14	65	46	63	47	50	53	58						
KLEIN SANDFONTEIN TALULA	2023	KLEIN SANDFONTEIN TINDER	12.60	108	95	100	109	118	108	121	105	128	121	125	120	5	1				
		KLEIN SANDFONTEIN PICTURE PERFECT		5	5	25	47	12	65	46	63	47	50	53	58						
TRUE GITANA	2023	KLEIN SANDFONTEIN FERDINAND	8.06	105	116	117	105	108	98	104	88	99	99	110	99						
		TRUE ZARPA II		5	5	5	43	9	63	44	61	44	47	50	56						
MAVEPETCARE LAMIEZ	2024	TERRIBLE TWINS BLANKEY	18.52	101	82	96	118	123	102	111	104	105	103	121	113						
		TERRIBLE TWINS SPARKES		5	5	5	39	5	61	39	59	40	43	47	53						
TRUE SOMBRA	2024	TRUE MUFASA	8.73	80	107	90	104	103	94	112	100	102	114	108	105						
		MAJOR LEAGUE CLAIRE		5	5	5	44	11	63	44	62	45	48	51	57						
TRUE FERDINANDA	2025	KLEIN SANDFONTEIN FERDINAND	6.63	95	111	117	107	109	94	115	108	111	113	105	110						
		TRUE TRANCA		5	5	5	30	5	44	30	43	31	33	35	39						
TRUE TORMENTA	2025	TRUE MUFASA	8.72	98	111	99	92	93	107		97	89	98	107	99						
		TRUE ZARPA II		5	5	5	20	5	37		36	21	24	26	31						
TRUE MAYA	2025	KLEIN SANDFONTEIN BIJAN	11.26	107	98	127	100	110	106		108	108	106	113	111						
		KLEIN SANDFONTEIN AURORA		5	5	7	31	5	45		44	32	34	36	40						

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		Sire	%	Hips	Elbows	Litter Size	Move- ment	Tempe- rament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny Litters	Progeny Kennels	Hips	Elbows		
	BYr	Dam		Acc.	Acc.	Acc.															
TRUE BONITA		KLEIN SANDFONTEIN ZIMMERMAN	7.05	102	110	107	99	106	104		114	111	111	112	114						
	2025	TRUE MORA		5	5	5	27	5	42		41	27	30	32	37						

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	
MAKULU LAANIE ROEPER		MAKULU LAANIE DIMO	5.51	107	102	78	90	91	104	99	112	97	99	97	102	91 14	26 21	1 1		17 3	
	2015	BREKER PATRYS		5	5	42	70	44	82	69	82	71	73	75	79						
SPITSVUUR BBD SWARTKOP MUFASA		VILLA ROUGE BOZNO	3.48	87	111	100	81	76	112	92	90	75	89	95	87	21 3	9 6			5 1	
	2016	SPITSVUUR BBD MADDIE		5	5	27	53	28	68	52	67	54	56	58	63						
KLEIN SANDFONTEIN TINDER		KLEIN SANDFONTEIN MATANA	16.91	105	102	95	102	104	95	116	100	123	129	117	113	36 7	6 5			4 1	
	2018	KLEIN SANDFONTEIN HOLLYHOCK		5	14	33	56	27	72	56	71	57	59	62	67						
TREBLA CLASSIC		MAWEZA DISSELBOOM	7.69	95	109	111	105	96	105	88	86	94	98	106	95	10 3	3 3			3 1	
	2019	SPITSVUUR BBD MADDIE		5	5	28	56	31	72	56	71	57	59	62	67						
KLEIN SANDFONTEIN FERDINAND		KLEIN SANDFONTEIN NUTCRACKER	10.67	108	113	131	107	115	90	122	110	112	114	113	113	24 4	2 1				
	2019	KLEIN SANDFONTEIN PEPPER		5	5	28	54	30	68	54	67	55	57	59	64						
KLEIN SANDFONTEIN GUINNESS		KLEIN SANDFONTEIN NUTCRACKER	10.91	119		108	101	110	87	114	121	111	114	114	116	25 5	4 4			3 1	
	2020	KLEIN SANDFONTEIN SUDDENLY SUMMER		5		31	55	28	71	55	70	55	58	60	65						
TERRIBLE TWINS BLANKEY		ELEVATION GHETTO-ROUGH	10.62	100	84	112	130	128	102	112	113	112	111	123	120	2 1	2 2				
	2021	BODINGTON BOERBOEL SARAH CONNOR		5	5	23	49	25	64	49	63	50	52	54	59						
TRUE MUFASA		SPITSVUUR BBD SWARTKOP MUFASA	5.12	93	103	95	90	93	109	110	118	94	110	110	111	12 3	2 1				
	2022	HERBERG CHULA		5	5	10	47	19	66	47	64	48	51	54	59						
KLEIN SANDFONTEIN ZIMMERMAN		KLEIN SANDFONTEIN GUINNESS	13.04	115	113	116	105	121	99	122	134	129	117	114	127	10 2					
	2023	KLEIN SANDFONTEIN PICTURE PERFECT		5	5	19	45	15	63	45	62	46	49	51	57						
KLEIN SANDFONTEIN BIJAN		KLEIN SANDFONTEIN HUEY	14.17	112	89	124	116	120	111	117	96	114	109	126	114	5 1					
	2023	MES PERFECT		5	23	42	56	36	69	56	68	57	59	61	65						

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	
AFRIKA ZARPA	2018	MAKHULU BBD RAFA	5.51	110	127	90	83	90	92	98	86	81	78	98	85	1	1			1
		AFRIKA ROXS 3		21	34	45	54	35	66	54	65	54	56	58	61					1
BOSTU DESSERT VIXEN	2018	MES BITE A BULLET	8.36	91	88	103	95	108	102	125	101	96	110	109	106	18	3	8		4
		ELEVATION MAYBE		5	25	56	64	43	77	64	76	65	67	69	73			8		2
SPITSVUUR BBD NOXTERRA SUE	2019	ARTIFACTS YSTER	8.00	90	105	103	110	110	97	114	110	123	121	116	117	6	1	4		3
		FONT BOERBOELS SUE ELLAN		5	5	32	56	29	72	55	71	57	59	62	67			2		1
MAJOR LEAGUE CLAIRE	2019	TARGUS RAM	12.96	68	110	86	104	105	82	112	92	107	111	97	98	12	3	5		2
		SPITSVUUR BBD QUINN		5	5	35	58	33	73	58	72	59	61	64	68			3		1
KLEIN SANDFONTEIN PICTURE PERFECT	2020	KLEIN SANDFONTEIN HUEY	14.17	112	89	125	109	121	114	119	111	125	108	117	118	25	4	8		6
		MES PERFECT		5	23	56	55	36	65	55	65	55	57	59	62			7		1
HERBERG CHULA	2020	MAKULU LAANIE ROEPER	5.59	99	95	90	93	102	105	120	115	101	113	106	111	6		2		1
		BOSTU DESSERT VIXEN		5	5	30	55	30	70	55	70	56	58	61	65			2		1
TERRIBLE TWINS SPARKES	2020	ROKAFELA MAX	14.79	101	81	80	102	114	101	114	106	106	103	111	109	3	2	2		
		TERRIBLE TWINS GHETTO-SCANDALOUS		5	5	23	46	14	62	45	61	47	49	52	57			2		
TRUE ZARPA II	2021	TREBLA CLASSIC	7.19	102	118	103	94	93	105	88	76	83	85	104	86	12	2	2		
		AFRIKA ZARPA		5	5	23	39	13	53	48	53	40	42	44	49			1		
TRUE MORA	2021	SPITSVUUR BBD SWARTKOP	7.33	88	108	98	92	90	109	104	93	93	106	111	101	7	3	1		
		MUFASA SPITSVUUR BBD NOXTERRA SUE		5	5	28	49	20	67	49	66	50	53	55	61			1		
TRUE TRANCA	2022	TREBLA CLASSIC	10.90	81	110	103	106	103	98	107	107	111	111	97	106	4	1			
		MAJOR LEAGUE CLAIRE		5	5	20	46	14	65	46	63	47	50	53	58					
KLEIN SANDFONTEIN AURORA	2023	KLEIN SANDFONTEIN MAJOR TOM	8.53	103	108	130	85	99	102	124	119	102	102	99	108	13	2			
		KLEIN SANDFONTEIN NITEY NITE		5	5	30	47	14	65	47	64	48	51	54	59					

