

Boerboel Genetic Evaluation

SA Stud Book
February 2026

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8800



Kennel Number: 696720



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.

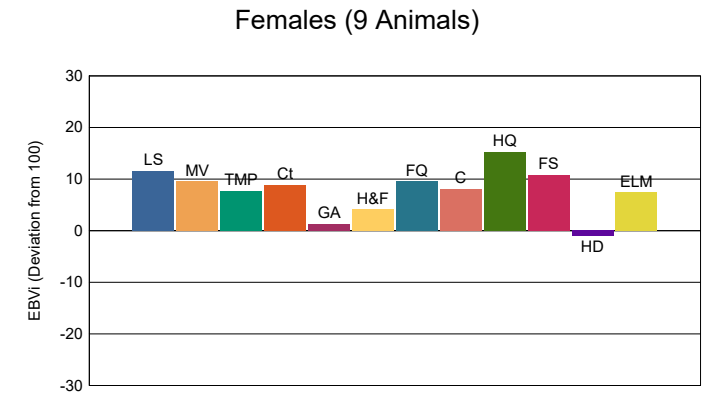
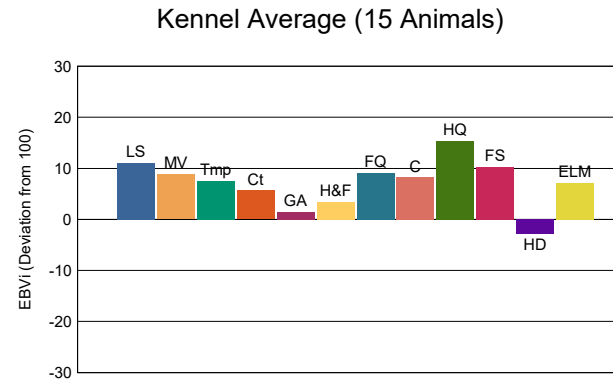
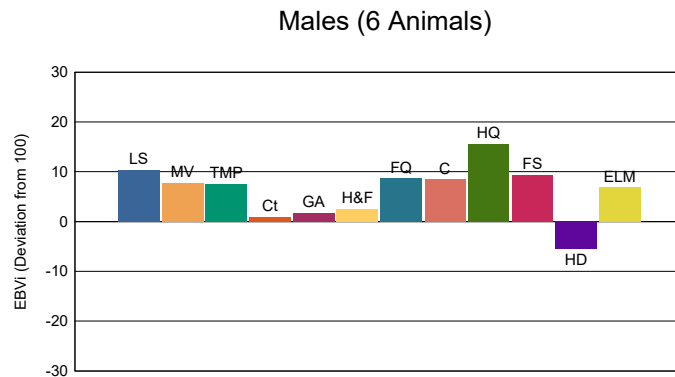
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	111	110	112
Movement (Mv)	109	108	110
Temperament (Tmp)	108	108	108
Coat (Ct)	106	101	109
General Appearance	101	102	101
Head & Face (H&F)	103	102	104
Front Quarter (FQ)	109	109	109
Centre (C)	108	108	108
Hind Quarter (HQ)	115	116	115
Final Score (FS)	110	109	111
Hip Health (HH)	97	95	99
Elbow Health (ELM)	107	107	107

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.

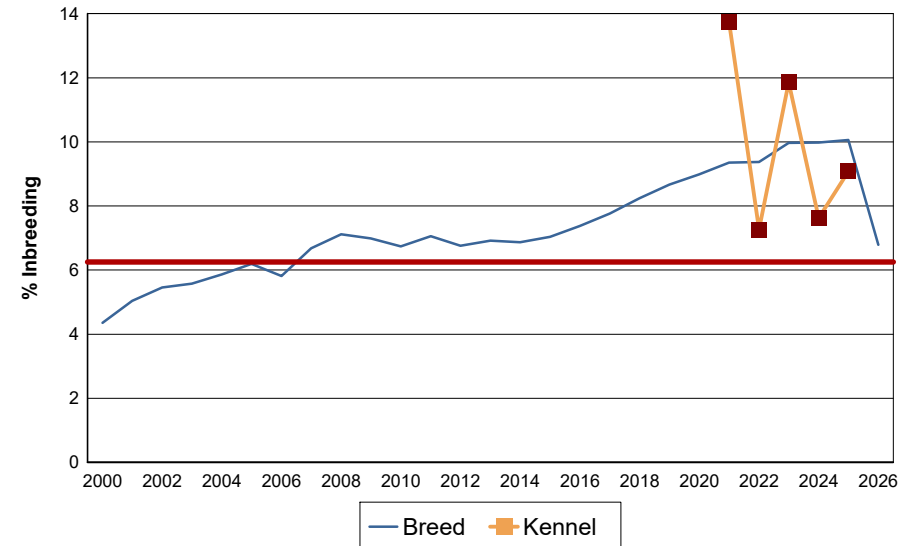
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

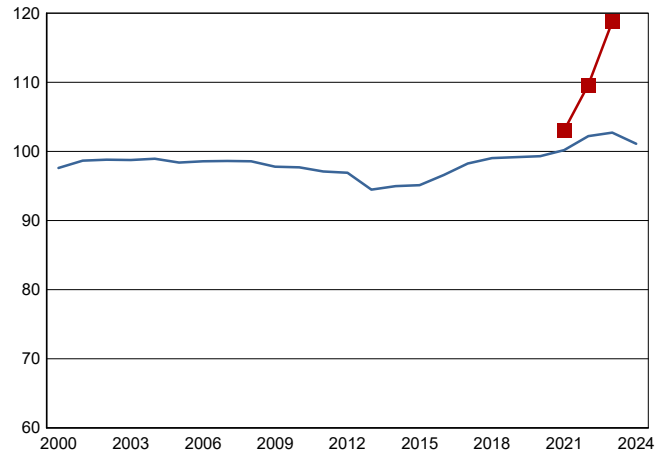


Inbreeding Levels

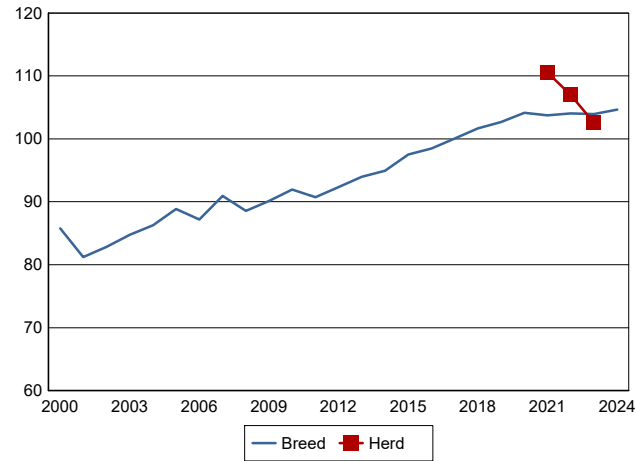
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	15	49007	6	25141	9	23857	11	3371	7	6287
Average Inbreeding	12.58	8.49	10.10	8.46	14.23	8.53	9.72	8.01	10.08	8.00
Number inbred	15	48727	6	24990	9	23728	11	24990	7	23728
Number >6.25% Inbr.	14	30600	6	15537	8	15058	10	15537	5	15058

Genetic Trends

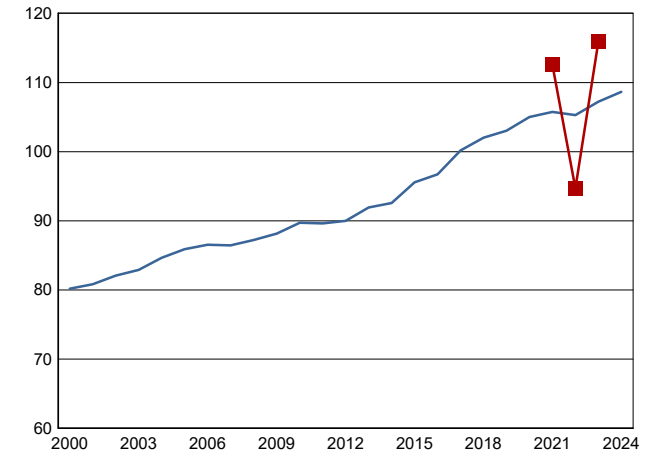
Litter Size



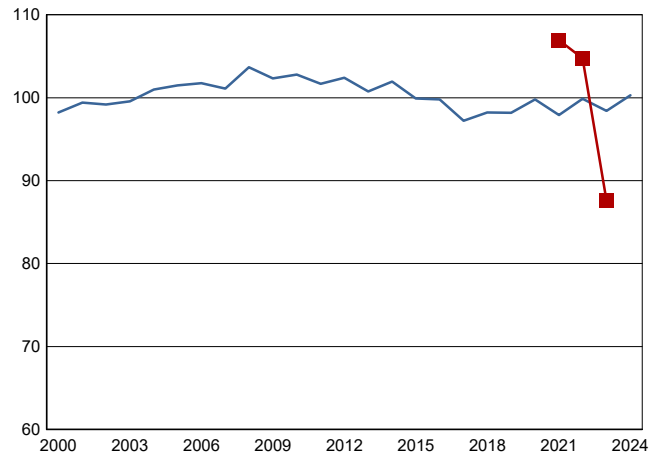
Movement



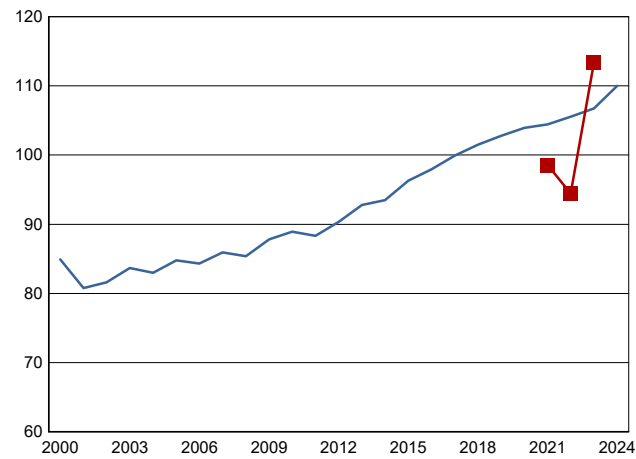
Temperament



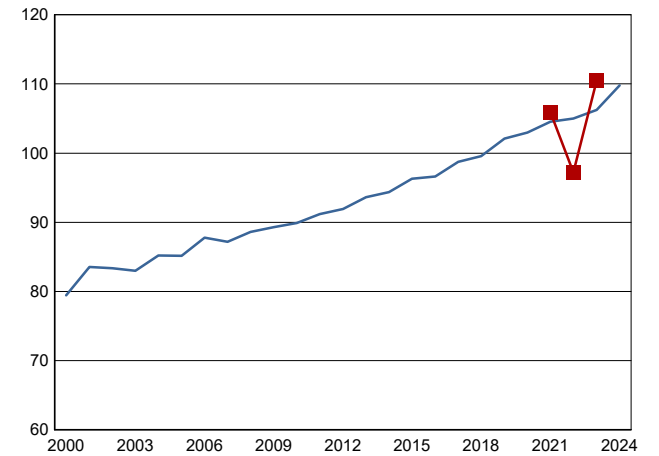
Coat



General Appearance

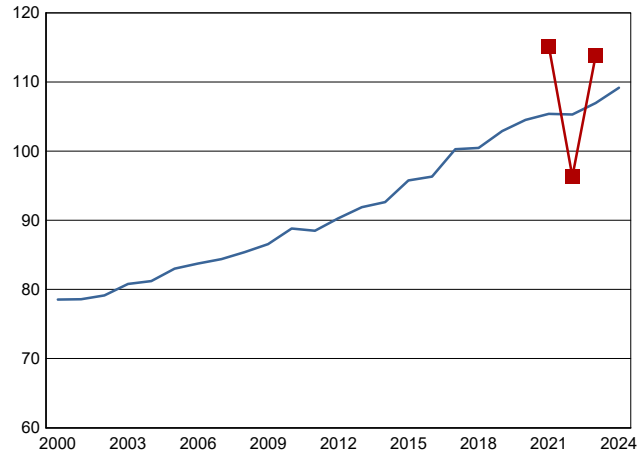


Head & Face

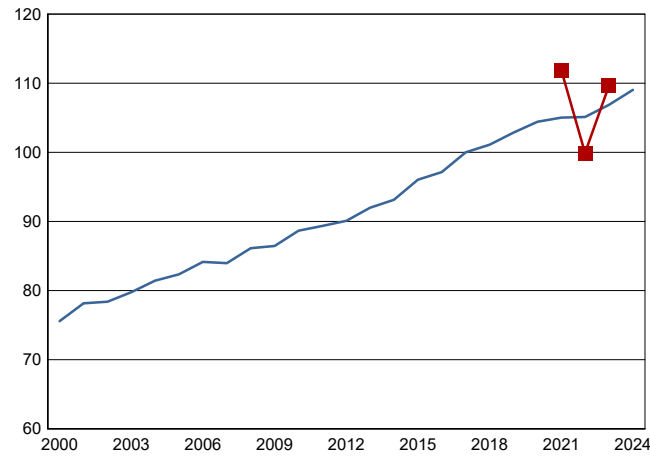


Genetic Trends

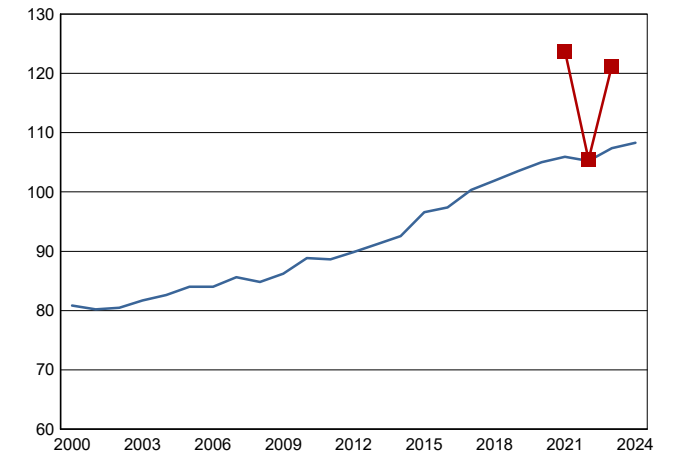
Front Quarter



Centre

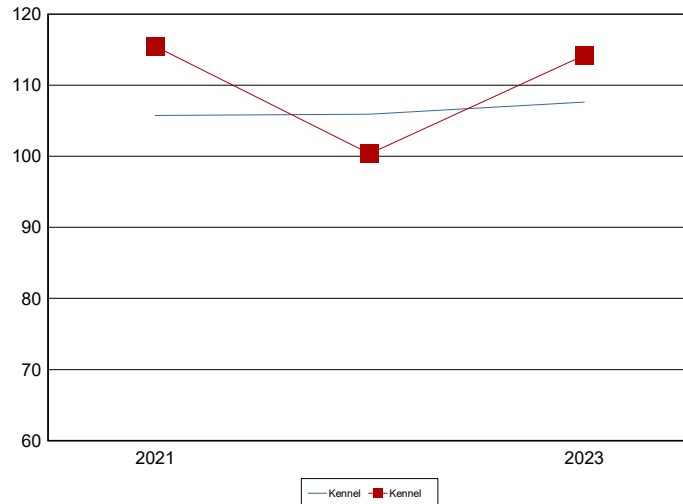


Hind Quarter

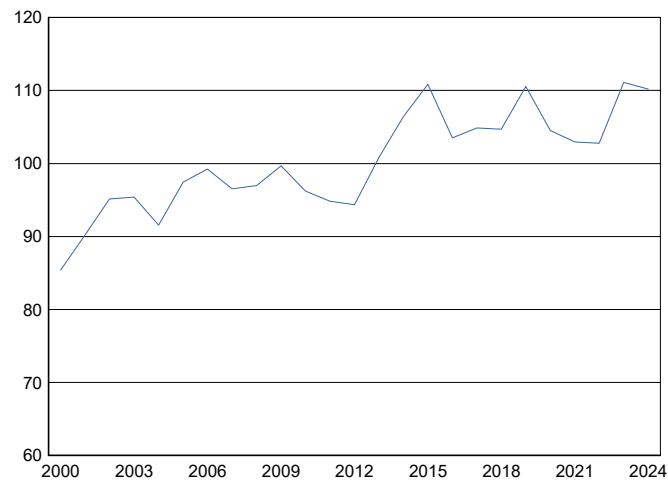


Final Score & Health Traits

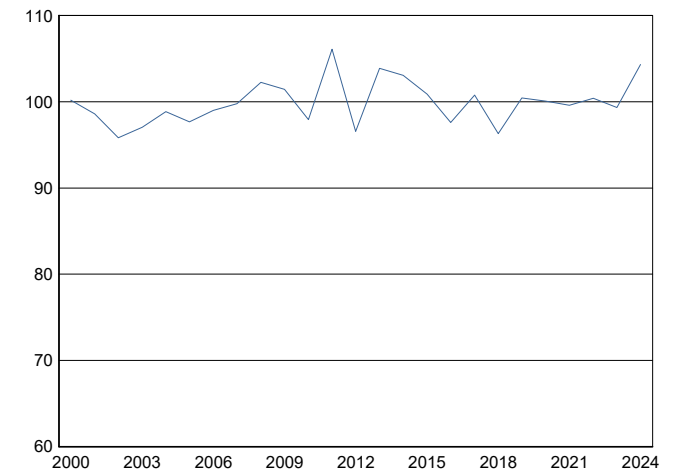
Final Score



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	
GT BOELA MUSTANG		CDH BEN I	11.38	103	113	107	107		109	97	94	111	106	121	108	6	1				
	2021	CDH SASHA III		5	5	14	44		62	44	61	45	48	50	56						
GT BOELA RAPTOR		CDH WILLIE	14.09	107	112	100	108	116	108	105	118	122	118	127	124	1	1	1			
	2021	CDH SASHA III		5	5	14	46	11	63	45	62	47	50	52	58						
GT BOELA BUGGATI		MAJALI BASJAN	8.90	75	102	111	106	91	101	95	92	91	102	100	96	18	4				
	2022	KADIMA LEXII		5	5	13	43	13	61	43	59	44	47	49	55						
GT BOELA BLACK PANTHER		WOEKER BBD MATEKWA	12.57	106	100	122	108	120	84	114	112	118	110	123	116						
	2023	CDH SASHA III		5	5	14	47	11	64	46	62	47	50	53	58						
GT BOELA THUNDER		GT BOELA BUGGATI	6.81	88	107	111	109	103	102	100	99	105	107	112	106						
	2024	CDH SASHA III		5	5	15	26	5	39	25	39	27	29	31	35						
GT BOELA SNIPER		GT BOELA BUGGATI	6.81	88	107	111	109	103	102	100	99	105	107	112	106						
	2024	CDH SASHA III		5	5	15	26	5	39	25	39	27	29	31	35						

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	
CDH SASHA III	2020	CDH BULLET	17.36	101	113	110	111	115	102	104	107	119	113	124	116	31	5	7			5
		ARTIFACTS STELLA		5	5	48	53	25	67	53	66	54	56	58	63			4			1
GT BOELA TYRA	2021	CDH WILLIE	14.09	107	112	105	115	110	106	94	102	112	109	123	113	14	3				
		CDH SASHA III		5	5	16	45	9	62	45	61	46	49	51	57						
GT BOELA LADY	2023	GT BOELA RAPTOR	6.14	85	103	117	97	110	107	112	115	111	117	124	119						
		KADIMA LEXII		5	5	7	40	5	57	28	56	40	43	46	51						
SWARTKOP BOERBOEL BEYONCE PYLMAN	2023	MAJALI BLACK PEPPER 1	14.01	92	106	102	132	104	108	84	94	108	103	100	102						
		SWARTKOP BOERBOEL AVA		5	5	5	40	5	62	39	60	41	44	48	54						
KLEIN SANDFONTEIN NOVA	2024	FONT BOERBOELS MENELIK	7.69	101	96	123	98	96	115	114	113	96	104	106	109	5	1				
		KLEIN SANDFONTEIN BAMBAM		5	5	7	45	10	63	43	61	46	48	51	57						
CDH KELSY	2024	CDH TROMPIE	18.40	114	113	113	113	114	123	97	103	115	105	114	112						
		CDH KAYLEE		5	5	5	43	5	61	44	60	44	47	50	55						
GT BOELA LAYLA	2024	GT BOELA BUGGATI	6.81	88	107	111	109	103	102	100	99	105	107	112	106						
		CDH SASHA III		5	5	15	26	5	39	25	39	27	29	31	35						
GT BOELA CHLOE	2025	GT BOELA MUSTANG	8.55	102	105	115	102	104	112		103	104	105	113	108						
		KLEIN SANDFONTEIN NOVA		5	5	5	23	5	39		38	24	27	30	34						
GT BOELA TWINKLE	2025	GT BOELA MUSTANG	35.03	102	113	109	109	113	106		100	115	110	122	112						
		CDH SASHA III		5	5	5	5	5	26		24	5	5	5	14						

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 BULLET		CDH SNIPER	10.46	103	118	94	111	124	118	117	113	123	116	119	122	169 26	43 36	4 4		32
	2017	MIDDELPOS BBD MILLY		16	36	57	76	53	86	75	85	76	78	80	83					4
CDH WILLIE		CDH THUNDER	10.02	113	112	90	114	110	107	92	112	113	115	125	118	58 8	15 13	1 1		7
	2019	MIDDELPOS BBD MIKI		5	11	37	63	37	78	63	77	64	66	69	73					3
MAJALI BASJAN		FONT BOERBOELS GUN SMOKE	9.77	89	110	89	116	91	96	88	98	101	107	93	98	52 12	7 6			3
	2020	RANGER DAISY		5	5	26	54	26	72	54	71	55	58	61	66					2
CDH BEN I		AFRIKA BUCKSTEEN	5.12	106	113	104	102	104	113	92	85	101	94	105	96	12 2	7 6			5
	2020	CDH NALA		5	5	40	61	36	75	60	74	61	63	66	70					2
CDH TROMPIE		CDH KAROO	12.87	120	117	104	118	109	115	88	91	107	104	121	107	12 4	5 5	1 1		2
	2021	CDH BUCKKI		5	5	34	53	30	66	59	65	54	56	58	62					2
WOEKER BBD MATEKWA		LOMBARD SUPERIOR HAMMILTON	10.45	110	88	133	104	120	84	116	110	111	97	115	110	91 12	35 15			9
	2021	WOEKER BBD STELLA		5	5	24	64	36	79	64	79	65	68	70	75					5
GT BOELA RAPTOR		CDH WILLIE	14.09	107	112	100	108	116	108	105	118	122	118	127	124	1 1	1 1			
	2021	CDH SASHA III		5	5	14	46	11	63	45	62	47	50	52	58					
GT BOELA MUSTANG		CDH BEN I	11.38	103	113	107	107		109	97	94	111	106	121	108	6 1				
	2021	CDH SASHA III		5	5	14	44		62	44	61	45	48	50	56					
FONT BOERBOELS MENELIK		BRIEL THE GHOST	7.10	90	102	114	82	96	112	130	129	106	116	94	114	27 5	6 5			1
	2022	FONT BOERBOELS QUEEN SHEBA		5	5	15	56	27	73	55	72	57	60	62	68					1
MAJALI BLACK PEPPER 1		MAJALI BASJAN	6.76	91	107	98	130	95	103	79	99	102	105	101	102	40 5	3 3			
	2022	ALPHONSE JESSY		5	5	5	50	18	69	49	68	51	54	57	63					
GT BOELA BUGGATI		MAJALI BASJAN	8.90	75	102	111	106	91	101	95	92	91	102	100	96	18 4				
	2022	KADIMA LEXII		5	5	13	43	13	61	43	59	44	47	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- r ament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips	Elbows	
ARTIFACTS STELLA	2018	CDH KAROO	4.83	99	107	134	118	99	106	82	97	112	104	115	106	31	4	8		7	
		TOKARA HELGA		5	5	55	64	40	78	64	77	65	67	69	73						6
CDH SASHA III	2020	CDH BULLET	17.36	101	113	110	111	115	102	104	107	119	113	124	116	31	5	7		5	
		ARTIFACTS STELLA		5	5	48	53	25	67	53	66	54	56	58	63						4
KADIMA LEXII	2021	BOSTU DADDY COOL	5.48	62	93	134	94	97	100	111	89	83	99	106	95	6	2	2		1	
		KADIMA TAURUS		16	31	40	57	35	70	55	69	57	59	61	65						1
KLEIN SANDFONTEIN BAMBAM	2022	MES RETIEF	12.68	112	91	132	110	104	116	109	104	100	100	116	110	24	2	2		1	
		KLEIN SANDFONTEIN NEVAEH		5	5	41	52	25	69	51	68	53	55	58	63						2
CDH KAYLEE	2022	CDH BULLET	15.65	108	109	123	118	121	120	104	106	120	109	119	117	26	3	4		1	
		CDH KATRYN		5	5	36	56	28	72	56	71	57	59	62	67						3
SWARTKOP BOERBOEL AVA	2022	FONT BOERBOELS GUN SMOKE	6.90	93	104	106	123	116	100	88	100	118	110	119	112	26	3	1			
		MES PAULKA		5	5	33	50	25	67	50	66	51	54	56	62						1
KLEIN SANDFONTEIN NOVA	2024	FONT BOERBOELS MENELIK	7.69	101	96	123	98	96	115	114	113	96	104	106	109	5	1				
		KLEIN SANDFONTEIN BAMBAM		5	5	7	45	10	63	43	61	46	48	51	57						

