

Boerboel Genetic Evaluation

SA Stud Book
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21B LAWYER OGUNMODEDE ROAD
PALAPAALA OFF SOMORIN
ABEOKUTA
NIGERIA



Kennel Number: 717756



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.

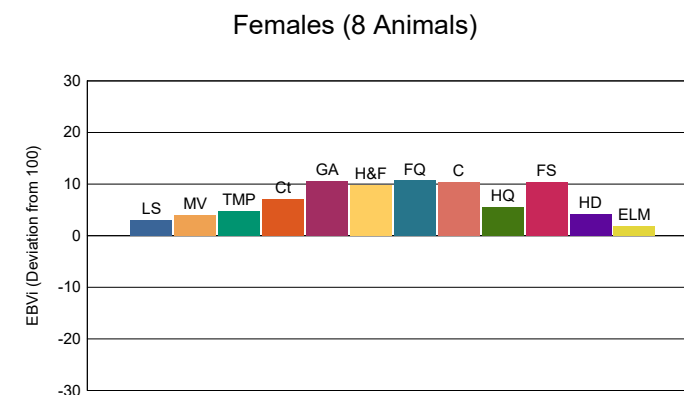
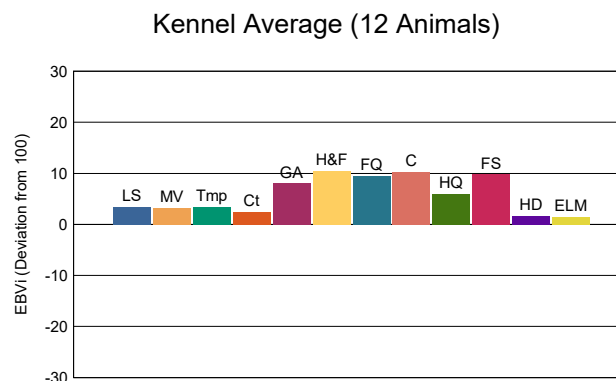
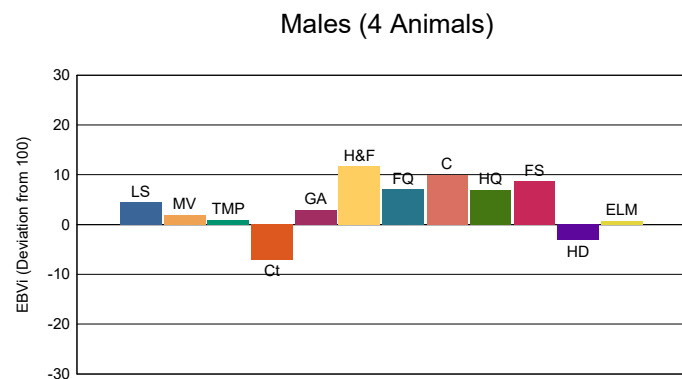
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	103	104	103
Movement (Mv)	103	102	104
Temperament (Tmp)	103	101	105
Coat (Ct)	102	93	107
General Appearance	108	103	111
Head & Face (H&F)	110	112	110
Front Quarter (FQ)	109	107	111
Centre (C)	110	110	110
Hind Quarter (HQ)	106	107	106
Final Score (FS)	110	109	110
Hip Health (HH)	102	97	104
Elbow Health (ELM)	102	101	102

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.

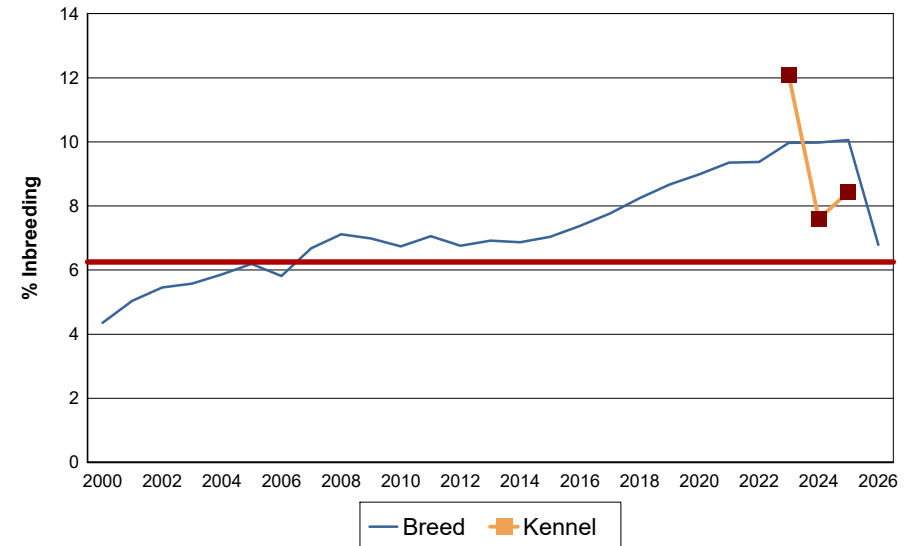
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

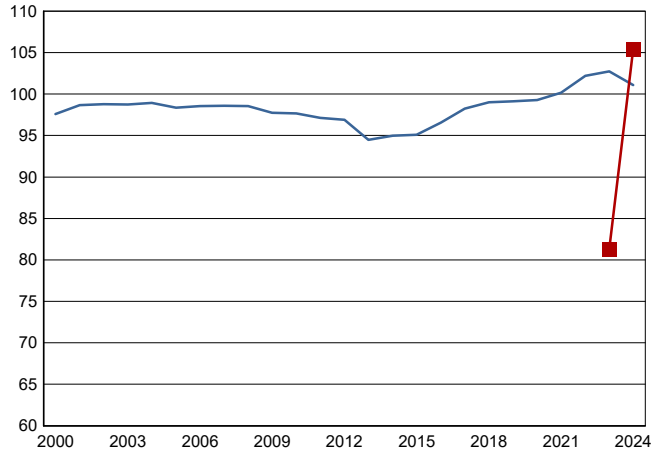


Inbreeding Levels

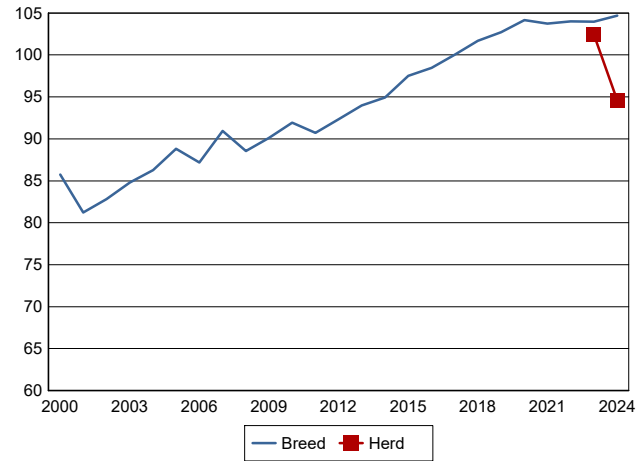
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	12	49007	4	25141	8	23857	11	3371	12	6287
Average Inbreeding	8.22	8.49	8.43	8.46	8.12	8.53	9.75	8.01	8.90	8.00
Number inbred	12	48727	4	24990	8	23728	11	24990	12	23728
Number >6.25% Inbr.	11	30600	3	15537	8	15058	8	15537	9	15058

Genetic Trends

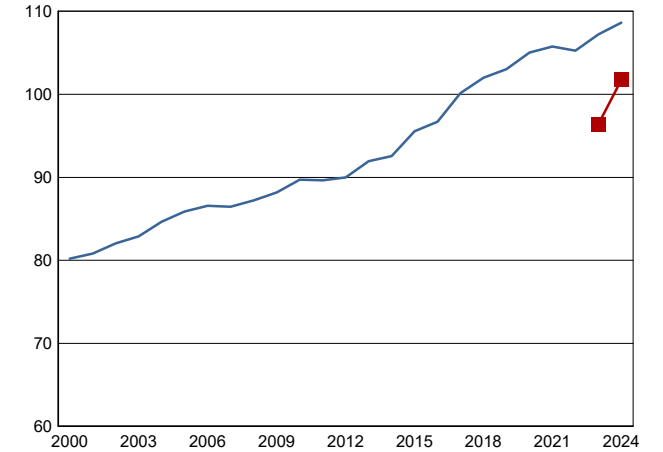
Litter Size



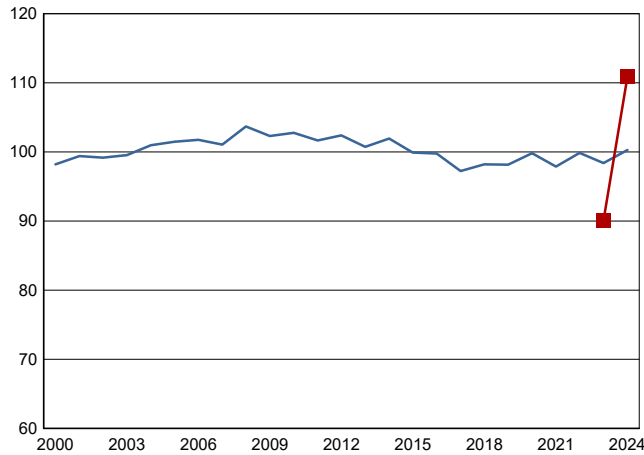
Movement



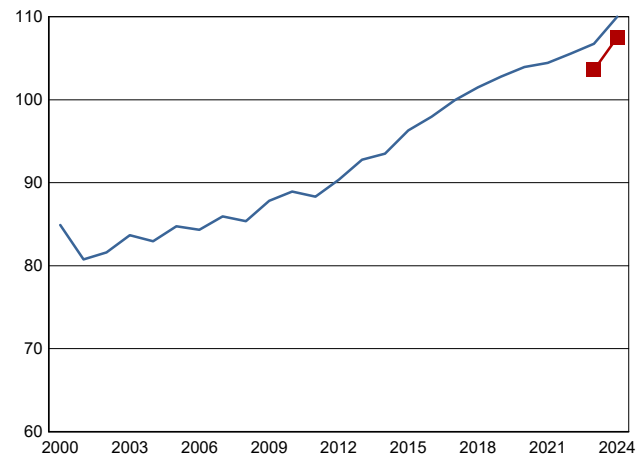
Temperament



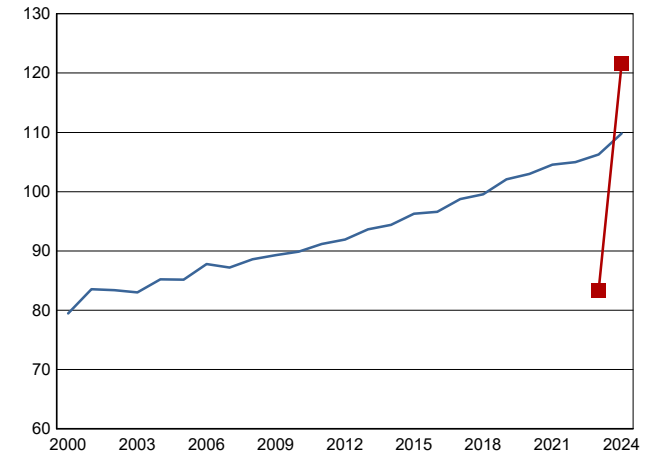
Coat



General Appearance

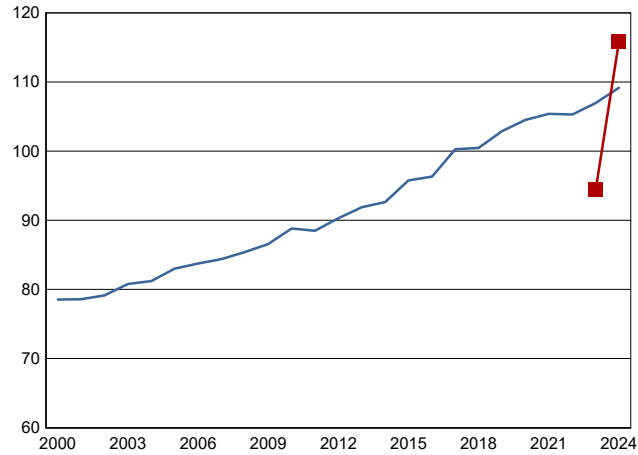


Head & Face

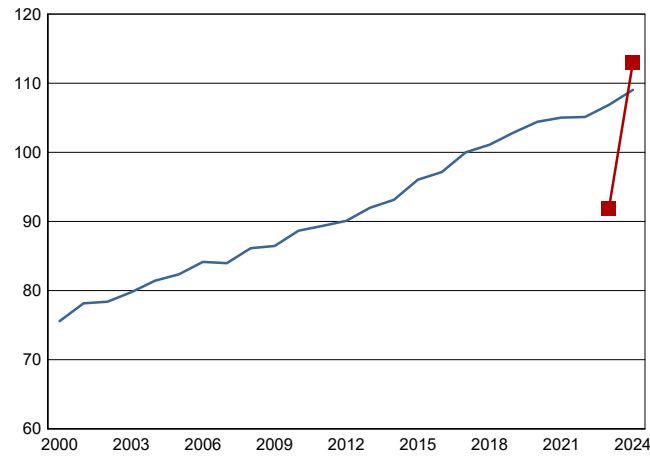


Genetic Trends

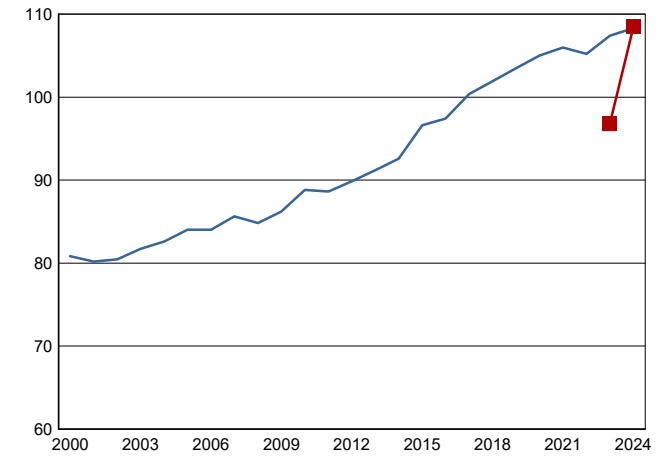
Front Quarter



Centre

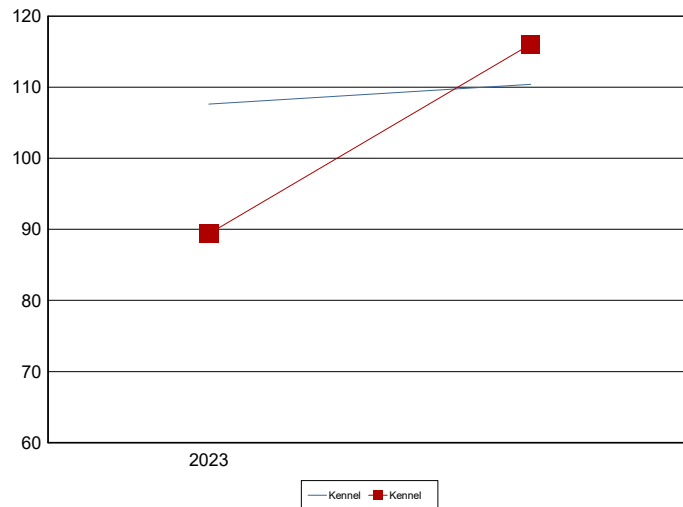


Hind Quarter

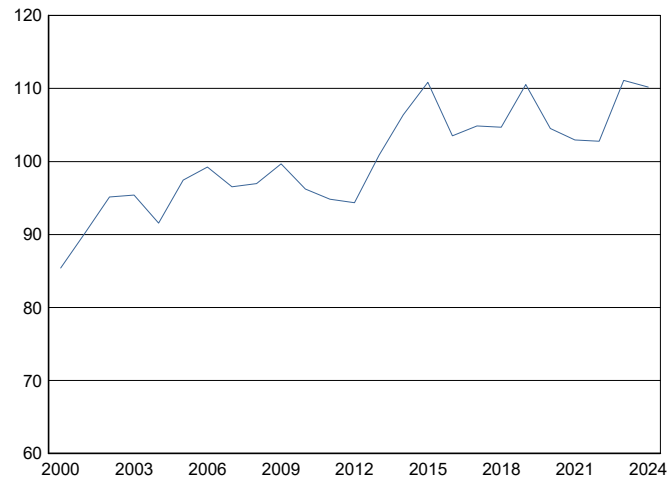


Final Score & Health Traits

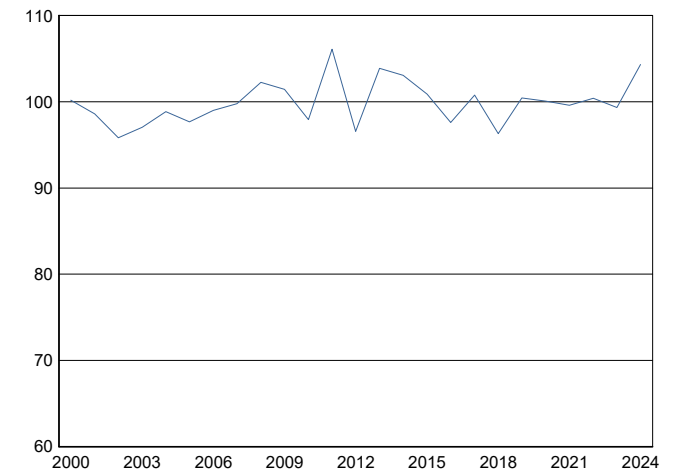
Final Score



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	
BOSTU FUTURE		KLEIN SANDFONTEIN BROC	10.39	106	97	115	102	104	117	111	124	124	114	109	119	56	14	6			
	2020	ELEVATION TALITA		5	29	26	47	23	60	45	59	48	50	52	56						
NGDK GAMMA		HONEYWEALTH DIESEL	5.60	96	101	89	90	102	100	106	108	103	111	119	110	26	7				
	2022	NGDK 2020		5	5	5	40	5	61	40	59	42	44	47	54						
DELMA OMEGA		DELAHLERK ENZO	10.88	101	108	105	125	97	85	79	90	91	108	113	99	4	1				
	2023	DELMA BAILEY I		5	5	5	42	5	62	41	61	43	46	49	55						
BLACKSON SIGMA (MR. VALENTINE)		AOB KAZUKI	6.86	85	98	108	91	102	70	116	125	110	107	87	105						
	2024	FROGGY GEE ETA		5	5	5	40	5	59	25	58	41	43	46	53						

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	
BLUE ICE MAGNIFICO BARETTA		PYRAMAX THOR	6.69	92	92	106	107	106	100	107	104	109	112	105	108	5	2				
	2021	ANIA CASPIAN RAVEN		5	5	5	24	5	40	23	40	25	28	30	35						
ANIA CASPIAN BETA		MIDDELPOS BBD APOLLO III	7.51	108	120	101	91	101	122	101	123	114	116	115	120	14	1	5	5		
	2022	KINGSTON NALA VI		5	5	20	47	18	65	45	64	48	51	53	59						
TEMISWIFT DELTA		MIDDELPOS BBD MANUEL	8.00	114	100	102	107	106	101	108	88	99	97	97	95						
	2022	TEMISWIFT GENESIS		5	5	5	48	17	66	47	64	49	51	54	60						
FROGGY GEE ETA		COLOS CHEETA	7.56	87	105	114	101	101	100	115	118	115	111	92	109	1	1	1	1		
	2022	AFRIKA PRINCESS		5	5	20	49	22	66	48	65	50	52	55	60						
SKYVISION THETA		SKYVISION GEORGE	6.56	115	100	79	104	103	104	113	105	102	103	103	105	12	3	1	1		
	2022	ELEVATION CANDY		5	5	30	48	13	66	47	64	49	51	54	60						
BEESYMAN IOTA		SKYVISION CHASE	8.10	98	83	105	114	112	107	122	106	114	116	110	114	5	1				
	2022	KLEIN WITWAL BBD MANSA POPLAP		5	5	5	44	5	63	43	62	45	47	50	56						
KENDALLAS BLACKSON MINAS		BOSTU FUTURE	8.51	107	108	106	98	103	118		120	118	114	110	117						
	2025	ANIA CASPIAN DORA		5	5	5	24	5	36		36	25	27	29	33						
TBK BLACKSON ESSEX		BOSTU FUTURE	12.02	112	108	112	109	105	105		115	114	113	113	116						
	2025	PAMPOENKRAAL ELEKTRA		5	5	5	30	5	43		42	31	33	35	39						

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	
PYRAMAX THOR		HIS KENNELS MASERATTI	6.85	81	81	99	107	105	100	107	98	103	109	105	104	39 6	11			11	
	2016	ROCKYVILLE BBD DIAMONT		5	5	15	46	16	64	45	63	47	49	52	58						11
KLEIN SANDFONTEIN BROC		ZUKANDI BEAU	12.87	112	96	107	100	95	119	110	110	117	112	115	114	49 8	11	2	2	8	
	2017	KLEIN SANDFONTEIN HOLLYHOCK		36	53	39	65	39	79	64	78	66	68	70	74						9
MIDDELPOS BBD APOLLO III		MIDDELPOS BBD GAMKA	6.87	126	130	95	99	109	125	93	123	123	117	117	123	97 13	18			9	
	2019	DELATRO X'SASKIA		5	17	36	58	36	70	56	69	58	60	62	66						17
SKYVISION GEORGE		SKYVISION GEORGIA	19.01	100	85	86	102	96	122	115	113	103	105	106	111	62 14	14	1	1	13	
	2019	SKYVISION AREWA		5	5	8	57	14	75	56	74	58	61	64	69						13
COLOS CHEETA		TARGUS RAM	5.55	83	128	109	104	107	77	120	115	111	122	104	112	18 4	8			5	
	2019	KLEIN SANDFONTEIN AKITA		5	10	39	62	40	75	62	74	63	64	66	70						8
HONEYWEALTH DIESEL		GIANTS OF AFRICA SKY	9.64	108	92	84	103	99	85	94	85	97	97	114	96	55 14	11			3	
	2019	SKYVISION DAHANA		5	5	10	51	19	69	50	68	52	55	58	63						10
MIDDELPOS BBD MANUEL		ELEVATION ALPHONSE	13.94	126	107	87	117	125	101	120	106	120	123	121	119	41 7	10			4	
	2019	GIANTS OF AFRICA BABY		5	5	28	55	30	71	54	70	56	58	61	66						8
BOSTU FUTURE		KLEIN SANDFONTEIN BROC	10.39	106	97	115	102	104	117	111	124	124	114	109	119	56 14	6				
	2020	ELEVATION TALITA		5	29	26	47	23	60	45	59	48	50	52	56						6
DELAKLERK ENZO		VILLA ROUGE GOLIAT	12.20	94	108	100	120	92	82	78	94	93	105	102	96	81 12	6			3	
	2020	DELAKLERK LUNA		5	5	15	52	14	70	51	69	53	55	58	64						6
AOB KAZUKI		PENINSULA PLAYBOY	5.27	82	91	102	91	106	66	113	117	102	101	90	101	26 5	5			2	
	2021	AOB HIROSHIMA		5	5	16	46	12	64	41	63	47	49	52	58						5
SKYVISION CHASE		SKYVISION GEORGE	4.69	96	89	99	101	96	104	124	112	100	108	95	106	29 5	7			4	
	2021	ALEXANDER BBD ISABELLA		5	5	19	51	15	69	50	68	52	55	58	63						7

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	
ELEVATION TALITA	2018	ELEVATION DAX	19.16	100	97	124	113	116	99	104	129	127	111	102	119	20	2	8	2	2	5
		ELEVATION LULU I		20	40	50	63	41	76	62	75	64	66	68	72			8			
TEMISWIFT GENESIS	2019	AFRIKA ETHAN	8.39	103	93	116	111	102	95	99	89	94	87	98	92	20	3	7			4
		STEGO MUNA		5	5	32	56	28	73	55	72	57	59	62	67			6			
ANIA CASPIAN RAVEN	2020	NGDK ROLO	5.18	102	103	112	108	108	99	107	110	115	115	105	111	7	1	1			3
		GIANTS OF AFRICA ZENA		5	5	30	43	14	60	42	59	43	46	48	54			1			
AFRIKA PRINCESS	2020	AFRIKA GHUNTER	6.69	91	83	119	98	96	123	109	112	112	97	92	105	5	1	3			3
		AFRIKA MATILDA		5	10	41	58	34	72	57	71	58	60	63	67			3			
ELEVATION CANDY	2020	LINGA LONGA HARLEY 3	5.39	131	114	82	109	113	90	117	119	117	121	110	117	4	1	2			2
		ELEVATION MIAMI		11	31	39	57	32	71	56	70	57	60	62	66			2			
KLEIN WITWAL BBD MANSAPLOP	2020	KLEIN WITWAL BBD UNO	18.19	100	77	110	115	124	124	114	103	123	115	117	118	10	2	2			1
		MANSAPLOP		5	5	26	53	22	69	52	68	54	56	59	64			2			
KINGSTON NALA VI	2020	LOU-ANDRE BREKER	3.77	89	110	107	88	90	108	103	102	93	106	101	100	19	3	6			2
		JAMBAL LIELA		5	5	42	49	22	62	47	61	49	51	54	58			6			
NGDK 2020	2020	FONT BOERBOELS CANON	8.67	83	109	94	83	98	112	108	116	102	115	110	112	1	1	1			1
		NGDK FRANCA		5	5	13	44	14	63	43	61	45	47	50	56			1			
DELMA BAILEY I	2021	MES CHAMP	8.80	109	108	111	127	106	88	87	105	102	114	121	112	4	1	2			1
		DELMA MIKA 3		5	5	34	50	21	68	49	66	51	53	56	62			2			
ANIA CASPIAN DORA	2022	MIDDELPOS BBD APOLLO III	7.51	108	120	97	95	103	120	104	116	112	115	112	116	7	3	1			
		KINGSTON NALA VI		5	5	28	37	7	50	40	49	38	40	42	46			1			
FROGGY GEE ETA	2022	COLOS CHEETA	7.56	87	105	114	101	101	100	115	118	115	111	92	109	1	1	1			
		AFRIKA PRINCESS		5	5	20	49	22	66	48	65	50	52	55	60			1			
PAMPOENKRAAL ELEKTRA	2022	MIDDELPOS BBD BRUCE ALMIGHTY	7.44	118	119	108	116	107	92	113	107	103	112	118	112	14	3	2			1
		KLEIN SANDFONTEIN LARA CROFT		5	10	28	53	24	69	52	68	54	56	59	64			1			

