

Boerboel Genetic Evaluation

SA Stud Book
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MOLEPOLOLE

BOTSWANA



Kennel Number: 683718



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.

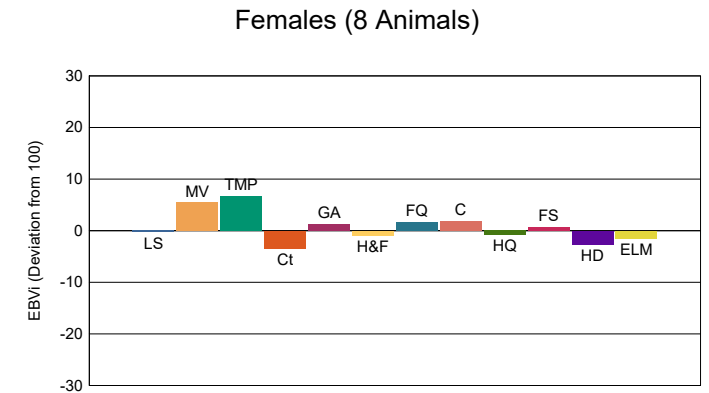
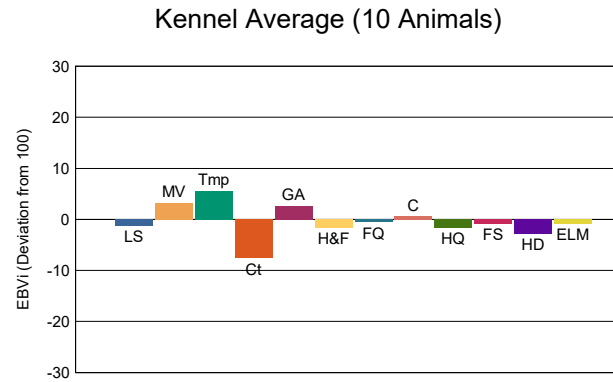
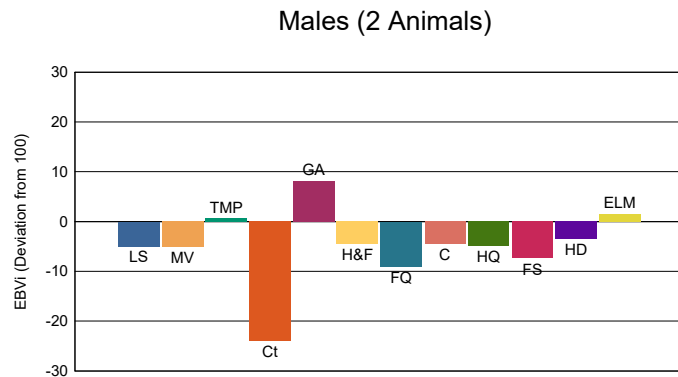
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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	95	100
Movement (Mv)	103	95	105
Temperament (Tmp)	105	101	107
Coat (Ct)	92	76	97
General Appearance	103	108	101
Head & Face (H&F)	98	96	99
Front Quarter (FQ)	99	91	102
Centre (C)	101	95	102
Hind Quarter (HQ)	98	95	99
Final Score (FS)	99	93	101
Hip Health (HH)	97	97	97
Elbow Health (ELM)	99	102	98

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.

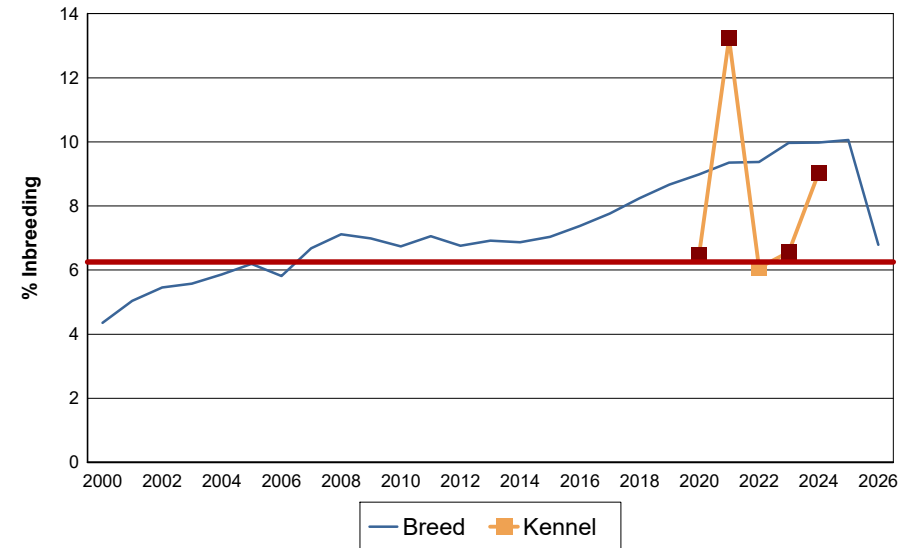
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

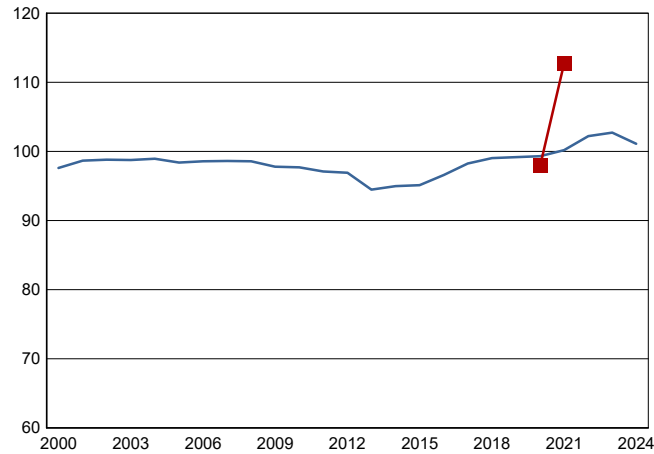


Inbreeding Levels

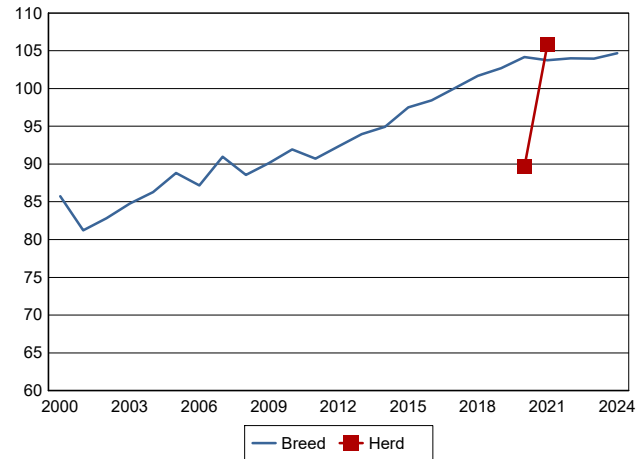
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	10	49007	2	25141	8	23857	6	3371	8	6287
Average Inbreeding	7.46	8.49	11.32	8.46	6.50	8.53	11.63	8.01	6.52	8.00
Number inbred	10	48727	2	24990	8	23728	6	24990	8	23728
Number >6.25% Inbr.	4	30600	2	15537	2	15058	5	15537	3	15058

Genetic Trends

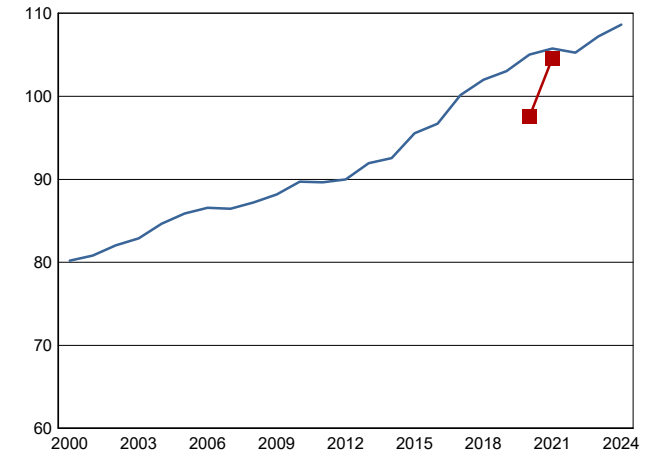
Litter Size



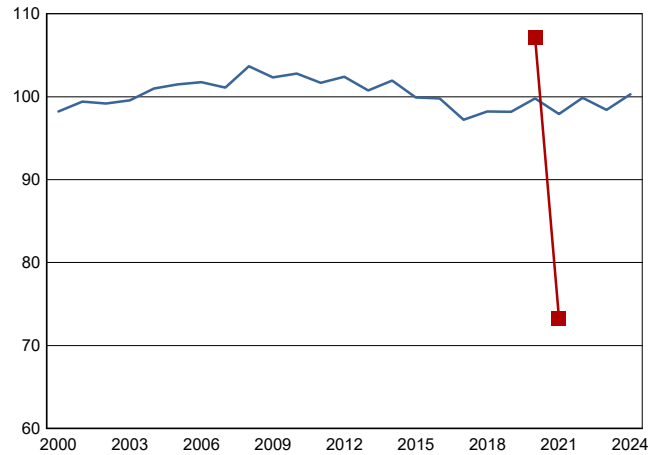
Movement



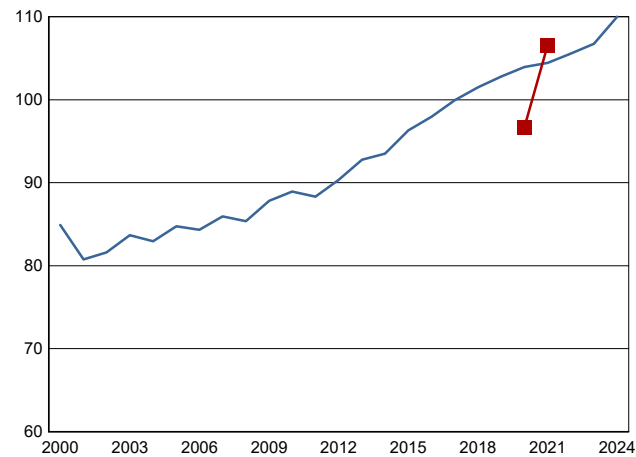
Temperament



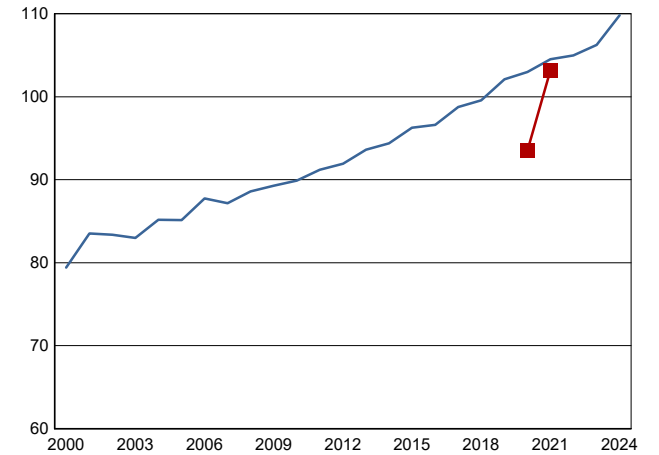
Coat



General Appearance

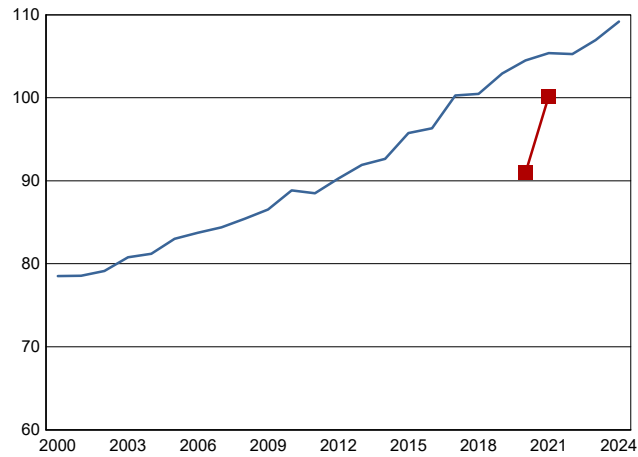


Head & Face

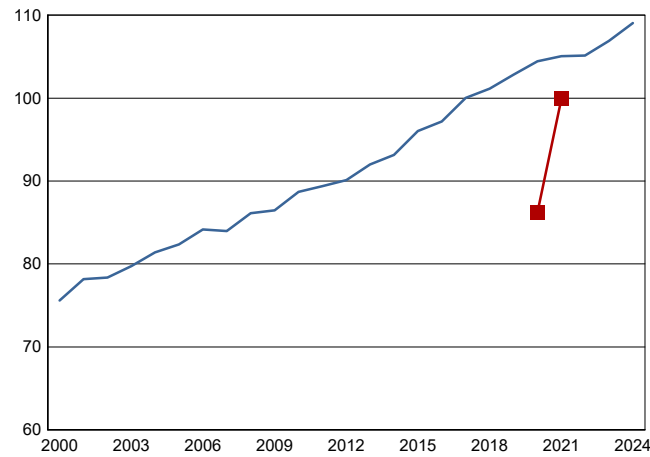


Genetic Trends

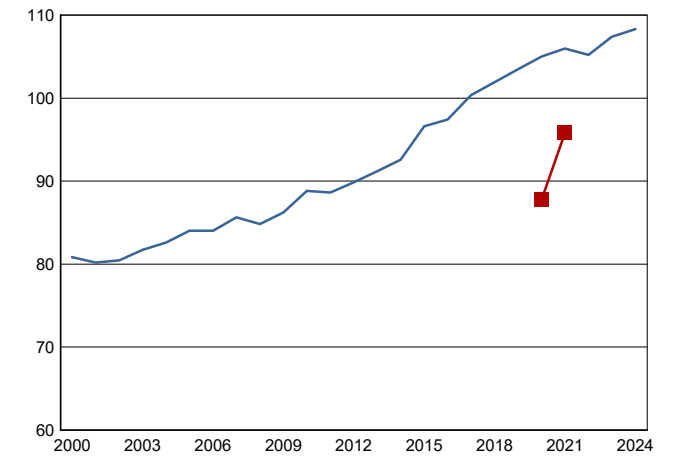
Front Quarter



Centre

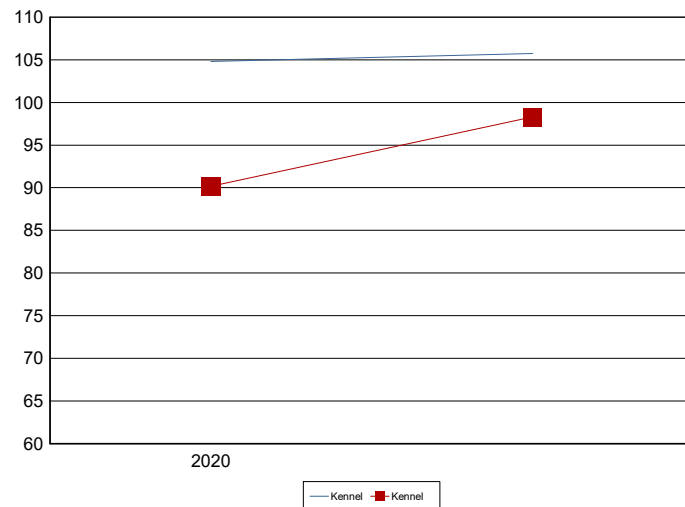


Hind Quarter

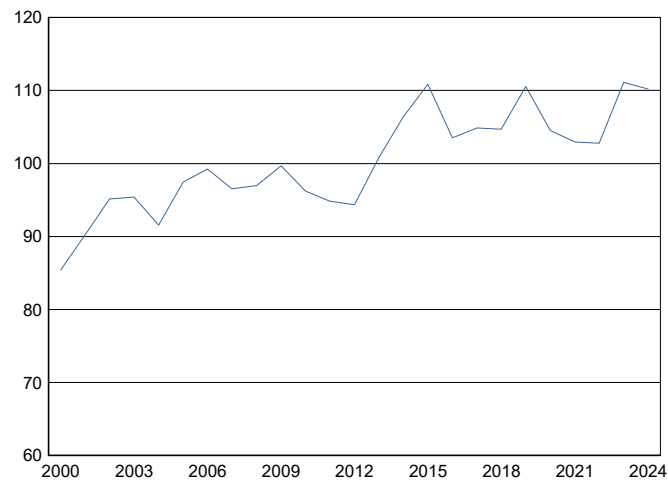


Final Score & Health Traits

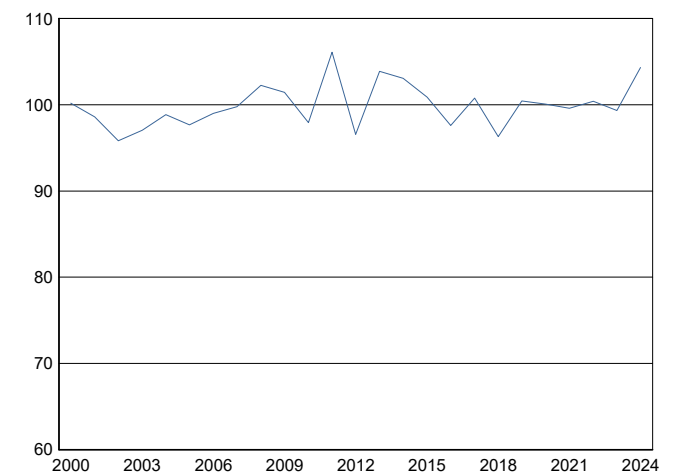
Final Score



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	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	
ERNYMOS ANCESTOR	APPARENT PAVAROTTI		13.60	94	105	89	91	99	77	109	93	88	94	95	91	17	5	3			
	2021	JOSMOT TAHNU		5	5	5	42	5	62	40	60	43	46	49	55			3			
EDENACRE JAY CUTLER	ERNYMOS ANCESTOR		9.04	99	99	101	99	102	75	108	98	94	97	95	95						
	2024	EDENACRE LONELY		5	5	5	19	5	36	18	35	20	23	26	31						

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	
CAVIN REGAL AKANAKA		ELEVATION GHETTO-ROUGH	6.08	104	90	114	95	107	99	109	105	98	94	88	98	9	2	3 2			1
	2018	SA EXTREME NOLA		5	6	33	47	25	58	46	58	48	49	51	55						1
XHAROO NOBUHLE		JAC-LEE TAU 2	5.37	92	106	82	114	115	107	96	100	107	109	101	106	7	3				
	2020	LAIKA LANIE		5	5	5	38	5	58	37	57	39	42	45	51						
MAU MAU MAKHADZI		SA SUPERIOR ROLLS ROYCE	5.90	96	91	119	108	103	128	98	79	102	101	102	97						
	2020	CAPTAIN BUTTERFLY		5	5	5	44	7	62	43	61	45	48	50	56						
EDENACRE LONELY		KLEIN SANDFONTEIN MACGYVER	8.48	103	92	113	106	105	73	107	103	100	100	96	98	5	2				
	2021	CAVIN REGAL AKANAKA		5	5	6	43	13	60	41	59	44	46	49	54						
EDENACRE MMABESI		APPARENT PAVAROTTI	6.03	94	110	87	105	112	110	107	101	104	105	101	105						
	2021	XHAROO NOBUHLE		5	5	5	20	5	37	18	36	21	23	26	32						
EDENACRE SHE IS A PEARL		KLEIN SANDFONTEIN MACGYVER	5.95	97	100	97	116	106	93	92	95	102	105	105	101						
	2023	XHAROO NOBUHLE		5	5	5	28	5	42	26	41	28	31	33	37						
EDENACRE LETLOTLO		ERNYMOS ANCESTOR	9.04	99	99	101	99	102	75	108	98	94	97	95	95						
	2023	EDENACRE LONELY		5	5	5	19	5	36	18	35	20	23	26	31						
ALIDIT ARIEL		ERNYMOS ANCESTOR	5.13	94	101	86	103	104	88	94	112	106	105	105	107						
	2024	ALIDIT BJ		5	5	5	34	5	54	13	53	35	38	41	47						

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		
SA SUPERIOR ROLLS ROYCE		SA SUPERIOR BOGGOM	15.35	96	88	102	108	110	117	114	88	103	110	101	102	51 11	11 10		4	
	2016	SA SUPERIOR TOLBOS		5	5	12	58	25	74	56	73	58	61	64	69				3	
ELEVATION GHETTO-ROUGH		ELEVATION DAX	14.22	109	79	89	132	134	111	126	138	125	119	116	133	105 22	40 35	4 4	29	
	2017	QUREDU MIA		32	51	49	77	55	87	77	86	78	79	81	84				9	
JAC-LEE TAU 2		JAC-LEE GENERAAL	4.79	97	106	82	89	94	106	94	94	90	86	88	89	25 7	3 2		1	
	2018	JAC-LEE SHIWA		5	5	20	44	11	63	43	62	45	48	51	57				1	
APPARENT PAVAROTTI		APPARENT G.I. JOE	13.06	96	114	92	96	110	112	119	102	101	101	102	104	21 4	8 5		4	
	2019	CABARET ROXANNE		5	5	5	43	5	60	41	59	44	46	49	55				3	
KLEIN SANDFONTEIN MACGYVER		MES LUKA	8.76	102	95	111	117	97	78	88	89	97	101	110	96	14 5	4 3		1	
	2020	ZUKANDI SANZA		5	5	26	56	32	71	54	70	57	59	61	66				1	
ERNYMOS ANCESTOR		APPARENT PAVAROTTI	13.60	94	105	89	91	99	77	109	93	88	94	95	91	17 5	3 3			
	2021	JOSMOT TAHNU		5	5	5	42	5	62	40	60	43	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	
SA EXTREME NOLA		CABARET TYLO	5.58	99	101	120	61	82	93	95	77	75	72	63	67	33	5	5			3
	2013	NEL'S BOERBOELS SANDY		5	5	38	51	28	65	51	64	52	54	56	60			5			1
JOSMOT TAHNU		CABARET TANK	8.83	93	96	87	85	84	67	89	77	79	89	93	79	7	2	4			1
	2017	TREBLA DIVA		5	5	21	53	23	71	52	70	54	57	59	65			3			1
LAIKA LANIE		LAIKA ASTERIX	5.58	86	105	83	128	124	97	94	91	109	119	103	106	1	1	1			1
	2017	JAUBERT GIA		5	5	28	45	17	62	44	61	45	48	50	56			1			1
CAVIN REGAL AKANAKA		ELEVATION GHETTO-ROUGH	6.08	104	90	114	95	107	99	109	105	98	94	88	98	9	2	3			1
	2018	SA EXTREME NOLA		5	6	33	47	25	58	46	58	48	49	51	55			2			1
ALIDIT BJ		KRYGER BBD ZEUS	6.74	94	98		103	100	88	87	110	105	98	97	101	8	2	1			
	2019	JAC-LEE BETSIE		5	5		29	5	45	24	44	30	32	34	40			1			
CAPTAIN BUTTERFLY		KILIAN JACK HAMMER	5.50	96	94	136	107	103	129	97	96	107	96	99	102	9	1	3			1
	2019	NSIZWA FRIDA		5	5	26	48	20	64	47	63	49	51	54	59			3			1
XHAROO NOBUHLE		JAC-LEE TAU 2	5.37	92	106	82	114	115	107	96	100	107	109	101	106	7	3				
	2020	LAIKA LANIE		5	5	5	38	5	58	37	57	39	42	45	51						
EDENACRE LONELY		KLEIN SANDFONTEIN MACGYVER	8.48	103	92	113	106	105	73	107	103	100	100	96	98	5	2				
	2021	CAVIN REGAL AKANAKA		5	5	6	43	13	60	41	59	44	46	49	54						

