

Boerboel Genetic Evaluation

SA Stud Book
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BROARHURST
GABORONE
BOTSWANA



Kennel Number: 692931



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.

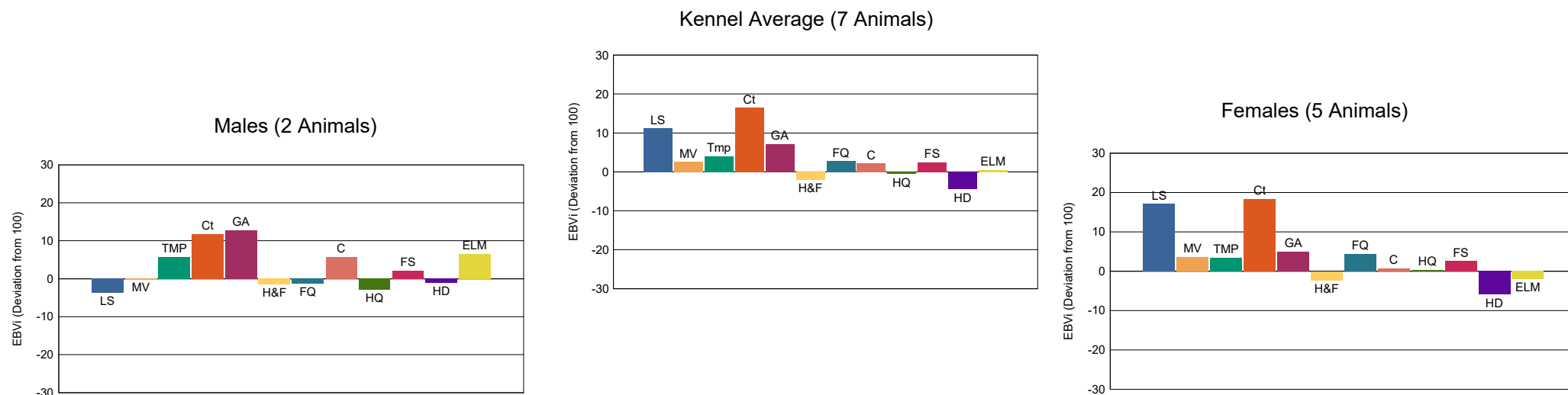
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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	96	117
Movement (Mv)	103	100	104
Temperament (Tmp)	104	106	103
Coat (Ct)	116	112	118
General Appearance	107	113	105
Head & Face (H&F)	98	99	98
Front Quarter (FQ)	103	99	104
Centre (C)	102	106	101
Hind Quarter (HQ)	99	97	100
Final Score (FS)	102	102	103
Hip Health (HH)	96	99	94
Elbow Health (ELM)	100	107	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.

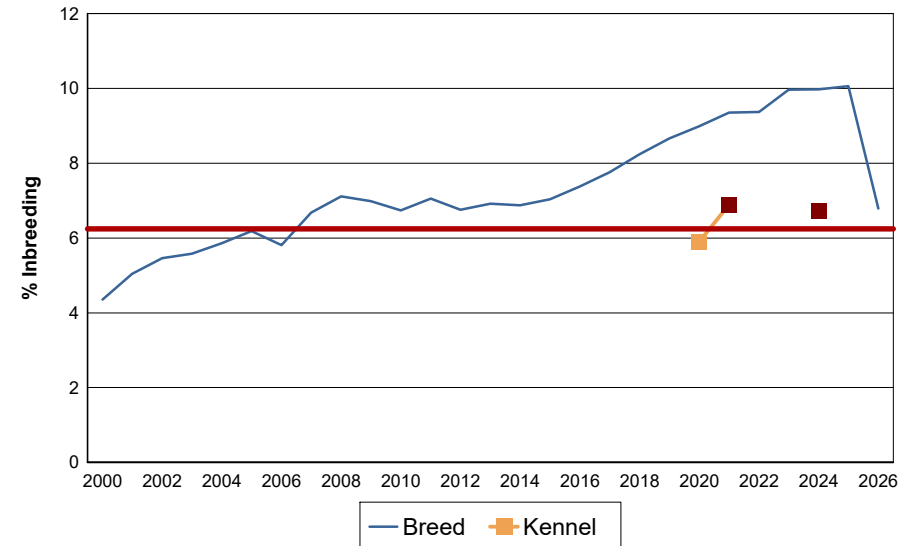
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

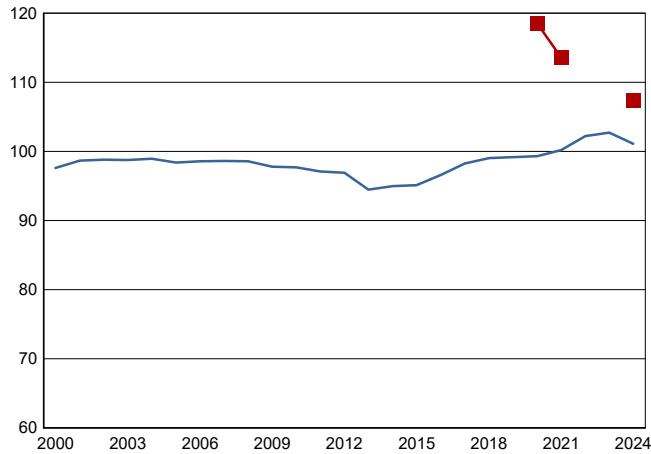


Inbreeding Levels

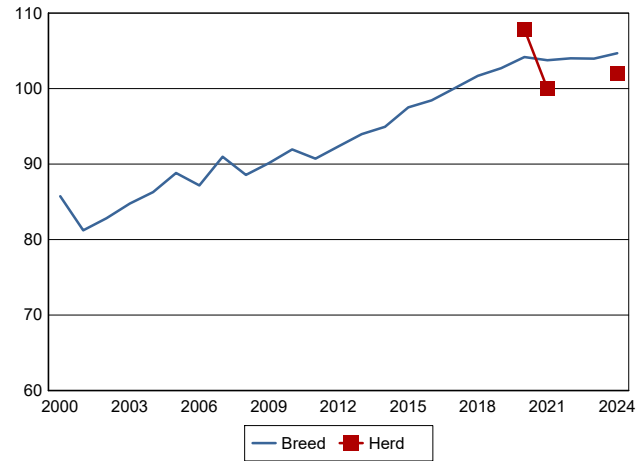
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	7	49007	2	25141	5	23857	6	3371	5	6287
Average Inbreeding	7.55	8.49	10.07	8.46	6.55	8.53	10.90	8.01	11.80	8.00
Number inbred	7	48727	2	24990	5	23728	6	24990	5	23728
Number >6.25% Inbr.	5	30600	2	15537	3	15058	6	15537	4	15058

Genetic Trends

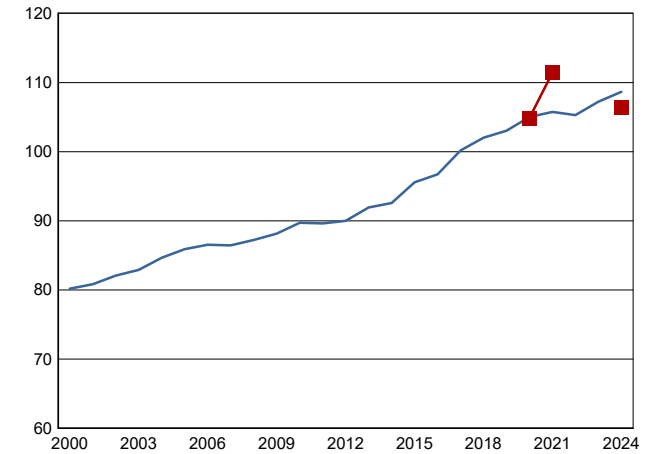
Litter Size



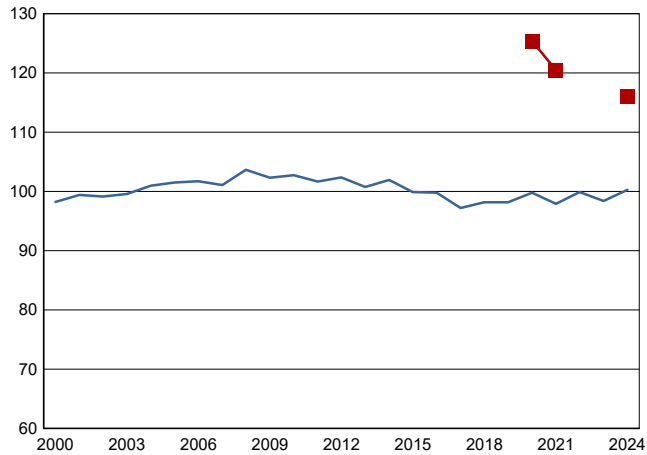
Movement



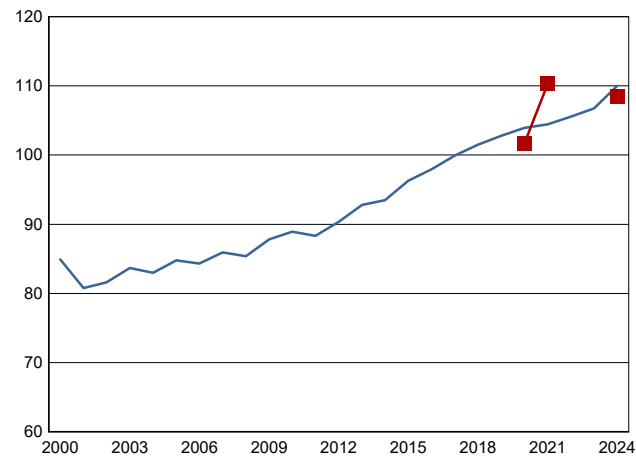
Temperament



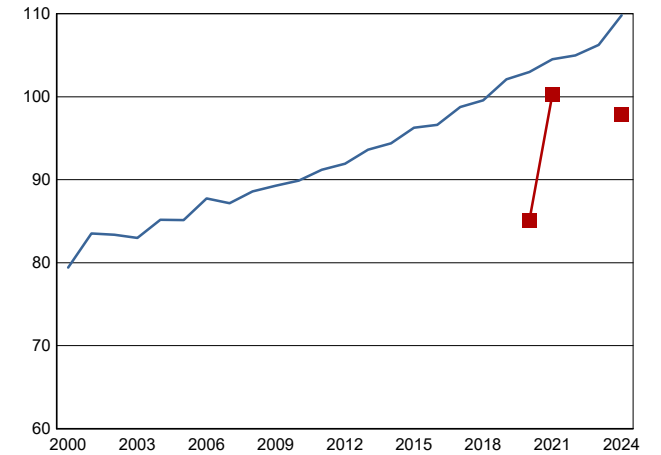
Coat



General Appearance

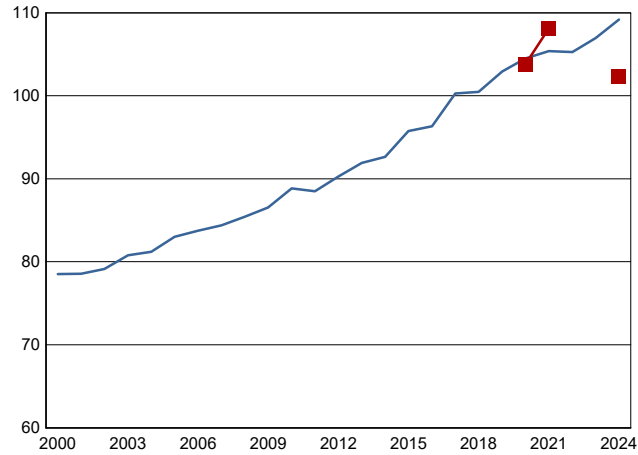


Head & Face

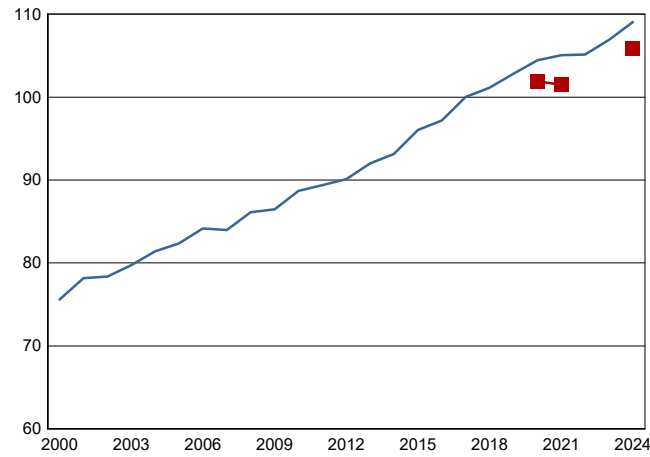


Genetic Trends

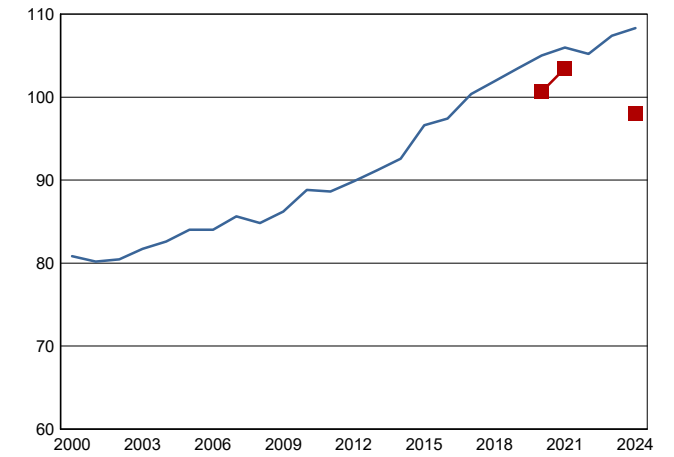
Front Quarter



Centre

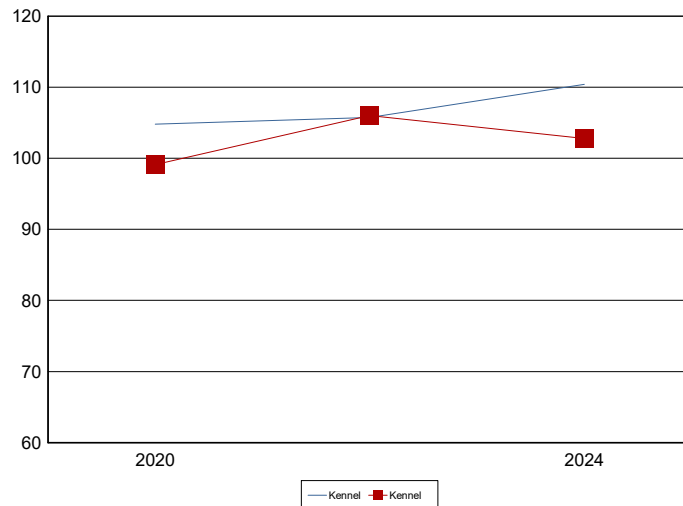


Hind Quarter

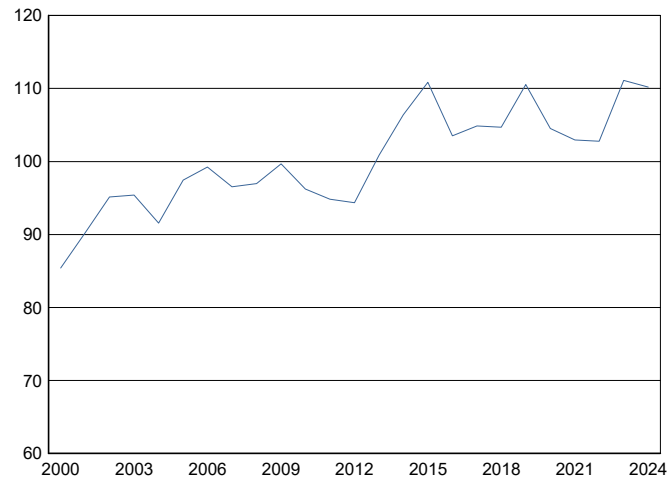


Final Score & Health Traits

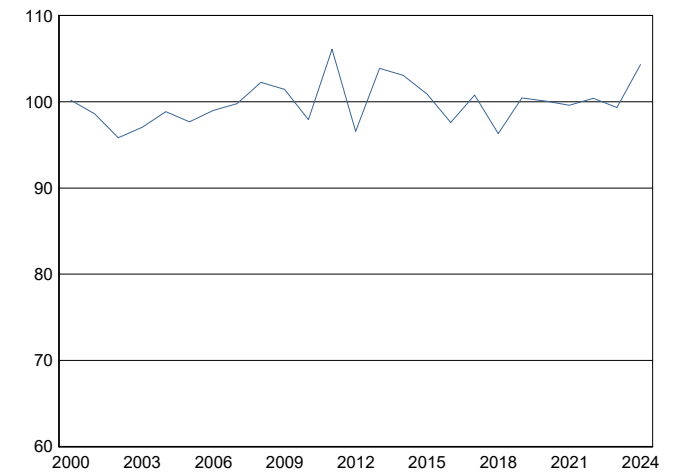
Final Score



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	
APPARENT PAVAROTTI		APPARENT G.I. JOE	13.06	96	114	92	96	110	112	119	102	101	101	102	104	21	4	8			4
	2019	CABARET ROXANNE		5	5	5	43	5	60	41	59	44	46	49	55			5			3
ALEXANDER BBD TEXAS 2		SA SUPERIOR RAMBO	7.08	102	100	101	104	101	111	107	95	97	110	92	100	1	1	1			
	2021	ALEXANDER BBD KELLY		5	5	5	44	8	59	43	58	45	47	49	54			1			

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 Progeny Litters	Appraisal Progeny Kennels	Health Hips Elbows	Progeny with litters
RIMA AKOT SCARLETT	2019	TREBLA HARNAS TERRITORIAL KIARA	7.54	86 5	97 5	104 7	102 45	90 11	100 62	103 44	103 61	97 45	104 48	99 51	100 56				
CAPTAIN BUTTERFLY	2019	KILIAN JACK HAMMER NSIZWA FRIDA	5.50	96 5	94 5	136 26	107 48	103 20	129 64	97 47	96 63	107 49	96 51	99 54	102 59	9 1	3 3		1 1
MAU MAU MPHATLALATSANE	2020	SA SUPERIOR ROLLS ROYCE CAPTAIN BUTTERFLY	5.90	96 5	91 5	119 5	108 34	106 5	123 48	106 33	92 47	105 35	103 37	100 39	102 43				
MAU MAU DESERT GIRL	2021	APPARENT PAVAROTTI CAPTAIN BUTTERFLY	6.89	96 5	104 5	114 5	100 35	111 5	121 54	110 34	100 53	108 36	102 39	104 42	106 48	1 1	1 1		
MAU MAU DANCING QUEEN	2021	APPARENT PAVAROTTI CAPTAIN BUTTERFLY	6.89	96 5	104 5	114 5	101 26	107 5	120 41	108 25	99 40	104 27	99 29	101 32	103 36				

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 RAMBO	2015	ELEVATION HUDSON	15.23	86	92		113	108	112	101	93	98	117	95	102	32	3	12		6	
		SA SUPERIOR JULUKA		5	5		59	26	75	58	74	60	62	65	70						10
TREBLA HARNAS	2016	TREBLA BOETMAN	7.13	79	105	87	92	91	89	110	115	105	106	88	102	12	3	8		3	
		TREBLA ALMA		5	5	25	58	31	73	57	72	58	61	63	68						6
SA SUPERIOR ROLLS ROYCE	2016	SA SUPERIOR BOGGOM	15.35	96	88	102	108	110	117	114	88	103	110	101	102	51	11	11		4	
		SA SUPERIOR TOLBOS		5	5	12	58	25	74	56	73	58	61	64	69						10
APPARENT G.I. JOE	2017	MES BUKA	7.67	105	122	100	103	121	106	112	106	118	102	102	109	22	7	11		3	
		STEPHANO GABRIELLA		5	5	27	56	29	71	55	70	57	59	61	66						10
KILIAN JACK HAMMER	2017	ELEVATION DAX	6.93	97	94	103	125	119	139	125	125	125	114	120	129	28	6	5		6	
		KILLIAN RABBADOE		10	25	37	58	37	72	57	71	58	60	63	67						5
APPARENT PAVAROTTI	2019	APPARENT G.I. JOE	13.06	96	114	92	96	110	112	119	102	101	101	102	104	21	4	8		4	
		CABARET ROXANNE		5	5	5	43	5	60	41	59	44	46	49	55						5

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	
TERRITORIAL KIARA	2016	KLEIN SANDFONTEIN SARGE	8.00	93	89	121	114	92	118	99	99	94	101	109	104	14	2	7			2
		STREITER ELLA		5	5	32	44	8	60	43	59	45	47	50	55						1
CABARET ROXANNE	2017	CABARET LABAMBA I	27.30	87	105	84	105	103	84	102	81	84	102	106	93	3	1				2
		BEST CABARET ADINE		5	5	5	47	5	66	46	65	48	51	54	60						1
NSIZWA FRIDA	2017	LINJO MOSCOW	8.10	96	95	158	87	86	110	72	68	86	78	78	73	24	3	6			8
		LINJO NANDI		5	5	36	55	24	71	54	70	56	58	61	66						2
CAPTAIN BUTTERFLY	2019	KILIAN JACK HAMMER	5.50	96	94	136	107	103	129	97	96	107	96	99	102	9	1	3			1
		NSIZWA FRIDA		5	5	26	48	20	64	47	63	49	51	54	59						1
ALEXANDER BBD KELLY	2019	LANDRE MAX	10.13	118	107	105	97	103	105	113	103	103	113	98	104	10	1	7			5
		ELEVATION KELLY		5	5	29	52	26	66	52	65	53	55	57	62						1

