

Boerboel Genetic Evaluation

SA Stud Book
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Kennel Number: 715897



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.

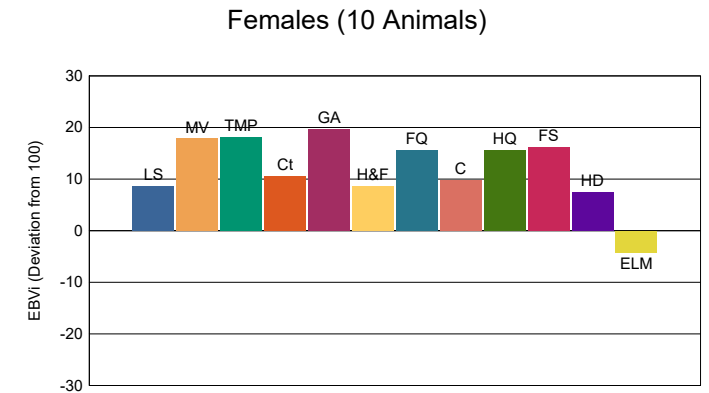
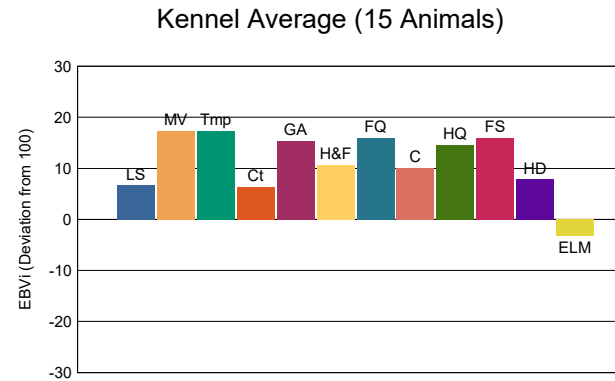
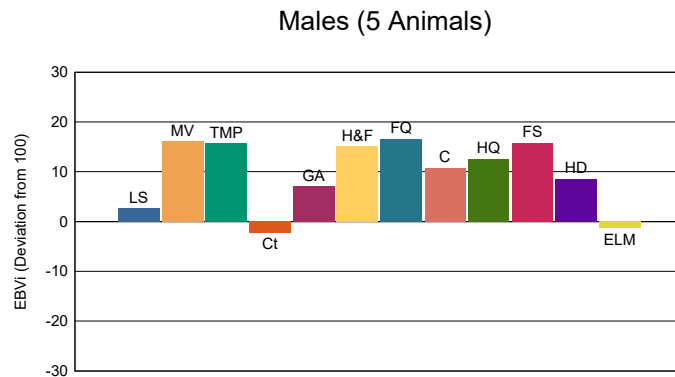
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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	103	109
Movement (Mv)	117	116	118
Temperament (Tmp)	117	116	118
Coat (Ct)	106	98	111
General Appearance	115	107	120
Head & Face (H&F)	111	115	109
Front Quarter (FQ)	116	117	116
Centre (C)	110	111	110
Hind Quarter (HQ)	115	113	116
Final Score (FS)	116	116	116
Hip Health (HH)	108	109	107
Elbow Health (ELM)	97	99	96

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.

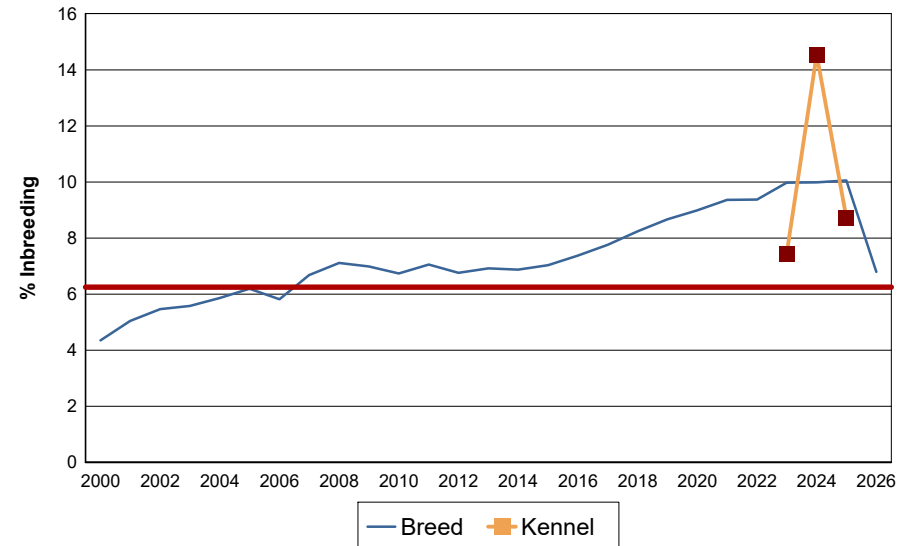
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

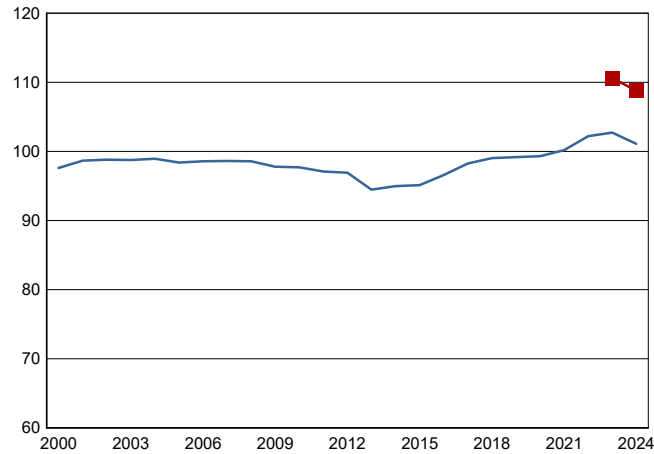


Inbreeding Levels

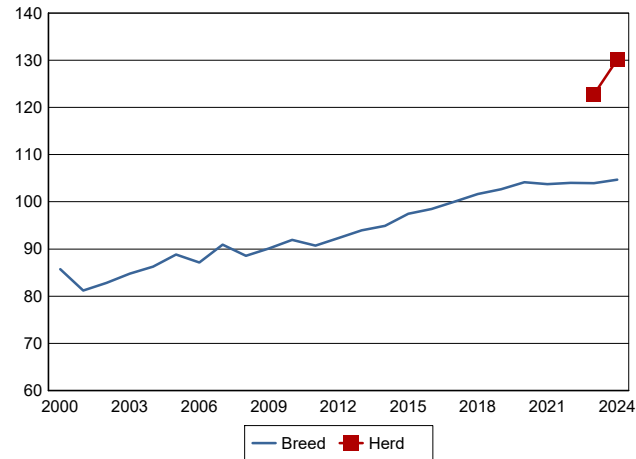
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	15	49007	5	25141	10	23857	10	3371	9	6287
Average Inbreeding	10.80	8.49	12.51	8.46	9.95	8.53	10.27	8.01	11.11	8.00
Number inbred	15	48727	5	24990	10	23728	10	24990	9	23728
Number >6.25% Inbr.	15	30600	5	15537	10	15058	9	15537	8	15058

Genetic Trends

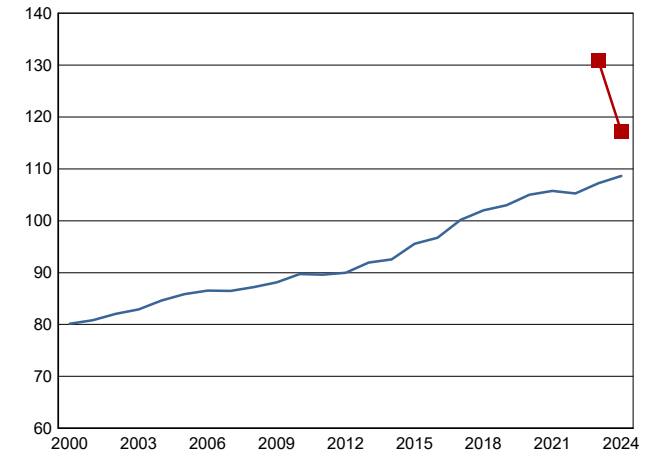
Litter Size



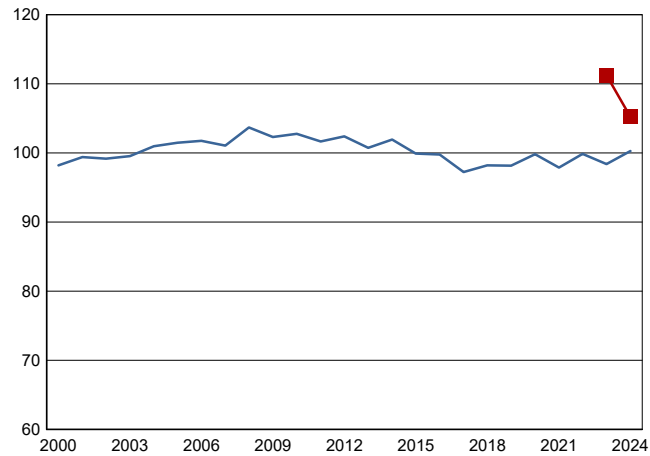
Movement



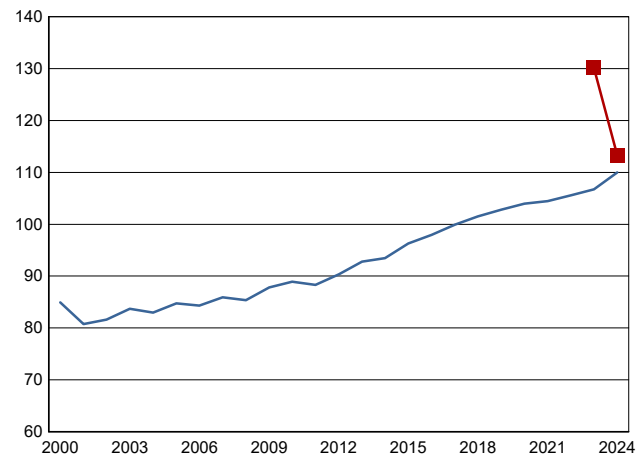
Temperament



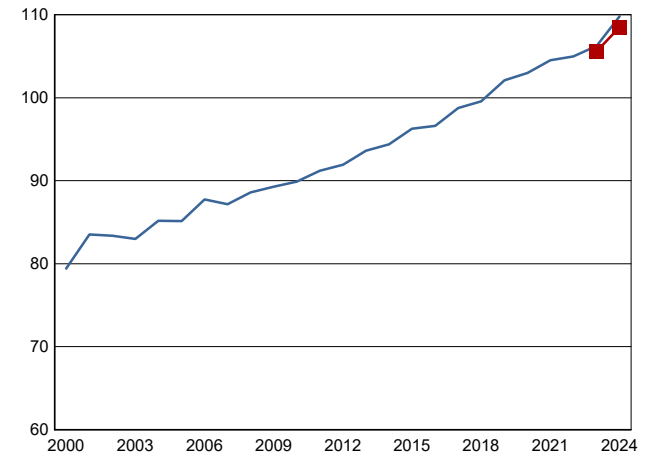
Coat



General Appearance

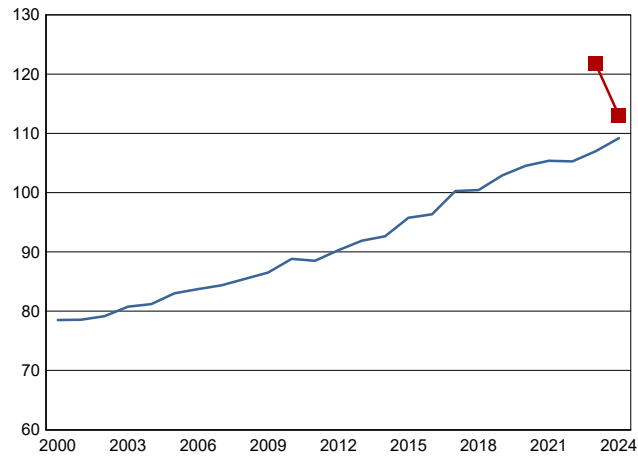


Head & Face

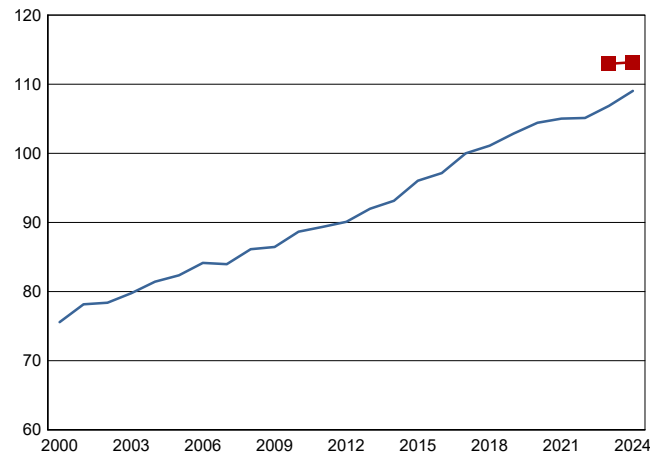


Genetic Trends

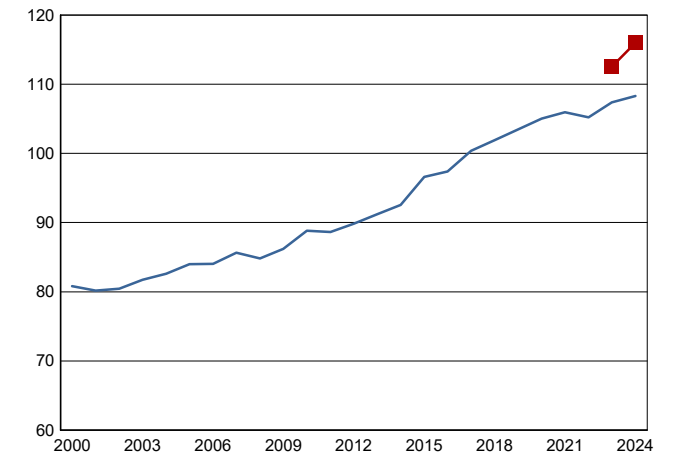
Front Quarter



Centre

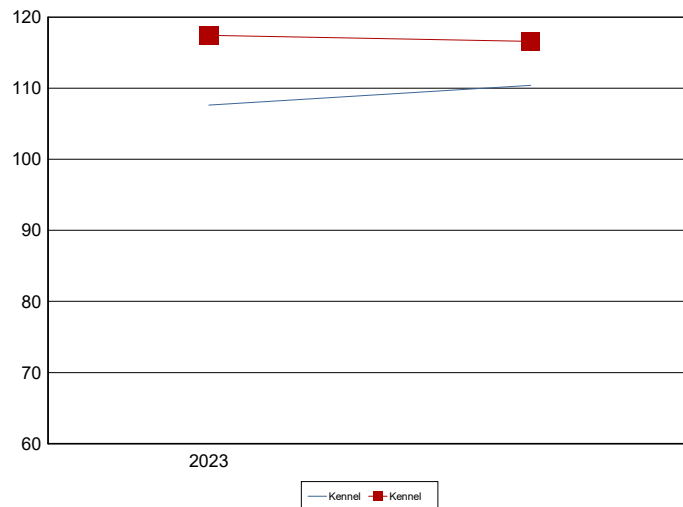


Hind Quarter

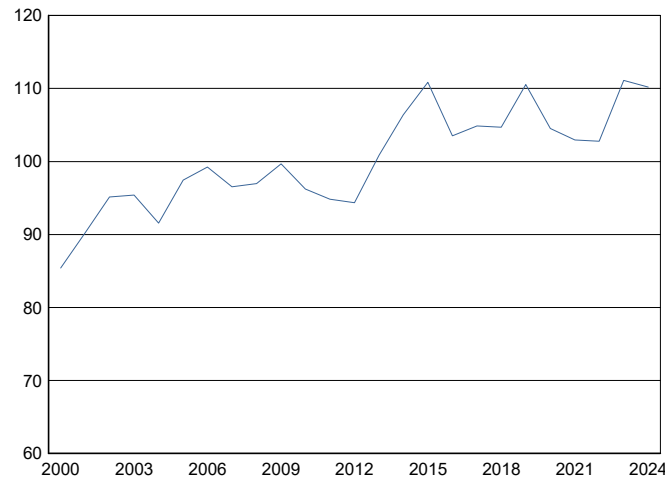


Final Score & Health Traits

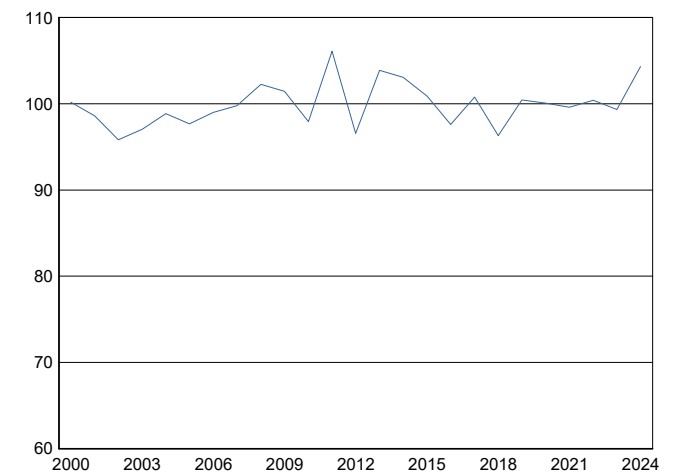
Final Score



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	
RAZOR ZIGGY		CDH JOKER	11.10	109	103	99	118	113	98	78	117	111	101	121	115						
	2021	MASTERMINDS ALASKA		5	5	5	41	5	59	40	58	42	44	47	53						
LAMA KOLISI		ROKAFELA KABAKA	8.63	102	93	92	84	118	88	144	139	126	121	102	123	3	1				
	2022	MIDDELPOS BBD MOLLY		5	5	5	40	5	59	39	57	41	43	46	52						
MASTERMINDS BONZO		JAMBAL KABAMBA	13.75	115	103	105	119	109	90	80	102	117	106	110	106						
	2024	LOTTER SISI II		5	5	5	44	5	63	44	62	45	48	51	57						
TCA DYNAMITE		MASTERMINDS SPOOK	14.54	109	97	109	130	117	105	113	109	113	113	116	117						
	2024	RAZOR NIKITA		5	5	5	36	5	57	35	56	37	40	44	50						
TCA TANK		MASTERMINDS SPOOK	14.54	109	97	109	130	121	108	120	110	117	113	114	118						
	2024	RAZOR NIKITA		5	5	5	25	5	43	24	42	26	29	32	38						

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	
RAZOR ROXY		LOTTER COVID	7.41	108	99	119	131	124	112	129	107	120	109	117	118	9	2	2			
	2022	RAINAISANCE RAZIA		5	5	15	40	5	60	39	58	41	44	47	53						
RAZOR NIKITA		LOTTER COVID	7.41	108	99	108	121	108	122	114	99	107	100	108	108	3	1	1			
	2022	RAINAISANCE RAZIA		5	5	14	39	5	59	38	57	40	42	46	52						
FORTITUDE PRINCESS		HORIZON KASPER	16.65	101	100	106	119	113	112	105	110	109	103	112	113						
	2023	MASTERMINDS NAOMI		5	5	5	10	5	35	5	34	12	18	22	29						
LOTTER KATANA		JAMBAL CHAKA	12.37	117	96	92	94	111	109	115	124	119	129	126	126						
	2023	LOTTER GRACE		5	5	5	42	5	61	42	60	43	46	49	55						
TCA KAI		TWILIGHT BBD RADAR	7.44	100	98	111	120	123	112	121	102	115	109	109	112						
	2023	RAZOR ROXY		5	5	5	28	5	44	27	43	29	31	34	39						
TCA LUNA		TWILIGHT BBD RADAR	7.44	100	98	111	127	132	110	128	99	119	112	116	115						
	2023	RAZOR ROXY		5	5	5	39	5	59	38	58	40	43	46	52						
TCA 992003000399196		KADIMA CHARLIE	8.72	111	91	116	123	120	109	121	110	118	109	119	118						
	2025	RAZOR ROXY		5	5	5	19	5	35	18	34	20	23	25	30						
TCA NALA I		KADIMA CHARLIE	8.72	111	91	116	123	120	109	121	110	118	109	119	118						
	2025	RAZOR ROXY		5	5	5	19	5	35	18	34	20	23	25	30						
TCA BAMBLES I		KADIMA CHARLIE	8.72	111	91	116	123	120	109	121	110	118	109	119	118						
	2025	RAZOR ROXY		5	5	5	19	5	35	18	34	20	23	25	30						
BRED NALA 10		KLEIN SANDFONTEIN MAJOR TOM	14.62	108	96	92	98	111	104		115	113	109	114	115						
	2025	KLEIN SANDFONTEIN ELLA		5	5	5	32	5	47		47	33	35	38	43						

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	
TWILIGHT BBD RADAR		QUREDU VAALJAPIE	3.74	91	97	103	109	121	113	112	97	111	108	101	106	13	4	5			
	2017	TIEKA ADELE		5	5	6	51	22	70	51	68	52	55	58	63			4			
CDH JOKER		CDH KAROO	14.14	113	107	101	108	113	89	91	109	114	114	122	114	40	7	6			3
	2018	CDH MIA		5	5	41	57	37	68	57	67	58	59	61	64			6			2
ROKAFELA KABAKA		ROKAFELA MAX	7.35	89	85	91	89	123	83	136	118	113	116	108	115	9	1	3			2
	2019	TARGUS HARRIET		5	5	21	45	18	58	44	58	45	47	49	54			2			1
LOTTER COVID		LOTTER LEO II	11.79	108	94	108	129	116	100	100	96	108	99	113	106	16	4	3			4
	2020	JAMBAL ELISHA-LOTTER		5	5	18	42	11	57	41	56	43	45	47	52			2			1
MASTERMINDS SPOOK		JAMBAL SEKEKAMA	11.79	109	94	110	139	134	95	125	120	126	125	121	128	24	5	9			5
	2020	LOTTER TESSA II		5	5	16	56	26	73	55	72	57	60	62	68			5			2
KLEIN SANDFONTEIN MAJOR TOM		KLEIN SANDFONTEIN RASPUTIN	12.42	104	102	93	86	105	94	119	107	107	101	98	102	58	8	11			8
	2020	MES O' HARA		5	5	36	57	25	74	56	73	58	60	63	68			9			2
JAMBAL KABAMBA		JAMBAL LEONIDAS	10.87	122	113	102	113	114	82	102	122	123	114	118	119	16		7			2
	2021	JAMBAL DOUBLE TROUBLE		5	5	20	58	31	73	57	72	59	61	64	68			5			2
JAMBAL CHAKA		JAMBAL BUKS	14.33	121	97	86	72	103	104	116	132	112	124	121	124	25	4	8			2
	2021	JAMBAL KITTA		5	5	26	55	27	72	55	71	56	59	61	66			5			2
HORIZON KASPER		RAINAISANCE BULLETJIE	8.22	102	100	103	125	114	122	111	114	108	103	117	118	4					
	2022	MASTERMINDS ROYAL		5	5	5	45	5	63	43	62	46	48	51	57						
KADIMA CHARLIE		KADIMA DRAGANOV	8.05	114	82	114	115	116	106	113	114	117	109	120	118	4	1				
	2022	AFRIKA PERAZZI		5	5	24	37	10	48	36	47	37	39	41	44						

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	
LOTTER SISI II	2020	LOTTER LEO II	11.79	108	94	107	127	111	96	76	90	111	102	113	103	19	1	5			1
		JAMBAL ELISHA-LOTTER		5	5	25	51	20	69	50	68	52	55	58	63			5			1
MASTERMINDS ALASKA	2020	LOTTER SUPERMAN	19.73	105	100	97	129	117	102	89	111	109	96	114	112	16	3	2			2
		MASTERMINDS PRETTY GIRL		5	5	5	35	5	54	33	52	36	39	42	48			2			1
RAINAISANCE RAZIA	2020	RAINAISANCE MEESTER	5.24	108	105	113	116	110	135	127	114	120	112	111	120	9	2	2			2
		TAILORED ECHO		5	5	26	45	5	64	44	63	46	49	52	58			1			1
MIDDELPOS BBD MOLLY	2021	AFRIKA JACK 3	8.40	115	101	93	94	113	88	135	136	126	120	104	122	9	1	3			2
		MIDDELPOS BBD MILLY 5		5	14	11	46	16	63	45	62	47	49	52	57			2			1
LOTTER GRACE	2021	MASTERMINDS KING KAIRO	11.56	112	95	99	121	120	114	111	122	124	125	125	128	8	1	3			1
		JAMBAL ELISHA-LOTTER		5	5	10	43	12	58	42	57	43	46	48	53			3			1
RAZOR ROXY	2022	LOTTER COVID	7.41	108	99	119	131	124	112	129	107	120	109	117	118	9	2	2			
		RAINAISANCE RAZIA		5	5	15	40	5	60	39	58	41	44	47	53			2			
RAZOR NIKITA	2022	LOTTER COVID	7.41	108	99	108	121	108	122	114	99	107	100	108	108	3	1	1			
		RAINAISANCE RAZIA		5	5	14	39	5	59	38	57	40	42	46	52			1			
KLEIN SANDFONTEIN ELLA	2022	MES RETIEF	12.68	112	91	91	110	116	114	125	123	119	117	129	127	11	2	1			1
		KLEIN SANDFONTEIN NEVAEH		5	5	39	50	23	67	50	66	51	53	56	61			1			1
MASTERMINDS NAOMI	2022	MASTERMINDS PRETTY BOY	15.81	100	100	108	112	112	102	99	107	111	103	107	109	9	1	2			
		MASTERMINDS CUPCAKE		5	5	5	41	5	62	40	60	43	46	49	55			1			

