

Boerboel Genetic Evaluation

SA Stud Book
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EXT BRACKENHURST
ALBERTON
1448



Kennel Number: 698854



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.

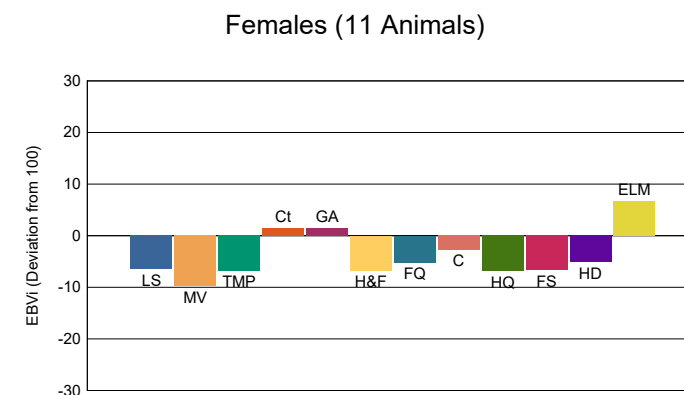
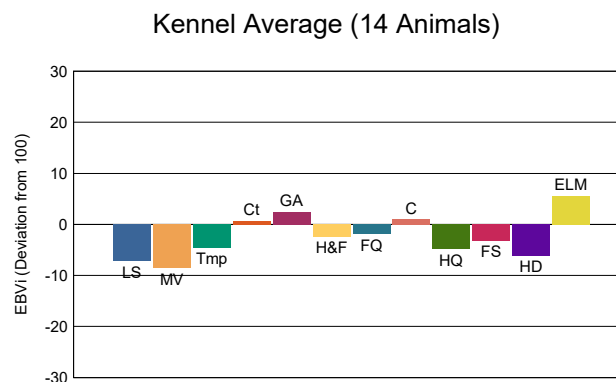
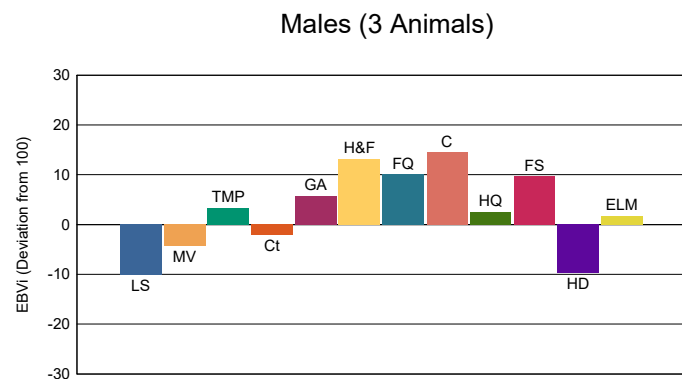
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	93	90	94
Movement (Mv)	91	96	90
Temperament (Tmp)	95	103	93
Coat (Ct)	101	98	102
General Appearance	102	106	101
Head & Face (H&F)	98	113	93
Front Quarter (FQ)	98	110	95
Centre (C)	101	115	97
Hind Quarter (HQ)	95	103	93
Final Score (FS)	97	110	93
Hip Health (HH)	94	90	95
Elbow Health (ELM)	106	102	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.

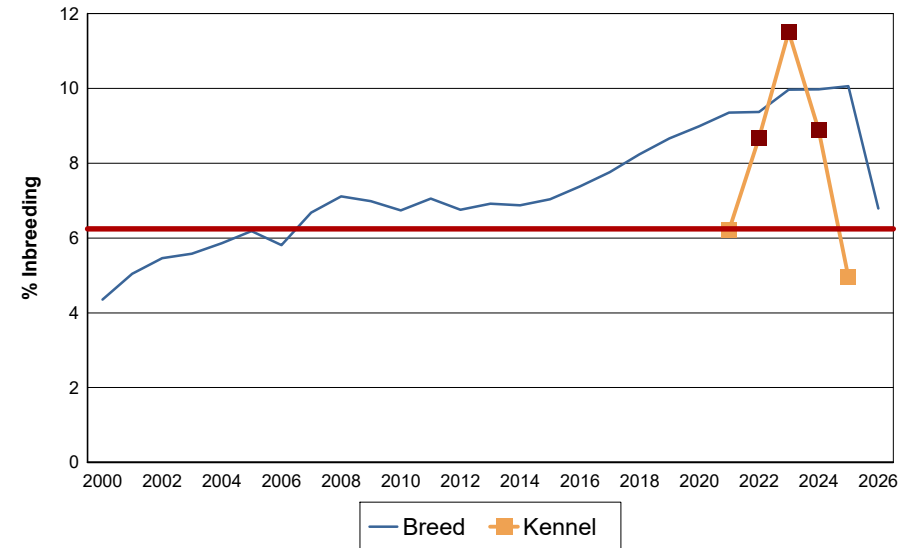
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

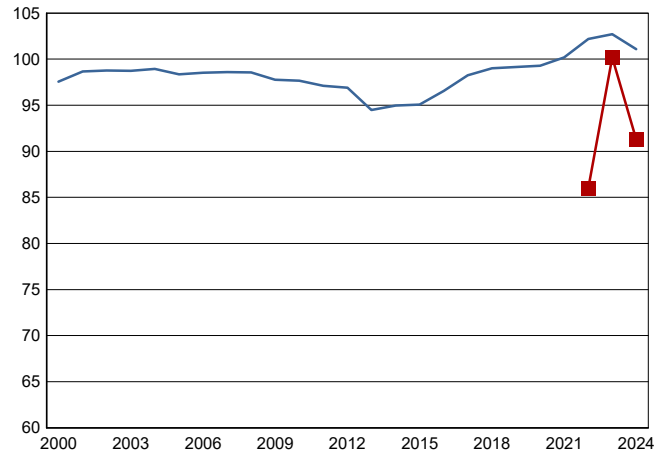


Inbreeding Levels

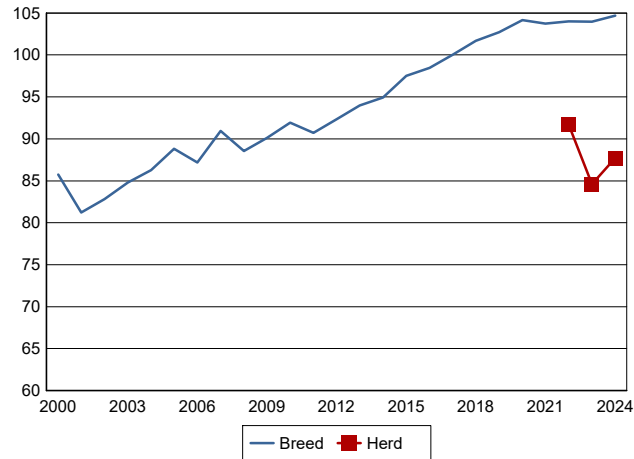
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	14	49007	3	25141	11	23857	7	3371	7	6287
Average Inbreeding	9.32	8.49	8.25	8.46	9.61	8.53	8.17	8.01	7.51	8.00
Number inbred	14	48727	3	24990	11	23728	7	24990	7	23728
Number >6.25% Inbr.	12	30600	3	15537	9	15058	5	15537	4	15058

Genetic Trends

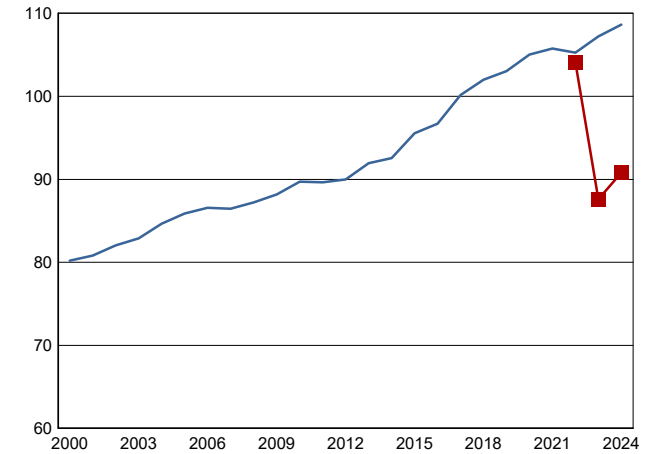
Litter Size



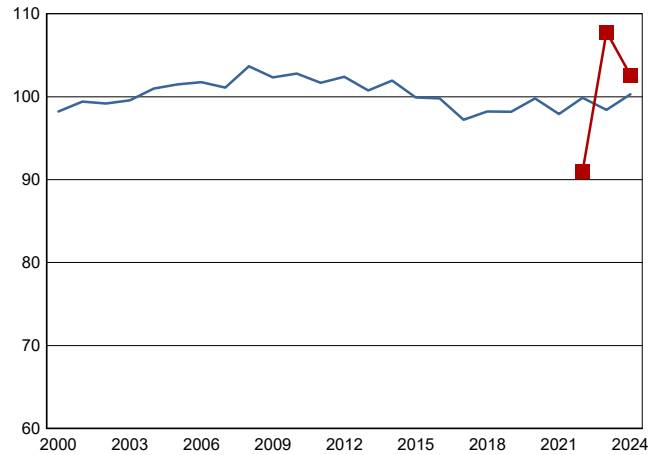
Movement



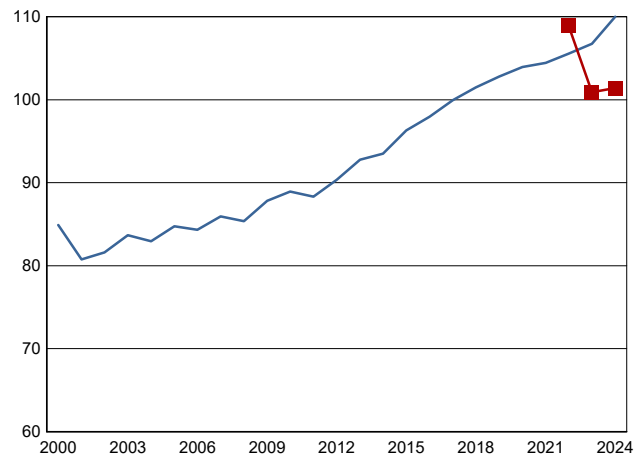
Temperament



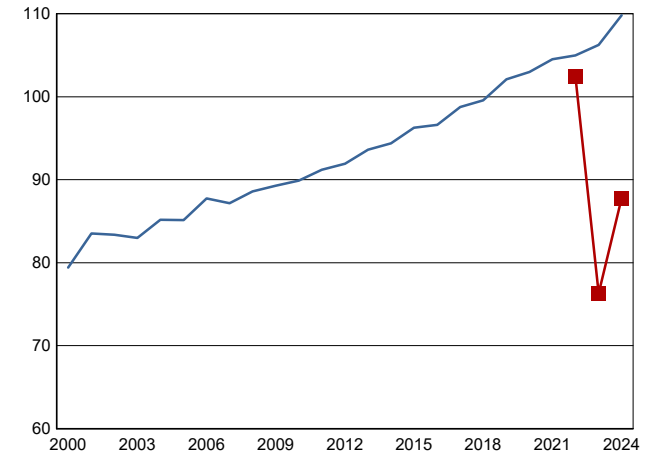
Coat



General Appearance

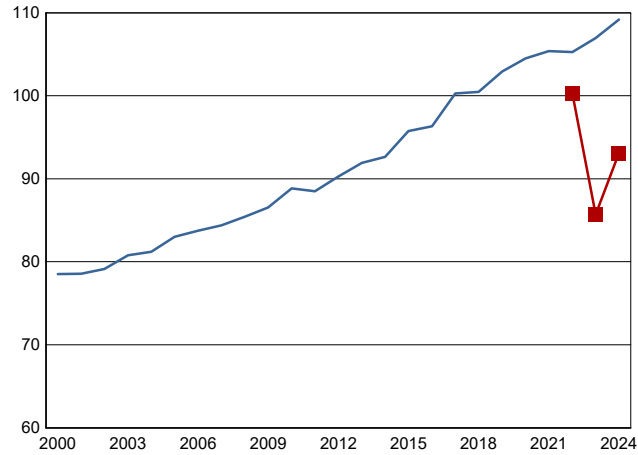


Head & Face

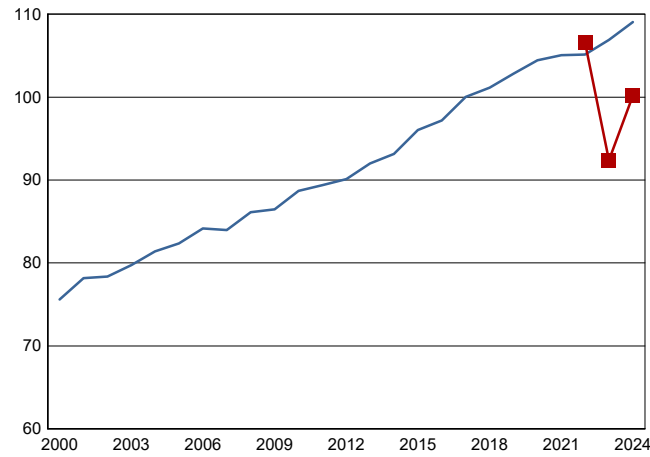


Genetic Trends

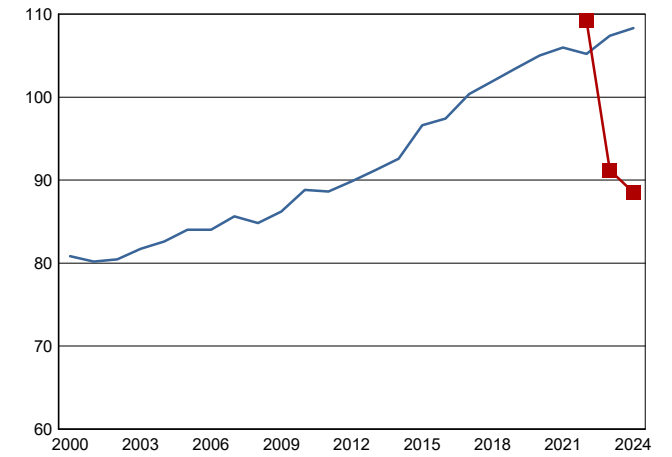
Front Quarter



Centre

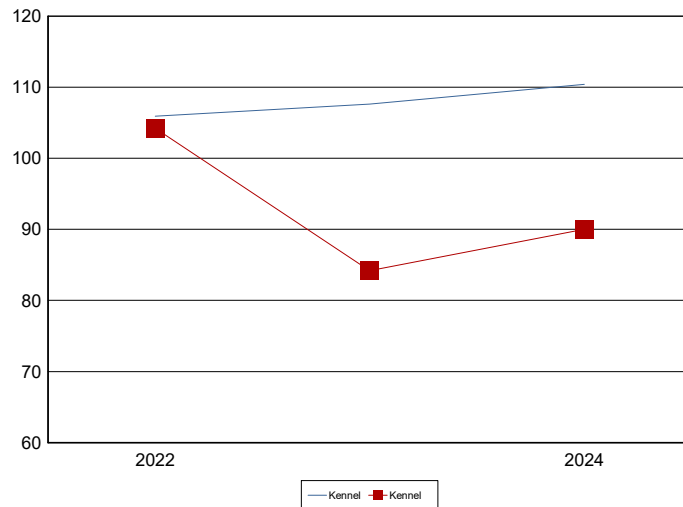


Hind Quarter

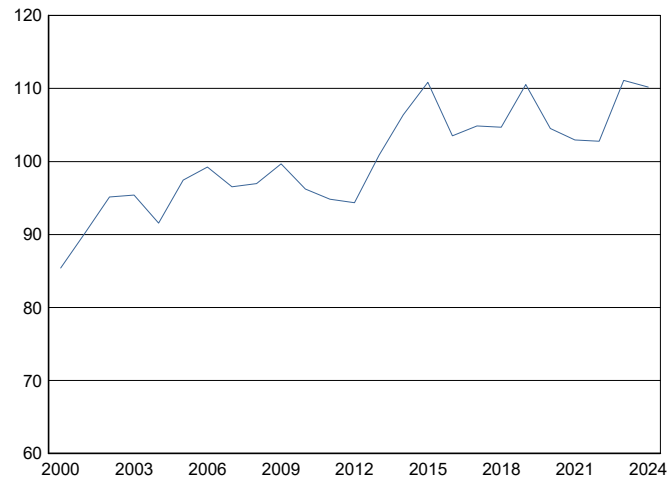


Final Score & Health Traits

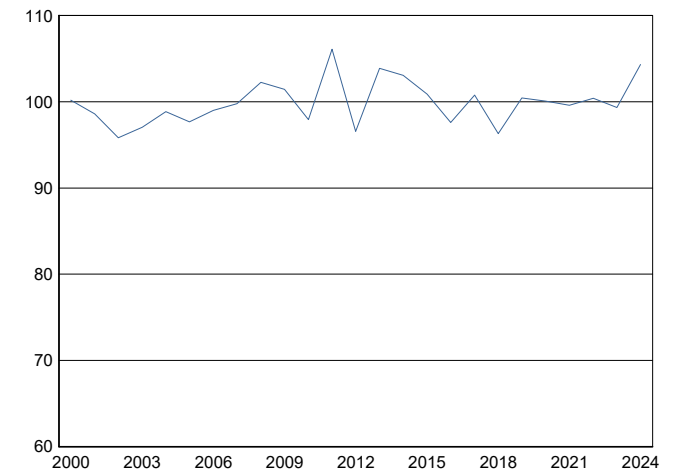
Final Score



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	
KINGSTON TJ ROMAN		KADOS TROMPIE	8.33	102	94	95	87	122	100	124	130	127	130	125	129						
	2023	SA BRIGHT FANTA		5	5	16	49	21	66	48	65	50	52	55	60						
BRACKEN STHOOLKAY		MES THYSON I	8.20	84	106	88	100	94	97	97	105	102	107	92	100						
	2024	CAVIN REGAL PAIGE		5	5	5	30	5	44	29	43	31	33	35	40						
BRACKEN SAMAZ JOJO		MES THYSON I	8.20	84	106	88	100	94	97	97	105	102	107	92	100						
	2024	CAVIN REGAL PAIGE		5	5	5	30	5	44	29	43	31	33	35	40						

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 NIKITA	2019	MAKARIOS BBD AJACKS	7.28	103	106	109	78	85	105	99	84	91	87	86	84	22	1	1			
		SA EXTREME NIKITA		5	5	33	53	29	68	53	67	54	56	58	63			1			
CAVIN REGAL PAIGE	2021	CAVIN REGAL MACBETH	6.19	88	109	91	92	93	102	106	102	104	104	84	96	13	3	1			
		TOKARA COCO CHANEL		5	5	33	48	22	65	48	64	49	52	54	60			1			
BOSTU WIDNEY	2021	BOSTU ZAZU	15.31	81	96	99	107	103	102	101	98	96	90	99	98	4	1				
		BOSTU ASHANTI		6	32	38	57	34	70	56	69	58	59	61	65						
BOSTU AZANIA	2021	BOSTU ZAZU	11.28	92	104	53	105	112	87	117	112	98	110	114	111	4	1				
		KAMMO BBD FIELA I		5	25	40	53	29	68	52	67	54	56	58	63						
BRACKEN SACRET	2023	BOSTU CARACAL KAT	11.07	102	112	100	81	87	104	98	79	87	92	89	84						
		CAVIN REGAL NIKITA		5	5	18	35	5	48	35	47	36	38	40	44						
BRACKEN SECRETARIAT	2023	BOSTU CARACAL KAT	11.07	102	112	100	85	88	108	101	76	86	92	91	84						
		CAVIN REGAL NIKITA		5	5	18	45	15	63	44	62	46	48	51	57						
BRACKEN LIZZY	2023	BOSTU CARACAL KAT	11.07	102	112	100	81	87	104	98	79	87	92	89	84						
		CAVIN REGAL NIKITA		5	5	18	35	5	48	35	47	36	38	40	44						
BRACKEN MONNA	2023	BOSTU CARACAL KAT	11.07	102	112	100	81	87	104	98	79	87	92	89	84						
		CAVIN REGAL NIKITA		5	5	18	35	5	48	35	47	36	38	40	44						
BRACKEN SAMAZ KOKO	2024	MES THYSON I	8.20	84	106	88	100	94	97	97	105	102	107	92	100						
		CAVIN REGAL PAIGE		5	5	5	30	5	44	29	43	31	33	35	40						
BRACKEN BLACK PEARL	2024	MES THYSON I	8.20	84	106	88	100	94	97	97	105	102	107	92	100						
		CAVIN REGAL PAIGE		5	5	5	30	5	44	29	43	31	33	35	40						
BRACKEN NIKITA	2025	SA BRIGHT DIEGO	4.96	106	98	100	84	96	107	106	107	105	99	99	102						
		CAVIN REGAL NIKITA		5	5	5	32	5	46	32	45	33	35	37	42						

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	
MAKARIOS BBD AJACKS		AFRIKA SAKABUKA	5.16	107	110	108	87	85	84	101	99	105	98	98	95	51	12	13		14
	2014	MAKARIOS BBD BLOMMETJIE		13	22	51	62	39	74	61	74	62	64	66	70		13			2
BOSTU ZAZU		MES ASKAM	7.38	76	91	37	101	116	83	121	121	105	112	110	114	175	29	52	10	11
	2016	MES SHAKIRA		47	62	64	80	61	89	80	89	81	82	84	87		36			5
CAVIN REGAL MACBETH		MAKARIOS BBD AJACKS	7.28	103	106	103	77	95	90	110	89	100	93	84	87	28	7	10		3
	2019	SA EXTREME NIKITA		5	5	34	61	35	76	59	75	62	64	66	71		8			2
BOSTU CARACAL KAT		CABARET STRAAT-KAT	9.29	100	119	91	83	89	104	97	74	82	97	93	84	20	2	2		
	2020	CDH MICCO		12	24	43	58	36	72	58	71	59	61	63	67		2			
KADOS TROMPIE		TARGUS BOM BOEL	8.44	101	105	95	90	114	104	115	112	115	120	120	117	70	16	12		3
	2020	MES LULU V		5	5	40	66	43	78	64	78	66	68	70	74		7			2
SA BRIGHT DIEGO		HERBERG RUGER	5.94	108	91	91	90	106	110	112	130	119	112	112	120	24	4	3		
	2021	SA BRIGHT TYLER		5	5	8	52	24	69	52	68	53	56	58	64		2			
MES THYSON I		MES JOHN SNOW	13.68	81	102	84	108	95	92	88	108	100	110	99	103	31	3	2		
	2021	MES ASKARI		5	5	10	50	20	67	50	66	51	54	56	62		2			

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	
SA EXTREME NIKITA	2013	CABARET TYLO	5.58	99	101	102	66	88	111	102	81	84	80	69	76	43	5	15			12
		NEL`S BOERBOELS SANDY		5	5	41	63	38	76	63	75	64	66	68	72			14			1
TOKARA COCO CHANEL	2014	SPITSVUUR BBD TOKARA DRIFTER	5.00	72	113	92	91	87	110	99	95	96	105	88	94	15	3	4			2
		MIDDELPOS BBD ANJA		16	5	50	58	37	72	58	71	59	61	63	67			4			2
KAMMO BBD FIELA I	2018	TARGUS MAKAROV	9.91	107	117	80	115	112	102	115	108	100	114	119	114	14	3	3	2	2	3
		KAMMO BBD BERSA		5	29	49	55	30	71	54	70	56	58	60	65			3			1
CAVIN REGAL NIKITA	2019	MAKARIOS BBD AJACKS	7.28	103	106	109	78	85	105	99	84	91	87	86	84	22	1	1			
		SA EXTREME NIKITA		5	5	33	53	29	68	53	67	54	56	58	63			1			
BOSTU ASHANTI	2019	CABARET PAVAROTTI	12.13	87	102	158	115	95	108	80	72	86	77	106	85	33	3	20	1	2	7
		MES ALUSHKA		43	59	59	71	47	83	70	82	72	74	76	79			15			1
SA BRIGHT FANTA	2021	ELEVATION GHETTO-ROUGH	6.45	103	83	95	102	126	83	123	126	122	122	114	122	5	1	2			
		VOLSPOED ZENOBIA		5	16	33	56	30	71	55	70	56	59	61	66			2			
CAVIN REGAL PAIGE	2021	CAVIN REGAL MACBETH	6.19	88	109	91	92	93	102	106	102	104	104	84	96	13	3	1			
		TOKARA COCO CHANEL		5	5	33	48	22	65	48	64	49	52	54	60			1			

