

Boerboel Genetic Evaluation

SA Stud Book
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MR K.O. ANKOMAH

PO BOX 371

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CAPE COAST

GHANA



Kennel Number: 699023



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.

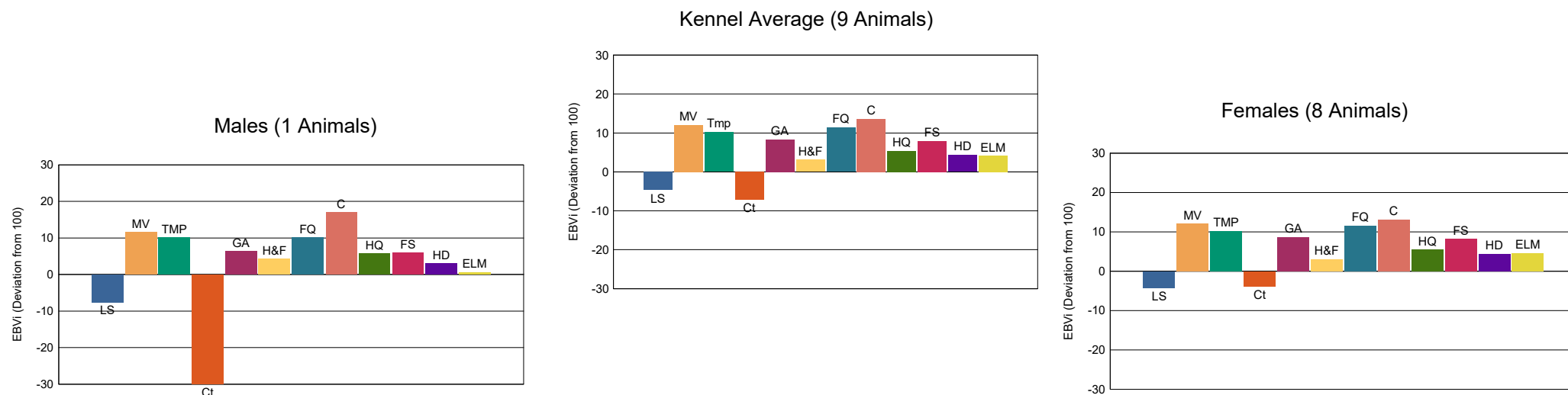
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	95	92	96
Movement (Mv)	112	112	112
Temperament (Tmp)	110	110	110
Coat (Ct)	93	67	96
General Appearance	108	106	109
Head & Face (H&F)	103	104	103
Front Quarter (FQ)	111	110	112
Centre (C)	114	117	113
Hind Quarter (HQ)	105	106	105
Final Score (FS)	108	106	108
Hip Health (HH)	104	103	104
Elbow Health (ELM)	104	101	105

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.

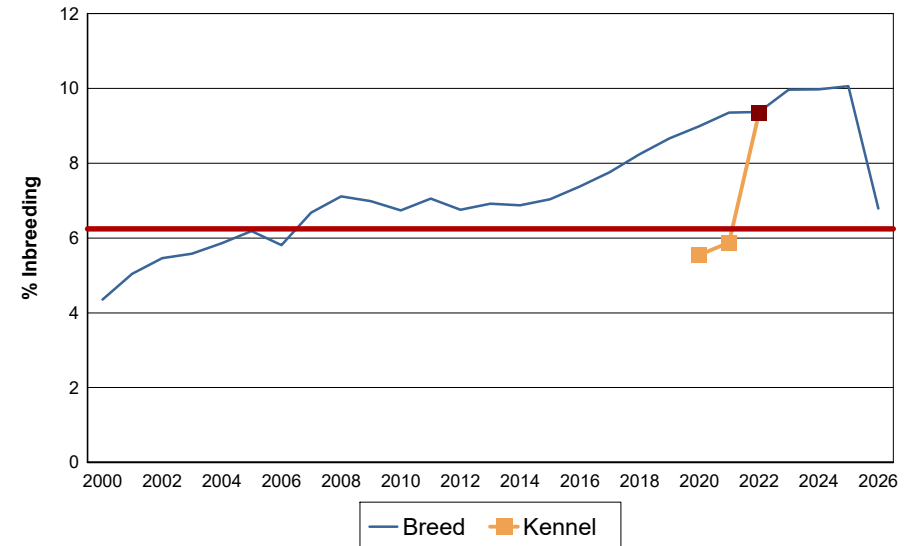
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

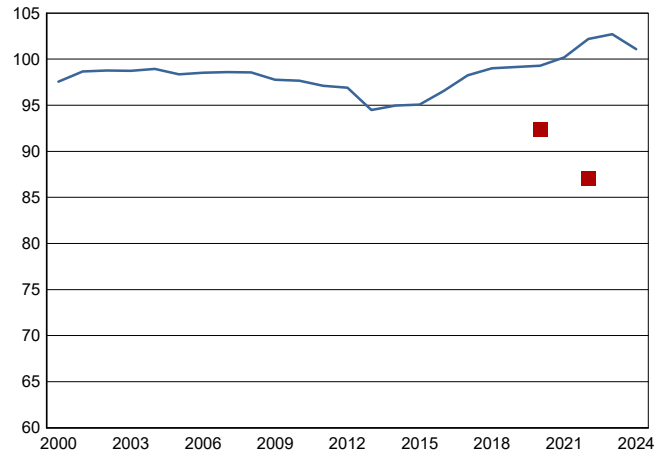


Inbreeding Levels

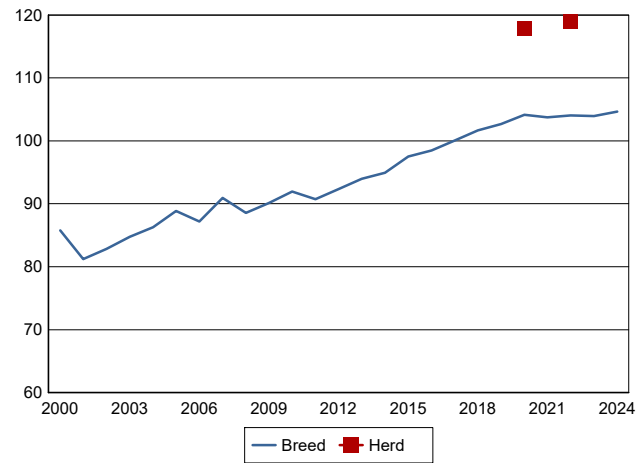
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	9	49007	1	25141	8	23857	6	3371	7	6287
Average Inbreeding	5.80	8.49	5.55	8.46	5.83	8.53	11.85	8.01	5.95	8.00
Number inbred	9	48727	1	24990	8	23728	6	24990	7	23728
Number >6.25% Inbr.	3	30600		15537	3	15058	6	15537	2	15058

Genetic Trends

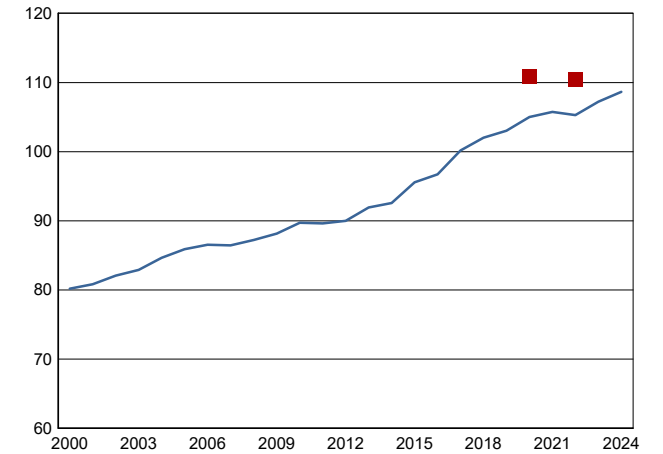
Litter Size



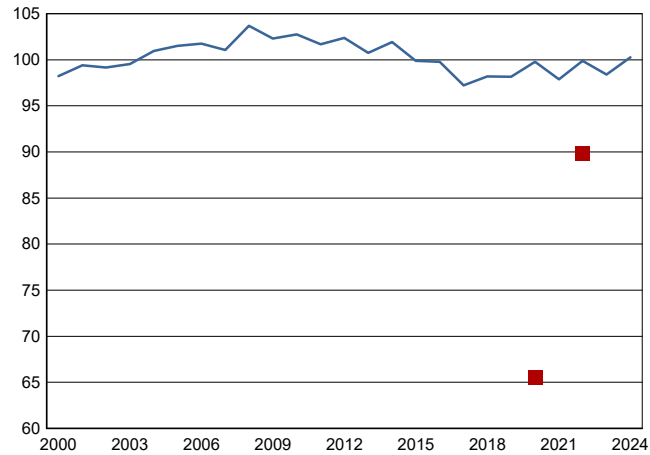
Movement



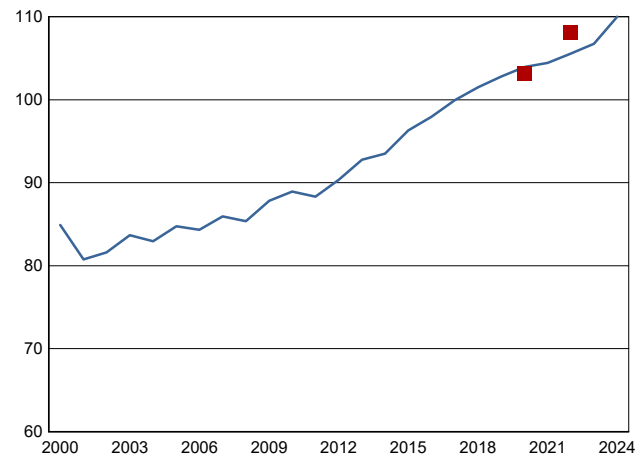
Temperament



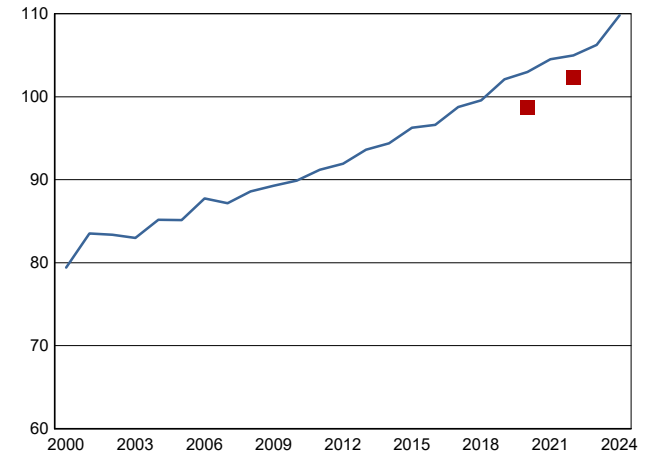
Coat



General Appearance

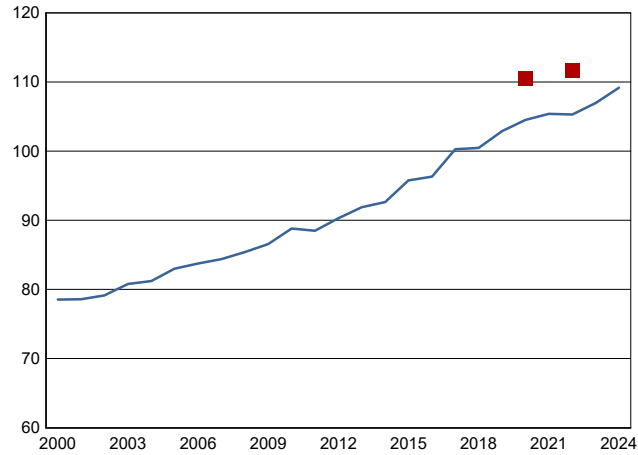


Head & Face

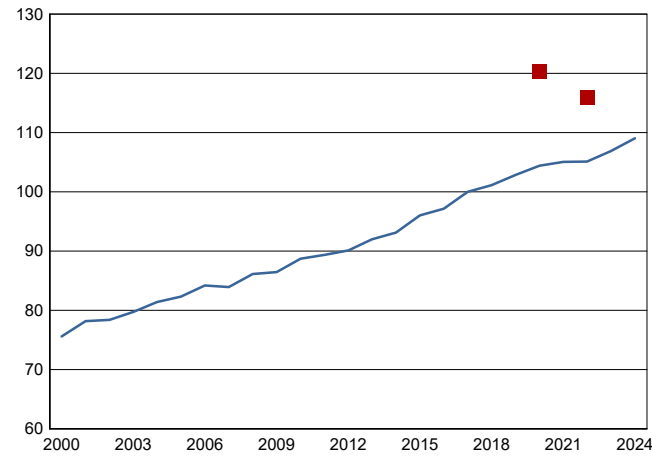


Genetic Trends

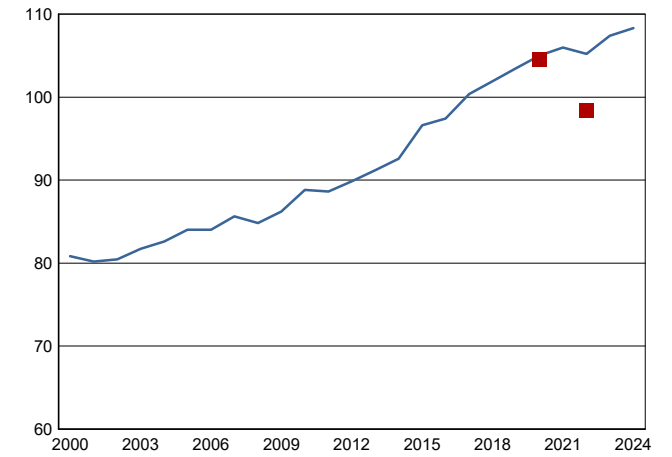
Front Quarter



Centre

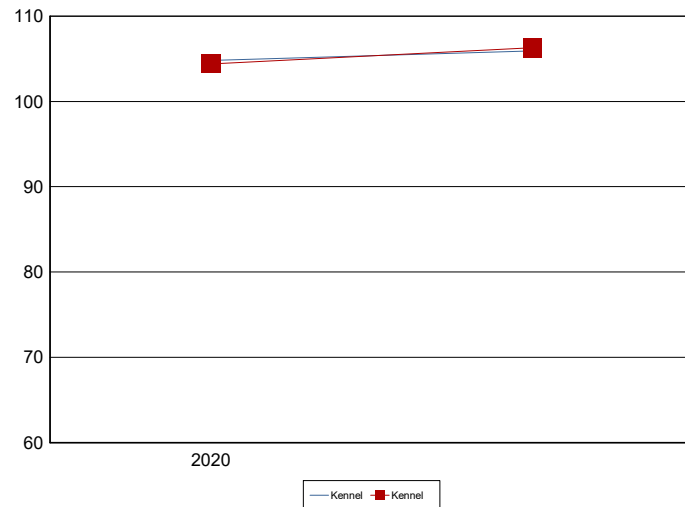


Hind Quarter

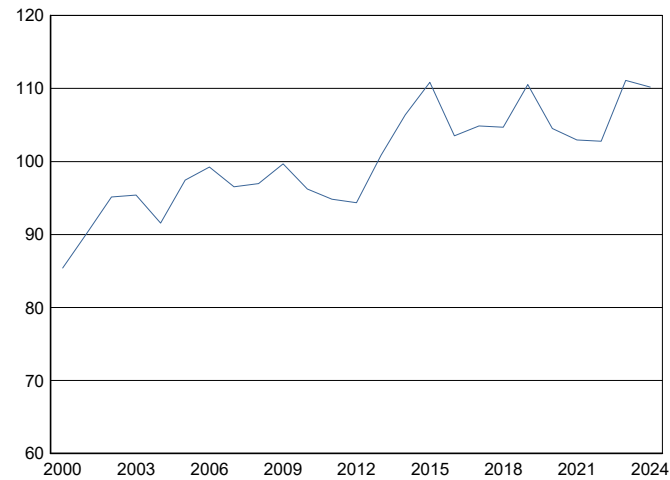


Final Score & Health Traits

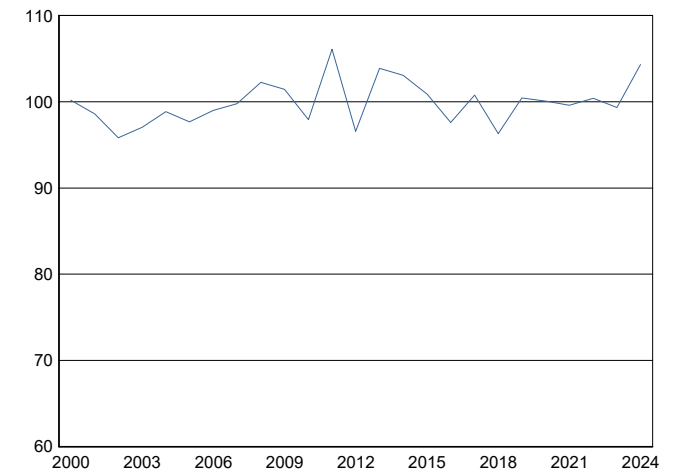
Final Score



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	
ANKOKEEN SKYY	STEPHANO GRANDSLAM		5.55	103	101	92	112	110	67	106	104	110	117	106	106						
	2020	BIGSEL FAITH		5	5	5	29	5	44	28	43	29	32	34	39						

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	
BIGSEL FAITH		MIDDELPOS BBD ROCKY	6.43	112	96	90	120	117	76	111	97	118	125	110	109	16	3	2 2			1
	2018	ROCKVIEW PHIL		5	5	18	47	23	65	47	64	48	51	53	59						1
ROOFTOP FAVOUR		MIDDELPOS BBD ROCKY	6.16	122	107	94	123	122	105	123	115	123	120	105	119	3	1				
	2019	ABSOLUTE LANUSHKA		5	5	25	47	23	64	46	62	47	50	52	58						
ROCKVIEW XENA		KLEIN SANDFONTEIN DEJAVU	5.57	110	115	100	101	114	80	112	96	109	116	112	106	3	1				
	2019	MIDDELPOS BBD SALLY 6		5	5	35	48	19	65	47	64	49	51	54	59						
LESNAR MOLLY		GWAMZENI ZAKE	5.76	99	103	100	103	97	118	105	104	110	109	101	106						
	2019	MBALI ELLY		5	5	5	41	5	62	41	61	43	45	49	55						
PHILMIA NOVA		WOEKER BBD JAPIE	4.43	102	104	103	110	102	107	98	101	103	103	109	105						
	2020	KADIMA FANTASIA		5	5	29	53	29	67	52	66	54	56	58	62						
PHILMIA NINA		WOEKER BBD JAPIE	4.43	102	104	103	106	104	86	99	103	104	102	102	102						
	2020	KADIMA FANTASIA		5	5	29	53	29	67	52	66	54	56	58	62						
ANKOKEEN MAYA		BOSTU MAVARICK	6.53	97	107	89	118	114	106	113	109	114	114	101	112						
	2021	ROOFTOP FAVOUR		5	5	7	31	5	44	30	43	32	33	36	40						
ANKOKEEN EWURABA		BOSTU MAVARICK	7.33	92	101	87	116	112	91	107	100	111	116	104	107						
	2022	BIGSEL FAITH		5	5	5	32	5	45	32	45	33	35	37	41						

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	Progeny with litters		
MIDDELPOS BBD ROCKY		GROENBERG BBD RAMBO	8.21	133	110	94	119	122	91	125	106	121	123	115	117	29 7	10 8	2 2	14 4		
	2014	MIDDELPOS BBD TRIX		35	38	52	63	50	72	63	71	64	65	66	69						
KLEIN SANDFONTEIN DEJAVU		KLEIN SANDFONTEIN MATANA	8.05	97	117	84	124	128	75	115	85	115	132	114	108	55 10	12 12		11 2		
	2015	KLEIN SANDFONTEIN CHILLY		10	20	44	60	33	75	59	74	60	63	65	70						
WOEKER BBD JAPIE		MIDDELPOS BBD JOCK 1	13.41	114	104	92	123	117	92	103	107	107	108	111	111	147 26	40 29	1 1	19 6		
	2016	MIDDELPOS BBD FIELA 3		5	5	55	76	54	86	75	86	77	78	80	83						
STEPHANO GRANDSLAM		STEPHANO LUCIANO PAVAROTTI	21.70	95	105	95	103	103	57	102	111	102	109	101	103	11 2	1 1		1 1		
	2018	STEPHANO BRUMHILDA		5	5	5	48	8	67	48	66	49	52	55	61						
GWAMZENI ZAKE		AFRIKA LEONARDO	8.98	103	106	104	96	99	104	110	112	115	113	101	109	5 1	2 2				
	2018	AFRIKA BERLINDA		5	5	15	46	12	64	45	63	47	49	52	58						
BOSTU MAVARICK		TARGUS RAM	10.75	73	106	84	112	106	107	103	103	105	108	97	105	15 5	1 1				
	2019	BOSTU MOLLY		5	9	35	56	34	70	56	69	57	59	61	65						

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		Sire		Hips	Elbows	Litter Size	Move-	Tempe-r	Coat	General	Head &	Front	Centre	Hind	Final	Progeny	Litters	Progeny	Hips	Elbows	
	BYr	Dam	%	Acc.	Acc.	Acc.	ment	ament		Appear.	Face	Quarter		Quarter	Score			Kennels			
ABSOLUTE LANUSHKA		ANDERSON BBD TANK 2	9.27	111	105	84	120	111	115	107	105	107	102	97	107	4	1	4		4	
	2015	MIGHTY BBD SARABI		5	5	31	42	12	58	42	57	43	45	48	53			4	1		
ROCKVIEW PHIL		AUGUSTYN COCO	5.54	90	83	87	114	105	79	94	90	106	111	105	99	12	3	4		5	
	2015	KRYGER BBD MIDNIGHT VELVET		5	5	14	36	5	52	35	51	36	39	41	46			4	1		
MIDDELPOS BBD SALLY 6		AFRIKA LEO 5	5.84	122	112	124	80	94	101	104	108	100	91	98	99	16	3	5		3	
	2017	MIGHTY AFRIKA ZELLIE		11	27	49	56	33	70	55	69	56	58	61	65			5	1		
MBALI ELLY		MAKARIOS BBD NKOSI	4.03	95	100	96	110		122	95	96	99	100	97	100	5	1	2			
	2018	CDH WINNIE		5	5	6	40		58	39	57	40	43	46	52			2			
BIGSEL FAITH		MIDDELPOS BBD ROCKY	6.43	112	96	90	120	117	76	111	97	118	125	110	109	16	3	2		1	
	2018	ROCKVIEW PHIL		5	5	18	47	23	65	47	64	48	51	53	59			2	1		
ROOFTOP FAVOUR		MIDDELPOS BBD ROCKY	6.16	122	107	94	123	122	105	123	115	123	120	105	119	3	1				
	2019	ABSOLUTE LANUSHKA		5	5	25	47	23	64	46	62	47	50	52	58						
KADIMA FANTASIA		BREKER FANUS	4.36	91	103	114	86	86	101	88	96	98	92	99	93	22	1	7		1	
	2019	LINJO SPARKLE		5	5	40	58	33	73	58	72	59	61	64	68			5	1		

