

Boerboel Genetic Evaluation

SA Stud Book
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IBADAN
OYO
NIGERIA



Kennel Number: 676523



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.

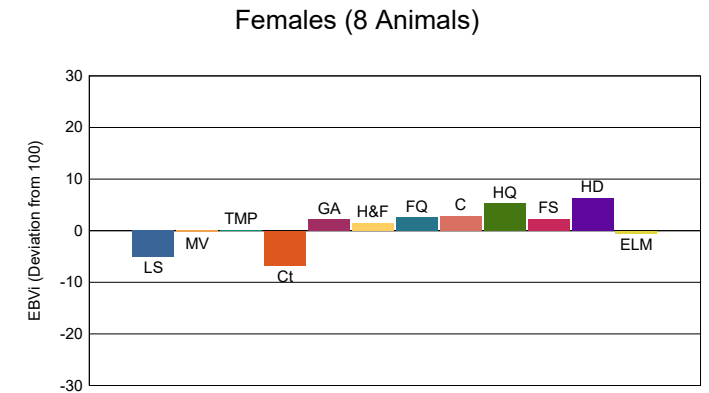
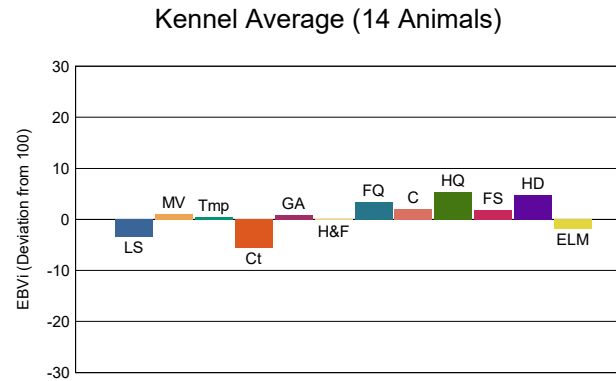
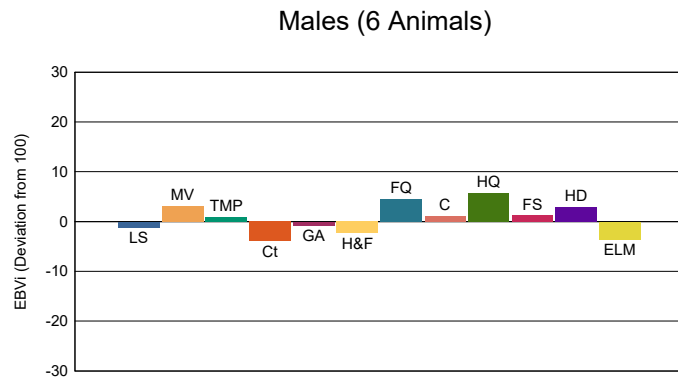
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	97	99	95
Movement (Mv)	101	103	100
Temperament (Tmp)	100	101	100
Coat (Ct)	94	96	93
General Appearance	101	99	102
Head & Face (H&F)	100	98	101
Front Quarter (FQ)	103	105	103
Centre (C)	102	101	103
Hind Quarter (HQ)	105	106	105
Final Score (FS)	102	101	102
Hip Health (HH)	105	103	106
Elbow Health (ELM)	98	96	99

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.

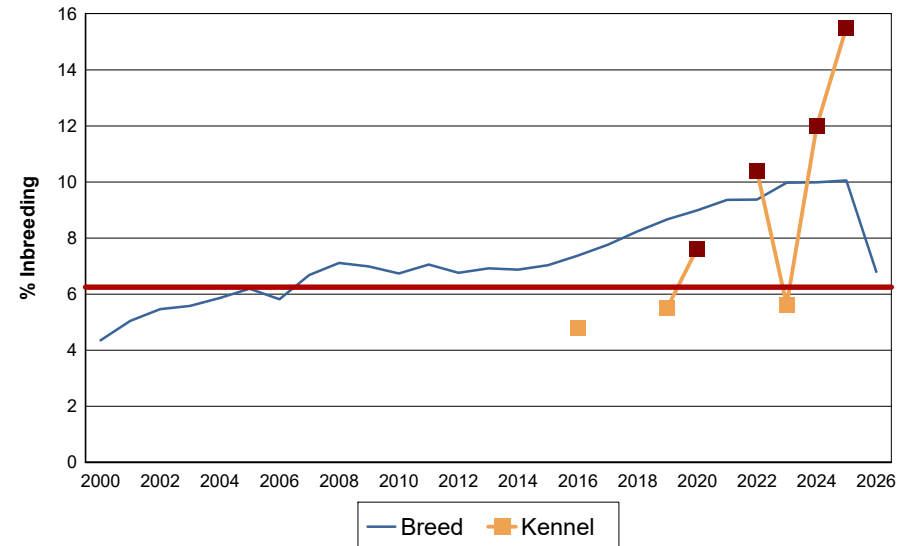
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

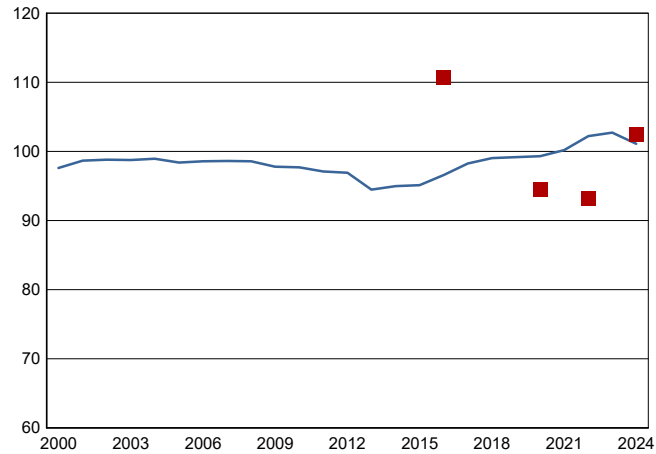


Inbreeding Levels

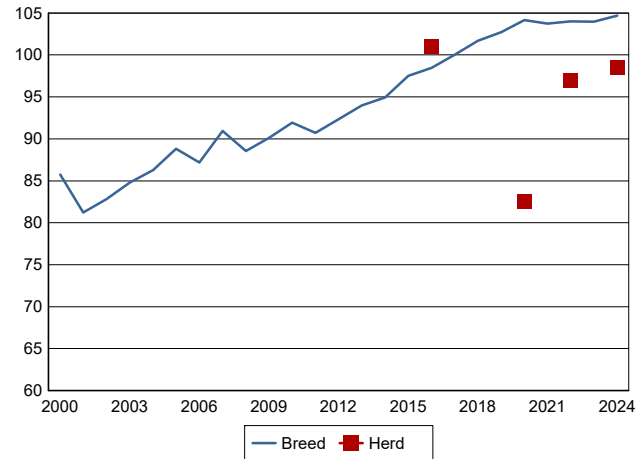
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	14	49007	6	25141	8	23857	6	3371	12	6287
Average Inbreeding	10.30	8.49	11.44	8.46	9.44	8.53	7.17	8.01	7.56	8.00
Number inbred	14	48727	6	24990	8	23728	6	24990	12	23728
Number >6.25% Inbr.	13	30600	5	15537	8	15058	3	15537	11	15058

Genetic Trends

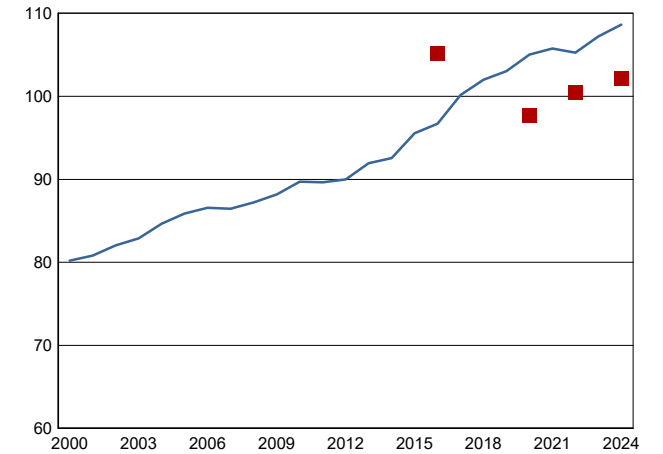
Litter Size



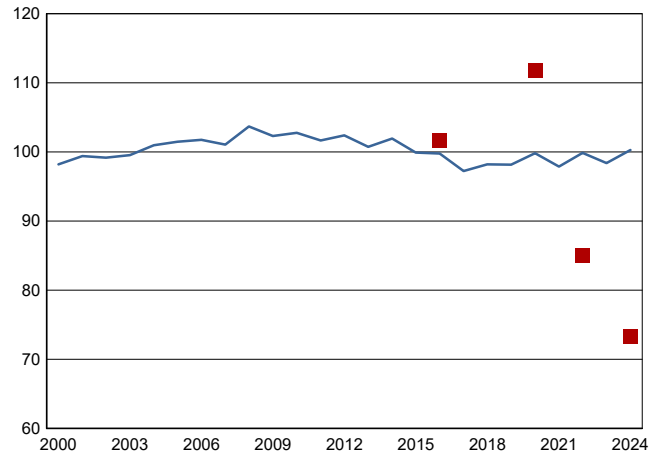
Movement



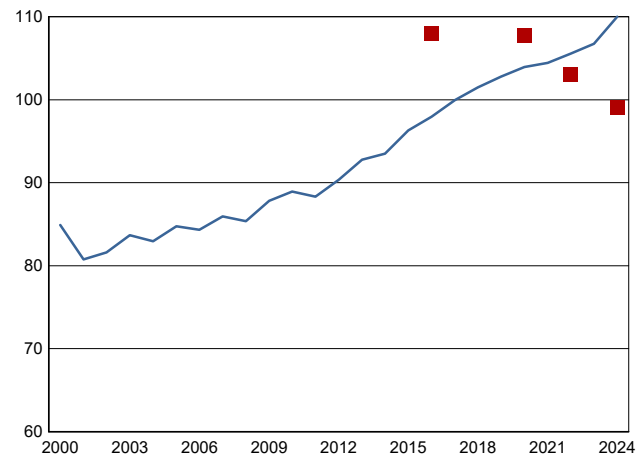
Temperament



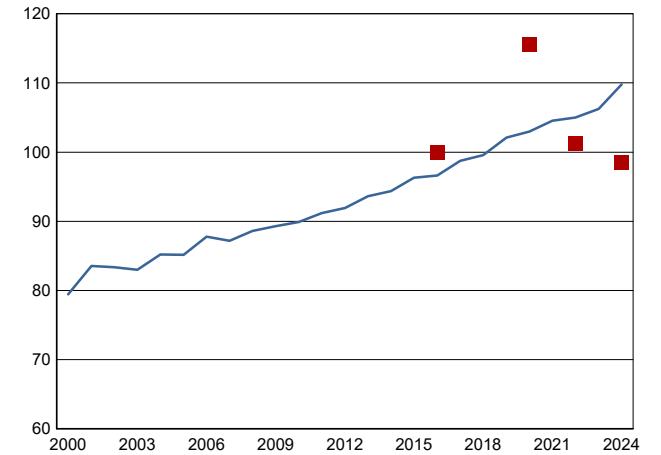
Coat



General Appearance

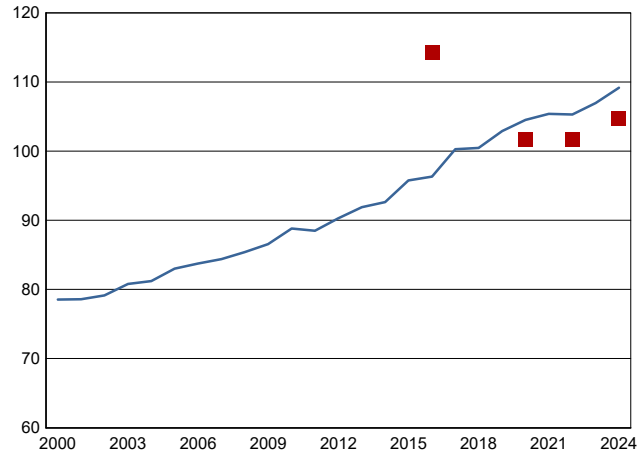


Head & Face

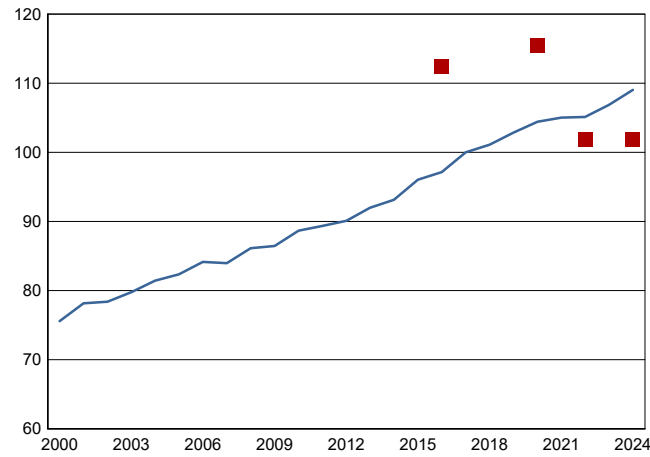


Genetic Trends

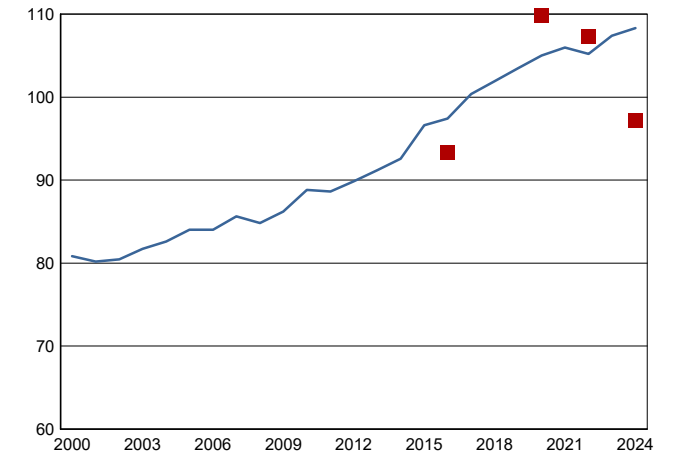
Front Quarter



Centre

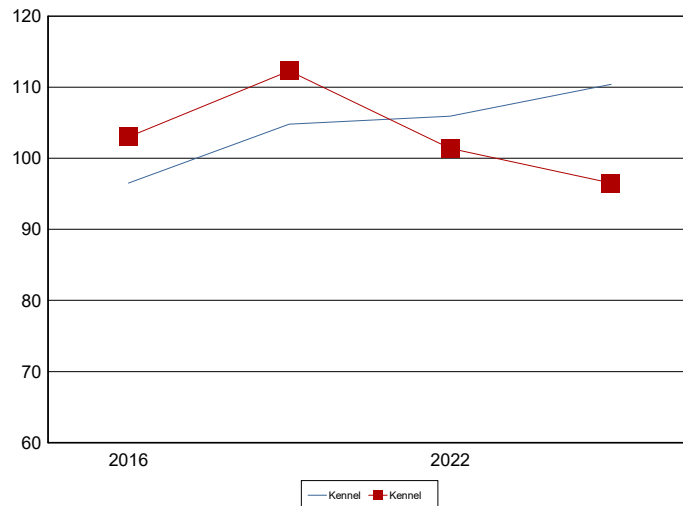


Hind Quarter

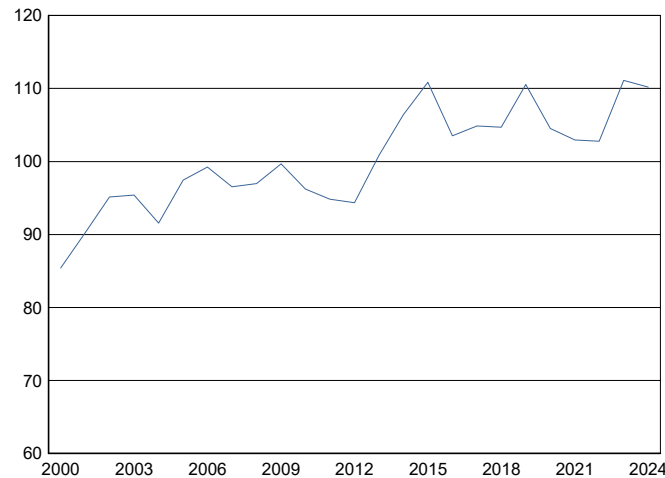


Final Score & Health Traits

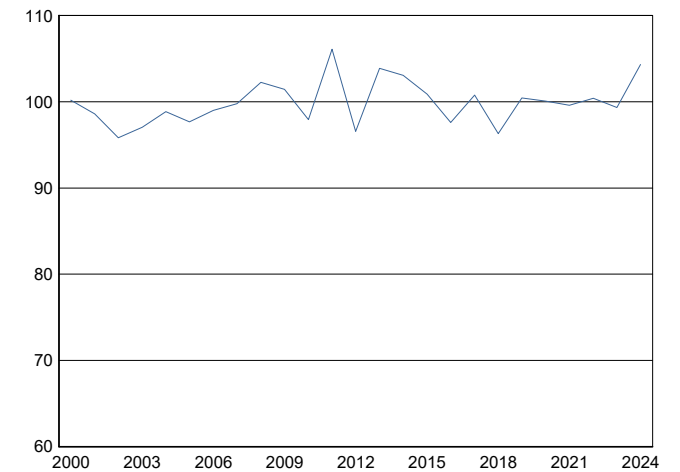
Final Score



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	
HONEYWEALTH DIESEL		GIANTS OF AFRICA SKY	9.64	108	92	84	103	99	85	94	85	97	97	114	96	55	14	11			3
	2019	SKYVISION DAHANA		5	5	10	51	19	69	50	68	52	55	58	63			10			3
PRESH HEROD		BOSTU FUTURE	6.63	98	98	118	101	96	107	99	101	104	100	96	100						
	2024	PRESH JACINTA		5	5	5	23	5	37	16	36	23	26	28	32						
BLACKSON ZARK		BOSTU FUTURE	6.09	94	99	105	102	101	108	104	109	110	110	106	109						
	2024	FARALAM KENNEL ZETA		5	5	5	21	5	33	18	32	21	23	26	29						
MOTARAH REX		BOSTU FUTURE	6.74	102	100	101	107	105	116	108	110	114	107	102	110						
	2024	PRESH ADAEZE		5	5	5	25	5	39	23	38	25	28	30	34						
NGDK RUBESTEIN		HONEYWEALTH DIESEL	19.77	108	95	93	103	102	80	95	91	102	96	109	96						
	2025	BANTEE NEW DAWN		5	5	5	12	5	39	9	38	15	20	25	32						
NGDK RAMBO		HONEYWEALTH DIESEL	19.77	108	95	93	103	102	80	95	91	102	96	109	96						
	2025	BANTEE NEW DAWN		5	5	5	12	5	39	9	38	15	20	25	32						

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	
CALIDON SWEETNESS		SKYVISION ACE	6.97	111	95	79	110	92	108	94	88	87	100	107	97	8	3				
	2020	HILLSIDE VIEW PATRA		5	5	9	46	16	63	45	62	47	49	52	57						
NGDK 2020		FONT BOERBOELS CANON	8.67	83	109	94	83	98	112	108	116	102	115	110	112	1	1	1			1
	2020	NGDK FRANCA		5	5	13	44	14	63	43	61	45	47	50	56			1			1
BANTEE NEW DAWN		GIANTS OF AFRICA SKY	8.29	108	97	103	104	105	74	97	96	106	95	103	97	5	2	1			
	2021	TEMISWIFT STORM		5	5	23	43	7	62	43	61	44	47	50	56			1			
NGDK BIMA		TEMISWIFT DENMARK	10.80	112	102	101	97	105	61	107	105	108	102	98	99	3	1				
	2022	TOPMAN KENNEL KATHERINE		5	5	5	37	5	58	36	57	38	41	44	51						
BLACKSON DONA		HONEYWEALTH DIESEL	12.09	112	96	81	102	96	90	104	83	94	92	97	89						
	2023	SKYVISION THETA		5	5	5	39	5	60	37	58	40	43	46	53						
BLACKSON STACK		BOSTU FUTURE	8.51	107	108	108	96	103	120	106	123	119	115	112	120						
	2024	ANIA CASPIAN BETA		5	5	5	30	5	43	26	42	30	32	35	39						
EMIRATES NGDK RAMSES		HONEYWEALTH DIESEL	10.10	109	94	97	103	101	91	101	100	102	102	108	102						
	2024	BEESYMAN GANGA		5	5	5	21	5	38	20	37	23	25	28	33						
EMIRATES NGDK BABYLON		HONEYWEALTH DIESEL	10.10	109	94	97	103	101	91	101	100	102	102	108	102						
	2024	BEESYMAN GANGA		5	5	5	21	5	38	20	37	23	25	28	33						

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	
SKYVISION ACE		GIANTS OF AFRICA HADES	4.44	97	87	74	98	78	117	97	98	86	87	97	94	57	7	26		15
	2016	LOWEN KLEIN WITWAL SAARTJIE		5	5	33	59	35	73	59	73	60	62	64	69		22			6
FONT BOERBOELS CANON		CABARET SON OF A GUN	7.75	83	109	79	91	104	84	109	104	97	114	107	105	9	1	3		1
	2016	FONT BOERBOELS MORGAN BELLE		5	5	41	53	35	63	52	62	53	55	56	60		3			1
GIANTS OF AFRICA SKY		GIANTS OF AFRICA OMEGA	5.32	113	101	92	104	99	96	83	87	103	96	110	96	87	19	19		16
	2017	GIANTS OF AFRICA ZARA		5	5	38	58	32	74	58	73	59	62	64	69		16			9
HONEYWEALTH DIESEL		GIANTS OF AFRICA SKY	9.64	108	92	84	103	99	85	94	85	97	97	114	96	55	14	11		3
	2019	SKYVISION DAHANA		5	5	10	51	19	69	50	68	52	55	58	63		10			3
BOSTU FUTURE		KLEIN SANDFONTEIN BROC	10.39	106	97	115	102	104	117	111	124	124	114	109	119	56	14	6		
	2020	ELEVATION TALITA		5	29	26	47	23	60	45	59	48	50	52	56		6			
TEMISWIFT DENMARK		GIANTS OF AFRICA OMEGA	5.44	110	108	103	99	108	68	100	103	108	106	109	103	7	2	1		2
	2020	STEGO MUNA		5	5	22	41	17	54	41	53	42	44	46	50		1			1

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	
HILLSIDE VIEW PATRA	2014	MIDDELPOS BBD SWEMBAD	10.03	124	104	83	106	102	102	95	94	92	100	98	97	17	2	12	1	1	5
		MIDDELPOS BBD TINKA		5	15	30	50	27	63	50	62	51	53	55	59			12			2
NGDK FRANCA	2016	AFRIKA ECHO 1	4.79	84	109	110	93	98	111	102	109	108	109	99	106	4	1	1			1
		JANIEKA LISA		5	5	25	38	13	51	37	50	39	41	43	47			1			1
SKYVISION DAHANA	2017	SKYVISION ACE	9.58	103	83	81	109	101	80	107	105	100	105	115	106	3	1	2			2
		MES KARLIE		5	5	29	52	26	68	51	67	53	55	57	62			2			1
TEMISWIFT STORM	2019	AFRIKA ETHAN	8.39	103	93	117	109	103	91	103	96	100	88	97	95	18	3	3			3
		STEGO MUNA		5	5	34	43	17	57	42	56	44	46	48	52			3			1
PRESH JACINTA	2021	SKYVISION BBD SPIKE	7.44	91	100	120	100	88	97	88	78	83	85	83	80	30	5	8			
		IWINOSA AEGON 1 ISOKEN		5	5	13	32	5	50	23	49	33	36	39	44			8			
BANTEE NEW DAWN	2021	GIANTS OF AFRICA SKY	8.29	108	97	103	104	105	74	97	96	106	95	103	97	5	2	1			
		TEMISWIFT STORM		5	5	23	43	7	62	43	61	44	47	50	56			1			
TOPMAN KENNEL KATHERINE	2021	MIDDELPOS BBD MANUEL	8.27	114	96	100	106	107	82	107	98	104	102	103	100	3	1	1			1
		KKS RUBBY		5	5	5	32	5	46	31	45	32	35	37	42			1			1
PRESH ADAEZE	2022	ROBUST HULK	6.33	98	102	86	113		115	105	95	103	100	95	100	9	2	1			
		IWINOSA AEGON 1 ISOKEN		5	5	23	42		61	40	60	43	46	49	55			1			
ANIA CASPIAN BETA	2022	MIDDELPOS BBD APOLLO III	7.51	108	120	101	91	101	122	101	123	114	116	115	120	14	1	5			
		KINGSTON NALA VI		5	5	20	47	18	65	45	64	48	51	53	59			5			
FARALAM KENNEL ZETA	2022	KLEIN WITWAL BBD BOLIN	6.92	82	102	94	102	99	100	96	94	95	107	103	99	5	2				
		MAKARIOS BBD LAYA		5	5	26	29	5	42	28	42	30	32	34	38						
BEESYMAN GANGA	2022	SKYVISION CHASE	6.60	111	97	109	103	103	96	109	115	108	107	102	109	7	1				
		TOKARA LULU		5	5	7	31	5	45	30	44	32	34	36	41						
SKYVISION THETA	2022	SKYVISION GEORGE	6.56	115	100	79	104	103	104	113	105	102	103	103	105	12	3	1			
		ELEVATION CANDY		5	5	30	48	13	66	47	64	49	51	54	60			1			

