

Boerboel Genetic Evaluation

SA Stud Book
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BENIN CITY

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EDO STATE

NIGERIA



Kennel Number: 701047



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.

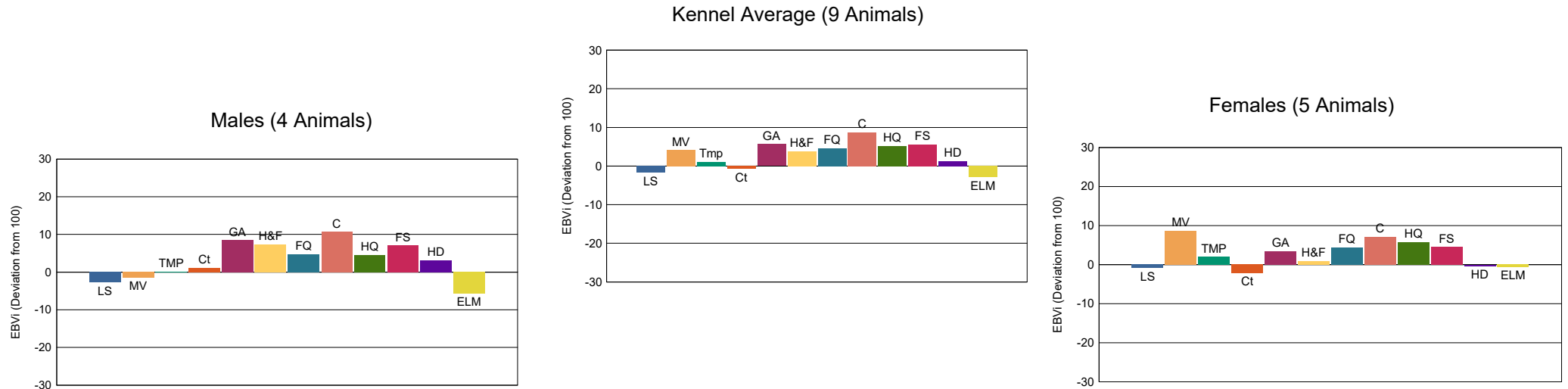
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	98	97	99
Movement (Mv)	104	98	109
Temperament (Tmp)	101	100	102
Coat (Ct)	99	101	98
General Appearance	106	108	103
Head & Face (H&F)	104	107	101
Front Quarter (FQ)	105	105	104
Centre (C)	109	111	107
Hind Quarter (HQ)	105	104	106
Final Score (FS)	106	107	104
Hip Health (HH)	101	103	100
Elbow Health (ELM)	97	94	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.

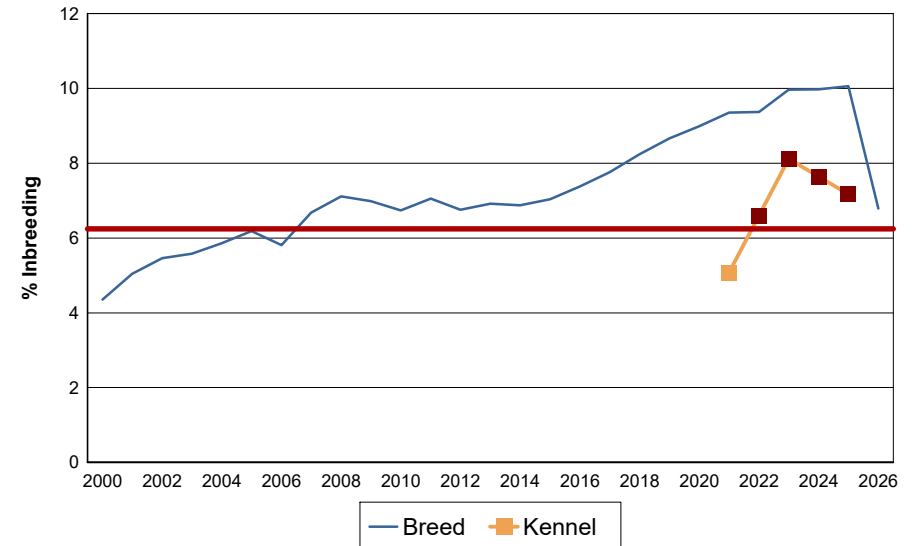
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

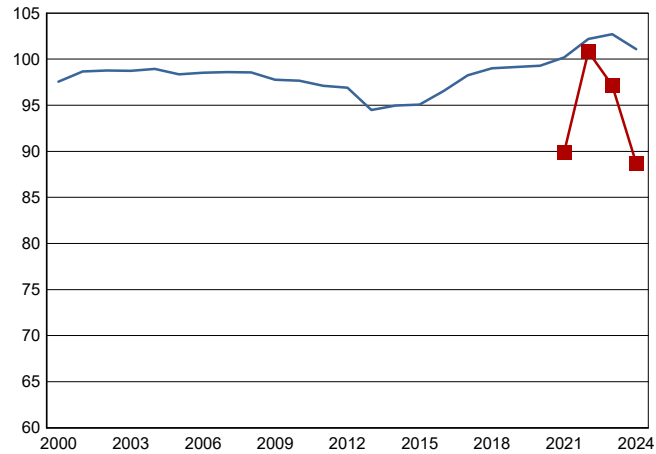


Inbreeding Levels

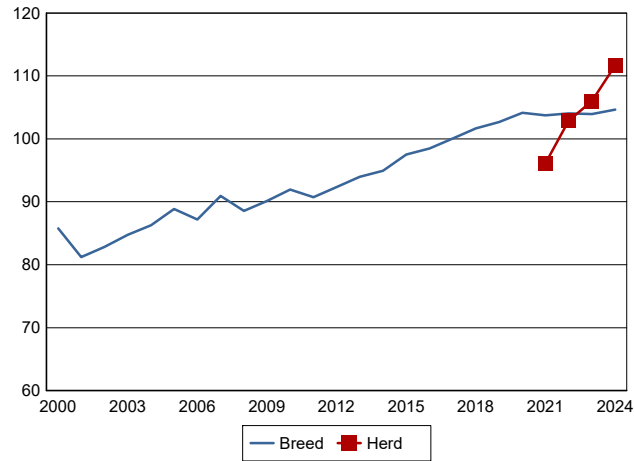
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	9	49007	4	25141	5	23857	6	3371	7	6287
Average Inbreeding	6.85	8.49	7.33	8.46	6.46	8.53	8.28	8.01	5.98	8.00
Number inbred	9	48727	4	24990	5	23728	6	24990	7	23728
Number >6.25% Inbr.	6	30600	3	15537	3	15058	2	15537	2	15058

Genetic Trends

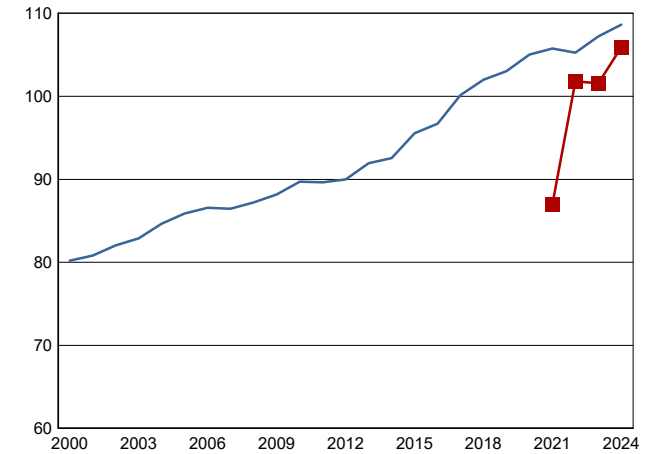
Litter Size



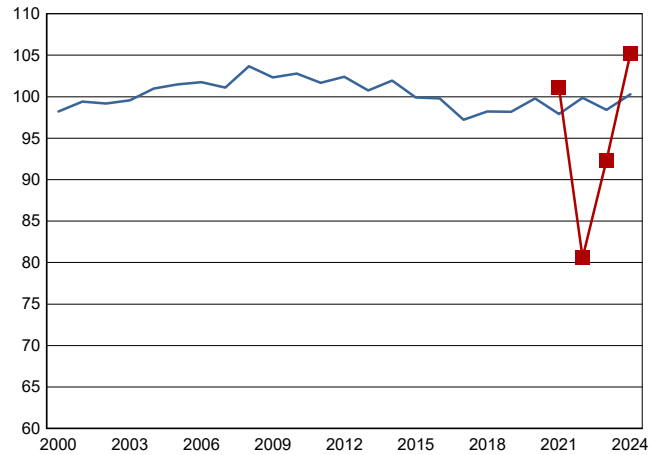
Movement



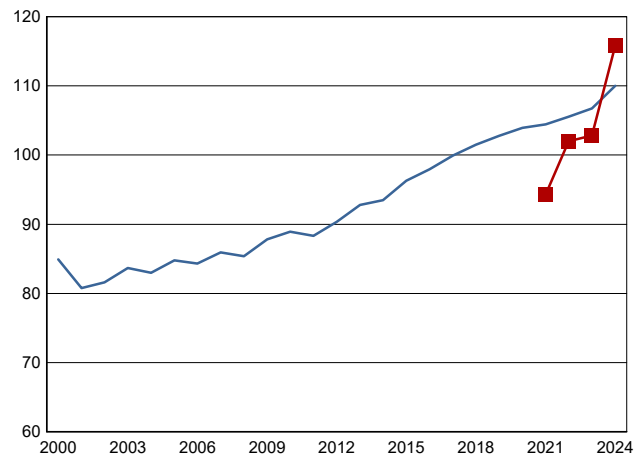
Temperament



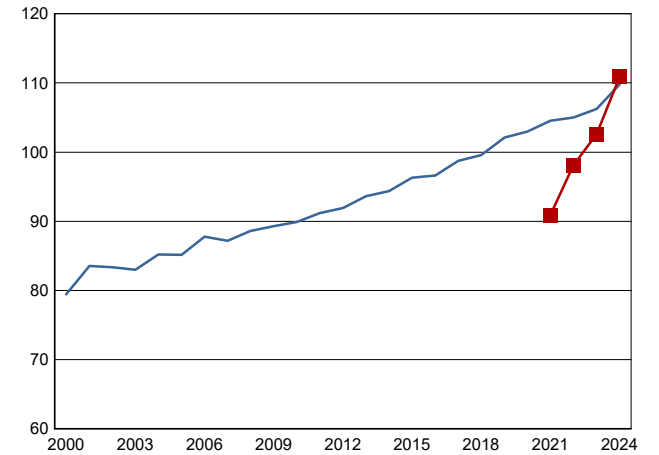
Coat



General Appearance

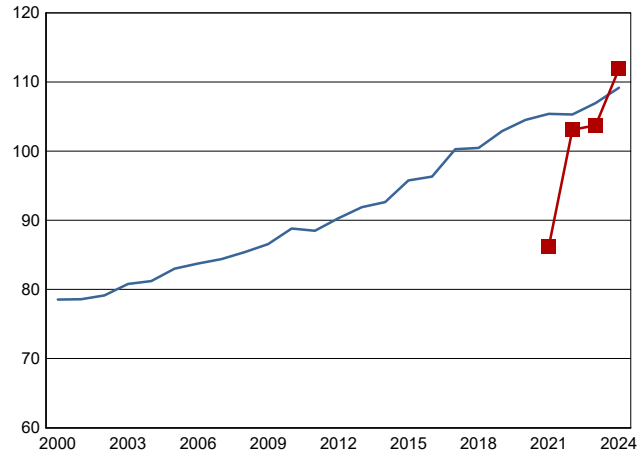


Head & Face

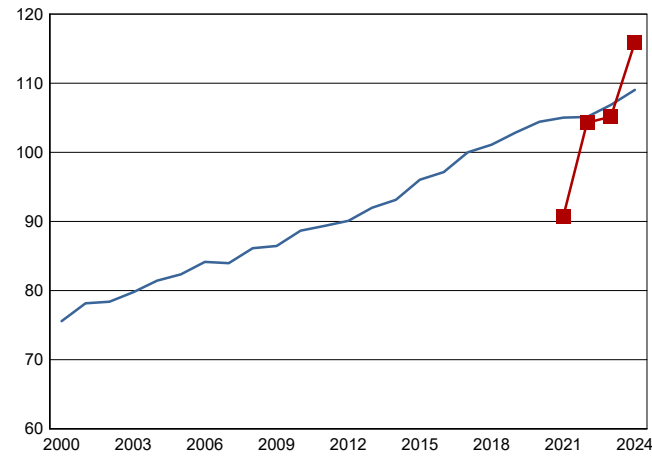


Genetic Trends

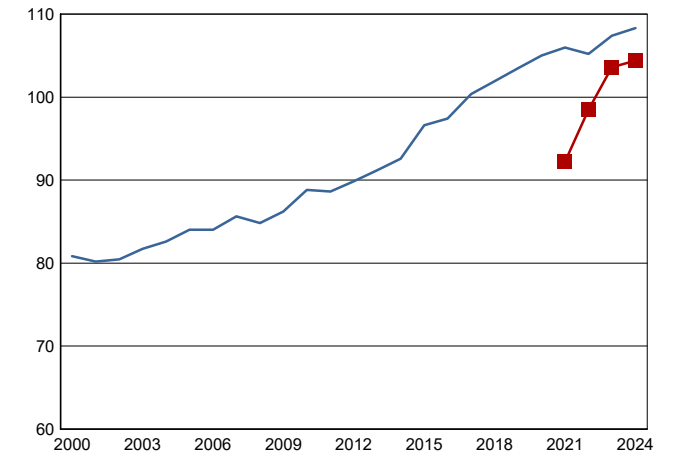
Front Quarter



Centre

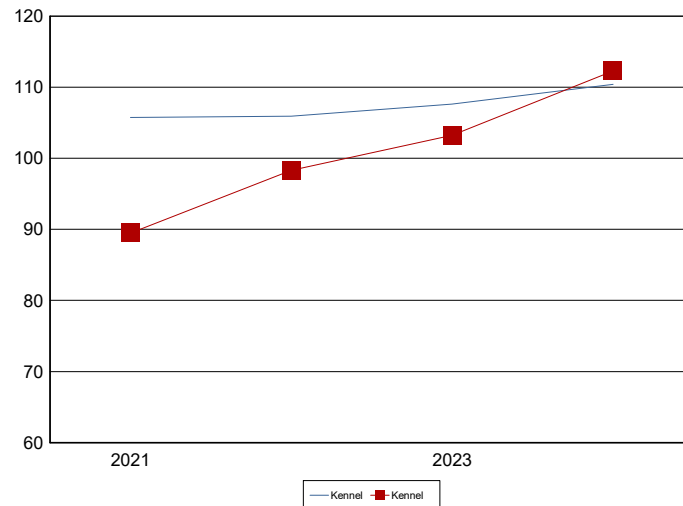


Hind Quarter

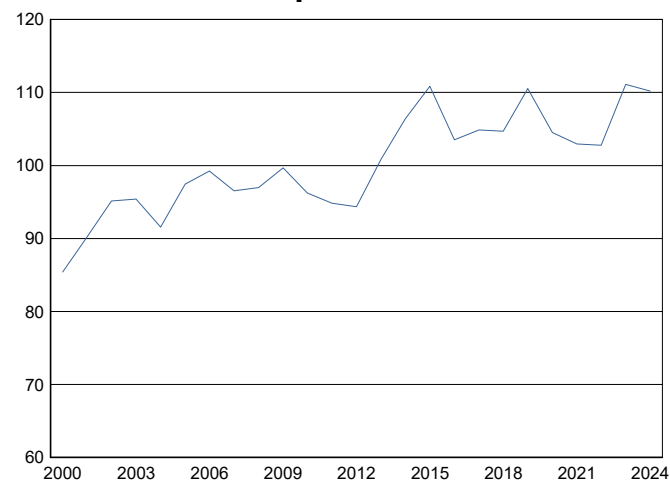


Final Score & Health Traits

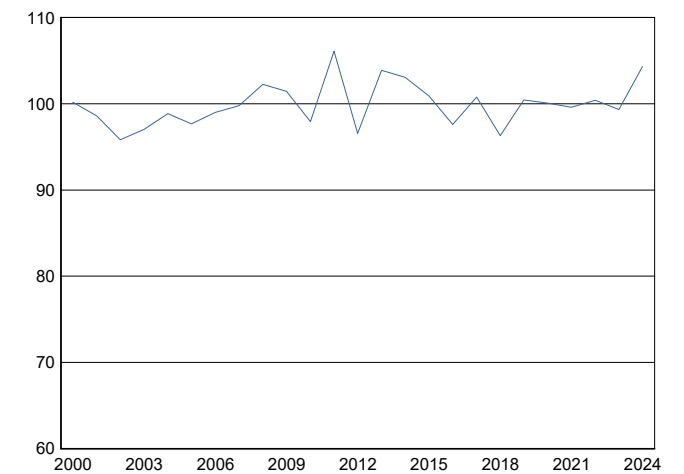
Final Score



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	%	Hips	Elbows	Litter Size	Move-	Tempe-	Coat	General	Head &	Front	Centre	Hind	Final	Progeny	Litters	Progeny Kennels	Hips	Elbows	litters
BYr	Dam		Acc.	Acc.	Acc.	ment	rament		Appear.	Face	Quarter		Quarter	Score						
SKYVISION CEASER	SKYVISION GEORGE	5.91	102	95	89	93	94	111	116	114	103	113	97	108	41	8	3			1
	ALEXANDER BBD OLORIOBA		5	5	9	43	5	60	43	59	44	47	49	55						
KENNELAJEEB LEO	LOMBARD SUPERIOR RETIEF	8.81	105	86	103	101	108	91	104	104	109	111	110	107						
	KENNELAJEEB DIXIE		5	5	15	29	5	39	26	39	29	31	33	36						
MICH SOLOMON	SKYVISION CEASER	7.10	99	95	101	104	100	104	111	106	105	112	103	107						
	MAGNIFICO TOPNOTCH MOON		5	5	5	17	5	35	16	34	18	21	24	29						
MICH GANDER	SKYVISION CEASER	7.50	106	102	96	96	99	98	104	106	102	107	107	106						
	BIGMICHAEL DANNY		5	5	5	24	5	39	24	38	25	27	30	34						

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	Progeny with litters
BIGMICHAEL DANNY	2021	GIANTS OF AFRICA OMEGA	5.44	110	108	103	100	103	85	92	98	102	102	117	103	16	3	4			1
		STEGO VERA		5	5	29	47	21	64	47	63	48	50	53	58			4			1
MICH ZOE	2021	ANIA CASPIAN FARALAM HAGRID	5.08	96	107	90	93	83	104	94	94	87	91	88	89	3	1	1			
		IWINOSA AEGON 1 ADESUA		5	5	5	21	5	37	20	36	22	24	27	32			1			
MAGNIFICO TOPNOTCH MOON	2022	MAGNIFICO DRAGON DROGO	7.34	96	94	113	115	106	97	105	98	108	112	109	107	15	2				
		ANIA CASPIAN RUSSIA		5	5	10	35	5	55	34	54	36	39	42	48						
MAGNIFICO TOPNOTCH STAR	2022	MAGNIFICO DRAGON DROGO	7.34	96	94	89	131	118	99	116	108	121	119	112	117	8	4	2			
		ANIA CASPIAN RUSSIA		5	5	19	37	5	57	36	56	38	41	44	50			2			
MICH SOFIA	2025	SKYVISION CEASER	7.10	99	95	101	104	100	104	111	106	105	112	103	107						
		MAGNIFICO TOPNOTCH MOON		5	5	5	17	5	35	16	34	18	21	24	29						

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	
GIANTS OF AFRICA OMEGA		MIDDELPOS BBD ALPHA	6.07	126	113	101	106	119	55	90	108	116	120	133	115	57	12	12		13
	2015	GIANTS OF AFRICA BABA		11	20	51	65	43	78	64	77	65	67	69	74		10			6
MAGNIFICO DRAGON DROGO		PYRAMAX THOR	5.07	90	85	96	121	107	92	104	104	110	110	108	108	12	2	3		2
	2019	HIGH DEFINITION PULL THE TRIGGER		5	5	7	35	5	50	34	49	36	38	40	45		2			1
ANIA CASPIAN FARALAM HAGRID		AFRIKA PRESIDENT	2.44	102	111	83	86	81	100	94	86	82	86	86	83	8	3	1		1
	2019	ALEXANDER BBD BARLEY		5	5	16	27	5	40	26	40	27	29	32	36		1			1
SKYVISION GEORGE		SKYVISION GEORGIA	19.01	100	85	86	102	96	122	115	113	103	105	106	111	62	14	14	1	1
	2019	SKYVISION AREWA		5	5	8	57	14	75	56	74	58	61	64	69		13			1
LOMBARD SUPERIOR RETIEF		MES RUBENSTEIN	11.16	110	67	113	107	114	92	107	111	113	116	116	114	80	18	13	1	1
	2019	LOMBARD SUPERIOR ALASKA		25	41	39	63	42	76	60	75	64	66	68	72		12			2
SKYVISION CEASER		SKYVISION GEORGE	5.91	102	95	89	93	94	111	116	114	103	113	97	108	41	8	3		1
	2021	ALEXANDER BBD OLORIOBA		5	5	9	43	5	60	43	59	44	47	49	55		3			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	
STEGO VERA	2017	GIANTS OF AFRICA STONE COLD	6.15	94	102	103	92	89	97	93	88	91	86	95	88	28	3	10		7
		ROKAFELA STORM		5	5	31	50	24	64	49	63	50	52	55	59			9		1
IWINOSA AEGON 1 ADESUA	2019	IWINOSA ASIWAJU OSAZEE	6.12	90	102	97	106	93	102	94	96	90	96	98	96	6	1	1		1
		LAIKA SASHA		5	5	19	42	13	58	41	57	43	45	47	52			1		1
ALEXANDER BBD OLORIOBA	2019	LANDRE MAX	6.93	105	105	92	93	97	91	111	103	99	117	94	101	10	2	2	1	3
		BOSTU LIANIE		5	5	41	55	29	71	55	70	56	58	61	65			2	1	1
ANIA CASPIAN RUSSIA	2020	NGDK ROLO	5.18	102	103	108	109	108	96	110	100	110	114	108	108	2	1	2		2
		GIANTS OF AFRICA ZENA		5	5	27	46	18	65	45	63	47	50	53	58			1		1
BIGMICHAEL DANNY	2021	GIANTS OF AFRICA OMEGA	5.44	110	108	103	100	103	85	92	98	102	102	117	103	16	3	4		1
		STEGO VERA		5	5	29	47	21	64	47	63	48	50	53	58			4		1
KENNELAJEEB DIXIE	2021	BOSTU ALPHA	4.69	99	105	93	95	102	90	100	97	104	106	105	100	9	3			
		KENNELAJEEB PEE-PEE		5	5	31	29	5	42	28	41	29	31	34	38					
MAGNIFICO TOPNOTCH MOON	2022	MAGNIFICO DRAGON DROGO	7.34	96	94	113	115	106	97	105	98	108	112	109	107	15	2			
		ANIA CASPIAN RUSSIA		5	5	10	35	5	55	34	54	36	39	42	48					

