

Boerboel Genetic Evaluation

SA Stud Book
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KAMPALA

UGANDA



Kennel Number: 696171



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.

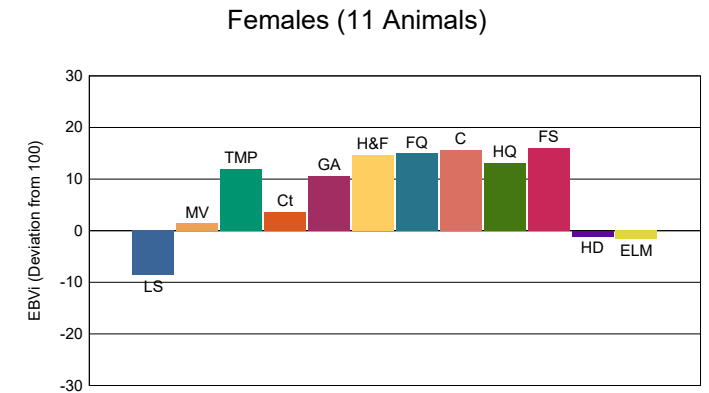
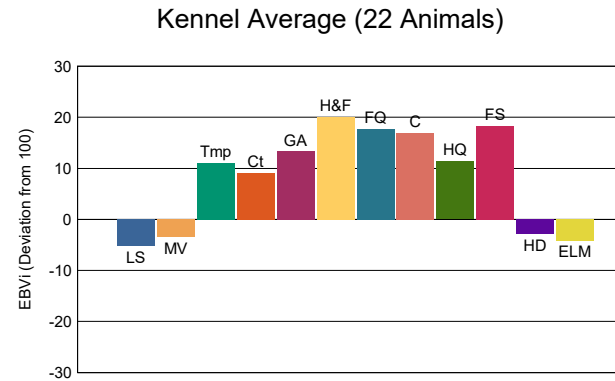
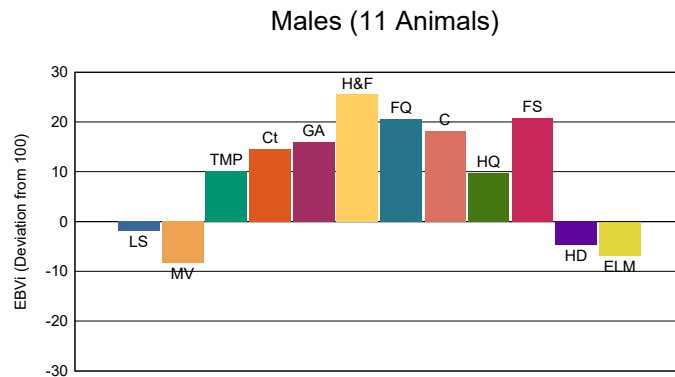
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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	98	91
Movement (Mv)	97	92	101
Temperament (Tmp)	111	110	112
Coat (Ct)	109	115	104
General Appearance	113	116	111
Head & Face (H&F)	120	125	115
Front Quarter (FQ)	118	121	115
Centre (C)	117	118	116
Hind Quarter (HQ)	111	110	113
Final Score (FS)	118	121	116
Hip Health (HH)	97	95	99
Elbow Health (ELM)	96	93	98

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.

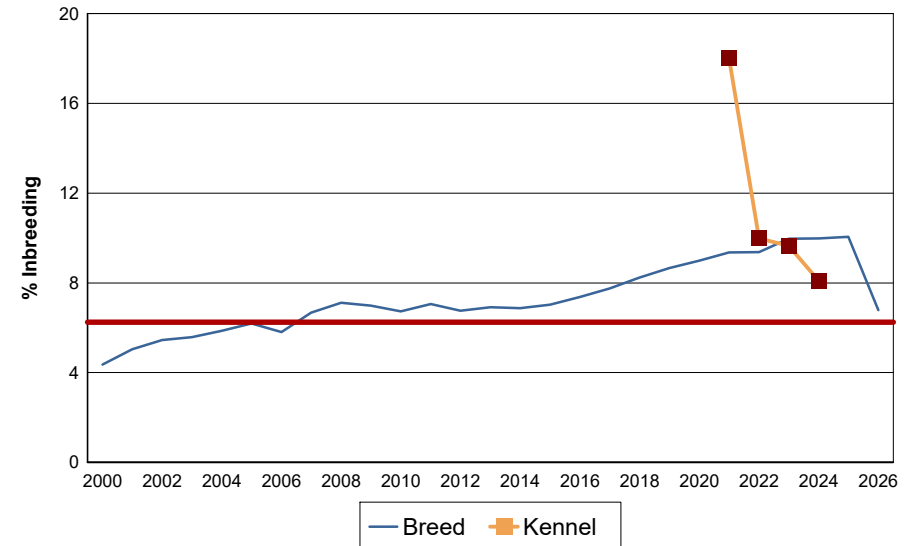
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

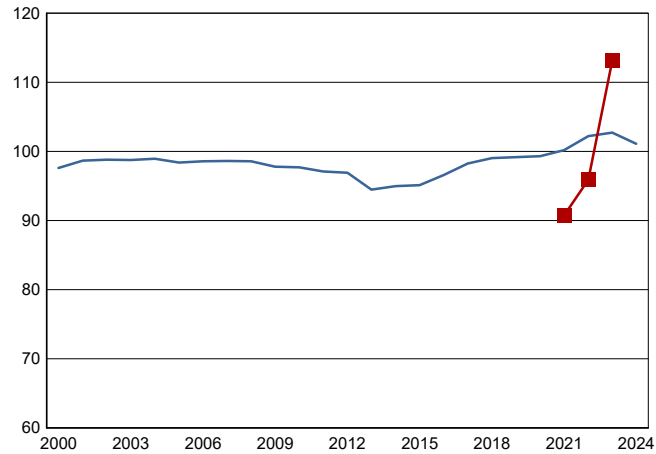


Inbreeding Levels

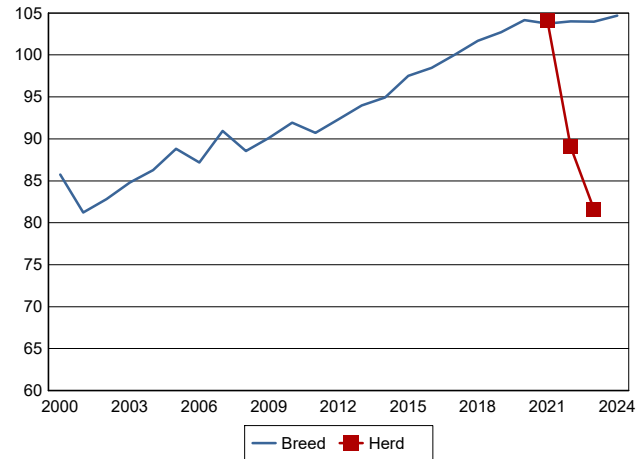
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	22	49007	11	25141	11	23857	10	3371	11	6287
Average Inbreeding	10.43	8.49	10.49	8.46	10.38	8.53	14.04	8.01	10.29	8.00
Number inbred	22	48727	11	24990	11	23728	10	24990	11	23728
Number >6.25% Inbr.	20	30600	10	15537	10	15058	8	15537	7	15058

Genetic Trends

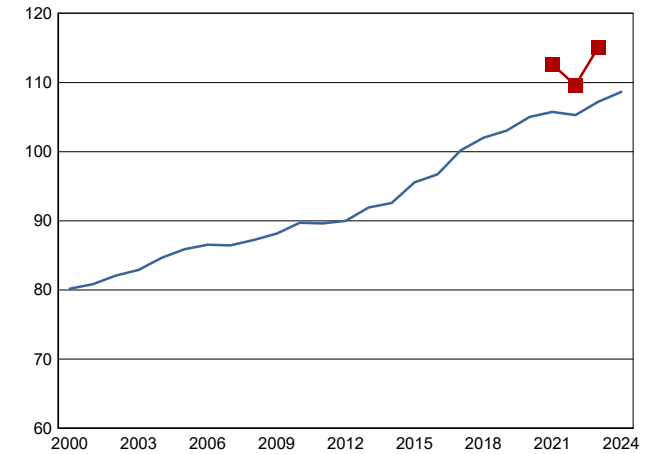
Litter Size



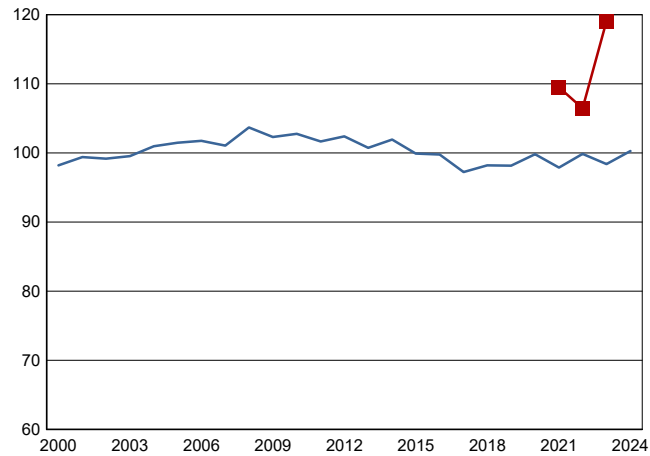
Movement



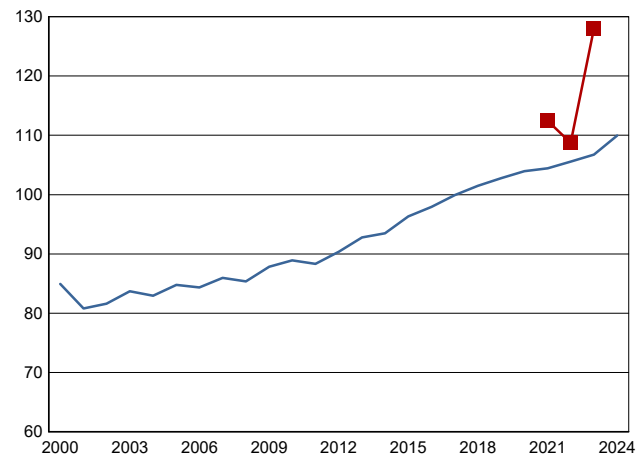
Temperament



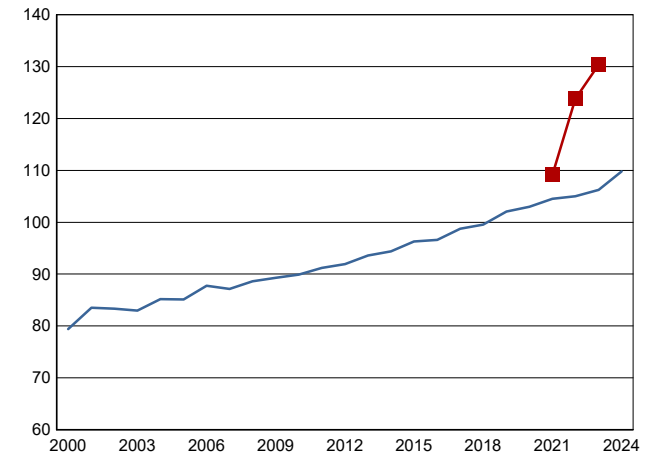
Coat



General Appearance

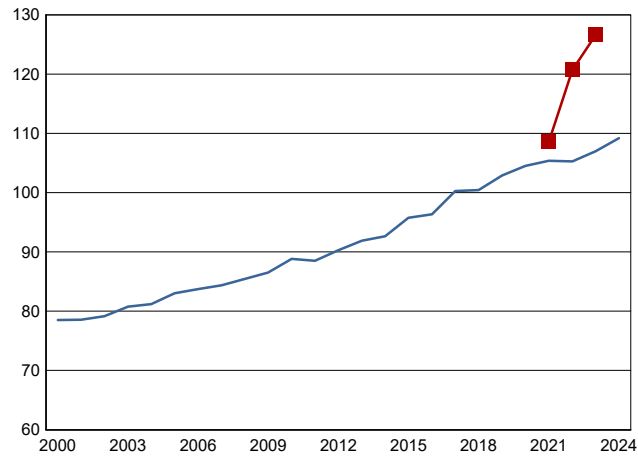


Head & Face

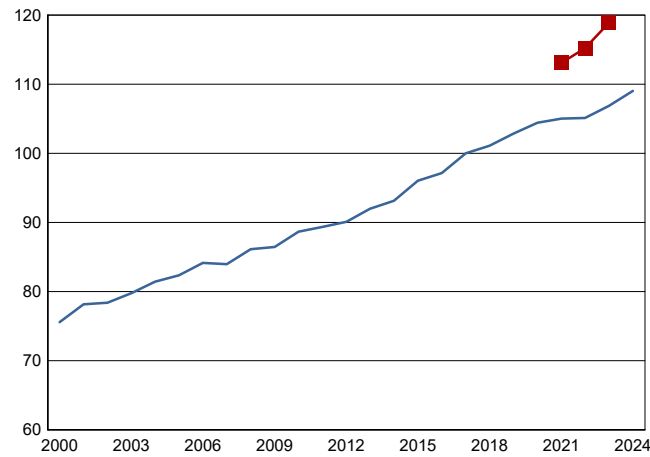


Genetic Trends

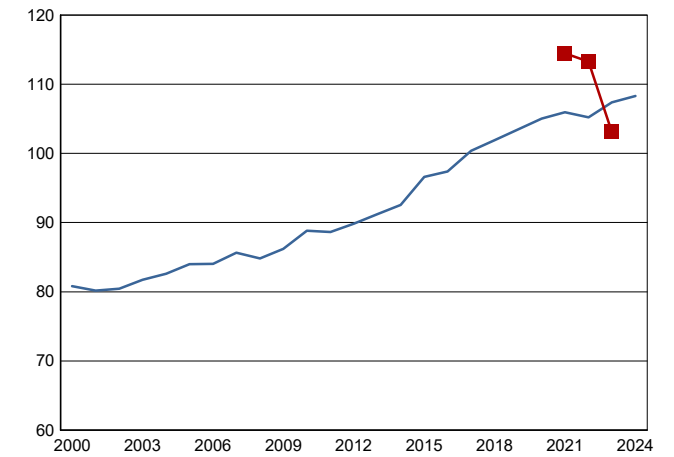
Front Quarter



Centre

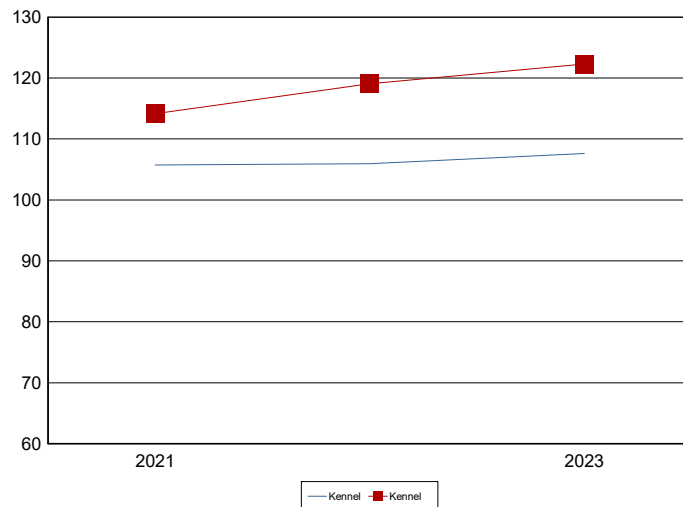


Hind Quarter

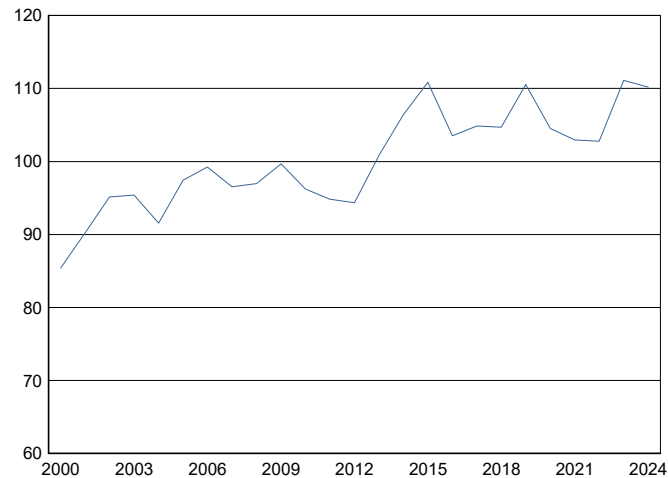


Final Score & Health Traits

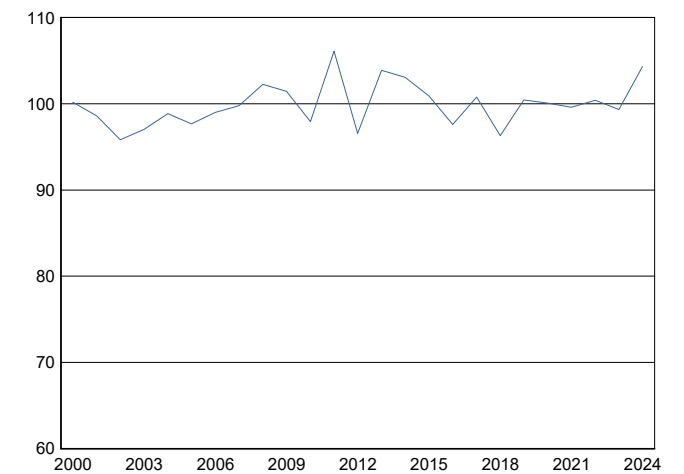
Final Score



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	Hips	Elbows	
BYr	Dam		Acc.	Acc.	Acc.	ment	rament		Appear.	Face	Quarter		Quarter	Score			Kennels			
MAJINGILANE DUBLIN	SA SUPERIOR GRIZZLY	4.54	100	98	97	110	111	139	117	104	110	113	102	112	48	7				
	DEXTRA JULIA		5	5	5	42	7	60	41	59	43	46	49	54						
LA BOELA BERLIN	LA BOELA ROOSTER	18.52	69	65	112	89	118	95	127	141	134	128	114	130	11	4	3			
	LA BOELA CHEVY		5	36	5	48	10	66	47	65	49	52	55	60						
STERLING SANTIAGO	MIDDELPOS BBD GAMKA	10.65	121		91	78	109	103	102	139	127	114	115	124	19	2				
	JAMBAL KITTA		5		28	51	30	65	52	64	52	54	56	60						
STERLING TRUMP	MIDDELPOS BBD GAMKA	10.65	121		91	77	107	98	104	128	123	111	110	117						
	JAMBAL KITTA		5		28	45	26	53	46	53	46	47	48	51						
STERLING GENESIS	LA BOELA BERLIN	11.29	86	83	98	68	103	114	118	131	122	120	112	122						
	JAMBAL KITTA		5	5	9	41	5	59	42	58	42	45	47	53						
STERLING CHESTER	LA BOELA BERLIN	18.80	85	78	113	91	117	121	126	128	126	122	113	126						
	STERLING BRUSSELS		5	5	5	21	5	41	20	40	22	26	29	35						
STERLING GORILLA IN THE MIST	GATEKEEPER ZILLA THE GORILLA	9.45	95	102	87	103	103	106	113	105	101	109	98	105						
	BOUWER ZOE 5		5	5	13	34	5	48	33	47	35	37	39	43						
STERLING MADRID	MAJINGILANE DUBLIN	7.87	93	90	97	98	111	121	117	126	121	121	111	123						
	STERLING REVELATION		5	5	5	23	5	39	22	38	24	26	29	34						
STERLING ICE	MAJINGILANE DUBLIN	7.87	93	90	97	98	111	121	117	126	121	121	111	123						
	STERLING REVELATION		5	5	5	23	5	39	22	38	24	26	29	34						

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	
STERLING CROSS		MAJINGILANE DUBLIN	7.87	93	90	97	98	111	121	117	126	121	121	111	123						
	2024	STERLING REVELATION		5	5	5	23	5	39	22	38	24	26	29	34						
STERLING BLACKFACE		MAJINGILANE DUBLIN	7.87	93	90	97	98	111	121	117	126	121	121	111	123						
	2024	STERLING REVELATION		5	5	5	23	5	39	22	38	24	26	29	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	
BOUWER ZOE 5	2019	TARGUS BOM BOEL	6.75	97	106	69	102	110	97	109	96	102	106	98	100	20	4	2			2
		BOUWER CHELSEA		5	5	48	56	31	71	55	70	57	59	61	66			2			2
CDH YOYO	2020	CDH BULLET	21.41	108	112	114	113	121	88	104	109	116	119	128	119	17	2	1			1
		CDH PHOEBE		5	5	39	52	22	67	51	66	53	55	57	62			1			1
LA BOELA VITANI	2020	LA BOELA ROOSTER	18.52	86	80	99	88	105	101	105	107	109	106	115	109	2	1				
		LA BOELA CHEVY		5	5	19	45	5	63	45	62	46	49	52	57						
STERLING LONDON	2021	BOSTU ZAVUKA	12.10	108	97	63	113	111	64	96	104	103	111	121	108	10	3				
		BOSTU HUNTINGTON		5	19	32	47	17	62	46	61	48	50	52	57						
STERLING KITTA	2022	MIDDELPOS BBD GAMKA	10.65	121		92	77	107	98	104	128	123	111	110	117	7	2				
		JAMBAL KITTA		5		38	45	26	53	46	53	46	47	48	51						
STERLING IVANKA	2022	COLOS LEEU	7.02	94	110	99	118	120	106	122	111	122	123	117	121						
		CDH PARIS		5	5	9	42	5	59	41	58	43	45	48	53						
STERLING DEW OF HERMON	2024	MAJINGILANE DUBLIN	6.22	104	97	80	112	111	101	106	104	107	112	112	110						
		STERLING LONDON		5	5	5	21	5	35	20	35	22	24	27	31						
STERLING DUBLIN AMARA	2024	MAJINGILANE DUBLIN	7.87	93	90	97	98	111	121	117	126	121	121	111	123						
		STERLING REVELATION		5	5	5	23	5	39	22	38	24	26	29	34						
STERLING EVA	2024	MAJINGILANE DUBLIN	7.87	93	90	97	98	111	121	117	126	121	121	111	123						
		STERLING REVELATION		5	5	5	23	5	39	22	38	24	26	29	34						
STERLING ZOE	2024	MAJINGILANE DUBLIN	7.87	93	90	97	98	111	121	117	126	121	121	111	123						
		STERLING REVELATION		5	5	5	23	5	39	22	38	24	26	29	34						
STERLING PATINA	2024	MAJINGILANE DUBLIN	7.87	93	90	97	98	111	121	117	126	121	121	111	123						
		STERLING REVELATION		5	5	5	23	5	39	22	38	24	26	29	34						

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	with litters	
TARGUS BOM BOEL		CABARET SON OF A GUN	24.74	81	114	66	90	114	79	112	94	103	116	107	102	86	14	38	3	3	28
	2016	CRIHATA LILLIE		5	5	57	78	57	88	78	87	79	80	82	85						
SA SUPERIOR GRIZZLY		SA SUPERIOR VOO DOO	19.35	89	87	102	119	122	137	120	101	123	128	111	119	21	2	9			8
	2016	SA SUPERIOR PEPSI		5	5	5	56	21	72	54	71	57	59	62	67						
CDH BULLET		CDH SNIPER	10.46	103	118	94	111	124	118	117	113	123	116	119	122	169	26	43	4	4	32
	2017	MIDDELPOS BBD MILLY		16	36	57	76	53	86	75	85	76	78	80	83						
MIDDELPOS BBD GAMKA		AFRIKA LEO 5	18.20	138	139	100	78	117	89	106	133	133	109	106	118	137	29	57	5	6	38
	2017	MIDDELPOS BBD DIXIE		34	50	56	81	60	89	80	89	81	83	84	87						
LA BOELA ROOSTER		MES FELIX BOETA	16.23	73	71	117	98	105	105	108	117	116	107	113	114	37	5	7	2	2	7
	2019	LA BOELA ZUKIE		5	26	35	62	37	76	61	75	62	64	67	71						
COLOS LEEU		TARGUS RAM	5.55	83	128	109	110	110	90	123	115	112	124	108	115	18	3	4			1
	2019	KLEIN SANDFONTEIN AKITA		5	10	38	57	37	67	57	67	58	59	61	64						
BOSTU ZAVUKA		BOSTU ZAZU	16.52	99	96	82	118	113	101	105	117	114	109	116	117	45	7	15	4	4	5
	2020	MES ALUSHKA		41	60	44	68	42	81	67	80	68	70	72	77						
MAJINGILANE DUBLIN		SA SUPERIOR GRIZZLY	4.54	100	98	97	110	111	139	117	104	110	113	102	112	48	7				
	2020	DEXTRA JULIA		5	5	5	42	7	60	41	59	43	46	49	54						
LA BOELA BERLIN		LA BOELA ROOSTER	18.52	69	65	112	89	118	95	127	141	134	128	114	130	11	4	3			
	2020	LA BOELA CHEVY		5	36	5	48	10	66	47	65	49	52	55	60						
GATEKEEPER ZILLA THE GORILLA		BRIEL THE GHOST	6.26	93	98		105	97	116	118	115	101	111	99	110	32	6	6			
	2023	GATEKEEPER BELLA		5	5		54	24	71	52	70	55	57	60	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	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	
BOUWER CHELSEA	2017	MIDDELPOS BBD HANNES	4.15	113	98	85	106	108	101	105	98	103	98	91	98	11		7	1	1	4
		BOUWER ZINGA		5	5	39	50	23	65	49	65	51	53	56	61			7			1
CDH PHOEBE	2018	CDH KAROO	14.14	113	107	122	113	115	98	98	108	115	119	126	118	36	4	6			3
		CDH MIA		5	5	57	57	38	68	57	68	58	60	61	65			6			1
DEXTRA JULIA	2018	AFRIKA RIGTER	5.25	110	108	93	99	95	113	104	97	89	93	98	97	9	3	3			2
		LA BOELA LEA		5	9	27	50	25	68	49	66	51	53	56	61			3			1
LA BOELA CHEVY	2019	LA BOELA DODGE	19.55	98	89	107	90	117	91	119	119	120	122	121	120	17	2	3	2	2	3
		MIDDELPOS BBD KEENA		23	45	42	55	30	71	55	70	56	58	61	66			2			1
BOUWER ZOE 5	2019	TARGUS BOM BOEL	6.75	97	106	69	102	110	97	109	96	102	106	98	100	20	4	2			2
		BOUWER CHELSEA		5	5	48	56	31	71	55	70	57	59	61	66			2			2
JAMBAL KITTA	2019	BREKER MENEER	3.24	104	101	83	76	98	106	102	123	113	112	115	116	20	3	7			4
		JAMBAL TIKE-EE		5	5	48	54	33	65	57	65	54	56	58	62			6			2
BOSTU HUNTINGTON	2020	BOSTU GUNSTON	6.22	116	97	56	106	118	80	111	111	107	122	124	117	2	1	2			1
		ELEVATION PARIS HILTON		23	38	46	57	36	70	57	69	58	60	62	66			2			1
CDH PARIS	2020	CDH FRIK	19.04	104	93	89	113	113	110	103	98	114	111	113	110	2	1	2			
		CDH TILLA		5	5	26	37	5	51	38	51	38	40	43	47			2			
STERLING BRUSSELS	2021	LA BOELA OXO	11.50	101	92	114	94	115	147	125	115	117	116	111	121	3	1	1			
		WOR FLORIDA		5	5	14	40	5	58	39	57	41	43	46	52			1			
STERLING LONDON	2021	BOSTU ZAVUKA	12.10	108	97	63	113	111	64	96	104	103	111	121	108	10	3				
		BOSTU HUNTINGTON		5	19	32	47	17	62	46	61	48	50	52	57						
STERLING REVELATION	2022	LA BOELA BERLIN	11.29	86	83	98	87	112	103	117	148	132	130	119	134	8					
		JAMBAL KITTA		5	5	9	41	5	58	42	57	42	44	47	52						

