

Boerboel Genetic Evaluation

SA Stud Book
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GABORONE

BOTSWANA



Kennel Number: 673097



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.

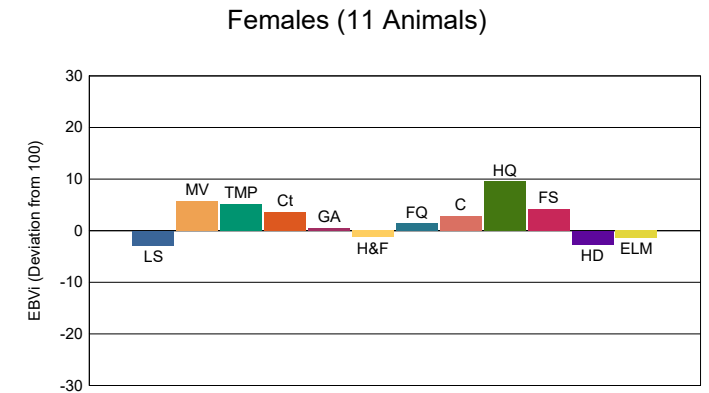
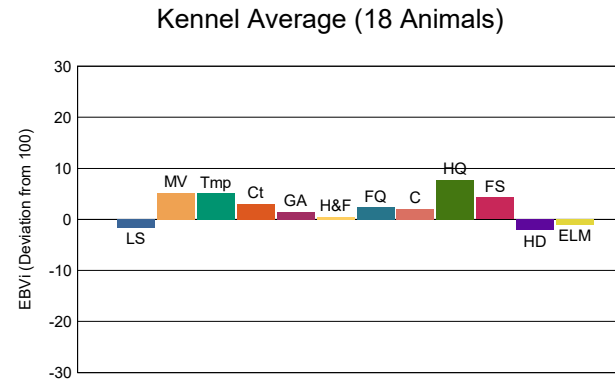
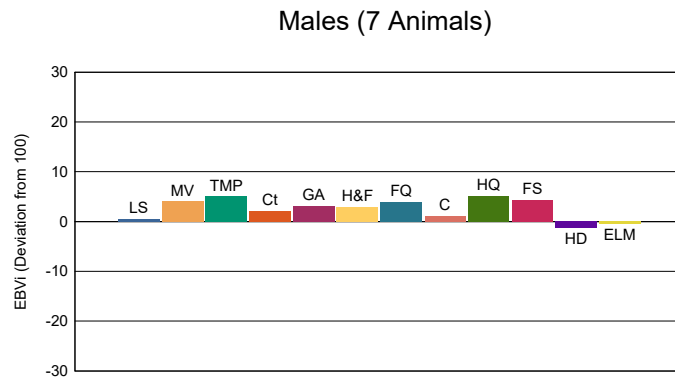
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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

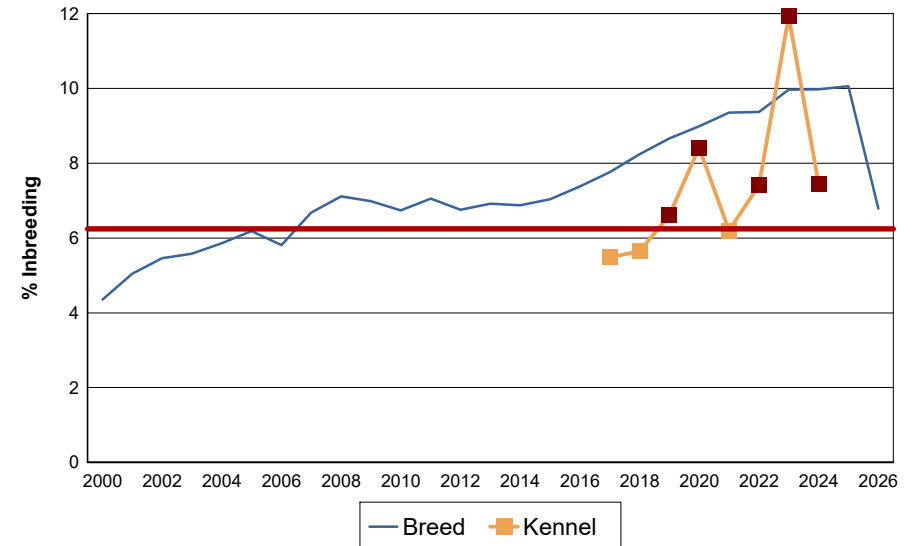
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

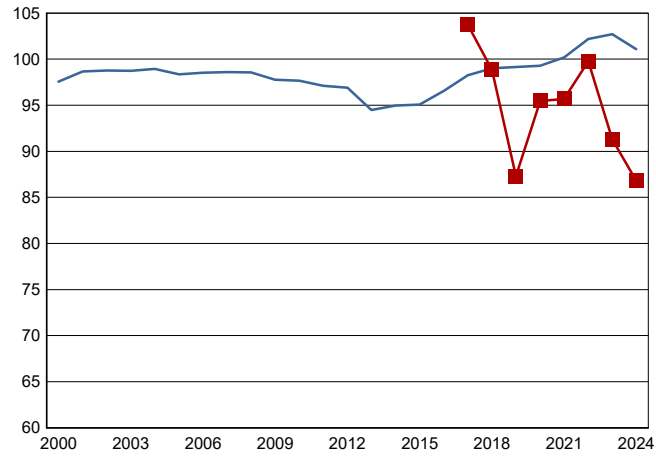


Inbreeding Levels

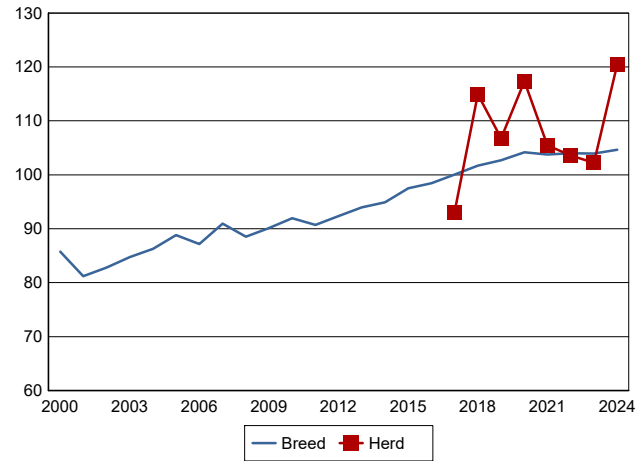
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	18	49007	7	25141	11	23857	9	3371	10	6287
Average Inbreeding	7.60	8.49	7.28	8.46	7.80	8.53	9.89	8.01	7.25	8.00
Number inbred	18	48727	7	24990	11	23728	9	24990	10	23728
Number >6.25% Inbr.	9	30600	3	15537	6	15058	5	15537	5	15058

Genetic Trends

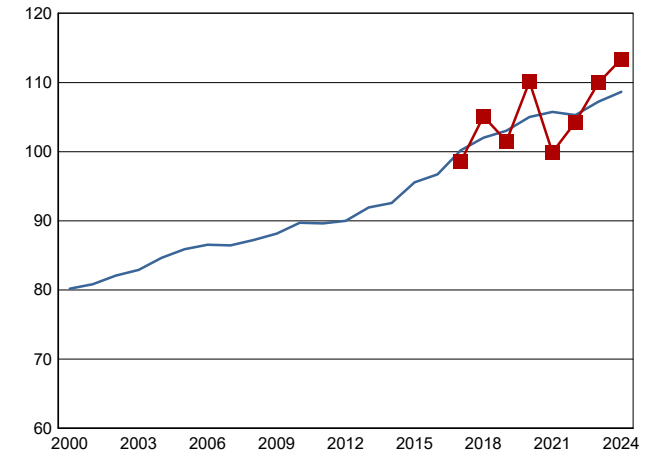
Litter Size



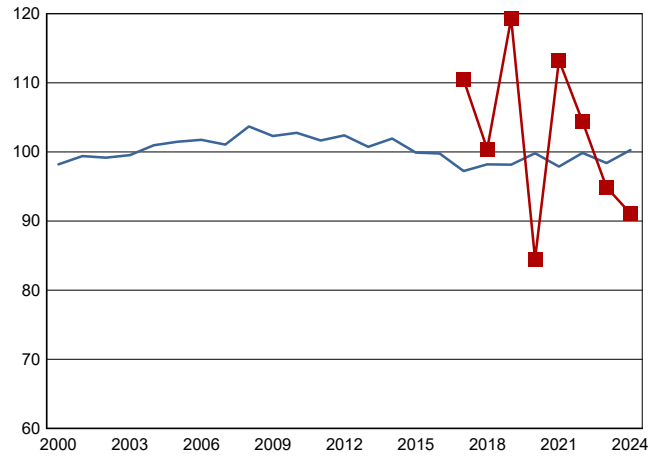
Movement



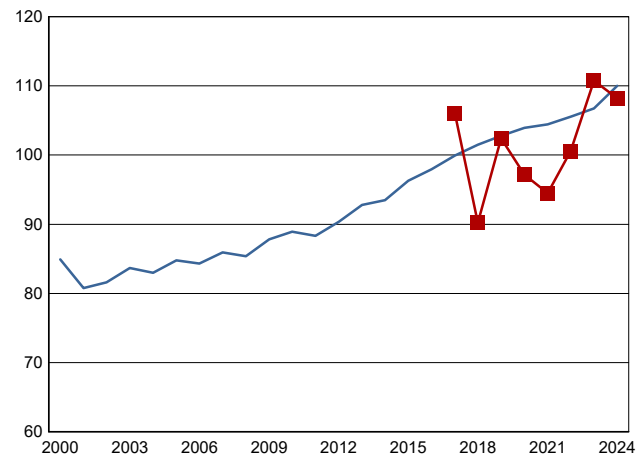
Temperament



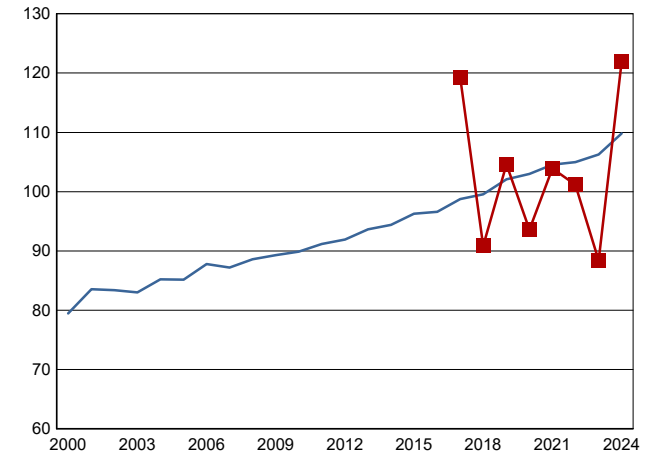
Coat



General Appearance

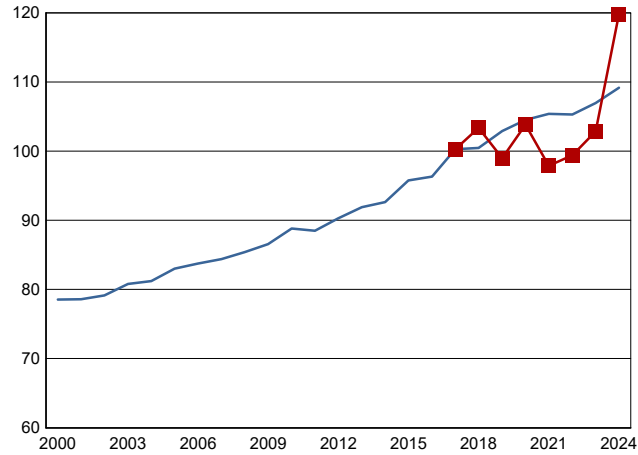


Head & Face

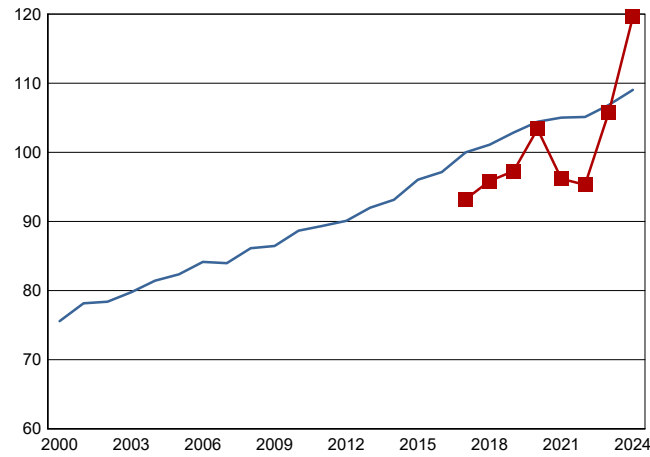


Genetic Trends

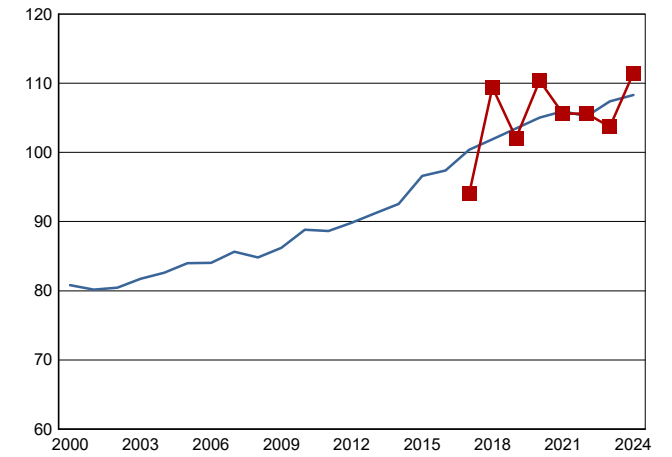
Front Quarter



Centre

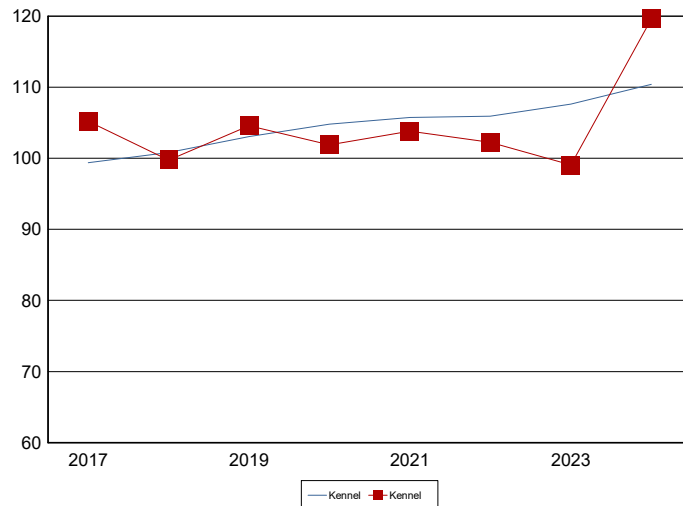


Hind Quarter

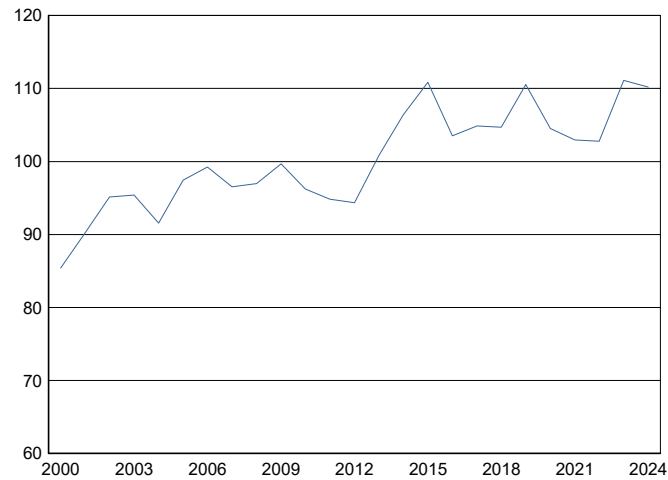


Final Score & Health Traits

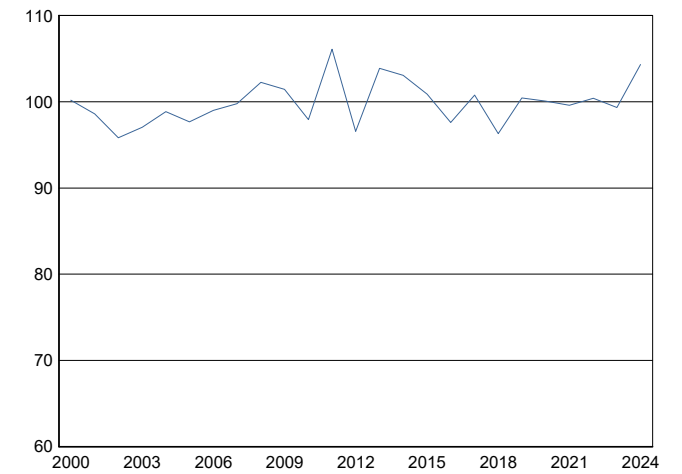
Final Score



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			
ANTWAIN SALT	ROKAFELA BRUNO	9.32	94	94	95	116	111	89	105	80	94	97	111	95	15	3	4			
	2020 ANTWAIN BLUE		5	5	15	42	14	56	41	55	43	45	47	52						
BRIPHIN ANTWAIN COOPER	ANTWAIN MINI-COOPER	4.29	100	103	121	87		105	92	108	98	89	97	98	2	2				
	2021 KADIMA MERCEDES		5	5	19	36		49	36	49	37	39	41	45						
ANTWAIN MINI BULLET	GABADIN ELITE ANTWAIN 7	6.20	97	95	96	106	106	107	104	112	106	100	105	109						
	2022 ANTWAIN PEPPER		5	5	5	27	5	43	26	42	28	31	33	38						
ANTWAIN REDMAN	ANTWAIN SALT	5.95	97	99	108	106	102	100	96	89	93	92	110	97						
	2022 BRIPHIN ANTWAIN KGOMOTSO		5	5	5	23	5	38	22	37	24	26	29	33						
EXPERT BUCHO	GABADIN ELITE ANTWAIN 7	6.14	97	101		97		125	107	128	120	114	102	119						
	2023 JOSMOT SKY		5	5		42		60	41	59	43	45	48	54						
ANTWAIN STONE	ANTWAIN SALT	11.93	94	100	91	102	110	95	112	91	104	106	103	100						
	2023 JOSMOT ANTWAIN		5	5	5	41	5	59	40	58	42	44	47	53						
ANTWAIN BOB	ELEVATION TOKKELOS	7.14	112	104	87	115	110	95	106	113	111	111	109	113						
	2024 ANTWAIN PEPPER		5	5	5	32	5	45	29	44	33	35	37	41						

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	
ANTWAIN MIRROR		ROKAFELA BRUNO	4.91	92	99	103	104	104	100	109	109	97	101	108	107	2	1				
	2017	GIANTS OF AFRICA VUKANI		5	5	23	46	18	63	45	62	47	49	52	57						
ANTWAIN BLUE		MES JAMBO	6.19	104	87	86	119	105	106	89	84	102	96	109	98	6	2	3			4
	2018	GIANTS OF AFRICA ZION QUEEN		5	5	33	51	27	67	50	66	52	54	56	62						
ANTWAIN PEPPER		ROKAFELA BRUNO	9.32	94	94	88	118	110	88	100	94	100	101	112	102	16	3	5			1
	2020	ANTWAIN BLUE		5	5	23	46	18	61	42	60	46	49	51	56						
JOSMOT ANTWAIN		TARGUS BOM BOEL	7.35	94	106	88	88	107	97	105	100	109	113	101	104	12	3	3			
	2020	TREBLA MINNIE		5	5	36	53	31	64	52	63	54	55	57	61						
BRIPHIN ANTWAIN KGOMOTSO		ANTWAIN MINI-COOPER	4.29	100	103	121	96	93	110	87	98	92	88	109	98	7	1	2			
	2021	KADIMA MERCEDES		5	5	19	46	17	64	46	63	47	50	52	58						
ANTWAIN MARINA		GABADIN ELITE ANTWAIN 7	6.20	97	95	96	106	100	113	95	104	98	96	106	104						
	2021	ANTWAIN PEPPER		5	5	5	39	5	59	38	58	40	43	46	52						
EXPERT BONITO		ROKAFELA GUN	13.05	92	99	101	100	107	125	107	114	111	119	117	119	2	1				
	2022	JOSMOT SKY		5	5	8	47	17	64	47	63	48	51	53	59						
ANTWAIN MERC		ANTWAIN SALT	5.95	97	99	108	107	102	99	90	64	78	81	116	85						
	2022	BRIPHIN ANTWAIN KGOMOTSO		5	5	5	37	5	57	36	56	38	40	44	50						
ANTWAIN ARIANA		ANTWAIN SALT	11.93	94	100	91	102	110	95	110	86	102	106	105	98						
	2023	JOSMOT ANTWAIN		5	5	5	41	5	59	40	58	42	44	47	53						
ANTWAIN ZIGGA		ANTWAIN DOMINIC	9.44	94	97	99	103	107	116	106	113	109	110	111	114						
	2024	EXPERT BONITO		5	5	5	16	5	32	15	31	17	20	23	28						
ANTWAIN MIAMI		ELEVATION TOKKELOS	7.14	112	104	87	121	113	91	108	122	120	120	112	120						
	2024	ANTWAIN PEPPER		5	5	5	43	10	62	29	61	44	47	50	55						

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
ROKAFELA BRUNO	2016	MES BITE A BULLET	15.27	84	102	104	111	114	69	115	103	100	107	111	105	18	7	5	5
		STEPHANO GABRIELLA		5	5	40	61	39	74	61	73	62	64	66	70				
TARGUS BOM BOEL	2016	CABARET SON OF A GUN	24.74	81	114	66	90	114	79	112	94	103	116	107	102	86	14	38	28
		CRIHATA LILLIE		5	5	57	78	57	88	78	87	79	80	82	85				
MES JAMBO	2016	GROENBERG BBD RAMBO	4.08	107	86	107	118	109	94	87	81	93	93	118	97	21	5	5	7
		MES LIZE		29	38	52	66	51	76	65	75	66	67	69	72				
ANTWAIN MINI-COOPER	2017	GIANTS OF AFRICA PAULO	5.64	109	103	104	82	93	121	104	130	104	85	81	104	23	5	12	6
		GIANTS OF AFRICA VUKANI		5	5	24	52	22	70	51	69	53	55	58	64				
ROKAFELA GUN	2018	KAMMO BBD SAMWELL	10.68	89	93	95	105	105	120	119	109	104	115	117	115	15	4	5	3
		ELDORADO BBD TARGUS RILEY		5	5	30	59	34	74	58	73	60	62	64	69				
GABADIN ELITE ANTWAIN 7	2019	ANTWAIN MINI-COOPER	7.69	99	96	103	94	102	125	108	131	113	99	97	115	29	4	8	1
		TERRITORIAL JAANAM WINNIE		5	5	5	47	9	66	46	65	48	51	54	60				
ANTWAIN SALT	2020	ROKAFELA BRUNO	9.32	94	94	95	116	111	89	105	80	94	97	111	95	15	3	4	
		ANTWAIN BLUE		5	5	15	42	14	56	41	55	43	45	47	52				
ELEVATION TOKKELOS	2020	LINGA LONGA HARLEY 3	5.39	131	114	85	112	109	102	113	133	123	120	105	123	15	3	2	
		ELEVATION MIAMI		11	31	29	56	32	70	54	69	57	59	61	65				
ANTWAIN DOMINIC	2021	GABADIN ELITE ANTWAIN 7	6.20	97	95	96	106	106	107	104	112	106	100	105	109	2			
		ANTWAIN PEPPER		5	5	5	27	5	43	26	42	28	31	33	38				

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	
GIANTS OF AFRICA VUKANI	2015	ELEVATION HUDSON	4.95	100	97	102	107	98	122	97	106	90	98	111	107	9	4	3			3
		ENKWE RUBY		5	5	43	53	28	69	53	68	54	56	59	64			2			1
GIANTS OF AFRICA ZION QUEEN	2015	AFRIKA BARTO	5.45	101	89	91	114	100	113	97	96	110	99	109	104	8	3	2			3
		TAKDAM ALUMINIUM		5	5	43	43	17	58	42	57	44	46	48	53			2			1
ANTWAIN BLUE	2018	MES JAMBO	6.19	104	87	86	119	105	106	89	84	102	96	109	98	6	2	3			4
		GIANTS OF AFRICA ZION QUEEN		5	5	33	51	27	67	50	66	52	54	56	62			3			1
TREBLA MINNIE	2018	MAWEZA DISSELBOOM	10.18	107	98	119	89	101	110	89	108	114	110	105	108	20	4	12			10
		TREBLA ULA II		5	5	43	63	37	77	62	77	64	66	69	73			9	1	1	1
KADIMA MERCEDES	2019	BREKER FANUS	4.36	91	103	138	92	87	90	80	87	92	92	113	92	52	6	19			2
		LINJO SPARKLE		5	5	46	57	33	70	57	69	58	59	62	66			18			1
ANTWAIN PEPPER	2020	ROKAFELA BRUNO	9.32	94	94	88	118	110	88	100	94	100	101	112	102	16	3	5			1
		ANTWAIN BLUE		5	5	23	46	18	61	42	60	46	49	51	56			4			1
JOSMOT SKY	2020	TARGUS BOM BOEL	7.35	94	106	108	93	111	115	103	114	118	124	114	118	18	2	6			1
		TREBLA MINNIE		5	5	39	59	35	71	58	71	59	61	63	67			4			1
JOSMOT ANTWAIN	2020	TARGUS BOM BOEL	7.35	94	106	88	88	107	97	105	100	109	113	101	104	12	3	3			
		TREBLA MINNIE		5	5	36	53	31	64	52	63	54	55	57	61			2			
BRIPHIN ANTWAIN KGOMOTSO	2021	ANTWAIN MINI-COOPER	4.29	100	103	121	96	93	110	87	98	92	88	109	98	7	1	2			
		KADIMA MERCEDES		5	5	19	46	17	64	46	63	47	50	52	58			2			
EXPERT BONITO	2022	ROKAFELA GUN	13.05	92	99	101	100	107	125	107	114	111	119	117	119	2	1				
		JOSMOT SKY		5	5	8	47	17	64	47	63	48	51	53	59						

